



Marius MOSOARCA

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☎ **Telefon**: (+40) 740612757

Data nașterii: 11/09/1967 **Locul nașterii**: Timisoara, România **Cetățenie**: română

EXPERIENȚA PROFESIO- NALĂ

Universitatea de Stiintele Vietii Regele " Mihai I" din Timisoara

Localitatea: Timisoara | **Țara**: România

[01/10/2024 – În curs]

Profesor

Cursuri sustinute in cadrul Departamentului de Dezvoltare Durabila si Ingineria Mediului:

1. Constructii sustenabile - licenta an IV
2. Reconstructia ecosistemelor - master an II
3. Evaluarea riscurilor si managementul dezastrelor - master an II

Profesor asociat Universitatea "Transilvania" Brasov - curs master „Restaurarea și conservarea patrimoniului construit”

[2025 – În curs]

Consilier al Rectorului Universitatii de Stiintele Vietii " Regele Mihai I" al Romaniei pe probleme de internationalizare

Consiliul Național de Atestare a Titlurilor, Diplomelor si Certificatelor Universitare CNATDCU

Țara: România

[2020 – În curs]

Membru

[2015 – 01/08/2024]

Conducator de doctorat

**Atestat de abilitare in domeniul inginerie civila si management. Ordin nr:
4718/11.08.2015**

Teza de abilitare - "Structuri portante în arhitectură. Trecut, prezent și viitor"

Conducator doctorat Universitatea Politehnica Timisoara

Perioada: 2015-2024

- 3 doctoranzi au finalizat studiile - 2 doctoranzi din Romania; 1 doctorand din strainatate (Italia)
- 4 doctoranzi doctoranzi din Romania
- 1 doctorand in cotutela in Romania
- 1 doctorant coordonat in cadrul unui stagi doctoral drd. ing. Giovanna Longobardi
Universitatea FEDERICO II NAPOLI - septembrie 2023-martie 2024

Conducator doctorat Universitatea Transilvania Brasov 2025 - prezent

**Atestat de abilitare in domeniul Ingineria mediului. Ordin Ministerul Educatiei nr:
4605/ 05.06.2024**

M. Mosoarca

Teza de abilitare: "PROTECȚIA MEDIULUI ÎNCONJURĂTOR PRIN PROIECTAREA DE CONSTRUCȚII SUSTENABILE ȘI ZONE URBANE REZILIENTE LA ACȚIUNEA HAZARDURILOR NATURALE MULTIPLE"

Coordonator stagii doctorale internaționale în cadrul Universității de Științele Vieții "Regele Mihai I" din Timișoara:

- Antonella Ranaldo, University Basilicata Matera, Italia în perioada : 09-12.2024, 09-12.2025
- Anna Lo Monaco, University Basilicata Matera, Italia în perioada : 09-12.2024, 09-12.2025

ICOMOS (The International Council on Monuments and Sites)

[20/12/2020 – În curs] **Membru**

Numar membru ROU 40852

Expert ISCARSAH-ICOMOS 2021

Universitatea Politehnica Timisoara

[2015 – 01/09/2024] **Profesor**

Activități didactice și de cercetare în domeniile restaurării clădirilor istorice și proiectării structurilor portante.

Coordonator master : RESTAURARE ȘI REGENERARE PATRIMONIALĂ 2017- 2024

Cursuri predate:

- Proiectarea structurilor 1, licența, an III
- Proiectarea structurilor 2, licența an III
- Proiectarea structurilor 4, licența, an IV
- Metode de restaurare, licența, an IV
- Urbanism antiseismic, master urbanism FAUT, an II
- Risc și reziliența urbană, master urbanism FAUT, an II
- Principii și tehnologii de consolidare a structurilor portante istorice, master RRP, an II
- Vulnerabilitățile și diagnoza structurilor portante istorice, master RRP, an I
- Proiectare de restaurare, master RRP, an II
- Intervenții structurale și nestructurale în arhitectura de interior, master TMTN, an I
- Clădiri industriale, curs licența an V

Universitatea Politehnica Timisoara

Localitatea: Timișoara | **Țara:** România

[01/08/2024] **Coordonator disertații**

Coordonator disertații naționale în cadrul unor programe masterale ale Universității Politehnica Timișoara:

- Master "Urbanism și amenajarea teritoriului" - 5
- Master „Restaurare și regenerare patrimonială” - 5

Coordonator disertații internaționale cotutela: prof. Ivan GIONGO Universitatea Trento, Italia: „Evaluarea vulnerabilității bisericii de lemn din secolul XVIII din Căpăt (România)” (2021)

[2023 – În curs] **Diriginte de șantier - nr autorizație 00032458**

Consolidare și restaurare monumente istorice - toate domeniile de importanță;

titlușcă

Construcții civile, industriale și agricole - categoria de importanță B

Asociația "RESTAURO"

Localitatea: Timisoara | **Țara:** România

[2009 – În curs] **Presedinte**

Coordonare activitati de proiectare si expertizare a cladirilor cu valoare de patrimoniu

S.C. EVAL STRUCT SRL

[2003 – În curs] **Expert evaluator proprietati imobiliare specializare EPI nr. 14373**

Timisoara, Strada Ciocarliei, Nr.86, Jud.Timis, cod 300600 Tel/fax:0256 226277

S.C. H.I. STRUCT S.R.L.

Țara: România

[1997 – În curs] **Administrator**

Timisoara, Strada Ciocarliei, Nr.86, Jud. Timis, cod 300600 Tel/fax: 0256 226277;

office@histruct.ro

Activități și responsabilități principale: Proiectare structuri rezistenta cladiri

S.C. MAISON STYL S.R.L.

Țara: România

[1994 – În curs] **Administrator delegat / Inginer proiectant structuri**

Timisoara, Strada Ciocarliei, Nr.86, Jud.Timis, cod 300600 Tel/fax:0256 226277

Activități și responsabilități principale: Proiectare structuri rezistenta cladiri

Ministerul Culturii

[2020 – 2022] **Membru in comisia zonala a monumentelor istorice - Timisoara**

CZMI nr. 12 TIMIS

Universitatea Politehnica Timisoara

Țara: România

[2013 – 2020] **Prodecan al Facultatii de Arhitectura si Urbanism**

Universitatea Politehnica Timisoara

Țara: România

[2013 – 2015] **Conferentiar**

Universitatea Politehnica Timisoara

Țara: România

[2009 – 2013] **Sef de lucrari**

Universitatea Politehnica Timisoara

Țara: România



[1998 – 2003] **Asistent universitar**

Universitatea Politehnica Timisoara

Țara: România

[1998 – 1999] **Preparator**

S.C. HIDROTIM S.R.L.

Țara: România

[1994 – 1995] **inginer proiectant constructii hidrotehnice**

Activități și responsabilități principale: Proiectare structuri rezistentă clădiri

EDUCAȚIE ȘI FORMARE PROFESIONALĂ

[1994] **Inginer**

Universitatea Politehnica Timisoara

[2004] **Doctor inginer – distinctia “cum laudae”**

Universitatea Politehnica Timisoara

[2009 – În curs] **Specialist (287 S/20.11.2009)**

Ministerul Culturii si Patrimoniului National

COMPETENȚE LINGVISTICE

Limbă(i) maternă(e): Romana

Altă limbă (Alte limbi):

Engleza

COMPREHENSIUNE ORALĂ B1 **CITIT** B1 **SCRIS** B1

EXPRIMARE SCRISĂ B1 **CONVERSAȚIE** B1

Franceza

COMPREHENSIUNE ORALĂ B2 **CITIT** B2 **SCRIS** B2

EXPRIMARE SCRISĂ B2 **CONVERSAȚIE** B2

Italiana

COMPREHENSIUNE ORALĂ A2 **CITIT** B1 **SCRIS** A1

EXPRIMARE SCRISĂ B1 **CONVERSAȚIE** B1

Niveluri: A1 și A2 Utilizator de bază B1 și B2 Utilizator independent C1 și C2 Utilizator experimentat

COMPETENȚE

Microsoft Office | SAP 2000 | AxisVM | AutoCAD 2D - nivel avansat | Cunoștințe medii de calcul și modelare structurală în programul ETABS

REȚELE ȘI AFILIERI

Afilieri

Membru ICOMOS din anul 2021

Membru în Asociația Inginerilor Constructori Proiectanți de Structuri (A.I.C.P.S.) din anul 1998;

titular

Membru în Asociația Generală a Inginerilor din România (A.G.I.R.) din anul 1996;
Membru în Societatea Bănățeană de Inginerie Seismică (S.B.I.S.) din anul 2002;
Membru Asociația Nationala a Evaluatorilor din Romania (A.N.E.V.A.R.) din anul 2004;
Membru in Comisia Tehnica din Mitropolia Banatului, Timisoara;
Membru in Grupul de suport tehnic al Institutiei Prefectului jud. Timis pentru situatii de urgenta in caz de seism din anul 2010-2012;
Membru supleant in Comisia Tehnica Primaria Municipiului Timisoara 2006-2008;
Secretar AICPS Filiala Timisoara 2017- 2020

PERMIS DE CONDUCERE

Autoturism: B

CONFERINȚE ȘI SEMINARE

Participarea la 36 conferinte desfasurate in strainatate

Participarea la 11 conferinte internationale cotate ISI

Participarea la 4 conferinte internationale desfasurate in Romania

Participarea la 1 conferinta nationala codata ISI

Participarea la 12 conferinte nationale

Membru in comitetele stiintifice a 14 congrese internationale

Participarea cu articole stiintifice la 90 de comunicari stiintifice

PROIECTE

[1996 – În curs]

Sef de proiect, membru in colectivele de expertizare

- peste 150 de proiecte de executie structuri de rezistenta noi;
- peste 30 de proiecte de restaurare a cladirilor istorice: monumente de importanta nationala si regionala, biserici, cetati si situri arheologice

DISTINCȚII ONORIFICE ȘI PREMII

Premii

1. Premiul 3, decernat de AICPS pentru proiectul "City Business Centre Timisoara", 2008;
2. Premiu „Best poster award” decernat in cadrul conferintei „ International Conference on Engineering Failure Analysis” acordat pentru posterul articolului „Seismic vulnerability assessment for the historical areas of the Timisoara city, Romania”, congres Engineerinf Failure Analysis, Budapesta, autori Mosoarca, Marius, Iasmina Onescu, Eugen Onescu, Bianca Azap, Nicola Chieffo, si Mirela Szitar-Sirbu, 2016

PROFIL CERCETĂTOR

Publons

R-6648-2019

ORCID

<https://orcid.org/0000-0003-4184-5088>

titlu

Google Scholar

<https://scholar.google.com/citations?hl=ro&user=c79XitEAAAAJ>

ResearchGate

https://www.researchgate.net/profile/Mosoarca_Marius2

CITARI

Citari ale lucrarilor stiintifice - afiliere UP Timisoara si USV Timisoara

1435 in Google Scholar

874 in Scopus

632 in Web of Science

Indici Hirsch

19 in Google Scholar

16 in Scopus

14 in Web of Science

CURSURI SUSTINUTE IN CALITATE DE PROFESOR INVITAT

[12/03/2024 – 14/03/2024]

Curs "Dynamics in vulnerability assessment of historical buildings"

DYCLAM "Dynamics of Cultural Landscapes Heritage Memory and conflictualities" Master Erasmus Mundus

[14/04/2023 – 16/04/2023]

Curs "Dynamics in vulnerability assessment of historical buildings"

DYCLAM "Dynamics of Cultural Landscapes Heritage Memory and conflictualities" Master Erasmus Mundus

[13/03/2022 – 18/03/2022]

Curs "Dynamics in vulnerability assessment of historical buildings"

DYCLAM "Dynamics of Cultural Landscapes Heritage Memory and conflictualities" Master Erasmus Mundus

[01/12/2021]

Curs "Holistic approach in the seismic vulnerability assessment of buildings"

Universitatea Politehnica din Milano - Departamentul de Arhitectură, Mediu construit și Inginerie civila - profesor invitat in cadrul scolii doctorale, decembrie 2021

[02/2021]

Curs "Dynamics in vulnerability assessment of historical buildings"

DYCLAM "Dynamics of Cultural Landscapes Heritage Memory and conflictualities" Master Erasmus Mundus

RECENZII

[În curs]

Recenzor pentru reviste internationale indexate WEB OF SCIENCE si SCOPUS

Editura Elsevier:

1. Engineering Structures
2. Thin Wall Structure
3. Engineering Failure Analysis
4. Journal of Cultural Heritage
5. Structures
6. Journal of Building Engineering

to timisoara

7. Construction and Building Materials
8. Materials and Design
9. Developments in the Built Environment
10. Soil Dynamics and Earthquake Engineering
11. International Journal of Disaster Risk Reduction
12. Progress in Disaster Science

Editura Springer

1. Bulletin of Earthquake Engineering
2. Journal of Natural Hazards
3. Earthquake Engineering and Engineering Vibration
4. International Journal of Concrete Structures and Materials

Editura Wiley

1. Structural Concrete

Editura Taylor and Francis

1. International Journal of Architectural Heritage
2. European Journal of Environmental and Civil Engineering
3. International Journal of Disaster Risk Science

Alte edituri:

1. Cogent Engineering
2. WSEAS
3. Journal of Scientific Research and Essays
4. International Journal of Masonry Research and Innovation
5. Geosciences
6. Buildings
7. Energies
8. Heritage

[În curs] **Membru in comitetele stiintifice ale unor congrese internationale**

- International Conference in Risk Management, Assessment and Mitigation RIMA, 2010
- 3rd European Conference on Civil Engineering ECCIE, 2012
- International Van earthquake symposium VANESQ, Van, Turcia, 2013
- 2nd International conference on protection of historical constructions PROHITECH, 2014
- 2nd International Conference RICH 2014 - Robotics: Innovation for Cultural Heritage, 2014
- 3rd International Conference on Structural Health Assessment of Timber Structures SHATIS, 2015
- International Conference on Mechanics of Masonry Structures Strengthened with Composite Materials MURICO5, 2017
- 3rd International Conference on Protection of Historical Constructions PROHITECH, Lisabona, 2017
- 4th International Conference on Structural Health Assessment of timber structures SHATIS, 2017
- International Conference on Heritage and Sustainable Innovation CoHeSION, 2018
- 5th International Conference on Structural Health Assessment of timber structures SHATIS, 2019
- Structural Engineers World Congress SEWC, 2019
- International Conference on Mechanics of Masonry Structures Strengthened with Composite Materials MuRiCO6, Bologna, 2019
- 12th International Conference on Structural Analysis of Historical Constructions SAHC, Barcelona, 2021

titular

- International Conference on Mechanics of Masonry Structures Strengthened with Composite Materials MuRiCO7, Bologna, 2021
- 3rd European Conference on Earthquake Engineering and Seismology, Bucuresti, 2022
- 10th International Conference on the BEHAVIOUR OF STEEL STRUCTURES IN SEISMIC AREAS, STESSA, Timisoara, 2022
- 13th International Conference on Structural Analysis of Historical Constructions SAHC, Kyoto, 2023
- 11th International Conference on the BEHAVIOUR OF STEEL STRUCTURES IN SEISMIC AREAS, STESSA, Salerno, 2024
- 13th International Conference on Structural Analysis of Historical Constructions SAHC, 2023
- SUBLime Conference 2024, Towards the next generation of sustainable masonry systems: Mortars, renders, plasters and other challenges, Funchal, Madeira, Portugal, 2024
- 11th International Conference on the BEHAVIOUR OF STEEL STRUCTURES IN SEISMIC AREAS, STESSA, Salerno, 2024
- SUBLime Conference 2024, Madeira
- 5th International Conference on Protection of Historical Constructions PROHITECH, 2025
- International Conference on Structural Health Assessment of Timber Structures (SHATIS), 2025
- 14th International Conference on Structural Analysis of Historical Constructions SAHC, Lausanne, Elvetia, 2025
- MuRiCo8 - Mechanics Of Masonry Structures Strengthened With Composite Materials, Bologna, Italy, 2025
- Re-Evaluating Contemporary Designs in Historical Contexts, 2nd RE-ConD'25, Itanbul, Turkey, 2025

[2017 – În curs] **Recenzor pentru "World Monuments Fund"**

Evaluator din partea ICOMOS si ISCARSAH in cadrul "World Monuments Fund (WMF)" o organizație non-profit, internațională, dedicată protejării patrimoniului construit istoric .

Au fost evaluate pana in momentul de fata:

- un sit istoric in 2018
- un sit istoric și o clădire istorică 2021

COMISII STIINTIFICE

Membru in comisii teze de doctorat si comisii de abilitare: 21

Membru in comisii de abilitare de doctorat: 2

1. Prof.dr.ing. M. Prada, Universitatea Ovidius Constanta, 2017
2. Dr.ing. C. Dragomir, Universitatea Tehnica Cluj-Napoca, 2024

Membru in comisii de doctorat: 13 in Romania:

- György ORBÁN - Analiza și valorificarea patrimoniului construit al Bisericii Romano-Catolice din Transilvania în cadrul drumului de pelerinaj „Drumul Mariei”, Universitatea Tehnica de Constructii Cluj-Napoca 2013
- Riyadh SALHA - Engineering contributions to a future oil-free urban development, Universitatea Tehnica de Constructii Cluj-Napoca 2012

titular

- Eleonora Eva PARTENE - Studiul comportării pereților din zidărie la încercări seismice. Consolidarea pereților din zidărie cu materiale polimerice, Universitatea Politehnica Timisoara 2018
- Gabriela Adela CĂLĂȚAN - Contribuții privind implementarea soluțiilor locale și tradiționale în locuirea sustenabilă”, Universitatea Tehnica de Constructii Cluj-Napoca 2019
- Dan Mathe IDICEANU - “Georges Cristinel. Un architect care face tranzitia”, Universitatea Politehnica Timisoara, 2019;
- Vladimir OBRADOVICI - “Salvgardarea bisericii monument de lemn din Crivina de Sus. Rolul arhitectului într-un proces multidisciplinar”, Universitatea Politehnica Timisoara 2020
- Sergiu BLAGA - "Contribuții la reabilitarea prin cămășuire cu materiale cimentoase a conductelor de transport a apei”, Universitatea Tehnica de Constructii Cluj-Napoca 2021
- Cristian Mihai IRIMIA - "Protecția seismică a bisericilor de plan trilobat", Universitatea Tehnica de Constructii Bucuresti, 2021
- Elvira Mihali - "Materiale composite cemetoase self-cleaning", Universitatea Tehnica de Constructii Cluj-Napoca 2022
- Paul Olteanu, Aplicarea proiectării bazate pe deplasare în contextul hazardului seismic din România", Universitatea Tehnica de Constructii Bucuresti, 2022
- Robert Draghici, "Recuperarea calcanelor interbelice din capitala", Universitatea Tehnica de Constructii Bucuresti, 2022
- Alexandra Scupin, "Vulnerabilitatea seismică cladirilor de ptrimoni cu structura de zidarie portanta din Romania", Universitatea Tehnica de Constructii Bucuresti, 2022
- Liviu Gruia, "Reziliencia seismică a cladirilor interbelice din Romania", Universitatea Tehnica de Constructii Bucuresti, 2022

Membru in comisii internationale de doctorat: 7

- Ermes Rizzi - "Role of timber in the seismic resilience of existing URM buildings", 1 University of Trento, 2020
- Mattia Schiavoni "Distinct element method for architectural heritage: from the past to future advances", Politehnic University of Marche, 2023
- Amal Gerges "Modelling Masonry as a Continuum: Finite Element Analysis using ABAQUS" Universitatea Cagliari, Italia, 2024
- Nicola Zaru - "Probabilistic Inversion of Electromagnetic Data in the Frequency Domain" University of Cagliari, Italia, 2024
- Francesca Musanti - "Strumenti progettuali per l'accessibilità fisica, percettiva ed appropriazionale attraverso il caso dei siti archeologici urbani", University of Cagliari, Italia, 2024
- Sofia Giusto: "Development of fragility curves for the seismic risk assessment of a school buildings portfolio at regional scale", University of Genoa, Polytechnic school, Department of civil, Chemical and Environmental engineering (DICCA), 2024
- Giulia Boccacci: "Towards a New Vision for War Heritage: Preventive Conservation and Adaptive Reuse of Massive Structures" Doctoral Course in SCIENZE DELLA TERRA, Universitatea Sapienza din Roma, 2025.

Titu Bocu

Presedinte comisie de doctorat: 3

- Camil Octavian MILINCU – “Mobilier în a patra Revoluție Industrială”, Universitatea Politehnica Timisoara, 2016
- Alexandru CIOBOTĂ – “Participarea gospodăriei în evoluția peisajului cultural în comuna Pietroasa. Direcții de cercetare transdisciplinară”, Universitatea Politehnica Timisoara, 2021
- Elena-Roxana FLORESCU – “Pământul ca material de construcție. Tradiție constructivă și inovație ecologică” - Universitatea Politehnica Timisoara, 2021

CĂRȚI ȘI CAPITOLE ÎN CĂRȚI

[2024] **De la risc la sustenabilitate si rezilienta in protectia mediului inconjurator**

Marius Moșoarcă , Mihai Fofiu, Anthimos Anastasiadis, ” De la risc la sustenabilitate si rezilienta in protectia mediului inconjurator ”, Editura Eurobit ISBN : 978-630-326-085-3, 2024

[2023] **Influence of Geometric Ratios on the Structural Behaviour of Historic Timber Roof Structures.**

Keller Alexandra, Mosoarca Marius, Structural Analysis of Historical Constructions. SAHC 2023. RILEM Bookseries, vol 46. Springer, Cham. https://doi.org/10.1007/978-3-031-39450-8_22 ISSN 22110844 - capitol in carte

[2023] **Conservation, Consolidation and Restoration of Holy Annunciation Church of Vătășești Village, Region of Oltenia, Romania.**

Moșoarcă Marius, Popovici Traianus, Roseti Tamara, Structural Analysis of Historical Constructions. SAHC 2023. RILEM Bookseries, vol 47. Springer, Cham. https://doi.org/10.1007/978-3-031-39603-8_107, ISSN 22110844

[2023] **Experimental Investigation of One-Sided Strengthening Interventions on Historic Brick Masonry Walls..**

Bocan Dragos, Keller, Alexandra, **Mosoarca Marius**, Bocan Catalina , Endo, Y., Hanazato, T. (eds) Structural Analysis of Historical Constructions. SAHC 2023. RILEM Bookseries, vol 47. Springer, Cham. https://doi.org/10.1007/978-3-031-39603-8_40, ISSN 22110844, capitol in carte

[2023] **Vulnerability Assessment of Historical Churches in Banat Seismic Region, Romania.**

Onescu, Iasmina, Anna Lo Monaco, Mihai Fofiu, Nicola Grillanda, **Marius Mosoarca**, Michele D'Amato, Antonio Formisano , Structural Analysis of Historical Constructions. SAHC 2023. RILEM Bookseries, vol 46. Springer, Cham.

ISSN 22110844, https://doi.org/10.1007/978-3-031-39450-8_9
capitol in carte

- [2022] **Prelucrarea asistată de calculator în concepția structurilor portante, Partea I. Beton armat**
- Mihai Fofiu, Marius Moșoarcă, "Prelucrarea asistată de calculator în concepția structurilor portante, Partea I. Beton armat", Editura Politehnica, 2022, ISBN : 9786063504273
- [2019] **Structural Balance of Historical Aggregates**
- Mosoarca Marius, Valeriu Stoian, Margareta Florea, Marius Niculescu. Springer, Cham, 2448-2456, ISSN 22110844, capitol in carte
- [2019] **Seismic vulnerability scenarios for Timisoara, Romania**
- Apostol Iasmina, Marius Mosoarca, Nicola Chieffo, Eugen Onescu, Ed Springer, Cham, pp. 1191-1200 , ISSN 22110844, capitol in carte
- [2019] **Structural Analysis and Damage Assessment of a Historical Masonry Palace–A Case Study**
- Partene Eva, **Marius Mosoarca**, Valeriu Stoian. Ed. Springer, Cham, pp1117-1124, ISSN 221108, capitol in carte
- [2019] **Reshaping the Villa–Complex Intervention in a 1930's Structure**
- Andreescu, Ioan, **Marius Moșoarcă**, Dan-Răzvan Dinu. Ed. Springer, Cham, pp 2314-2322, ISSN 22110844, capitol in carte
- [2013] **Contributii la calculul si alcatuirea peretilor structurali din beton armat**
- Mosoarca Marius, Valeriu Stoian, "Contributii la calculul si alcatuirea peretilor structurali din beton armat", Editura Politehnica Timisoara, 2013, ISBN: 978-606-554-648-6
- [2012] **Volum 5: Chapter 4.2: Overview of collapse modes and evaluation of bearing capacity in Volume: Earthquake protection of historical buildings by reversible mixed technologies - Seismic protection of historical buildings: calculation models**
- Mosoarca Marius, Victor Gioncu, FP6 PROHITECH project: "Volum 5: Chapter 4.2: Overview of collapse modes and evaluation of bearing capacity in Volume: Earthquake protection of historical buildings by reversible mixed technologies - Seismic protection of historical buildings: calculation models, pp.245-277, F. M. Mazzolani - General coordinator; Ed. Polimetrica International Scientific, ISBN: 978-88-7699-169-6, 2012
- [2012] **Volum 1: Intervention strategies for the seismic protection of historical building heritage in the Mediterranean basin**
- Mosoarca Marius, FP6 PROHITECH project: "Volum 1: Intervention strategies for the seismic protection of historical building heritage in the Mediterranean basin" – Ed. Polimetrica, ISBN: 978-88-7699-169-1, 2012
- [2010] **Advances in Enviromental and Geological Science and Engineering**
- Mosoarca Marius, Ancuta Rotaru, - Editor asociat ISI Proceedings: "Advances in Enviromental and Geological Science and Engineering", 3rd International Conference, EG'10, Constanta, Publicat de WSEAS Press, ISSN:1792-4685; ISBN: 978-960-474-221-93-5, Septembrie, 2010
- [2009] **Proiectarea cladirilor cu pereti structurali din beton armat**
- Mosoarca Marius, "Proiectarea cladirilor cu pereti structurali din beton armat", Editura Mirton, Timisoara, 2009, ISBN: 978-973-52-0589-8

Mosoarca Marius "Profile of a civil engineer.Victor Gioncu at seventy", 387 pagini, Editura Orizonturi Universitare, Timisoara, 2004, ISBN: 973-638-118-8

MEMBRU IN COMITETE EDITORIALE

Comitete editoriale ale unor jurnale stiintifice

- American Journal of Civil Engineering, ISSN 2330-8737- Editorial Board member (pana in 2020)
- Constructii Journal, ISSN 2247-0328 - Editorial Board member
- International Journal of Architecture, Urbanism and Heritage, ISSN 2668-2249 - Executive Editor
- Frontiers in Built Environment, Open Acces Journal - Review Editor
- International Journal of Masonry Research and Innovation, ISSN 2056-9459 - Editorial Board member, Revista indexata ISI 2023-prezent

Comitete ale unor manifestari stiintifice internationale

- International Conference in risk management, assessment and mitigation RIMA, 2010
- International Van earthquake symposium VANEQS, 2013
- Zilele Academice Timisoara, Facultatea de Arhitectura, 2014
- 2nd International Conference on protection of historical constructions PROHITECH, 2014
- 2nd International Conference in Robotics: Innovation for Cultural Heritage RICH, 2014
- 3rd International Conference on Structural Health Assessment of Timber Structures SHATIS, 2015
- International Conference on Mechanics of Masonry Structures strengthened with composite materials MuRiCO, 2017
- 4th International Conference on Protection of Historical Constructions PROHITECH, 2017
- Structural Engineers World Congress SEWC, 2019
- 4th International Conference on Structural Health Assessment of Timber Constructions SHATIS, 2019
- International Conference on Mechanics of Masonry Structures Strengthened with Composite Materials MuRiCO7, 2021
- 10th International Conference on the Behaviour of Steel Structures in Seismic Areas, 2022
- 3rd European Conference on Earthquake Engineering and Seismology, Bucuresti, 2022
- 12th International Conference on Structural Analysis of Historical Constructions SAHC, Barcelona, 2021
- 13th International Conference on Structural Analysis of Historical Constructions SAHC, Kyoto, 2023
- 11th International Conference on the BEHAVIOUR OF STEEL STRUCTURES IN SEISMIC AREAS, STESSA, Salerno, 2024
- 3rd COHESION International Conference, Timisoara, Romania, 2023

Editor Numar special - Engineering Failure Analysis, Ed. Elsevier, 2024

Numar special - Failure analysis of existing structures and infrastructures under extreme events and long-term actions, 2024

Victor Gioncu

Editori - Rita Bento, Milani Gabrielle, Marius Mosoarca, Vasilis Sarhosis

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DOI10.1016/j.engfailanal.2023.10784

Revista indexata ISI WEB OF SCIENCE

Editor numar special "Sustainability", Ed. MDPI, 2024

Numar special - Study and Application in Construction: Disaster Prevention and Structural Engineering

Editori - Marius Mosoarca, Antonio Formisano, Iasmina Onescu, Alexandra Keller

Revista indexata ISI WEB OF SCIENCE

COMPETENȚE DE MANAGEMENT ȘI CONDUCERE

Membru Adunare Eparhiala, Mitropolia Banatului, Timisoara 2010-prezent

alaturi de Francesco Clementi, Antonio Formisano si Gabriele Milani

Membru Ministerul Cercetarii Dezvoltarii si Inovarii din Romania-comisia 6 : Patrimoniu si identitate

alaturi de Francesco Clementi, Antonio Formisano si Gabriele Milani

Prodecan al Facultatii de Arhitectura si Urbanism din Timisoara din aprilie 2013-2020

alaturi de Francesco Clementi, Antonio Formisano si Gabriele Milani

Director adjunct, "Centrul de Cercetare in Urbanism si Arhitectura", Facultatea de Arhitectura si Urbanism Timisoara, 2019-01.08.2024

Workshop organizat la Madrid in colaborare cu Universidad Politécnica de Madrid; Bialystok University of Technology

Istanbul Technical University (İTÜ); Università degli Studi di Catania si Università degli Studi di Napoli Federico II

Fondator si coordonator master Facultatea de Arhitectura si Urbanism Timisoara : RESTAURARE SI REGENERARE PATRIMONIALA 2016 - 01.08.2024

Numar special - Failure analysis of existing structures and infrastructures under extreme events and long-term actions

Editori - Rita Bento, Milani Gabrielle, Marius Mosoarca, Vasilis Sarhosis

Volum - 156

DOI10.1016/j.engfailanal.2023.107842

Membru in Consiliul Profesional al Facultatii de Arhitectura si Urbanism din anul 2012-2020

Numar special - Study and Application in Construction: Disaster Prevention and Structural Engineering

Editori - Marius Mosoarca, Antonio Formisano, Iasmina Onescu, Alexandra Keller



Membru in Consiliul de Departament al Facultatii de Arhitectura si Urbanism din Timisoara din anul 2012-2020

alaturi de: Michele D'Amato, Antonio Formisano, Rosario Gigliotti, Marius Mosoarca

Membru in Comisia de licenta a Facultatii de Arhitectura si Urbanism din Timisoara - pina in anul 2024

Membru comisii doctorat din anul 2014

Membru comisii de coordonare doctorat U.P.Timisoara, 2013-01.08.2024

Coordonator programe ERASMUS+ cu Univesitatile din: Padova, Milano, Napoli, Catania, Matera, Ancona (Italia), Mons (Belgia), Atena (Grecia), Minho (Portugalia), Van, Gaziantep (Turcia), Wroclaw (Polonia) 2014-2024 in U.P. Timisoara

Director coordinator pe Romania, program de cercetare international "Innovative systems for earthquake resistant masonry enclosures in RC buildings" – INSYSME, FP7- SME-2013 -606229, 2013-2016

Director coordonator pe Romania, program de cercetare international COST Action FP1101, Assessment, Reinforcement and Monitoring of Timber Structures in the Management Committee Member - 2014

Organizator Workshop international in colaborare cu Universita degli Studi di Padova din Italia: "Seismic Vulnerability of Historical Centers", Timisoara, iulie 2014

Responsabil din partea U.P.T. a programului de cercetare national: Patrimoniu „ascuns” II. Evidentierea valorilor de patrimoniu ale sarpantelor istorice. Parteneriat Facultatea de Arhitectura Timisoara cu Asoc. Restauratorilor de Monumente Istorice

Calitati manageriale ca director la firmele de proiectare in constructii S.C. H.I. STRUCT S.R.L (1998) si MAISON STYL S.R.L. (1994) Timisoara

Inginer specialist elaborator de studii si cercetari, proiectant de structuri de rezistenta, diriginte de santier, atestat de Ministerul Culturii Cultelor si Patrimoniului National numarul 287 S/20.11.2009

Inginer Senior - certificat de AICPS Romania

Editor asociat la conferinta ISI: „Advances in Enviromental and Geological Science and Engineering” EG'10, 2010, Constanta

Editor revista FAU Timisoara „Journal of Architecture, Urbanism and Heritage”, 2019 - 2024

Membru comisie organizare sesiune speciala "Seismic Analysis and Retrofitting of Civil Engineering Structures" in cadrul conferintei internationale 17th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2019)

Membru comisie organizare sesiune speciala "Seismic Analysis and Retrofitting of Civil Engineering Structures" in cadrul conferintei internationale 18th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2020)

Timisoara

Membru comisie organizare sesiune speciala "Seismic Analysis and Retrofitting of Civil Engineering Structures" in cadrul conderintei internationale 19th International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2021)

Director coordonator pe Romania, program de cercetare international COST Action CA2013-2 "Holistic design of taller timber buildings" 2021 - prezent

Coorganizator Workshop international "Vernacular Construction in Europe and Environmental Sustainability ", Madrid, 23-30 septembrie 2023

Editor numar special "Engineering Failure Analysis", Ed. Elsevier, 2024

Editor numar special "Sustainability", Ed. MDPI, 2024

Membru comisie organizare sesiune speciala "Seismic vulnerability and risk evaluation of existing constructions" in cadrul conderintei internationale International Conference of Numerical Analysis and Applied Mathematics (ICNAAM 2024)

ARTICOLE/STUDII IN EXTENSO, PUBLICATE ÎN REVISTE COTATE WEB OF SCIENCE CU FACTOR DE IMPACT

[2025] **Diagnosis and preliminary structural analysis of a historic masonry church in Craiova, Romania**

Mosoarca, Marius; Fofiu, Mihai ; Endo, Yohei, "Diagnosis and preliminary structural analysis of a historic masonry church in Craiova, Romania"

ENGINEERING FAILURE ANALYSIS, Volume181, DOI10.1016/j.engfailanal.2025.109959, Article Number 109959, ISSN 1350-6307, eISSN1873-1961, <https://www.webofscience.com/wos/woscc/full-record/WOS:001549047800001>, WOS: 001549047800001,

[2024] **An Innovative, Lightweight, and Sustainable Solution for the Integrated Seismic Energy Retrofit of Existing Masonry Structures**

Longobardi, G ; **Mosoarca, Marius** ; Gruin, A ; Ion, A ; Formisano, A

SUSTAINABILITY, Volume 16, Issue 11, DOI 10.3390/su16114791, WOS:001245690000001, eISSN 2071-1050, IDS Number UB8J2, 2024-06-19

[2024] **Simplified Vulnerability Assessment of Historical Churches in Banat Seismic Region, Romania**

Iasmina Onescu, Anna Lo Monaco, Nicola Grillanda, **Marius Mosoarca**, Michele D'Amato, Antonio Formisano, Gabriele Milani, Francesco Clementi & Mihai Fofiu WOS: 001199978800001, ISSN 1558-3058, DOI10.1080/15583058.2024.2341054

APR 2024

[2024] **Failure analysis of existing structures and infrastructures under extreme events and long-term actions**

Bento, R; Mosoarca M, Milani, G; Sarhosis, V

ENGINEERING FAILURE ANALYSIS

M. Mosoarca

[2024] **Earthquake Resilient near Zero Energy Buildings: Attributes and Perspectives**

Anastasiadis, Anthimos, and Marius Mosoarca. "Earthquake Resilient near Zero Energy Buildings: Attributes and Perspectives." *Sustainability* 16.6 (2024): 2317.

[2024] **Historic timber roof structure vulnerability assessment procedures - Critical analysis and comparison**

Keller, Alexandra Iasmina, and **Marius Mosoarca**. "Historic timber roof structure vulnerability assessment procedures–Critical analysis and comparison." *Journal of Cultural Heritage* 66 (2024): 132-141.

WOS:001127965400001

[2023] **Seismic assessment of Romanian Orthodox masonry churches in the Banat area through a multi-level analysis framework**

Monaco, Anna Lo, Nicola Grillanda, Iasmina Onescu, Mihai Fofiu, Francesco Clementi, Michele D'Amato, Antonio Formisano, Gabriele Milani, and Marius Mosoarca. "Seismic assessment of Romanian Orthodox masonry churches in the Banat area through a multi-level analysis framework." *Engineering Failure Analysis* 153 (2023): 107539.

WOS:001067708800001

[2023] **Failure mechanism of historic churches in Gorj county for shallow seismic action**

Mosoarca, Marius, Mihai Fofiu, and Iasmina Onescu. "Failure mechanism of historic churches in Gorj county for shallow seismic action." *Engineering Failure Analysis* 152 (2023): 107502.

WOS:001050315900001

[2023] **Seismic risk asesment and crisis management for historical buldings in Timisoara**

Onescu I, Onescu E. **Mosoarca Marius**, "Seismic risk asesment and crisis management for historical buldings in Timisoara,, DOI 10.1016/j.jobbe.2023.106665, vol. 72, 106665, Journal of Building Engineering, 2023

[2021] **The effect of ground motion vertical component on the seismic response of historical masonry buildings: The case study of the Banloc Castle in Romania**

Chieffo, Nicola, **Marius Mosoarca**, Antonio Formisano, Paulo B. Lourenço, and Gabriele Milani. "The effect of ground motion vertical component on the seismic response of historical masonry buildings: The case study of the Banloc Castle in Romania." *Engineering Structures* 249 (2021): 113346.

WOS:000712063200003

[2021] **Influence of historic roof structures on the seismic behaviour of masonry structures**

Keller Alexandra, Parisi Maria Adelaide, Tsakanika Eleftheria, **Mosoarca Marius**, "Influence of historic roof structures on the seismic behaviour of masonry structures", Proceedings of the Institution of Civil Engineers-Structures and Buildings, ICE Virtual Library, vol 174, pp. 443-456, 2021.

WOS:000658176800009

- [2021] **Seismic Vulnerability Assessment and Simplified Empirical Formulation for Predicting the Vibration Periods of Structural Units in Aggregate Configuration**
- Nicola Chieffo, Antonio Formisano, Giovanni Mochi, Marius Mosoarca. "Seismic vulnerability assessment and simplified empirical formulation for predicting the vibration periods of structural units in aggregate configuration." *Geosciences* 11, no. 7 (2021): 287.
- WOS:000676188500001
- [2020] **Seismic vulnerability assessment methodology for historic masonry buildings in the near-field areas**
- Mosoarca, Marius**; Onescu, Iasmina; Onescu, Eugen; Anastasiadis, Anthimos, "Seismic vulnerability assessment methodology for historic masonry buildings in the near-field areas", *Engineering Failure Analysis*, Volume: 115, pp. 86-113, 2020
- [2019] **Seismic vulnerability assessment for the historical areas of the Timisoara city, Romania**
- Mosoarca, Marius**, Iasmina Onescu, Eugen Onescu, Bianca Azap, Nicola Chieffo, and Mirela Szitar-Sirbu, „Seismic vulnerability assessment for the historical areas of the Timisoara city, Romania”, *Engineering Failure Analysis*, Volume: 101, pp. 86-112, 2019
- [2019] **Failure analysis of church towers and roof structures due to high wind velocities**
- Mosoarca, Marius**; Keller, Alexandra Iasmina; Bocan, Catalina, „Failure analysis of church towers and roof structures due to high wind velocities”, *Engineering Failure Analysis*, Volume: 100, pp. 76-87, 2019
- WOS:000463165000007
- [2018] **A complex assessment methodology and procedure for historic roof structures**
- Mosoarca Marius**, Keller Alexandra "A complex assessment methodology and procedure for historic roof structures". *International Journal of Architectural Heritage*, Volume: 12, Issue: 4, pp. 578-98, 2018
- WOS:000431697600007
- [2017] **Resilience of historic cities and adaptation to climate change**
- Keller Alexandra, Nicola Chieffo, Edmond Opritescu, **Marius Mosoarca**, Antonio Formisano. "Resilience of historic cities and adaptation to climate change", *Urbanism. Arhitectura. Constructil*, Volume: 8, Issue: 1, Pages: 15-26, ISSN: 2069-0509, eISSN: 2069-6469, 2017
- WOS:000388684600002
- [2017] **Failure analysis of historical buildings due to climate change**
- Mosoarca Marius**, Keller Alexandra, Petrus Cristian, Racolta Andrei "Failure analysis of historical buildings due to climate change". *Engineering Failure Analysis*, Volume: 82, pp. 666-680, <https://doi.org/10.1016/j.engfailanal.2017.06.013>, 2017
- WOS:000413323400056
- [2014] **Failure analysis of RC shear walls with staggered openings under seismic loads**
- Marius Mosoarca**, "Failure analysis of RC shear walls with staggered openings under seismic loads", *Engineering Failure Analysis* Volume 41, pp: 48-64, DOI: 10.1016/j.engfailanal.2013.07.037, Ed. Elsevier, 2014

WOS:000334511500006

[2014] **Local ductility of steel elements under near-field earthquake loading**

Victor Gioncu, Marius Mosoarca, Anastasiadis Anthimos, "Local ductility of steel elements under near-field earthquake loading", Journal of Constructional Steel Research, Vol. 101, pp 33-52, DOI: 10.1016/j.jcsr.2014.05.001001, ISSN: 0143-974X, Ed. Elsevier, 2014

WOS:000340336200004

[2014] **Are free form architectures ecological buildings?**

Marius Mosoarca, Anthimos Anastasiadis, Kampouris Apostolos "Are free form architectures ecological buildings?", Journal of environmental protection and ecology, vol. 15, no.1 pp. 359-366, ISSN 1311-5065, 2014

WOS:000334131100048

[2014] **Investigation of the cyclic inelastic capacity of steel beams through the use of the plastic collapse mechanism**

Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, "Investigation of the cyclic inelastic capacity of steel beams through the use of the plastic collapse mechanism", Bulletin of Earthquake Engineering, DOI 10.1007/s10518-014-9665-2, Print ISSN 1570-761X, Ed. Springer, 2014

WOS:000353782500006

[2013] **Failure mechanisms for historical religious buildings in Romanian seismic areas**

Marius Mosoarca, Victor Gioncu, „Failure mechanisms for historical religious buildings in Romanian seismic areas”, Journal of Cultural Heritage, Volume: 14, Issue: 3, pp: E65-E72, Supplement: S, DOI: 10.1016/j.culher.2012.11.018, WOS:000327013800011, ISSN: 1296-2074, eISSN: 1778-3674, Ed. Elsevier, iunie 2013

WOS:000327013800011

[2013] **Historical wooden churches from Banat region, Romania. Damages. Modern consolidation solutions**

Marius Mosoarca, Victor Gioncu, „Historical wooden churches from Banat region, Romania. Damages. Modern consolidation solutions”, Journal of Cultural Heritage, Volum: 14, Issue: 3, pp: E45-E59, Supplement: S, DOI: 10.1016/j.culher.2012.11.020, WOS: 000327013800009, ISSN: 1296-2074, eISSN: 1778-3674, Ed. Elsevier, iunie 2013

WOS:000327013800009

[2013] **Structural safety of historical buildings made of reinforced concrete, from Banat region - Romania**

Marius Mosoarca, Victor Gioncu, „Structural safety of historical buildings made of reinforced concrete, from Banat region - Romania”, Journal of Cultural Heritage, Volum: 14, Issue: 3, pp: E29-E34, Supplement: S, DOI: 10.1016/j.culher.2012.11.015, WOS: 000327013800006, ISSN: 1296-2074, eISSN: 1778-3674, Ed.Elsevier, iunie 2013

WOS:000327013800006

[2013] **Environmental impact assessment and evaluation of road construction works in forest ecosystems**

Kampouris, A, Anastasiadis Anthimos, **Marius Mosoarca** , „Environmental impact assessment and evaluation of road construction works in forest ecosystems”, Journal of

environmental protection and ecology, Volum: 14 Issue: 2 pp: 753-760, WOS: 000321796500041, ISSN: 1311-5065, IDS Number: 183EG, 2013

WOS:000321796500041

[2013] **Seismic behaviour of reinforced concrete shear walls with regular and staggered openings after the strong earthquakes between 2009 and 2011**

Mosoarca Marius, "Seismic behaviour of reinforced concrete shear walls with regular and staggered openings after the strong earthquakes between 2009 and 2011", Engineering Failure Analysis, Volume 34, pp: 537-565, ISSN 1350-6307, DOI: 10.1016/j.engfailanal.2013.05.014, Editura Elsevier, 2013

WOS:000329080800050

[2012] **Prediction of available rotation capacity and ductility of wide-flange beams: Part 1: DUCTROT-M computer program**

Victor Gioncu, **Marius Mosoarca**, Anthimos Anastasiadis, „Prediction of available rotation capacity and ductility of wide-flange beams: Part 1: DUCTROT-M computer program", Journal of Constructional Steel Research 69, Volum: 69, Issue: 1, pp: 8-19, DOI: 10.1016/j.jcsr.2011.06.014, ISSN: 0143-974X, Ed. Elsevier, 2012

WOS:000297894100002

[2012] **Prediction of available rotation capacity and ductility of wide-flange beams: Part 2: Applications**

Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, „Prediction of available rotation capacity and ductility of wide-flange beams: Part 2: Applications", Journal of Constructional Steel Research 69, pp. 176-191, doi: 10.1016/j.jcsr.2011.08.007, ISSN: 0143-974X, Ed. Elsevier, 2012

WOS:000296171200017

ARTICOLE/STUDII IN EXTENSO, PUBLICATE IN VOLUMELE UNOR CONFERINTE COTATE WEB OF SCIENCE

Preserving historic bearing structures by prudent integration in new structures

Mosoarca, M., Stoian, V., Florea, M., Niculescu, M. "Preserving historic bearing structures by prudent integration in new structures", "14th International Conference on Structural Analysis of Historical Constructions (SAHC 2021)

WOS:000856026401033

[2021] **Seismic vulnerability assessment of a Romanian historical building under near-source earthquake**

Chieffo, N., Mosoarca, M., Formisano, A., Lourenço, P. B., & Milani, G. "Seismic vulnerability assessment of a Romanian historical building under near-source earthquake." *Proceedings of the 12th International Conference on Structural Analysis of Historical Constructions SAHC, Barcelona, Spain.*, 2020.

WOS:000856026404030

- [2021] **Seismic vulnerability assessment methodology for historical buildings with cultural value**
- Onescu, E., I. Onescu, Mosoarca, M.. "Seismic vulnerability assessment methodology for historical buildings with cultural value".*Proceedings of the 12th International Conference on Structural Analysis of Historical Constructions SAHC, Barcelona, Spain.*, 2020
- WOS:000856026404027
- [2021] **Effect of historic timber roof structures on the structural behaviour of masonry buildings during seismic events**
- Mosoarca, M. Keller, A.. "Effect of historic timber roof structures on the structural behaviour of masonry buildings during seismic events".*Proceedings of the 12th International Conference on Structural Analysis of Historical Constructions SAHC, Barcelona, Spain.* 2020
- WOS:000856026403054
- [2021] **Interdisciplinary assessment, analysis and diagnosis of a historic timber roof structure from the 20th century**
- Isopescu B., Keller A., Stoian V., Mosoarca M. "Interdisciplinary assessment, analysis and diagnosis of a historic timber roof structure from the 20th century".*Proceedings of the 12th International Conference on Structural Analysis of Historical Constructions SAHC, Barcelona, Spain.*, 2020
- WOS:000856026401028
- [2021] **Modern consolidation methods for Catholic Church in baroque style from Arad fortress, Romania**
- Mosoarca, M., Ion, A."Modern consolidation methods for Catholic Church in baroque style from Arad fortress, Romania" *Proceedings of the 12th International Conference on Structural Analysis of Historical Constructions SAHC, Barcelona, Spain.*, 2020
- WOS:000856026402005
- [2020] **Seismic Analysis and Retrofitting of Civil Engineering Structures**
- Clementi Francesco, Antonio Formisano, Gabriele Milani, **Marius Mosoarca**. "Seismic Analysis and Retrofitting of Civil Engineering Structures." In *AIP Conference Proceedings*, vol. 2293, no. 1, p. 380001. AIP Publishing LLC, 2020
- WOS:000636709500003
- [2020] **Probabilistic Earthquake Scenarios of a Historical Area in the Town of Amatrice**
- Formisano, Antonio, Nicola Chieffo, **Marius Mosoarca**. "Probabilistic earthquake scenarios of a historical area in the town of Amatrice." In *AIP Conference Proceedings*, vol. 2293, no. 1, p. 240006. AIP Publishing LLC, 2020.
- WOS:000636709500012

- [2019] **Potential Results of Using Current Thermal Rehabilitation Techniques on a City Block of Timisoara and their Structural Strengthening Opportunities**
- Dragos Bocan, Alexandra Keller, Catalina Bocan, Iasmina Apostol, **Marius Mosoarca**, "Potential Results of Using Current Thermal Rehabilitation Techniques on a City Block of Timisoara and their Structural Strengthening Opportunities", IOP Conference Series: Materials Science and Engineering, ISSN: 1757-8981, Volume 471, Issue 6, 2019
- WOS:000465811802088
- [2019] **Seismic Losses Scenario for Cultural Promenade in Timisoara Capital of Culture 2021, Romania**
- Iasmina Onescu, **Marius Mosoarca**, Bianca Azap, Eugen Onescu, "Seismic Losses Scenario for Cultural Promenade in Timisoara Capital of Culture 2021, Romania", IOP Conference Series: Materials Science and Engineering, ISSN: 1757-8981, Volume 471, Issue 6, 2019
- WOS:000465811805056
- [2019] **Seismic Vulnerability Assessment and Loss Estimation of an Urban District of Timisoara**
- Nicola Chieffo, **Marius Mosoarca**, Antonio Formisano, Iasmina Apostol, "Seismic Vulnerability Assessment and Loss Estimation of an Urban District of Timisoara", IOP Conference Series: Materials Science and Engineering, ISSN: 1757-8981, Volume 471, Issue 6, 2019
- WOS:000465811805085
- [2019] **Seismic Vulnerability Assessment of Historical Group of Buildings in Timisoara City**
- Onescu Eugen; Onescu Iasmina; **Mosoarca Marius**; Ion Alexandru, Seismic Vulnerability Assessment of Historical Group of Buildings in Timisoara City", Modern Technologies for the 3rd Millennium, Pages: 259-264, 2019
- WOS:000617030100042
- [2018] **Solutions for improving seismic vulnerability of historic masonry buildings**
- Apostol Iasmina, **Mosoarca Marius**, Chieffo Nicola, Keller Alexandra, Bocan Dragos, Bocan Catalina, Bradean Rares, Solutions for improving seismic vulnerability of historic masonry buildings, Modern Technologies For The 3rd Millennium Pages: 131-136, 17th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 22-23, 2018, Oradea, ROMANIA, ISBN: 978-88-87729-49-8, Published: 2018
- WOS:000491484600023
- [2018] **Seismic Vulnerability Scenarios for Historical Areas of Timisoara**
- Azap Bianca, Apostol Iasmina, **Mosoarca Marius**, Chieffo Nicola, Formisano Antonio, Seismic Vulnerability Scenarios for Historical Areas of Timisoara, Modern Technologies For The 3rd Millennium Pages: 149-154, 17th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 22-23, 2018, Oradea, ROMANIA, ISBN: 978-88-87729-49-8, Published: 2018
- WOS:000491484600026
- [2018] **The impact of insulating plaster on the energy performance of historical buildings**
- Dragos Bocan, Alexandra Keller, Iasmina Apostol, **Marius Mosoarca**, Bradean Rares, The impact of insulating plaster on the energy performance of historical buildings, Modern

Technologies For The 3rd Millennium Pages: 179-184, 17th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 22-23, 2018, Oradea, ROMANIA, ISBN: 978-88-87729-49-8, Published: 2018

WOS:000491484600031

[2017] **Modern Consolidation Solutions for Buildings with Historical Value. Part I: Reinforced Concrete Structures**

Apostol Iasmina, **Mosoarca Marius**, Stoian Valeriu "Modern Consolidation Solutions for Buildings with Historical Value. Part I: Reinforced Concrete Structures", Modern Technologies For The 3rd Millennium Pages: 111-116, 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 23-24, 2017, Oradea, ROMANIA, ISBN: 978-88-87729-41-2, Published: 2017

WOS:000413420300019

[2017] **Modern Consolidation Solutions for Buildings with Historical Value. Part II: Masonry Structures**

Mosoarca Marius, Apostol Iasmina, Stoian Valeriu "Modern Consolidation Solutions for Buildings with Historical Value. Part II: Masonry Structures", Modern Technologies For The 3rd Millennium Pages: 209-214, 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 23-24, 2017, Oradea, ROMANIA, ISBN: 978-88-87729-41-2, Published: 2017

WOS:000413420300037

[2017] **Modern Historic Timber Structure Consolidation Technologies - A State of the Art Review**

Keller Alexandra, **Mosoarca Marius** "Modern Historic Timber Structure Consolidation Technologies - A State of the Art Review", Modern Technologies For The 3rd Millennium Pages: 179-184, 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 23-24, 2017, Oradea, ROMANIA, ISBN: 978-88-87729-41-2, Published: 2017

WOS:000413420300032

[2017] **Reinforced Concrete Elements Designed By Alternative Procedure**

Fekete-Nagy Luminita, **Mosoarca Marius**, Partene Eva, Diaconu Dan "Reinforced Concrete Elements Designed By Alternative Procedure", Modern Technologies For The 3rd Millennium Pages: 159-162, 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 23-24, 2017, Oradea, ROMANIA, ISBN: 978-88-87729-41-2, Published: 2017

WOS:000413420300028

[2017] **Effect of Consolidating Materials on the Out of Plane Behaviour of Masonry Infills. A Design Approach**

Petrus Cristian, Partene Eva, **Mosoarca Marius** "Effect of Consolidating Materials on the Out of Plane Behaviour of Masonry Infills. A Design Approach", Modern Technologies For The 3rd Millennium, Pages: 225-232, 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 23-24, 2017, Oradea, ROMANIA, ISBN: 978-88-87729-41-2, Published: 2017

WOS:000413420300040

- [2017] **Integration of Composite Structures in Modern Day Architecture: Case Study of City Business Centre, Timisoara, Romania**
- Vataman, Adina; Gaivoronschi, Vlad; **Mosoarca, Marius**, "Integration of Composite Structures in Modern Day Architecture: Case Study of City Business Centre, Timisoara, Romania", World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium (WMCAUS), IOP Conference Series-Materials Science and Engineering, Volume: 245, 2017
- WOS:000445445200031
- [2016] **Behavior of Historic Buildings in Zones with Moderate Seismic Activity. Case Study: Banat Region, Romania.**
- Narita, Alina, **Marius Mosoarca**, Claudio Modena, Francesca da Porto, Marco Munari, Sabrina Taffarel, Claudia Marson, Claudia Valotto, and Margherita Roverato, "Behavior of Historic Buildings in Zones with Moderate Seismic Activity. Case Study: Banat Region, Romania." Procedia Engineering Volume: 161, pp. 729-737, <http://dx.doi.org/10.1016/j.proeng.2016.08.754>, 2016
- WOS:000387566500115
- [2016] **Complex Assessment of Roof Structures**
- Andreescu, Ioan, Alexandra Keller, **Marius Mosoarca**. "Complex Assessment of Roof Structures." Procedia Engineering Volume 161, pp: 1204-1210, <http://dx.doi.org/10.1016/j.proeng.2016.08.542>, 2016
- WOS:000387566500185
- [2016] **Old and New—the Complex Problem of Integrating New Functions into Old Building**
- Andreescu, Ioan, Vlad Gaivoronsch, **Marius Mosoarca**. "Old and New—the Complex Problem of Integrating New Functions into Old Building." Procedia Engineering Volume: 161, pp: 1103-1108, <http://dx.doi.org/10.1016/j.proeng.2016.08.513>, 2016
- WOS:000387566500172
- [2016] **Seismic vulnerability maps of Timisoara historical center based on fragility curves**
- Taffarel Sabrina, Marson Claudia, Valotto Claudia, Roverato Margherita, Munari Marco, da Porto Francesca, Modena Claudio, **Mosoarca Marius**, "Seismic vulnerability maps of Timisoara historical center based on fragility curves". In SAHC 2016_10th International Conference on Structural Analysis of Historical Constructions. Leuven, Belgium, CRC Press, Taylor and Francis Group, 1605-1612, 2016.
- WOS:000460751500217
- [2016] **Urban valorization of a military heritage building. Case study: City Business Center, Timisoara**
- Mosoarca Marius**, Gaivoronschi Vlad, Andreescu Ioan, Stoian Valeriu "Urban valorization of a military heritage building. Case study: City Business Center, Timisoara" In SAHC 2016_10th International Conference on Structural Analysis of Historical Constructions. Leuven, Belgium, CRC Press, Taylor and Francis Group, 1627-1634, 2016
- WOS:000460751500220

[2013] **The hidden gem**

Andreescu Ioan, Gaivoronschi Vlad Alexandru, **Marius Mosoarca**, „The hidden gem”, Advances Materials Research, Vol 778, pp: 880-887, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.778.880, 2013

WOS:000336185300111

[2012] **Historical wood bearing structures. Structural deficiencies and consolidation solutions for churches located in Banat county, Romania**

Marius Mosoarca, Victor Gioncu, Voicu Fodor, „Historical wood bearing structures. Structural deficiencies and consolidation solutions for churches located in Banat county, Romania”, Structural Analysis of Historical Constructions, SAHC, vol 1-3, pp: 1231-1239, WOS:000321224300137, ISBN: 978-83-7125-216-7, IDS Number: BFT31- J. Jasienko (ed.), 2012, DWE, ISSN: 0860-2395, Wroclaw, Polonia, 2012

WOS:000321224300137

[2012] **Failure mechanism of orthodox churches situated in seismic areas in Romania**

Mosoarca Marius, Gioncu Victor, Failure mechanism of orthodox churches situated in seismic areas in Romania, Structural analysis of historical constructions, SAHC, Vol 1-3, Ed. J. Jasienko , pp: 1656-1664, ISBN: 978-83-7125-216-7, IDS Number: BFT31, ISSN: 0860-2395, Wroclaw, 2012

WOS:000321224300186

[2012] **New aspects concerning the ductility of steel members**

Anastasiadis Anthimos, **Mosoarca Marius**, Gioncu Victor, „New aspects concerning the ductility of steel members”, STESSA 2012: Proceedings of the 7th international conference on behaviour of steel structures in seismic areas, Eds.: Mazzolani, F; Herrera, R, pp: 455-461, ISBN: 978-0-415-62105-2, IDS Number: BYU49, Santiago, Chile, 2012

WOS:000300400100064

[2012] **The recovered beauty.restauration and reconversion of the roman – catholic church of Bobda, Romania**

Ioan Andreescu, **Marius Mosoarca**, “The recovered beauty.restauration and reconversion of the roman – catholic church of Bobda, Romania”, Structural Analysis of Historical Constructions, Ed. J. Jasienko, SAHC 2012, ISSN: 0860-2395, ISBN: 978-83-7125-216-7, pp. 1361-1369, Wroclaw, Polonia, 2012

WOS:000321224300153

[2012] **Innovative system for consolidation of historical few storey masonry buildings situated in seismic areas**

Marius Mosoarca, “Innovative system for consolidation of historical few storey masonry buildings situated in seismic areas”, Structural Analysis of Historical Constructions, Ed. J. Jasienko, SAHC 2012, ISSN: 0860-2395, ISBN: 978-83-7125-216-7, pp. 1647-1655, Wroclaw, Polonia, 2012

WOS:000321224300185

[2012] **Urban complex renewal of the historic city of Ciacova, Romania**

Ioan Andreescu, **Marius Mosoarca**, "Urban complex renewal of the historic city of Ciacova, Romania", Structural Analysis of Historical Constructions, SAHC 2012, Ed. J. Jasienko , ISSN: 0860-2395, ISBN: 978-83-7125-216-7, pp. 2597-2604, Wroclaw, Polonia, 2012

WOS:000321224301080

[2012] **Conservation and reuse of historical industrial buildings, Case study Fabric neighborhood, Timisoara, Romania**

Radu Radoslav, **Marius Mosoarca**, Ana-Maria Branea, M. Stelian Gaman, "Conservation and reuse of historical industrial buildings, Case study Fabric neighborhood, Timisoara, Romania", Structural Analysis of Historical Constructions, SAHC 2012, Ed. J. Jasienko, ISSN: 0860-2395, ISBN: 978-83-7125-216-7, pp. 2760-2769, Wroclaw, Polonia, 2012

[2012] **Seismic energy dissipation in structural reinforced concrete walls with staggered openings, journal of applied engineering sciences**

Mosoarca Marius, Stoian Valeriu, Seismic energy dissipation in structural reinforced concrete walls with staggered openings, Journal of Applied Engineering Sciences, Volume 2, Issue 1, pp: 71-78, 2012

[2012] **The valorisation of historical sites through architectural interventions**

Narita Alina-Maria, **Mosoarca Marius**, The valorisation of historical sites through architectural interventions, Journal of Applied Engineering Sciences, Volume 2, Issue 2, pp: 69-76, 2012

WOS:000450179600011

[2010] **Seismic environments and earthquake engineering**

Mosoarca Marius, Gioncu Victor, „Seismic environments and earthquake engineering”, Advances in environmental and geological science and engineering, International Conference on Environmental and Geological Science and Engineering-Proceedings, pp: 186-191, ISBN: 978-960-474-221-9, ISSN: 1792-4685, IDS Number: BZM15, Constanta, 2010

WOS:000302000200035

[2009] **Reconversion of a damaged industrial building using FRP**

Mosoarca Marius, Gioncu Victor, „Reconversion of a damaged industrial building using FRP”, Protection of historical buildings - PROHITECH 09, vol. 1 si 2, Ed.: Mazzolani, FM, pp: 605-610, ISBN: 978-0-415-55803-7, IDS Number: BQB06, Roma, 2009

WOS:000280544200092

[2009] **Ultimate limit state of masonry historical buildings using collapse mechanism methodology: Application for Orthodox churches, Protection of historical buildings**

Gioncu Victor, **Mosoarca Marius**, „Ultimate limit state of masonry historical buildings using collapse mechanism methodology: Application for Orthodox churches, Protection of historical buildings - PROHITECH 09, vol. 1 si 2, Ed.: Mazzolani, FM, pp: 1153-1158, ISBN: 978-0-415-55803-7, IDS Number: BQB06, Roma, 2009

WOS:000280544200178

[2009] **Strengthening of building by modification of structural system**

Mosoarca Marius, Gioncu Victor, "Strengthening of building by modification of structural system", pg. 1287-1292, Protection of historical buildings - PROHITECH 09, pp: 1287-1292, ISBN: 978-0-415-55803-7, IDS Number: BQB06, Roma, 2009

WOS:000280544200199

[2009] **Strengthening of a historical apartment building by the insertion of steel seismic-resistant**

Mosoarca Marius, Gioncu Victor, Niculescu Marius "Strengthening of a historical apartment building by the insertion of steel seismic-resistant", Protection of historical buildings - PROHITECH 09, Ed: Mazzolani, FM, pp: 1335-1340, ISBN: 978-0-415-55803-7, IDS Number: BQB06, Roma, 2009

WOS:000280544200206

[2009] **Proposal for increasing the ductility of steel structures**

Victor Gioncu, **Mosoarca Marius**, Anastasiadis Anthimos, "Proposal for increasing the ductility of steel structures", pp.679-684, Behaviour of steel structures in seismic areas, STESSA august 2009, ISBN-13:978-0-415-56326-0; CRC Press, Taylor & Francis Group, Ed.: Mazzolani, FM; Ricles, JM; Sause, R, pp: 679-684, ISBN: 978-0-415-56326-0, IDS Number: BUU26, Philadelphia, USA, 2009

WOS: 000290361200098

[2006] **Behaviour of steel MRFs subjected to near-fault ground motions**

Janos Gergely, Victor Gioncu , **Marius Mosoarca**, "Behaviour of steel MRFs subjected to near-fault ground motions", STESSA: Behaviour of Steel Structures in Seismic Areas, pp. 129-136, Ed. F. M. Mazzolani, A. Wada,, Ed. Taylor&Francis Group, ISBN: 0-415-40824-5, Yokohama, Japonia, 2006

WOS: 000242847900018

[2003] **Optimal design of steel structures for multi-level criteria**

Truta M., **Mosoarca M.**, Gioncu V., Anastasiadis A., „Optimal design of steel structures for multi-level criteria", STESSA: Behaviour of Steel Structures in Seismic Areas, pp. 63-69, Ed. Taylor&Francis Group, ISBN:90-5809-577-0, Naples, Italy, 2003

WOS:000183623700009

PUBLICAȚII

[2013] **Historical wooden churches from Banat region, Romania. Damages. Modern consolidation solutions**

Referință: Articole in reviste indexate web of science

Marius Mosoarca, Victor Gioncu, „Historical wooden churches from Banat region, Romania. Damages. Modern consolidation solutions", Journal of Cultural Heritage, Volum: 14, Issue: 3, pp: E45-E59, Supplement: S, DOI: 10.1016/j.culher.2012.11.020, WOS: 000327013800009, ISSN: 1296-2074, eISSN: 1778-3674, Ed. Elsevier, iunie 2013

[2013] **Structural safety of historical buildings made of reinforced concrete, from Banat region - Romania**

Referință: Articole in reviste indexate web of science

Marius Mosoarca, Victor Gioncu, „Structural safety of historical buildings made of reinforced concrete, from Banat region - Romania”, Journal of Cultural Heritage, Volum: 14, Issue: 3, pp: E29-E34, Supplement: S, DOI: 10.1016/j.culher.2012.11.015, WOS: 000327013800006, ISSN: 1296-2074, eISSN: 1778-3674, Ed.Elsevier, iunie 2013

[2013] **Environmental impact assessment and evaluation of road construction works in forest ecosystems**

Referință: Articol în revistă indexată web of science

Kampouris, A, Anastasiadis Anthimos, **Marius Mosoarca** , „Environmental impact assessment and evaluation of road construction works in forest ecosystems”, Journal of environmental protection and ecology, Volum: 14 Issue: 2 pp: 753-760, WOS: 000321796500041, ISSN: 1311-5065, IDS Number: 183EG, 2013

[2012] **Prediction of available rotation capacity and ductility of wide-flange beams: Part 1:DUCTROT-M computer program**

Referință: Articol în revistă indexată web of science

Victor Gioncu, **Marius Mosoarca**, Anthimos Anastasiadis, „Prediction of available rotation capacity and ductility of wide-flange beams: Part 1:DUCTROT-M computer program”, Journal of Constructional Steel Research 69, Volum: 69, Issue: 1, pp: 8-19, DOI: 10.1016/j.jcsr.2011.06.014, WOS:000297894100002, ISSN: 0143-974X, Ed. Elsevier, 2012

[2012] **Prediction of available rotation capacity and ductility of wide-flange beams: Part 2: Applications**

Referință: Articol în revistă indexată web of science

Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, „Prediction of available rotation capacity and ductility of wide-flange beams: Part 2: Applications”, Journal of Constructional Steel Research 69, pp. 176-191, doi: 10.1016/j.jcsr.2011.08.007, ISSN: 0143-974X, Ed. Elsevier, 2012

[2013] **Seismic behaviour of reinforced concrete shear walls with regular and staggered openings after the strong earthquakes between 2009 and 2011**

Referință: Articol în revistă indexată web of science

Mosoarca Marius, “Seismic behaviour of reinforced concrete shear walls with regular and staggered openings after the strong earthquakes between 2009 and 2011”, Engineering Failure Analysis, Volume 34, pp: 537-565, ISSN 1350-6307, DOI: 10.1016/j.engfailanal.2013.05.014, Editura Elsevier, 2013

[2014] **Failure analysis of RC shear walls with staggered openings under seismic loads**

Referință: Articol în revistă indexată web of science

Marius Mosoarca, “Failure analysis of RC shear walls with staggered openings under seismic loads”, Engineering Failure Analysis [Volume 41](#), pp: 48-64, DOI: 10.1016/j.engfailanal.2013.07.037, Ed. Elsevier, 2014

[2014] **Local ductility of steel elements under near-field earthquake loading**

Referință: Articol în revistă indexată web of science

Victor Gioncu, **Marius Mosoarca**, Anastasiadis Anthimos, “Local ductility of steel elements under near-field earthquake loading”, Journal of Constructional Steel Research, [Vol. 101](#), pp 33-52, [DOI: 10.1016/j.jcsr.2014.05.001001](#), ISSN: 0143-974X, Ed. Elsevier, 2014

[2014] **Are free form architectures ecological buildings?**

Referință: Articole in reviste indexate web of science

Marius Mosoarca, Anthimos Anastasiadis, Kampouris Apostolos "Are free form architectures ecological buildings?", Journal of environmental protection and ecology, vol. 15, no.1 pp. 359-366, ISSN 1311-5065, 2014

[2014] **Investigation of the cyclic inelastic capacity of steel beams through the use of the plastic collapse mechanism**

Referință: Articole in reviste indexate web of science

Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, "Investigation of the cyclic inelastic capacity of steel beams through the use of the plastic collapse mechanism", Bulletin of Earthquake Engineering, DOI 10.1007/s10518-014-9665-2, Print ISSN 1570-761X, Ed. Springer, 2014

[2017] **Resilience of historic cities and adaptation to climate change**

Referință: Articole in reviste indexate web of science

Keller Alexandra, Nicola Chieffo, Edmond Opritescu, **Marius Mosoarca**, Antonio Formisano. "Resilience of historic cities and adaptation to climate change", Urbanism. Arhitectura. Constructil, Volume: 8, Issue: 1, Pages: 15-26, ISSN: 2069-0509, eISSN: 2069-6469, 2017

[2017] **Failure analysis of historical buildings due to climate change**

Referință: Articole in reviste indexate web of science

Mosoarca Marius, Keller Alexandra, Petrus Cristian, Racolta Andrei "Failure analysis of historical buildings due to climate change". Engineering Failure Analysis, Volume: 82, pp. 666-680, <https://doi.org/10.1016/j.engfailanal.2017.06.013>, 2017

[2018] **A complex assessment methodology and procedure for historic roof structures**

Referință: Articole in reviste indexate web of science

Mosoarca Marius, Keller Alexandra "A complex assessment methodology and procedure for historic roof structures". International Journal of Architectural Heritage, Volume: 12, Issue: 4, pp. 578-98, 2018

[2019] **Seismic vulnerability assessment for the historical areas of the Timisoara city, Romania**

Referință: Articole in reviste indexate web of science

Mosoarca, Marius, Iasmina Onescu, Eugen Onescu, Bianca Azap, Nicola Chieffo, and Mirela Szitar-Sirbu, „Seismic vulnerability assessment for the historical areas of the Timisoara city, Romania”, Engineering Failure Analysis, Volume: 101, pp. 86-112, 2019

[2019] **Failure analysis of church towers and roof structures due to high wind velocities**

Referință: Articole in reviste indexate web of science

Mosoarca, Marius; Keller, Alexandra Iasmina; Bocan, Catalina, „Failure analysis of church towers and roof structures due to high wind velocities”, Engineering Failure Analysis, Volume: 100, pp. 76-87, 2019

- [2020] **Seismic vulnerability assessment methodology for historic masonry buildings in the near-field areas**

Referință: Articole in reviste indexate web of science

Mosoarca, Marius; Onescu, Iasmina; Onescu, Eugen; Anastasiadis, Anthimos, "Seismic vulnerability assessment methodology for historic masonry buildings in the near-field areas", Engineering Failure Analysis, Volume: 115, pp. 86-113, 2020

- [2003] **Optimal design of steel structures for multi-level criteria**

Referință: Articole la conferinte indexate web of science

Truta M., **Mosoarca M.**, Gioncu V., Anastasiadis A., „Optimal design of steel structures for multi-level criteria”, STESSA: Behaviour of Steel Structures in Seismic Areas, pp. 63-69, Ed. Taylor&Francis Group, WOS:000183623700009, ISBN:90-5809-577-0, Naples, Italy, 2003

- [2006] **Behaviour of steel MRFs subjected to near-fault ground motions**

Referință: Articole la conferinte indexate web of science

Janos Gergely, Victor Gioncu , **Marius Mosoarca**, "Behaviour of steel MRFs subjected to near-fault ground motions", STESSA: Behaviour of Steel Structures in Seismic Areas, pp. 129-136, Ed. F. M. Mazzolani, A. Wada,, Ed. Taylor&Francis Group, ISBN: 0-415-40824-5, WOS: 000242847900018, Yokohama, Japonia, 2006

- [2012] **Historical wood bearing structures. Structural deficiencies and consolidation solutions for churches located in Banat county, Romania**

Referință: Articole la conferinte indexate web of science

Marius Mosoarca, Victor Gioncu, Voicu Fodor, „Historical wood bearing structures. Structural deficiencies and consolidation solutions for churches located in Banat county, Romania”, Structural Analysis of Historical Constructions, SAHC, vol 1-3, pp: 1231-1239, WOS:000321224300137, ISBN: 978-83-7125-216-7, IDS Number: BFT31- J. Jasienko (ed.), 2012, DWE, ISSN: 0860-2395, Wroclaw, Polonia, 2012

- [2012] **Failure mechanism of orthodox churches situated in seismic areas in Romania**

Referință: Articole la conferinte indexate web of science

Mosoarca Marius, Gioncu Victor, Failure mechanism of orthodox churches situated in seismic areas in Romania, Structural analysis of historical constructions, SAHC, Vol 1-3, Ed. J. Jasienko , pp: 1656-1664, WOS:000321224300186, ISBN: 978-83-7125-216-7, IDS Number: BFT31, ISSN: 0860-2395, Wroclaw, 2012

- [2012] **New aspects concerning the ductility of steel members**

Referință: Articole la conferinte indexate web of science

Anastasiadis Anthimos, **Mosoarca Marius**, Gioncu Victor, „New aspects concerning the ductility of steel members”, STESSA 2012: Proceedings of the 7th international conference on behaviour of steel structures in seismic areas, Eds.: Mazzolani, F; Herrera, R, pp: 455-461, WOS:000300400100064, ISBN: 978-0-415-62105-2, IDS Number: BYU49, Santiago, Chile, 2012

- [2010] **Seismic environments and earthquake engineering**

Referință: Articole la conferinte indexate web of science

Mosoarca Marius, Gioncu Victor, „Seismic environments and earthquake engineering”, Advances in environmental and geological science and engineering, International

[2009] **Reconversion of a damaged industrial building using FRP**

Referință: Articole la conferinte indexate web of science

Mosoarca Marius, Gioncu Victor, „Reconversion of a damaged industrial building using FRP”, Protection of historical buildings - PROHITECH 09, vol. 1 si 2, Ed.: Mazzolani, FM, pp: 605-610, WOS:000280544200092, ISBN: 978-0-415-55803-7, IDS Number: BQB06, Roma, 2009

[2009] **Ultimate limit state of masonry historical buildings using collapse mechanism methodology: Application for Orthodox churches, Protection of historical buildings**

Referință: Articole la conferinte indexate web of science

Gioncu Victor, **Mosoarca Marius**, „Ultimate limit state of masonry historical buildings using collapse mechanism methodology: Application for Orthodox churches, Protection of historical buildings - PROHITECH 09, vol. 1 si 2, Ed.: Mazzolani, FM, pp: 1153-1158, WOS: 000280544200178, ISBN: 978-0-415-55803-7, IDS Number: BQB06, Roma, 2009

[2009] **Strengthening of building by modification of structural system**

Referință: Articole la conferinte indexate web of science

Mosoarca Marius, Gioncu Victor, “Strengthening of building by modification of structural system”, pg. 1287-1292, Protection of historical buildings - PROHITECH 09, pp: 1287-1292, WOS:000280544200199, ISBN: 978-0-415-55803-7, IDS Number: BQB06, Roma, 2009

[2009] **Strengthening of a historical apartment building by the insertion of steel seismic-resistant**

Referință: Articole la conferinte indexate web of science

Mosoarca Marius, Gioncu Victor, Niculescu Marius “Strengthening of a historical apartment building by the insertion of steel seismic-resistant”, Protection of historical buildings - PROHITECH 09, Ed: Mazzolani, FM, pp: 1335-1340, WOS:000280544200206, ISBN: 978-0-415-55803-7, IDS Number: BQB06, Roma, 2009

[2009] **Proposal for increasing the ductility of steel structures**

Referință: Articole la conferinte indexate web of science

Victor Gioncu, **Mosoarca Marius**, Anastasiadis Anthimos, “Proposal for increasing the ductility of steel structures”, pp.679-684, Behaviour of steel structures in seismic areas, STESSA august 2009, ISBN-13:978-0-415-56326-0; CRC Press, Taylor & Francis Group, Ed.: Mazzolani, FM; Ricles, JM; Sause, R, pp: 679-684, WOS: 000290361200098, ISBN: 978-0-415-56326-0, IDS Number: BUU26, Philadelphia, USA, 2009

[2012] **The recovered beauty.restauration and reconversion of the roman – catholic church of Bobda, Romania**

Referință: Articole la conferinte indexate web of science

Ioan Andreescu, **Marius Mosoarca**, “The recovered beauty.restauration and reconversion of the roman – catholic church of Bobda, Romania”, Structural Analysis of Historical Constructions, Ed. J. Jasienko, SAHC 2012, ISSN: 0860-2395, ISBN: 978-83-7125-216-7, pp. 1361-1369, Wroclaw, Polonia, 2012

[2012] **Innovative system for consolidation of historical few storey masonry buildings situated in seismic areas**

Referință: Articole la conferinte indexate web of science

Marius Mosoarca, "Innovative system for consolidation of historical few storey masonry buildings situated in seismic areas", Structural Analysis of Historical Constructions, Ed. J. Jasienko, SAHC 2012, ISSN: 0860-2395, ISBN: 978-83-7125-216-7, pp. 1647-1655, Wroclaw, Polonia, 2012

[2012] **Urban complex renewal of the historic city of Ciacova, Romania**

Referință: Articole la conferinte indexate web of science

Ioan Andreescu, **Marius Mosoarca**, "Urban complex renewal of the historic city of Ciacova, Romania", Structural Analysis of Historical Constructions, SAHC 2012, Ed. J. Jasienko, ISSN: 0860-2395, ISBN: 978-83-7125-216-7, pp. 2597-2604, Wroclaw, Polonia, 2012

[2012] **Conservation and reuse of historical industrial buildings, Case study Fabric neighborhood, Timisoara, Romania**

Referință: Articole la conferinte indexate web of science

Radu Radoslav, **Marius Mosoarca**, Ana-Maria Branea, M. Stelian Gaman, "Conservation and reuse of historical industrial buildings, Case study Fabric neighborhood, Timisoara, Romania", Structural Analysis of Historical Constructions, SAHC 2012, Ed. J. Jasienko, ISSN: 0860-2395, ISBN: 978-83-7125-216-7, pp. 2760-2769, Wroclaw, Polonia, 2012

[2012] **Seismic energy dissipation in structural reinforced concrete walls with staggered openings, journal of applied engineering sciences**

Referință: Articole la conferinte indexate web of science

Mosoarca Marius, Stoian Valeriu, [SEISMIC ENERGY DISSIPATION IN STRUCTURAL REINFORCED CONCRETE WALLS WITH STAGGERED OPENINGS](#), JOURNAL OF APPLIED ENGINEERING SCIENCES, Volume 2, Issue 1, pp: 71-78, 2012

[2012] **The valorisation of historical sites through architectural interventions**

Referință: Articole la conferinte indexate web of science

Narita Alina-Maria, **Mosoarca Marius**, [THE VALORISATION OF HISTORICAL SITES THROUGH ARCHITECTURAL INTERVENTIONS](#), JOURNAL OF APPLIED ENGINEERING SCIENCES, Volume 2, Issue 2, pp: 69-76, 2012

[2013] **The hidden gem**

Referință: Articole la conferinte indexate web of science

Andreescu Ioan, Gaivoronschi Vlad Alexandru, **Marius Mosoarca**, „The hidden gem”, Advances Materials Research, Vol 778, pp: 880-887, Trans Tech Publications, Switzerland, doi:10.4028/www.scientific.net/AMR.778.880, 2013

[2016] **Behavior of Historic Buildings in Zones with Moderate Seismic Activity. Case Study: Banat Region, Romania.**

Referință: Articole la conferinte indexate web of science

Narita, Alina, **Marius Mosoarca**, Claudio Modena, Francesca da Porto, Marco Munari, Sabrina Taffarel, Claudia Marson, Claudia Valotto, and Margherita Roverato, "Behavior of Historic Buildings in Zones with Moderate Seismic Activity. Case Study: Banat Region,

[2016] **Complex Assessment of Roof Structures**

Referință: Articole la conferinte indexate web of science

Andreescu, Ioan, Alexandra Keller, **Marius Mosoarca**. "Complex Assessment of Roof Structures." Procedia Engineering Volume 161, pp: 1204-1210, <http://dx.doi.org/10.1016/j.proeng.2016.08.542>, 2016

[2016] **Old and New—the Complex Problem of Integrating New Functions into Old Building**

Referință: Articole la conferinte indexate web of science

Andreescu, Ioan, Vlad Gaivoronschi, **Marius Mosoarca**. "Old and New—the Complex Problem of Integrating New Functions into Old Building." Procedia Engineering Volume: 161, pp: 1103-1108, <http://dx.doi.org/10.1016/j.proeng.2016.08.513>, 2016

[2016] **Seismic vulnerability maps of Timisoara historical center based on fragility curves**

Referință: Articole la conferinte indexate web of science

Taffarel Sabrina, Marson Claudia, Valotto Claudia, Roverato Margherita, Munari Marco, da Porto Francesca, Modena Claudio, **Mosoarca Marius**, "Seismic vulnerability maps of Timisoara historical center based on fragility curves". In SAHC 2016_10th International Conference on Structural Analysis of Historical Constructions. Leuven, Belgium, CRC Press, Taylor and Francis Group, 1605-1612, 2016.

[2016] **Urban valorization of a military heritage building. Case study: City Business Center, Timisoara**

Referință: Articole la conferinte indexate web of science

Mosoarca Marius, Gaivoronschi Vlad, Andreescu Ioan, Stoian Valeriu "Urban valorization of a military heritage building. Case study: City Business Center, Timisoara" In SAHC 2016_10th International Conference on Structural Analysis of Historical Constructions. Leuven, Belgium, CRC Press, Taylor and Francis Group, 1627-1634, 2016

[2017] **Modern Consolidation Solutions for Buildings with Historical Value. Part I: Reinforced Concrete Structures**

Referință: Articole la conferinte indexate web of science

Apostol Iasmina, **Mosoarca Marius**, Stoian Valeriu "Modern Consolidation Solutions for Buildings with Historical Value. Part I: Reinforced Concrete Structures", Modern Technologies For The 3rd Millennium Pages: 111-116, 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 23-24, 2017, Oradea, ROMANIA, ISBN: 978-88-87729-41-2, Published: 2017

[2017] **Modern Consolidation Solutions for Buildings with Historical Value. Part II: Masonry Structures**

Referință: Articole la conferinte indexate web of science

Mosoarca Marius, Apostol Iasmina, Stoian Valeriu "Modern Consolidation Solutions for Buildings with Historical Value. Part II: Masonry Structures", Modern Technologies For The 3rd Millennium Pages: 209-214, 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 23-24, 2017, Oradea, ROMANIA, ISBN: 978-88-87729-41-2, Published: 2017

- [2017] **Modern Historic Timber Structure Consolidation Technologies - A State of the Art Review**
- Referință:** Articole la conferinte indexate web of science
- Keller Alexandra, **Mosoarca Marius** "Modern Historic Timber Structure Consolidation Technologies - A State of the Art Review", Modern Technologies For The 3rd Millennium Pages: 179-184, 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 23-24, 2017, Oradea, ROMANIA, ISBN: 978-88-87729-41-2, Published: 2017
- [2017] **Reinforced Concrete Elements Designed By Alternative Procedure**
- Referință:** Articole la conferinte indexate web of science
- Fekete-Nagy Luminita, **Mosoarca Marius**, Partene Eva, Diaconu Dan "Reinforced Concrete Elements Designed By Alternative Procedure", Modern Technologies For The 3rd Millennium Pages: 159-162, 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 23-24, 2017, Oradea, ROMANIA, ISBN: 978-88-87729-41-2, Published: 2017
- [2017] **Effect of Consolidating Materials on the Out of Plane Behaviour of Masonry Infills. A Design Approach**
- Referință:** Articole la conferinte indexate web of science
- Petrus Cristian, Partene Eva, **Mosoarca Marius** "Effect of Consolidating Materials on the Out of Plane Behaviour of Masonry Infills. A Design Approach", Modern Technologies For The 3rd Millennium, Pages: 225-232, 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 23-24, 2017, Oradea, ROMANIA, ISBN: 978-88-87729-41-2, Published: 2017
- [2017] **Integration of Composite Structures in Modern Day Architecture: Case Study of City Business Centre, Timisoara, Romania**
- Referință:** Articole la conferinte indexate web of science
- Vataman, Adina; Gaivoronschi, Vlad; **Mosoarca, Marius**, "Integration of Composite Structures in Modern Day Architecture: Case Study of City Business Centre, Timisoara, Romania", World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium (WMCAUS), IOP Conference Series-Materials Science and Engineering, Volume: 245, 2017
- [2018] **Solutions for improving seismic vulnerability of historic masonry buildings**
- Referință:** Articole la conferinte indexate web of science
- Apostol Iasmina, **Mosoarca Marius**, Chieffo Nicola, Keller Alexandra, Bocan Dragos, Bocan Catalina, Bradean Rares, Solutions for improving seismic vulnerability of historic masonry buildings, Modern Technologies For The 3rd Millennium Pages: 131-136, 17th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 22-23, 2018, Oradea, ROMANIA, ISBN: 978-88-87729-49-8, Published: 2018
- [2018] **Seismic Vulnerability Scenarios for Historical Areas of Timisoara**
- Referință:** Articole la conferinte indexate web of science

Azap Bianca, Apostol Iasmina, **Mosoarca Marius**, Chieffo Nicola, Formisano Antonio, Seismic Vulnerability Scenarios for Historical Areas of Timisoara, Modern Technologies For The 3rd Millennium Pages: 149-154, 17th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 22-23, 2018, Oradea, ROMANIA, ISBN: 978-88-87729-49-8, Published: 2018

[2018] **The impact of insulating plaster on the energy performance of historical buildings**

Referință: Articole la conferinte indexate web of science

Dragos Bocan, Alexandra Keller, Iasmina Apostol, **Marius Mosoarca**, Bradean Rares, The impact of insulating plaster on the energy performance of historical buildings, Modern Technologies For The 3rd Millennium Pages: 179-184, 17th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, MARCH 22-23, 2018, Oradea, ROMANIA, ISBN: 978-88-87729-49-8, Published: 2018

[2019] **Potential Results of Using Current Thermal Rehabilitation Techniques on a City Block of Timisoara and their Structural Strengthening Opportunities**

Referință: Articole la conferinte indexate web of science

Dragos Bocan, Alexandra Keller, Catalina Bocan, Iasmina Apostol, **Marius Mosoarca**, "Potential Results of Using Current Thermal Rehabilitation Techniques on a City Block of Timisoara and their Structural Strengthening Opportunities", IOP Conference Series: Materials Science and Engineering, ISSN: 1757-8981, Volume 471, Issue 6, 2019

[2019] **Seismic Losses Scenario for Cultural Promenade in Timisoara Capital of Culture 2021, Romania**

Referință: Articole la conferinte indexate web of science

Iasmina Onescu, **Marius Mosoarca**, Bianca Azap, Eugen Onescu, "Seismic Losses Scenario for Cultural Promenade in Timisoara Capital of Culture 2021, Romania", IOP Conference Series: Materials Science and Engineering, ISSN: 1757-8981, Volume 471, Issue 6, 2019

[2019] **Seismic Vulnerability Assessment and Loss Estimation of an Urban District of Timisoara**

Referință: Articole la conferinte indexate web of science

Nicola Chieffo, **Marius Mosoarca**, Antonio Formisano, Iasmina Apostol, "Seismic Vulnerability Assessment and Loss Estimation of an Urban District of Timisoara", IOP Conference Series: Materials Science and Engineering, ISSN: 1757-8981, Volume 471, Issue 6, 2019

[2019] **Seismic Vulnerability Assessment of Historical Group of Buildings in Timisoara City**

Referință: Articole la conferinte indexate web of science

Onescu Eugen.; Onescu Iasmina; Mosoarca Marius.; Ion Alexandru, Seismic Vulnerability Assessment of Historical Group of Buildings in Timisoara City", Modern Technologies for the 3rd Millennium, Pages: 259-264, 2019

[2010] **Seismic management and damage prevention of religious buildings situated in seismic areas**

Referință: Articole indexate BDI (Scopus)

Mosoarca Marius, Gioncu, V., „Seismic management and damage prevention of religious buildings situated in seismic areas”, Proceedings of the International Conference on Risk Management, Assessment and Mitigation, RIMA '10, pp. 33-38, Bucuresti, 2010

[2010] **Assessment and mitigation procedures for historical buildings situated in seismic areas**

Referință: Articole indexate BDI (Scopus)

Mosoarca Marius, Gioncu, V., „Assessment and mitigation procedures for historical buildings situated in seismic areas”, Proceedings of the International Conference on Risk Management, Assessment and Mitigation, RIMA '10, pp. 27-32; Bucuresti, 2010

[2010] **Vulnerability Assessment of R/C Buildings for Earthquake Insurance Purposes**

Referință: Articole indexate BDI (Scopus)

Anthimos Anastasiadis, **Mosoarca Marius**, "Vulnerability Assessment of R/C Buildings for Earthquake Insurance Purposes", pp: 126-132, Proceedings of the International Conference RIMA 10, ISBN: 978-960-474-182-3; ISSN: 1790-2769 – Bucuresti, 2010

[2016] **New vulnerabilities of historic urban centers and archaeological sites: Extreme loads**

Referință: Articole indexate BDI (Scopus)

Narița, Alina-Maria, Vlad Gurza, Răzvan Oprița, Alexandra Keller, Iasmina Apostol, **Marius Moșoarcă**, and Cătălina Bocan. "New vulnerabilities of historic urban centers and archaeological sites: Extreme loads." Pollack Periodica 11, no. 3 (2016): 15-26

[2016] **New factors for the seismic vulnerability assessment of reinforced concrete buildings**

Referință: Articole indexate BDI (Scopus)

Mosoarca Marius, Anastasiadis Anthimon, Formisano Antonio. "New factors for the seismic vulnerability assessment of reinforced concrete buildings" International journal of sustainable materials and structural systems, Volume: 2, Issue: 3-4, Pages: 222-232, ISSN: 2043-8621, eISSN: 2043-863X, 2016;

[2019] **Structural Balance of Historical Aggregates**

Referință: Articole indexate BDI (Scopus)

Mosoarca Marius, Valeriu Stoian, Margareta Florea, Marius Niculescu. "Structural Balance of Historical Aggregates". In Structural Analysis of Historical Constructions, Springer, Cham, 2448-2456, 2019

[2019] **Seismic vulnerability scenarios for Timisoara, Romania**

Referință: Articole indexate BDI (Scopus)

Apostol Iasmina, **Marius Mosoarca**, Nicola Chieffo, Eugen Onescu "Seismic vulnerability scenarios for Timisoara, Romania". In Structural Analysis of Historical Constructions, Springer, Cham, 1191-1200, 2019

[2019] **Structural Analysis and Damage Assessment of a Historical Masonry Palace–A Case Study**

Referință: Articole indexate BDI (Scopus)

Partene Eva, **Marius Mosoarca**, Valeriu Stoian. "Structural Analysis and Damage Assessment of a Historical Masonry Palace–A Case Study." In Structural Analysis of Historical Constructions, Springer, Cham, 1117-1124, 2019

[2019] **Reshaping the Villa–Complex Intervention in a 1930's Structure.**

Referință: Articole indexate BDI (Scopus)

Andreescu, Ioan, **Marius Moșoarcă**, Dan-Răzvan Dinu. "Reshaping the Villa–Complex Intervention in a 1930's Structure." In Structural Analysis of Historical Constructions, Springer, Cham, 2314-2322, 2019

[2019] **The impact of the cultural value on the seismic vulnerability of a historical building**

Referință: Articole indexate BDI (Scopus)

Onescu Iasmina, Onescu Eugen, **Mosoarca Marius**. "The impact of the cultural value on the seismic vulnerability of a historical building", 4th World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium (WMCAUS), IOP Conference Series: Materials Science and Engineering, Volume:603, Issue 4, 2019

[2019] **The Impact of Timber Roof Framework over Historical Masonry Structures**

Referință: Articole indexate BDI (Scopus)

Onescu Iasmina, Onescu Eugen, **Mosoarca Marius**. "The Impact of Timber Roof Framework over Historical Masonry Structures", 4th World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium (WMCAUS), IOP Conference Series: Materials Science and Engineering, Volume:603, Issue 4, 2019

[2006] **Consolidarea peretilor din beton armat cu materiale composite**

Referință: Articole in reviste de specialitate din Romania

Nagy-Gyorgy T., **Mosoarca Marius**, Stoian V., Dan D., "Consolidarea peretilor din beton armat cu materiale composite", Simpozion AICPS, Bucuresti 2005, Buletin AICPS 3/2006

[2007] **Pereti din beton armat si capete de grinzi consolidate cu materiale composite-rezultatele incercarilor**

Referință: Articole in reviste de specialitate din Romania

Nagy-Gyorgy T., Stoian V., Diaconu D., Daescu C., Dan D., Sas G., **Mosoarca Marius**, "Pereti din beton armat si capete de grinzi consolidate cu materiale composite-rezultatele incercarilor", Buletin AICPS, nr.1/2007

[2008] **City Business Centre Timisoara**

Referință: Articole in reviste de specialitate din Romania

Gioncu Victor, **Mosoarca Marius**, Brateanu Alina "City Business Centre Timisoara" Premiul III, Buletin AICPS, nr.1-2/2008, pp.1-6, ISSN:1454-928x, Bucuresti, Romania, 2008

[2012] **Ductility aspects of steel beams**

Referință: Articole in reviste de specialitate din Romania

Marius Mosoarca, Victor Gioncu, "Ductility aspects of steel beams", Acta Technica Napocensis: Civil Engineering&Architecture, U.T. Cluj-Napoca, vol.55, nr.1, 2012

[2015] **Reinforced Concrete Frames with Masonry Infills. Out of Plane Experimental Investigation**

Referință: Articole in reviste de specialitate din Romania

Cristian Petrus, Valeriu Stoian, **Marius Mosoarca**, Anthimos Anastasiadis, "Reinforced Concrete Frames with Masonry Infills. Out of Plane Experimental Investigation", Acta Technica Napocensis: Civil Engineering & Architecture, Vol. 58, No. 3, 2015

[2001] **Analiza seismica a cladirilor monument istoric cu ajutorul M.E.F.**

Referință: Articole in reviste de specialitate din Romania

Mosoarca Marius, Truta Mihnea, Gioncu Victor "Analiza seismica a cladirilor monument istoric cu ajutorul M.E.F." pp. 177-182, Editura "Academica Brincusi", Sectia 1, ISBN 973-85342-1-6, 2001

[2001] **Metodologia de proiectare antiseismica bazata pe nivele multiple**

Truta Mihnea, **Mosoarca Marius**, Gioncu Victor "Metodologia de proiectare antiseismica bazata pe nivele multiple" pp. 183-188, Editura "Academica Brincusi", Sectia 1, ISBN 973-85342-1-6, 2001

[2001] **Influenta golurilor asupra comportarii sesmice a peretilor structurali din beton armat**

Referință: Articole in reviste de specialitate din Romania

Mosoarca Marius, Truta Mihnea, Gioncu Victor "Influenta golurilor asupra comportarii sesmice a peretilor structurali din beton armat" pp. 195-200, Ed. "Academica Brincusi", Sectia 1, ISBN 973-85342-1-6, 2001

[2002] **Nonlinear Analysis of Seismic Behavior of R.C. Shear Walls with Straggered Openings**

Referință: Articole in reviste de specialitate din Romania

Mosoarca Marius, Stoian Valeriu, Truta Mihnea, "Nonlinear Analysis of Seismic Behavior of R.C. Shear Walls with Straggered Openings", pp.120-126, Ovidius University Annals of Constructions, Vol. 1, Number 3, ISSN:12223-7221, 2002

[2002] **Seismic Behavior of Steel Structures for serviceability Limit State**

Referință: Articole in reviste de specialitate din Romania

Truta Mihnea, **Mosoarca Marius**, Victor Gioncu, "Seismic Behavior of Steel Structures for serviceability Limit State" pp. 177-182, Ovidius University Annals of Constructions, Vol. 1, Nr 3, ISSN12223-7221, Constanta, 2002

[2012] **Seismic energy dissipation in structural reinforced concrete walls with staggered openings**

Referință: Articole in reviste de specialitate din Romania

Mosoarca Marius, Valeriu Stoian, "Seismic energy dissipation in structural reinforced concrete walls with staggered openings", Journal of applied engineering sciences (JAES), Vol.2(15) Issue 1/2012, pp. 65-72, revista de categoria B+, indexat BDI – Copernicus, mai, 2012

[2012] **The valorisation of historical sites through architectural interventions**

Referință: Articole in reviste de specialitate din Romania

Narita Alina-Maria, **Mosoarca Marius**, "The valorisation of historical sites through architectural interventions", Journal of applied engineering sciences, Vol. 2(15), issue 2, ISSN 2247- 3769 ISSN-L 2247- 3769 (Print) / e-ISSN: 2284-7197, pp. 69-76, Oradea, 2012

[2012] **Bisericile de lemn monument istoric din Banat. Degradari structurale. Solutii de consolidare**

Referință: Articole in reviste de specialitate din Romania

Marius Mosoarca, Victor Gioncu, "Bisericile de lemn monument istoric din Banat. Degradari structurale. Solutii de consolidare", revista "Transsylvania Nostra", nr.4, ISSN 1842-5631, Cluj-Napoca, vol.55, nr.1, 2012

[2018] **Seismic vulnerability assessment for historical building as isolate/ in aggregate for Timisoara city, Romania**

Referință: Articole in reviste de specialitate din Romania

Iasmina Apostol, **Marius Mosoarca**, Eugen Onescu, "Seismic vulnerability assessment for historical building as isolate/ in aggregate for Timisoara city, Romania", Journal of Architecture, Urbanism and Heritage, vol. 2, pp. 55-62, 2018

[2018] **Assessment methodology for historic timber roof structures**

Referință: Articole in reviste de specialitate din Romania

Alexandra Keller, **Marius Moșoarca**, "Assessment methodology for historic timber roof structures", Journal of Architecture, Urbanism and Heritage, vol. 2, pp. 41-46, 2018

[2002] **Roofing with metallic constructions**

Referință: Reviste de specialitate din strainantate

Anastasiadis Anthimos, **Mosoarca Marius**, "Roofing with metallic constructions", ΎΛΗ κτιριο , ΠΕΡΙΟΔΙΚΟ ΑΡΧΙΤΕΚΤΟΝΙΚΗΣ-ΤΕΧΝΟΛΟΓΙΑΣ, ISSN 1109-0189, pp:123-132, Grecia, 2002

[2003] **Prefabrication - applications on industrial buildings**

Referință: Reviste de specialitate din strainantate

Anastasiadis Anthimos, **Mosoarca Marius**, "Prefabrication - applications on industrial buildings", revista: ΎΛΗ κτιριο, ΠΕΡΙΟΔΙΚΟ ΑΡΧΙΤΕΚΤΟΝΙΚΗΣ-ΤΕΧΝΟΛΟΓΙΑΣ, ISSN 1109-0189, pp:109-119, Grecia, 2003

[2012] **Seismic Behaviour of Romanian Ortodox Churches, Modeling of Failure Modes by Rigid Blocks**

Referință: Reviste de specialitate din strainantate

Mosoarca Marius, Victor Gioncu, Ovidiu Cosma, "Seismic Behaviour of Romanian Ortodox Churches, Modeling of Failure Modes by Rigid Blocks", International Journal of Civil and Geological Engineering, Issue 6, pp:240-247; <http://waset.org/journals/ijcge/v6/v6-38.pdf>, 2012

[2019] **Influence of historic roof structures on the seismic behaviour of masonry structures**

Referință: Articole in reviste indexate web of science

Keller Alexandra, Parisi Maria Adelaide, Tsakanika Eleftheria, **Mosoarca Marius**, "Influence of historic roof structures on the seismic behaviour of masonry structures",

[2005] **Retrofit of Reinforced Concrete Shear Walls with CFRP Composites**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Tamas Nagy-Gyorgy, **Marius Mosoarca**, Valeriu Stoian, Janos Gergely, Daniel Dan,
"Retrofit of Reinforced Concrete Shear Walls with CFRP Composites", Proc. Symposium
"Keep Concrete Attractive", ISBN 963 420 838 X, Budapest, 2005

[2006] **Polymeric composites for seismic rehabilitations-studies and research**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Stoian V., Nagy-Gyorgy T., Daescu C., Dan D. , **Mosoarca Marius**, Diaconu D., "Polymeric
composites for seismic rehabilitations-studies and research", Proc. of the 4th International
Scientific Meeting- INDIS 2006, ISBN 86-7892-016-5, Novi Sad, Serbia, 2006

[2007] **Research Results on RC Walls and Dapped Beam Ends Strengthened eith FRP Composites**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Nagy-Gyorgy T., Stoian V., Dan D., Daescu C., Diaconu D., **Mosoarca Marius**, "Research
Results on RC Walls and Dapped Beam Ends Strengthened eith FRP Composites", Proc. of
the 8th Int. Symposium on Fiber Reinforced Polymer Reinforcement for Concrete
Structures: FRPRCS-8, Patras, Grecia, 2007

[2005] **Design Aspects of Reduced Beam Sections for IPE and HEA European Profiles**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Anastasiadis Anthimos, Gioncu Victor, **Mosoarca Marius**, "Design Aspects of Reduced
Beam Sections for IPE and HEA European Profiles", Proc. 5th National Conference on Metal
Structures, 29 septembrie -2 octombrie, 2005, Xanthi

[2007] **Rövididejű, törésközeli felszínmozgás hatása acél keretszerkezetre**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
J. Gyorgyi, Victor Gioncu, **Marius Mosoarca**, "Rövididejű, törésközeli felszínmozgás hatása
acél keretszerkezetre", Proc. Conference on earthquake safety in Hungary, pp. 85-106,
ISBN 978-963-7175-33-6; Gyor 2007

[2007] **Investigations of Historical Spatial Buildings Behaviour**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Mosoarca Marius, Gioncu Victor, "Investigations of Historical Spatial Buildings Behaviour"
ID156, T5, Proc. Conference Proceedings IASS Venetia, Shell and Spatial Structures:
Structural Architecture – Towards the future looking to the past, 3-6 dec., Venetia, Italia
2007

[2002] **Serviceability limit state for seismic design**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Truta Mihnea, **Mosoarca Marius**, Gioncu Victor, International Conference New Trends in
Statics and Dynamics of Buildings, "Serviceability limit state for seismic design", pp.
213-217, Conference proceeding, Slovak University, ISBN 80-227-1790-8 Bratislava,
octombrie 2002

[2004] **Stability problems for columns in one storied industrial hall**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Naghiu Adrian, Florin Cioboiu, **Mosoarca Marius**, Gioncu Victor, "Stability problems for columns in one storied industrial hall", Conference proceeding in "3rd International Conference of New Trends in Statics and Dynamics of Buildings", pp.343-346, Slovak University, ISBN 80-227-2116-6, 21-22 octombrie, Bratislava, Slovacia, 2004

[2004] **Stability design of steel trusses**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Lengyel Tibor, **Mosoarca Marius**, Gioncu Victor, "Stability design of steel trusses" in "3rd International Conference of New Trends in Statics and Dynamics of Buildings", pp. 309-312, Conference proceeding, Slovak University, ISBN 80-227-2116-6, Bratislava, 2004

[2004] **Behaviour of RC shears walls with staggreg openings in seismic zones**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Mosoarca Marius, Anastasiadis Anthimos, "Behaviour of RC shears walls with staggreg openings in seismic zones" in "3rd International Conference of New Trends in Statics and Dynamics of Buildings", pp. 321-325, Conference proceeding, Slovak University, ISBN 80-227-2116-6, Bratislava, 2004

[2005] **Dynamic modelling of historical buildings**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Gioncu Victor, **Mosoarca Marius**, Anastasiadis Anthimos, "Dynamic modelling of historical buildings", in "4rd International Conference of New Trends in Statics and Dynamics of Buildings", pp.281-285, Conference proceeding, Slovak University, ISBN 80-227-2277-4, 20-21 octombrie, Bratislava, 2005

[2002] **Design methodology of steel structures based on multi-level states**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Truta Mihnea , **Marius Mosoarca**, Gioncu Victor, "Design methodology of steel structures based on multi-level states", in Proc. "4th National Conference on Steel Structures ", pp. 359-366, vol.II, ISBN 960-7620-25-9, Patras, Grecia, 2002

[2008] **Behaviour and restauration of historical houses in areas with moderate earthquakes**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Victor Gioncu, **Marius Mosoarca**, Niculescu Marius, "Behaviour and restauration of historical houses in areas with moderate earthquakes", in Conf. proceedings.: "Seismic risk. Earthquakes in North-Western Europe", pg.175-182, Les Editions de l'Universite de Liege, ISBN 978-2-87456-063-7, Liege, Belgia, 2008

[2011] **Local ductility of rolled steel beams**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, "Local ductility of rolled steel beams", pp. 1185-1190, EUROSTEEL 2011, Conf. proceedings : 6th European Conference on Steel and Composite Structures, Volum B, ISBN: 978-92-9147-103-4 Budapest, Hungary, 31 august – 2 septembrie, 2011

[2012] **Seismic Behaviour of Romanian Orthodox Churches. Modeling by Rigid Blocks**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)

Mosoarca Marius, Gioncu V., Cosma O., "Seismic Behaviour of Romanian Orthodox Churches. Modeling by Rigid Blocks", in Conf. proceedings: International Conference on Modeling and Simulation ICMS 2012, - World Academy of Science and Technology, Issue 61, pp. 678-686, pISSN 2010-376x ; eISSN 2010-3778, 15-17 ianuarie, Zurich, Elvetia, 2012

[2012] **Modelling by theoretical and Experimental Analysis of RC Shear Walls with Staggered Openings Subjected to Seismic Actions. Reduction of rigidity**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)

Mosoarca Marius, Stoian V., "Modelling by theoretical and Experimental Analysis of RC Shear Walls with Staggered Openings Subjected to Seismic Actions. Reduction of rigidity", International Conference on Modeling and Simulation ICMS 2012, World Academy of Science and Technology, Issue 61, pp. 687-697, pISSN 2010-376x ; eISSN 2010-3778, 2012, Zurich, Elvetia, 2012

[2012] **Failure Modeling using Simplified Computational Methods of RC Shear Walls with Staggered Openings Subjected to Seismic Actions**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)

Mosoarca Marius, "Failure Modeling using Simplified Computational Methods of RC Shear Walls with Staggered Openings Subjected to Seismic Actions", International Conference on Modeling and Simulation ICMS 2012, - World Academy of Science and Technology, Issue 61 pp. 970-978, pISSN 2010-376x; eISSN 2010-3778, , Zurich, Elvetia, 15-17 ianuarie, 2012

[2014] **A Study of Retrofitting Traditional Shingles and Shakes Roofs on Historical Buildings**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)

Bogdan Demetrescu, Bogdan Isopescu, **Marius Mosoarca**, "A Study of Retrofitting Traditional Shingles and Shakes Roofs on Historical Buildings", PROHITECH'14 - Proceedings of 2nd International conference on Protection of Historical Constructions, Ed.: F.M. Mazzolani, G. Altay, ISBN 978-975-518-361-9, pp.95-99, Antalya, Turcia, 7-9 mai 2014

[2014] **Applications of the Consolidation Methods Developed in the "PROHITECH" Research Program. Consolidation of Historic Wood Churches from Banat Seismic Region, Romania**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)

Marius Mosoarca, Victor Gioncu[†], Anthimos Anastasiadis, Cristian Petrus, "Applications of the Consolidation Methods Developed in the "PROHITECH" Research Program. Consolidation of Historic Wood Churches from Banat Seismic Region, Romania", PROHITECH'14 – Proc. of 2nd International conference on Protection of Historical Constructions, Ed.: F.M. Mazzolani, G. Altay, ISBN : 978-975-518-361-9, pp.681-6877, Antalya, Turcia, mai 2014

[2014] **Seismic Failure Modes Developed by Romanian Orthodox Churches**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)

Marius Mosoarca, Victor Gioncu[†], Anthimos Anastasiadis, Cristian Petrus, "Seismic Failure Modes Developed by Romanian Orthodox Churches", PROHITECH'14 - Proceedings of 2nd International conference on Protection of Historical Constructions, Ed.: F.M. Mazzolani, G. Altay, ISBN: 978-975-518-361-9, pp.837-842, Antalya, Turcia, 7-9 mai 2014

- [2014] **Seismic Vulnerability Assessment of Historical Masonry Complex Buildings of Banat Region, Romania**
- Referință:** Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
- Marius Mosoarca**, Ioan Andreescu, "Seismic Vulnerability Assessment of Historical Masonry Complex Buildings of Banat Region, Romania", PROHITECH'14 – Conf. proceedings of 2nd International conference on Protection of Historical Constructions, Ed.: F.M. Mazzolani, G. Altay, ISBN: 978-975-518-361-9, pp. 846-849, Antalya, Turcia, 7-9 mai 2014
- [2013] **Historic bearing structures. Synagogues in Timisoara. Structural degradation**
- Referință:** Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
- Mosoarca Marius**, Victor Gioncu, "Historic bearing structures. Synagogues in Timisoara. Structural degradation", in Conf. proc. 6th International Congress on "Science and technology for the safeguard of cultural heritage in the Mediterranean Basin", ISBN: 978-88-97987-01-7, pp. 70, Atena, Grecia, 22-25 octombrie 2013
- [2013] **Reinforcement of historic multi storey bearing structures with braced metal tubes**
- Referință:** Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
- Mosoarca Marius**, "Reinforcement of historic multi storey bearing structures with braced metal tubes", Congress on "Science and technology for the safeguard of cultural heritage in the Mediterranean Basin", ISBN: 978-88-97987-01-7, pp.71, Atena, Grecia, 22-25 octombrie 2013
- [2013] **New factors influencing the failure mechanisms of reinforced concrete buildings located in seismic areas**
- Referință:** Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
- Mosoarca Marius**, Anthimos Anastasiadis, "New factors influencing the failure mechanisms of reinforced concrete buildings located in seismic areas", International Van earthquake symposium, Paper ID:110, pp. 88, Van, Turcia, 2013
- [2013] **Considerations on local ductility of steel framed structures under seismic actions**
- Referință:** Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
- Anthimos Anastasiadis, **Mosoarca Marius**, Considerations on local ductility of steel framed structures under seismic actions, 2013 International Van earthquake symposium, Paper ID:37, pp. 45, Van, Turcia, 23 – 27 octombrie 2013
- [2014] **Cyclic and Strain Rate Local**
- Referință:** Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
- A.S. Anastasiadis, **Mosoarca Marius**, F.M. Mazzolani, "Cyclic and Strain Rate Local", Proc. 7th European Conference on Steel and Composite Structures, EuroSteel 2014, pp. 599-600 – Abstract volume, ISBN: 978-92-9147-121-8, Napoli, Italia, 10-12 septembrie 2014
- [2014] **Seismic risk of buildings with RC frames and masonry infills from Timisoara, Banat Region, Romania**
- Referință:** Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
- Mosoarca Marius**, Petrus Cristian, Stoian Valeriu, Anthimos Anastasiadis, "Seismic risk of buildings with RC frames and masonry infills from Timisoara, Banat Region, Romania:

[2014] **Cyclic in-plane experimental tests for evaluation of shear capacity of brick masonry walls**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)

Partene Eva, Stoian Valeriu, **Mosoarca Marius**, Fekete-Nagy Luminita, "Cyclic in-plane experimental tests for evaluation of shear capacity of brick masonry walls", Proc. 9th International Mansonry, Paper ID 1621 pp. 395, ISBN 978-972-8692-85-8, Conference in Guimaraes, Portugalia, 2014

[2014] **Structural analysis of synagogues from Timisoara, Romania**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)

Mosoarca Marius, Anastasiadis Anthimos, Petrus Cristian, "Structural analysis of synagogues from Timisoara, Romania", Proc. 9th International Conference on Structural Analysis of historical Constructions, SAHC 2014, Program & abstracts, ISBN: 04-2014-102011495500-102, pp. 120, Mexico City, Mexic, 15-17 Octombrie 2014

[2015] **Revitalization of historic Roof Framing Systems from Timisoara, Romania**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)

Andreescu Ioan, **Mosoarca Marius**, Gaivoronschi Vlad, Stoian Valeriu "Revitalization of historic Roof Framing Systems from Timisoara, Romania" SHATIS'15 – Conf. Proceedings of 3rd International Conference on Structural Health Assessment of Timber Structures, Ed.: Jerzy Jasienko, Tomasz Nowak, ISSN 0860-2395, ISBN 978-83-7125-6, pp. 785-796, Wroclaw, Poland, 9-11 September, 2015

[2015] **Complex system of wooden pile foundation for the lock from Timisoara fortress**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)

Mosoarca Marius, Gaivoronschi Vlad, Stoian Valeriu "Complex system of wooden pile foundation for the lock from Timisoara fortress", SHATIS'15 – Conf. Proceedings of 3rd International Conference on Structural Health Assessment of Timber Structures, Ed.: Jerzy Jasienko, Tomasz Nowak, ISSN 0860-2395, ISBN 978-83-7125-6, pp. 301-312, Wroclaw, Poland, 9-11 September. 2015

[2015] **Wood, the originary matter through which the ethnographical area of Faget has been defined, today in danger to be lost. Caste study: Crivina de Sus village**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)

Obradovici Vlad, Micsa Ovidiu, Bica Smaranda, **Mosoarca Marius** "Wood, the originary matter through which the ethnographical area of Faget has been defined, today in danger to be lost. Caste study: Crivina de Sus village, SHATIS'15 – Conf. Proceedings of 3rd International Conference on Structural Health Assessment of Timber Structures, Ed.: Jerzy Jasienko, Tomasz Nowak, ISSN 0860-2395, ISBN 978-83-7125-6, pp. 322-329, Wroclaw, Poland, 9-11 September, 2015

[2015] **Some thoughts for the prediction of the local inelastic capacity of MRF Subjected to seismic actions**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)

Anthimos Anastasiadis, **Marius Mosoarca**, Cristian Petrus, Frederico Mazzolani, "Some thoughts for the prediction of the local inelastic capacity of MRF Subjected to seismic

actions" 8th International Conference on Behaviour of Steel Structures in Seismic Areas, Shanghai, China, July 1-3, 2015

- [2016] **Behaviour of masonry infills subjected to out of plane seismic actions. Part 1: Theoretical analysis**
- Referință:** Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
- Mosoarca Marius**, Petrus Cristian, Stoian Valeriu, Anastasiadis Anthimos "Behaviour of masonry infills subjected to out of plane seismic actions. Part 1: Theoretical analysis", 16IBMAC – 16th International Brick and Block Masonry Conferenece, 25-30 June, 2016, Padova, Italy, paper ID: 0146_1, 2016
- [2016] **Behaviour of masonry infills subjected to out of plane seismic actions. Part 2: Experimental testing**
- Referință:** Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
- Mosoarca Marius**, Petrus Cristian, Stoian Valeriu, Anastasiadis Anthimos "Behaviour of masonry infills subjected to out of plane seismic actions. Part 2: Experimental testing", 16IBMAC – 16th International Brick and Block Masonry Conferenece, 25-30 June, 2016, Padova, Italy, paper ID: 0146_2, 2016
- [2017] **Global behavior of historical masonry structures and timber roof framework**
- Referință:** Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
- Chieffo Nicola, Apostol Iasmina, Keller Alexandra, **Mosoarca Marius**, Marzo Ana "Global behavior of historical masonry structures and timber roof framework". In 3rd International Conference on Protection Of Historical Constructions (PROHITECH'17), Mazzolani, F. Lamas, A. Calado, L. Proenca, J. and Faggiano, B., eds., 2017
- [2017] **Influence of roof structures on seismic behavior of historic buildings**
- Referință:** Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
- Keller Alexandra, Chieffo Nicola, **Mosoarca Marius** "Influence of roof structures on seismic behavior of historic buildings". In 3rd International Conference on Protection Of Historical Constructions (PROHITECH'17), Mazzolani, F. Lamas, A. Calado, L. Proenca, J. and Faggiano, B., eds. 2017
- [2017] **Probabilistic damage scenario: a case study in Amatrice affected by the 2016 seismic sequence**
- Referință:** Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
- Formisano Antonio, Chieffo Nicola, **Mosoarca Marius**. "Probabilistic damage scenario: a case study in Amatrice affected by the 2016 seismic sequence". 3rd International Conference on Protection Of Historical Constructions (PROHITECH'17), Mazzolani, F. Lamas, A. Calado, L. Proenca, J. and Faggiano, B., eds. 2017
- [2017] **A complex assessment of historic roof structures**
- Referință:** Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
- Keller Alexandra, **Mosoarca Marius** "A complex assessment of historic roof structures" In 4th International Conference on Structural Health Assessment of Timber Structures (SHATIS'17), Arun, G. ed., 157–168, 2017
- [2019] **Historic timber roof structures: Value and influence on the seismic behaviour of heritage buildings**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Keller Alexandra, **Mosoarca Marius** "Historic timber roof structures: Value and influence on the seismic behaviour of heritage buildings", ICISA 2019 4th International Conference on Structures and Architecture, 24-26 July, Lisbon, Portugal, 2019

[2019] **Multi-criterial vulnerability assessment for Timisoara city, Romania**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Onescu Iasmina, Onescu Eugen, **Mosoarca Marius** "Multi-criterial vulnerability assessment for Timisoara city, Romania", ICISA 2019 4th International Conference on Structures and Architecture, 24-26 July, Lisbon, Portugal, 2019

[2019] **Influence of roof structures on seismic vulnerability of historic buildings**

Referință: Volumele unor manifestari stiitifice din strainatate (simpozioane, conferinte)
Keller Alexandra, **Mosoarca Marius** "Influence of roof structures on seismic vulnerability of historic buildings" in 5th International Conference on Structural Health Assessment of Timber Structures (SHATIS'19), Branco J., Sousa H. and Poletti E. eds, 171-178, 2019

[2000] **Slim floor with ceramics or concrete blocks for steel structures**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)
Mosoarca Marius, Lazea Lucian, Gioncu Victor, "Slim floor with ceramics or concrete blocks for steel structures", pp. 593-598, The 9-th International Conference on Metal Structures, Ed. Orizonturi Universitare Timisoara, ISBN:973-8109-17-5, Timisoara, 2000

[2004] **Multi Level Earhquake Design of Steel Frames: a Designers' View**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)
Anastasiadis Anthimos, **Mosoarca Marius**, " Multi Level Earhquake Design of Steel Frames: a Designers' View", Recent Advances and New Trends in Structural Design, Colloquium dedicated to the 70th anniversary of Prof. Victor Gioncu, pp. 307-315, ISBN: 973-638-119-6, Timisoara, 7-8 mai 2004

[2004] **Experimental Studies on Structural Elements**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)
Stoian V., Dan D., **Mosoarca Marius**, Nagy-Gyorgy T., "Experimental Studies on Structural Elements", Recent Advances and New Trends in Structural Design, Victor Gioncu Aniversary Colloquium, pp. 283-294, ISBN: 973-638-119-6, Timisoara, 2004

[2007] **Seismic retrofit of masonry and rc elements with FRP composites-research and applications**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)
Nagy-Gyorgy T., Stoian V., Dan D., Daescu C., Diaconu D., **Mosoarca Marius**, "Seismic retrofit of masonry and rc elements with FRP composites-research and applications" , ISSR07, Bucuresti, 2007

[2008] **Methods for structural analysis of historical buildings", Civil Engineering Proceeding of the International Conference Constructions 2008**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)
Gioncu Victor, **Mosoarca Marius**, "Methods for structural analysis of historical buildings", Civil Engineering Proceeding of the International Conference Constructions 2008,

"Methods for Structural Analysis of Historical Buildings", Acta Technica Napocensis, Section Civil Engineering-Architecture, pp. 137-144, Vol III, 2008, ISSN 1221-5848, Cluj-Napoca, 9-10 mai 2008

[2009] **The risk and vulnerability of the hydrotechnical arrangement Bega Timisoara**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Hetes Dorel, David Ioan, **Mosoarca Marius**, "The risk and vulnerability of the hydrotechnical arrangement Bega Timisoara", The 33-th Annual Congress of the American Romanian Academy of Arts and Sciences, Sibiu, 2-7 iunie 2009, Ed. Polytechnic International Press Montreal, Quebec Canada, pp. 93-96, Vol II, 2009

[2010] **Seismic Behaviour of religious historical buildings on domes and pendants**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Mosoarca Marius, Victor Gioncu, Ovidiu Cosma, "Seismic Behaviour of religious historical buildings on domes and pendants", pp.43-52, Buletinul Stiintific al Universitatii Politehnica din Timisoara, Seria Constructii-Architectura, Tomul 55(69), Fascicola 1, ISSN: 1224-6026, Editura Politehnica, 2010

[2011] **Banat-Romania Industrial past sustainable, environmental friendly and profitable future**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Boltres Cristian, **Mosoarca Marius**, "Banat-Romania Industrial past sustainable, environmental friendly and profitable future", pp. 242, in Proc. International UAB BENA Conference, Environmental Engineering and sustainable development, Editura Aeternitas, ISBN: 978-606-613-002-8, Alba-Iulia, Romania, 26-27 mai, 2011

[2011] **Ecologic methods of restoration of historical churches**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Cosma Ovidiu, **Mosoarca Marius**, "Ecologic methods of restoration of historical churches", pp. 247, International UAB BENA Conference, Environmental Engineering and sustainable development, Ed. Aeternitas, ISBN:978-606-613-002-8, Alba-Iulia, Romania, 26-27 mai, 2011

[2011] **Sustainable restoration of historical churches**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Cosma Ovidiu, **Mosoarca Marius**, "Sustainable restoration of historical churches", pp. 246, International UAB BENA Conference, Environmental Engineering and sustainable development, Ed. Aeternitas, ISBN: 978-606-613-002-8, Alba-Iulia, Romania, 26-27 mai, 2011

[2011] **Ecological bearing structures. Historical wooden churches of Banat environmentally friendly restoration. Methods of wooden churches in Banat**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Voicu Fodor, **Mosoarca Marius**, "Ecological bearing structures. Historical wooden churches of Banat environmentally friendly restoration. Methods of wooden churches in Banat", pp. 248, International UAB BENA Conference, Environmental Engineering and sustainable development, Ed. Aeternitas, ISBN:978-606-613-002-8, Alba-Iulia, Romania, 26-27 mai, 2011

- [2011] **A grid for an atrium roof", Proceedings of 6th International Conference on Thin Walled Structures. Recent research advances and trends**
- Referință:** Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)
Victor Gioncu, **Mosoarca Marius**, "A grid for an atrium roof", Proceedings of 6th International Conference on Thin Walled Structures. Recent research advances and trends", Vol. 2, pp. 905-912, Ed. ECCS – European Convention for Constructional Steelwork, ISBN: 978-92-9147-102-7, Timisoara, 2011
- [2014] **Reinforced concrete frames with masonry infills. Damages and consolidation measures**
- Referință:** Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)
Petrus Cristian, Valeriu Stoian, **Mosoarca Marius**, Anastasiadis Anthimos, "Reinforced concrete frames with masonry infills. Damages and consolidation measures", CePhD 2014 – 2nd International Conference for PhD Students in Civil Engineering and Architecture, paper ID: 743, Cluj-Napoca, Romania, 10-13 dec. 2014
- [2005] **Calculul peretilor din beton armat consolidate cu composite**
- Referință:** Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)
Nagy-Gyorgy T., Stoian V., **Mosoarca Marius**, Gergely J., Dan D., "Calculul peretilor din beton armat consolidate cu composite", Zilele Academiei Timisene, pp. 427-432, ISBN 973-661-652-5, Timisoara, 2005
- [2005] **Composite polimerice pentru reabilitari seismice-studii si cercetari**
- Referință:** Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)
Stoian V., Nagy-Gyorgy T., Daescu C., Dan D., **Mosoarca Marius**, Diaconu D., Sas D., "Composite polimerice pentru reabilitari seismice-studii si cercetari", Conferinta Nationala de Inginerie Seismica III, Bucuresti, 2005
- [2005] **Solutii de consolidare cu fibre de carbon a structurilor din beton armat situate in zone seismice si puternic degradate in procesul de exploatare**
- Referință:** Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)
Gioncu Victor, **Mosoarca Marius**, Palade Cristian, "Solutii de consolidare cu fibre de carbon a structurilor din beton armat situate in zone seismice si puternic degradate in procesul de exploatare", Zilele academice timisene, "Lucrarile simpozionului international – Materiale, elemente si structuri composite pentru constructii" Editia a IX-a, pp. 405-410, Ed. Mirton 2005, ISBN 973-661-65-5, 26-27 mai Timisoara, 2005
- [2003] **Pereti structurali din beton armat consolidati cu composite - Primele incercari experimentale**
- Referință:** Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)
Nagy-Gyorgy T., Stoian V., **Mosoarca Marius**, Dan D., " Pereti structurali din beton armat consolidati cu composite - Primele incercari experimentale", Zilele Academice Timisene, Timisoara, 2003
- [2000] **Sistem mixt de fundare pe piloti perimetrali si radier general**
- Referință:** Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Marin Marin, **Mosoarca Marius**, "Sistem mixt de fundare pe piloti perimetrali si radier general"; a XI-A Conferinta Nationala de geotehnica si fundatii, pp.214-222, Cluj-Napoca, 27-29 septembrie 2000

[2000] **Aspecte privind consolidarea fundatiilor pe piloti prefabricati la o constructie in cadre din beton armat**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Marin Marin, Pantea Petru, **Mosoarca Marius**, "Aspecte privind consolidarea fundatiilor pe piloti prefabricati la o constructie in cadre din beton armat"; a XI-A Conferinta Nationala de geotehnica si fundatii, pp. 203-213, Cluj-Napoca, 27-29 septembrie 2000

[2001] **Consolidarea Manastirii Sf.Gheorghe Birda-Jud.Timis**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Lazea Lucian, **Mosoarca Marius**, Gioncu Victor, , "Consolidarea Manastirii Sf.Gheorghe Birda-Jud.Timis" "Zilele Academiei Timisene, Editia a VIII-a, Simpozion "Materiale, elemente si structuri composite/compuse pentru constructii", Ed. Mirton, Timisoara, 24-25 mai, 2001

[2001] **Comportarea diafragmelor cu goluri decalate la actiuni seismice**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Mosoarca Marius, Stoian Valeriu, "Comportarea diafragmelor cu goluri decalate la actiuni seismice"; Zilele Academiei Timisene, Editia a VII-a, Simpozion "Materiale, elemente si structuri composite/compuse pentru constructii", Ed. Mirton,, Timisoara, 24-25 mai, 2001

[2007] **Comportarea seismica a cladirilor istorice de locuit**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Gioncu Victor, **Mosoarca Marius**, Niculescu Marius, Cioboiu Florin " Comportarea seismica a cladirilor istorice de locuit", pp. 213-218, Zilele Academiei Timisene, Editia a X-a, Simpozion International "Composite Materials, elements and structures for construction", Ed. Politehnica, ISSN 1843-0910, Timisoara, 24-25 mai 2007

[2007] **Structuri prefabricate din beton in zone seismice:analiza avariilor produse**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Gioncu Victor, **Mosoarca Marius**, Anastasiadis Anthimos, "Structuri prefabricate din beton in zone seismice:analiza avariilor produse", pp 39-52, Societatea pentru beton si prefabricate din Romania, Conferinta: Structuri prefabricate din beton in centrul si estul Europei, ISBN 978-973-662-329-5, Cluj Napoca, 8-9 noiembrie 2007

[2010] **Complexul de birouri City Business Centre**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Victor Gioncu, **Mosoarca Marius**, Alina Brateanu, "Complexul de birouri City Business Centre" Timisoara", pp. 251-262, Realizari si preocupari actuale in ingineria constructiilor metalice, Lucrarile celei de-a 12-a Conferinte Nationale de Constructii Metalice, Editura Orizonturi Universitare Timisoara, ISBN: 978-973-638-464-6, Timisoara, 26-27 noiembrie 2010

[2013] **Working in the Attic. Complex Restoration and Reconversion of an Historic Attic Structure in Timisoara, Romania**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Vlad Gaivoronschi, Ioan Andreescu, **Mosoarca Marius**, "Working in the Attic. Complex Restoration and Reconversion of an Historic Attic Structure in Timisoara, Romania", C60 International Conference, "Tradition and Inovation – 60 Years of Civil Engineering Higher Education in Transilvania", pp. 287,288, ISBN: 978-973-662-903-7, Cluj-Napoca, 7-9 noiembrie 2013

[2003] **Incerari experimentale realizate pe pereti structurali din beton armat cu goluri decalate**

Referință: Volumele unor manifestari stiitifice din Romania (simpozioane, conferinte)

Mosoarca Marius, Stoian Valeriu, "Incerari experimentale realizate pe pereti structurali din beton armat cu goluri decalate", Zilele Academice Timisene, pp. 157-163, ISBN: 973-661-012-8, 2003

[2020] **Seismic Analysis and Retrofitting of Civil Engineering Structures**

Referință: Articole la conferinte indexate web of science

Clementi Francesco, Antonio Formisano, Gabriele Milani, **Marius Mosoarca**. "Seismic Analysis and Retrofitting of Civil Engineering Structures." In *AIP Conference Proceedings*, vol. 2293, no. 1, p. 380001. AIP Publishing LLC, 2020

Articole la conferinte indexate web of science

[2020] **Probabilistic Earthquake Scenarios of a Historical Area in the Town of Amatrice**

Referință: Articole la conferinte indexate web of science

Formisano, Antonio, Nicola Chieffo, **Marius Mosoarca**. "Probabilistic earthquake scenarios of a historical area in the town of Amatrice." In *AIP Conference Proceedings*, vol. 2293, no. 1, p. 240006. AIP Publishing LLC, 2020.

[2023] **Seismic risk asesment and crisis management for historical buldings in Timisoara**

Onescu I, Onescu E. **Mosoarca Marius**, "Seismic risk asesment and crisis management for historical buldings in Timisoara,, DOI 10.1016/j.jobee.2023.106665, vol. 72, 106665, Journal of Building Engineering, 2023

[2021] **The effect of ground motion vertical component on the seismic response of historical masonry buildings: The case study of the Banloc Castle in Romania**

Chieffo, Nicola, Marius Mosoarca, Antonio Formisano, Paulo B. Lourenço, and Gabriele Milani. "The effect of ground motion vertical component on the seismic response of historical masonry buildings: The case study of the Banloc Castle in Romania." *Engineering Structures* 249 (2021): 113346.

[2022] **Damage Assessment of a Romanian Historical Masonry Building under Near-Field Earthquake**

Chieffo, N., Formisano, A., Mosoarca, M., & Lourenço, P. B. (2022, April). Damage assessment of a Romanian historical masonry building under near-field earthquake. In *AIP Conference Proceedings* (Vol. 2425, No. 1, p. 360009). AIP Publishing LLC.

[2023] **Conservation, Consolidation and Restoration of Holy Annunciation Church of Vătășești Village, Region of Oltenia, Romania**

Referință: Articole la conferințe indexate bdi

Moșoarcă, M., Popovici, T., Roseti, T. (2024). Conservation, Consolidation and Restoration of Holy Annunciation Church of Vătășești Village, Region of Oltenia, Romania. In: Endo, Y., Hanazato, T. (eds) Structural Analysis of Historical Constructions. SAHC 2023. RILEM Bookseries, vol 47. Springer, Cham. https://doi.org/10.1007/978-3-031-39603-8_107

Experimental Investigation of One-Sided Strengthening Interventions on Historic Brick Masonry Walls

[2023]

Bocan, D.P., Keller, A.I., Mosoarca, M., Bocan, C.M. (2024). Experimental Investigation of One-Sided Strengthening Interventions on Historic Brick Masonry Walls. In: Endo, Y., Hanazato, T. (eds) Structural Analysis of Historical Constructions. SAHC 2023. RILEM Bookseries, vol 47. Springer, Cham. https://doi.org/10.1007/978-3-031-39603-8_40

ARTICOLE/STUDII IN EXTENSO, PUBLICATE IN JURNALE COTATE BDI

[2019] **Structural Balance of Historical Aggregates**

Mosoarca Marius, Valeriu Stoian, Margareta Florea, Marius Niculescu. "Structural Balance of Historical Aggregates". In Structural Analysis of Historical Constructions, Springer, Cham, 2448-2456, 2019

[2019] **Seismic vulnerability scenarios for Timisoara, Romania**

Apostol Iasmina, **Marius Mosoarca**, Nicola Chieffo, Eugen Onescu "Seismic vulnerability scenarios for Timisoara, Romania". In Structural Analysis of Historical Constructions, Springer, Cham, 1191-1200, 2019

[2019] **Structural Analysis and Damage Assessment of a Historical Masonry Palace–A Case Study**

Partene Eva, **Marius Mosoarca**, Valeriu Stoian. "Structural Analysis and Damage Assessment of a Historical Masonry Palace–A Case Study." In Structural Analysis of Historical Constructions, Springer, Cham, 1117-1124, 2019

[2019] **Reshaping the Villa–Complex Intervention in a 1930's Structure**

Andreescu, Ioan, **Marius Moșoarcă**, Dan-Răzvan Dinu. "Reshaping the Villa–Complex Intervention in a 1930's Structure." In Structural Analysis of Historical Constructions, Springer, Cham, 2314-2322, 2019

[2019] **The impact of the cultural value on the seismic vulnerability of a historical building**

Onescu Iasmina, Onescu Eugen, **Mosoarca Marius**. "The impact of the cultural value on the seismic vulnerability of a historical building", 4th World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium (WMCAUS), IOP Conference Series: Materials Science and Engineering, Volume:603, Issue 4, 2019

[2019] **The Impact of Timber Roof Framework over Historical Masonry Structures**

Onescu Iasmina, Onescu Eugen, **Mosoarca Marius**. "The Impact of Timber Roof Framework over Historical Masonry Structures", 4th World Multidisciplinary Civil Engineering-Architecture-Urban Planning Symposium (WMCAUS), IOP Conference Series: Materials Science and Engineering, Volume:603, Issue 4, 2019

- [2016] **New vulnerabilities of historic urban centers and archaeological sites: Extreme loads**
- Narița, Alina-Maria, Vlad Gurza, Răzvan Oprea, Alexandra Keller, Iasmina Apostol, **Marius Moșoarcă**, and Cătălina Bocan. "New vulnerabilities of historic urban centers and archaeological sites: Extreme loads." Pollack Periodica 11, no. 3 (2016): 15-26
- [2016] **New factors for the seismic vulnerability assessment of reinforced concrete buildings**
- Mosoarca Marius**, Anastasiadis Anthimon, Formisano Antonio. "New factors for the seismic vulnerability assessment of reinforced concrete buildings" International journal of sustainable materials and structural systems, Volume: 2, Issue: 3-4, Pages: 222-232, ISSN: 2043-8621, eISSN: 2043-863X, 2016;
- [2010] **Seismic management and damage prevention of religious buildings situated in seismic areas**
- Mosoarca Marius**, Gioncu, V., „Seismic management and damage prevention of religious buildings situated in seismic areas”, Proceedings of the International Conference on Risk Management, Assessment and Mitigation, RIMA '10, pp. 33-38, Bucuresti, 2010
- [2010] **Assessment and mitigation procedures for historical buildings situated in seismic areas**
- Mosoarca Marius**, Gioncu, V., „Assessment and mitigation procedures for historical buildings situated in seismic areas”, Proceedings of the International Conference on Risk Management, Assessment and Mitigation, RIMA '10, pp. 27-32; Bucuresti, 2010
- [2010] **Vulnerability Assessment of R/C Buildings for Earthquake Insurance Purposes**
- Anthimos Anastasiadis, **Mosoarca Marius**, "Vulnerability Assessment of R/C Buildings for Earthquake Insurance Purposes", pp: 126-132, Proceedings of the International Conference RIMA 10, ISBN: 978-960-474-182-3; ISSN: 1790-2769 – Bucuresti, 2010

ARTICOLE/STUDII IN EXTENSO, PUBLICATE IN VOLUMELE UNOR CONFERINTE COTATE BDI

- [2024] **Influence of Geometric Ratios on the Structural Behaviour of Historic Timber Roof Structures**
- Keller Alexandra, **Mosoarca Marius**(2024). Influence of Geometric Ratios on the Structural Behaviour of Historic Timber Roof Structures. In: Endo, Y., Hanazato, T. (eds) Structural Analysis of Historical Constructions. SAHC 2023. RILEM Bookseries, vol 46. Springer, Cham. https://doi.org/10.1007/978-3-031-39450-8_22
- Link:** https://link.springer.com/chapter/10.1007/978-3-031-39450-8_22
- [2024] **Conservation, Consolidation and Restoration of Holy Annunciation Church of Vătășești Village, Region of Oltenia, Romania**
- Moșoarcă Marius**, Popovici Traianus, Roseti Tamara (2024). Conservation, Consolidation and Restoration of Holy Annunciation Church of Vătășești Village, Region of Oltenia, Romania. In: Endo, Y., Hanazato, T. (eds) Structural Analysis of Historical Constructions. SAHC 2023. RILEM Bookseries, vol 47. Springer, Cham. https://doi.org/10.1007/978-3-031-39603-8_107
- Link:** https://link.springer.com/chapter/10.1007/978-3-031-39603-8_107

- [2023] **Experimental Investigation of One-Sided Strengthening Interventions on Historic Brick Masonry Walls**
- Bocan Dragos, Keller, Alexandra, **Mosoarca Marius**, Bocan Catalina (2024). Experimental Investigation of One-Sided Strengthening Interventions on Historic Brick Masonry Walls. In: Endo, Y., Hanazato, T. (eds) Structural Analysis of Historical Constructions. SAHC 2023. RILEM Bookseries, vol 47. Springer, Cham. https://doi.org/10.1007/978-3-031-39603-8_40
- Link:** https://link.springer.com/chapter/10.1007/978-3-031-39603-8_40
- [2023] **Vulnerability Assessment of Historical Churches in Banat Seismic Region, Romania**
- Onescu, Iasmina, Anna Lo Monaco, Mihai Fofiu, Nicola Grillanda, **Marius Mosoarca**, Michele D'Amato, Antonio Formisano (2024). Vulnerability Assessment of Historical Churches in Banat Seismic Region, Romania. In: Endo, Y., Hanazato, T. (eds) Structural Analysis of Historical Constructions. SAHC 2023. RILEM Bookseries, vol 46. Springer, Cham. https://doi.org/10.1007/978-3-031-39450-8_93
- Link:** https://link.springer.com/chapter/10.1007/978-3-031-39450-8_93
- [2022] **Damage Assessment of a Romanian Historical Masonry Building under Near-Field Earthquake**
- Chieffo Nicola, Formisano Antonio., Mosoarca, Marius, Lourenço, Paulo (2022, April). Damage assessment of a Romanian historical masonry building under near-field earthquake. In *AIP Conference Proceedings* (Vol. 2425, No. 1, p. 360009). AIP Publishing LLC.
-
- [2019] **Historic timber roof structures: Value and influence on the seismic behaviour of heritage buildings**
- Keller Alexandra, **Mosoarca Marius** "Historic timber roof structures: Value and influence on the seismic behaviour of heritage buildings", ICSA 2019 4th International Conference on Structures and Architecture, 24-26 July, Lisbon, Portugal, 2019
- [2019] **Multi-criterial vulnerability assessment for Timisoara city, Romania**
- Onescu Iasmina, Onescu Eugen, **Mosoarca Marius** "Multi-criterial vulnerability assessment for Timisoara city, Romania", ICSA 2019 4th International Conference on Structures and Architecture, 24-26 July, Lisbon, Portugal, 2019
- [2019] **Influence of roof structures on seismic vulnerability of historic buildings**
- Keller Alexandra, **Mosoarca Marius** "Influence of roof structures on seismic vulnerability of historic buildings" in 5th International Conference on Structural Health Assessment of Timber Structures (SHATIS'19), Branco J., Sousa H. and Poletti E. eds, 171-178, 2019
- [2017] **Global behavior of historical masonry structures and timber roof framework**
- Chieffo Nicola, Apostol Iasmina, Keller Alexandra, **Mosoarca Marius**, Marzo Ana "Global behavior of historical masonry structures and timber roof framework". In 3rd International Conference on Protection Of Historical Constructions (PROHITECH'17), Mazzolani, F. Lamas, A. Calado, L. Proenca, J. and Faggiano, B., eds., 2017

[2017] **Influence of roof structures on seismic behavior of historic buildings**

Keller Alexandra, Chieffo Nicola, **Mosoarca Marius** "Influence of roof structures on seismic behavior of historic buildings". In 3rd International Conference on Protection Of Historical Constructions (PROHITECH'17), Mazzolani, F. Lamas, A. Calado, L. Proenca, J. and Faggiano, B., eds. 2017

[2017] **Probabilistic damage scenario: a case study in Amatrice affected by the 2016 seismic sequence**

Formisano Antonio, Chieffo Nicola, **Mosoarca Marius**. "Probabilistic damage scenario: a case study in Amatrice affected by the 2016 seismic sequence". 3rd International Conference on Protection Of Historical Constructions (PROHITECH'17), Mazzolani, F. Lamas, A. Calado, L. Proenca, J. and Faggiano, B., eds. 2017

[2017] **A complex assessment of historic roof structures**

Keller Alexandra, **Mosoarca Marius** "A complex assessment of historic roof structures" In 4th International Conference on Structural Health Assessment of Timber Structures (SHATIS'17), Arun, G. ed., 157-168, 2017

[2016] **Behaviour of masonry infills subjected to out of plane seismic actions. Part 1: Theoretical analysis**

Mosoarca Marius, Petrus Cristian, Stoian Valeriu, Anastasiadis Anthimos "Behaviour of masonry infills subjected to out of plane seismic actions. Part 1: Theoretical analysis", 16IBMAC – 16th International Brick and Block Masonry Conference, 25-30 June, 2016, Padova, Italy, paper ID: 0146_1, 2016

[2016] **Behaviour of masonry infills subjected to out of plane seismic actions. Part 2: Experimental testing**

Mosoarca Marius, Petrus Cristian, Stoian Valeriu, Anastasiadis Anthimos "Behaviour of masonry infills subjected to out of plane seismic actions. Part 2: Experimental testing", 16IBMAC – 16th International Brick and Block Masonry Conference, 25-30 June, 2016, Padova, Italy, paper ID: 0146_2, 2016

[2015] **Revitalization of historic Roof Framing Systems from Timisoara, Romania**

Andreescu Ioan, **Mosoarca Marius**, Gaivoronschi Vlad, Stoian Valeriu "Revitalization of historic Roof Framing Systems from Timisoara, Romania" SHATIS'15 – Conf. Proceedings of 3rd International Conference on Structural Health Assessment of Timber Structures, Ed.: Jerzy Jasienko, Tomasz Nowak, ISSN 0860-2395, ISBN 978-83-7125-6, pp. 785-796, Wroclaw, Poland, 9-11 September, 2015

[2015] **Complex system of wooden pile foundation for the lock from Timisoara fortress**

Mosoarca Marius, Gaivoronschi Vlad, Stoian Valeriu "Complex system of wooden pile foundation for the lock from Timisoara fortress", SHATIS'15 – Conf. Proceedings of 3rd International Conference on Structural Health Assessment of Timber Structures, Ed.: Jerzy Jasienko, Tomasz Nowak, ISSN 0860-2395, ISBN 978-83-7125-6, pp. 301-312, Wroclaw, Poland, 9-11 September. 2015

[2015] **Wood, the originary matter through which the ethnographical area of Faget has been defined, today in danger to be lost. Caste study: Crivina de Sus village**

Obradovici Vlad, Micsa Ovidiu, Bica Smaranda, **Mosoarca Marius** "Wood, the originary matter through which the ethnographical area of Faget has been defined, today in danger to be lost. Caste study: Crivina de Sus village, SHATIS'15 – Conf. Proceedings of 3rd

International Conference on Structural Health Assessment of Timber Structures, Ed.: Jerzy Jasienko, Tomasz Nowak, ISSN 0860-2395, ISBN 978-83-7125-6, pp. 322-329, Wroclaw, Poland, 9-11 September, 2015

[2015] **Some thoughts for the prediction of the local inelastic capacity of MRF Subjected to seismic actions**

Anthimos Anastasiadis, **Marius Mosoarca**, Cristian Petrus, Frederico Mazzolani, "Some thoughts for the prediction of the local inelastic capacity of MRF Subjected to seismic actions" 8th International Conference on Behaviour of Steel Structures in Seismic Areas, Shanghai, China, July 1-3, 2015

[2014] **A Study of Retrofitting Traditional Shingles and Shakes Roofs on Historical Buildings**

Bogdan Demetrescu, Bogdan Isopescu, **Marius Mosoarca**, "A Study of Retrofitting Traditional Shingles and Shakes Roofs on Historical Buildings", PROHITECH'14 - Proceedings of 2nd International conference on Protection of Historical Constructions, Ed.: F.M. Mazzolani, G. Altay, ISBN 978-975-518-361-9, pp.95-99, Antalya, Turcia, 7-9 mai 2014

[2014] **Applications of the Consolidation Methods Developed in the "PROHITECH" Research Program. Consolidation of Historic Wood Churches from Banat Seismic Region, Romania**

Marius Mosoarca, Victor Gioncu[†], Anthimos Anastasiadis, Cristian Petrus, "Applications of the Consolidation Methods Developed in the "PROHITECH" Research Program. Consolidation of Historic Wood Churches from Banat Seismic Region, Romania", PROHITECH'14 – Proc. of 2nd International conference on Protection of Historical Constructions, Ed.: F.M. Mazzolani, G. Altay, ISBN : 978-975-518-361-9, pp.681-6877, Antalya, Turcia, mai 2014

[2014] **Seismic Failure Modes Developed by Romanian Orthodox Churches**

Marius Mosoarca, Victor Gioncu[†], Anthimos Anastasiadis, Cristian Petrus, "Seismic Failure Modes Developed by Romanian Orthodox Churches", PROHITECH'14 - Proceedings of 2nd International conference on Protection of Historical Constructions, Ed.: F.M. Mazzolani, G. Altay, ISBN: 978-975-518-361-9, pp.837-842, Antalya, Turcia, 7-9 mai 2014

[2014] **Seismic Vulnerability Assessment of Historical Masonry Complex Buildings of Banat Region, Romania**

Marius Mosoarca, Ioan Andreescu, "Seismic Vulnerability Assessment of Historical Masonry Complex Buildings of Banat Region, Romania", PROHITECH'14 – Conf. proceedings of 2nd International conference on Protection of Historical Constructions, Ed.: F.M. Mazzolani, G. Altay, ISBN: 978-975-518-361-9, pp. 846-849, Antalya, Turcia, 7-9 mai 2014

[2014] **Cyclic and Strain Rate Local**

A.S. Anastasiadis, **Mosoarca Marius**, F.M. Mazzolani, "Cyclic and Strain Rate Local", Proc. 7th European Conference on Steel and Composite Structures, EuroSteel 2014, pp. 599-600 – Abstract volume, ISBN: 978-92-9147-121-8, Napoli, Italia, 10-12 septembrie 2014

[2014] **Seismic risk of buildings with RC frames and masonry infills from Timisoara, Banat Region, Romania**

Mosoarca Marius, Petrus Cristian, Stoian Valeriu, Anthimos Anastasiadis, "Seismic risk of buildings with RC frames and masonry infills from Timisoara, Banat Region, Romania: Proc. 9th International Masonry pp: 512, Paper ID MIE6, ISBN 978-972-8692-85-8, Conference in Guimaraes, Portugal, 2014

- [2014] **Cyclic in-plane experimental tests for evaluation of shear capacity of brick masonry walls**
- Partene Eva, Stoian Valeriu, **Mosoarca Marius**, Fekete-Nagy Luminita, "Cyclic in-plane experimental tests for evaluation of shear capacity of brick masonry walls", Proc. 9th International Masonry, Paper ID 1621 pp. 395, ISBN 978-972-8692-85-8, Conference in Guimaraes, Portugal, 2014
- [2014] **Structural analysis of synagogues from Timisoara, Romania**
- Mosoarca Marius**, Anastasiadis Anthimos, Petrus Cristian, "Structural analysis of synagogues from Timisoara, Romania", Proc. 9th International Conference on Structural Analysis of historical Constructions, SAHC 2014, Program & abstracts, ISBN: 04-2014-102011495500-102, pp. 120, Mexico City, Mexic, 15-17 Octombrie 2014
- [2013] **Historic bearing structures. Synagogues in Timisoara. Structural degradation**
- Mosoarca Marius**, Victor Gioncu, "Historic bearing structures. Synagogues in Timisoara. Structural degradation", in Conf. proc. 6th International Congress on "Science and technology for the safeguard of cultural heritage in the Mediterranean Basin", ISBN: 978-88-97987-01-7, pp. 70, Atena, Grecia, 22-25 octombrie 2013
- [2013] **Reinforcement of historic multi storey bearing structures with braced metal tubes**
- Mosoarca Marius**, "Reinforcement of historic multi storey bearing structures with braced metal tubes", Congress on "Science and technology for the safeguard of cultural heritage in the Mediterranean Basin", ISBN: 978-88-97987-01-7, pp.71, Atena, Grecia, 22-25 octombrie 2013
- [2013] **New factors influencing the failure mechanisms of reinforced concrete buildings located in seismic areas**
- Mosoarca Marius**, Anthimos Anastasiadis, "New factors influencing the failure mechanisms of reinforced concrete buildings located in seismic areas", International Van earthquake symposium, Paper ID:110, pp. 88, Van, Turcia, 2013
- [2013] **Considerations on local ductility of steel framed structures under seismic actions**
- Anthimos Anastasiadis, **Mosoarca Marius**, Considerations on local ductility of steel framed structures under seismic actions, 2013 International Van earthquake symposium, Paper ID:37, pp. 45, Van, Turcia, 23 – 27 octombrie 2013
- [2012] **Seismic Behaviour of Romanian Orthodox Churches. Modeling by Rigid Blocks**
- Mosoarca Marius**, Gioncu V., Cosma O., "Seismic Behaviour of Romanian Orthodox Churches. Modeling by Rigid Blocks", in Conf. proceedings: International Conference on Modeling and Simulation ICMS 2012, - World Academy of Science and Technology, Issue 61, pp. 678-686, pISSN 2010-376x ; eISSN 2010-3778, 15-17 ianuarie, Zurich, Elvetia, 2012
- [2012] **Modelling by theoretical and Experimental Analysis of RC Shear Walls with Staggered Openings Subjected to Seismic Actions. Reduction of rigidity**
- Mosoarca Marius**, Stoian V., "Modelling by theoretical and Experimental Analysis of RC Shear Walls with Staggered Openings Subjected to Seismic Actions. Reduction of rigidity", International Conference on Modeling and Simulation ICMS 2012, World Academy of Science and Technology, Issue 61, pp. 687-697, pISSN 2010-376x ; eISSN 2010-3778, 2012, Zurich, Elvetia, 2012

- [2012] **Failure Modeling using Simplified Computational Methods of RC Shear Walls with Staggered Openings Subjected to Seismic Actions**
- Mosoarca Marius**, "Failure Modeling using Simplified Computational Methods of RC Shear Walls with Staggered Openings Subjected to Seismic Actions", International Conference on Modeling and Simulation ICMS 2012, - World Academy of Science and Technology, Issue 61 pp. 970-978, pISSN 2101-376x; eISSN 2101-3778, , Zurich, Elvetia, 15-17 ianuarie, 2012
- [2011] **Local ductility of rolled steel beams**
- Anthimos Anastasiadis, **Marius Mosoarca**, Victor Gioncu, "Local ductility of rolled steel beams", pp. 1185-1190, EUROSTEEL 2011, Conf. proceedings : 6th European Conference on Steel and Composite Structures, Volum B, ISBN: 978-92-9147-103-4 Budapest, Hungary, 31 august – 2 septembrie, 2011
- [2008] **Behaviour and restauration of historical houses in areas with moderate earthquakes**
- Victor Gioncu, **Marius Mosoarca**, Niculescu Marius, "Behaviour and restauration of historical houses in areas with moderate earthquakes", in Conf. proceedings.: "Seismic risk. Earthquakes in North-Western Europe", pg.175-182, Les Editions de l'Universite de Liege, ISBN 978-2-87456-063-7, Liege, Belgia, 2008
- [2007] **Research Results on RC Walls and Dapped Beam Ends Strengthened with FRP Composites**
- Nagy-Gyorgy T., Stoian V., Dan D., Daescu C., Diaconu D., **Mosoarca Marius**, "Research Results on RC Walls and Dapped Beam Ends Strengthened with FRP Composites", Proc. of the 8th Int. Symposium on Fiber Reinforced Polymer Reinforcement for Concrete Structures: FRPRCS-8, Patras, Grecia, 2007
- [2007] **Rövididejű, törésközeli felszínmozgás hatása acél keretszerkezetre**
- J. Gyorgyi, Victor Gioncu, **Marius Mosoarca**, "Rövididejű, törésközeli felszínmozgás hatása acél keretszerkezetre", Proc. Conference on earthquake safety in Hungary, pp. 85-106, ISBN 978-963-7175-33-6; Győr 2007
- [2007] **Investigations of Historical Spatial Buildings Behaviour**
- Mosoarca Marius**, Gioncu Victor, "Investigations of Historical Spatial Buildings Behaviour" ID156, T5, Proc. Conference Proceedings IASS Venetia, Shell and Spatial Structures: Structural Architecture – Towards the future looking to the past, 3-6 dec., Venetia, Italia 2007
- [2006] **Polymeric composites for seismic rehabilitations-studies and research**
- Stoian V., Nagy-Gyorgy T., Daescu C., Dan D. , **Mosoarca Marius**, Diaconu D., "Polymeric composites for seismic rehabilitations-studies and research", Proc. of the 4th International Scientific Meeting- INDIS 2006, ISBN 86-7892-016-5, Novi Sad, Serbia, 2006
- [2005] **Retrofit of Reinforced Concrete Shear Walls with CFRP Composites**
- Tamas Nagy-Gyorgy, **Marius Mosoarca**, Valeriu Stoian, Janos Gergely, Daniel Dan, "Retrofit of Reinforced Concrete Shear Walls with CFRP Composites", Proc. Symposium "Keep Concrete Attractive", ISBN 963 420 838 X, Budapest, 2005

[2005] **Design Aspects of Reduced Beam Sections for IPE and HEA European Profiles**

Anastasiadis Anthimos, Gioncu Victor, **Mosoarca Marius**, "Design Aspects of Reduced Beam Sections for IPE and HEA European Profiles", Proc. 5th National Conference on Metal Structures, 29 septembrie -2 octombrie, 2005

[2005] **Dynamic modelling of historical buildings**

Gioncu Victor, **Mosoarca Marius**, Anastasiadis Anthimos, "Dynamic modelling of historical buildings", in "4rd International Conference of New Trends in Statics and Dynamics of Buildings, pp.281-285, Conference proceeding, Slovak University, ISBN 80-227-2277-4, 20-21 octombrie, Bratislava, 2005

[2004] **Stability problems for columns in one storied industrial hall**

Naghiu Adrian, Florin Cioboiu, **Mosoarca Marius**, Gioncu Victor, "Stability problems for columns in one storied industrial hall", Conference proceeding in "3rd International Conference of New Trends in Statics and Dynamics of Buildings, pp.343-346, Slovak University, ISBN 80-227-2116-6, 21-22 octombrie, Bratislava, Slovakia, 2004

[2004] **Stability design of steel trusses**

Lengyel Tibor, **Mosoarca Marius**, Gioncu Victor, "Stability design of steel trusses" in "3rd International Conference of New Trends in Statics and Dynamics of Buildings", pp. 309-312, Conference proceeding, Slovak University, ISBN 80-227-2116-6, Bratislava, 2004

[2004] **Behaviour of RC shears walls with staggered openings in seismic zones**

Mosoarca Marius, Anastasiadis Anthimos, "Behaviour of RC shears walls with staggered openings in seismic zones" in "3rd International Conference of New Trends in Statics and Dynamics of Buildings", pp. 321-325, Conference proceeding, Slovak University, ISBN 80-227-2116-6, Bratislava, 2004

[2002] **Serviceability limit state for seismic design**

Truta Mihnea, **Mosoarca Marius**, Gioncu Victor, International Conference New Trends in Statics and Dynamics of Buildings, "Serviceability limit state for seismic design", pp. 213-217, Conference proceeding, Slovak University, ISBN 80-227-1790-8 Bratislava, octombrie 2002

[2002] **Design methodology of steel structures based on multi-level states**

Truta Mihnea, **Marius Mosoarca**, Gioncu Victor, "Design methodology of steel structures based on multi-level states", in Proc. "4th National Conference on Steel Structures", pp. 359-366, vol.II, ISBN 960-7620-25-9, Patras, Grecia, 2002

**ALTE ARTICOLE (REVISTE
DE SPECIALITATE DIN
STRAINANTATE NEINDE-
XATE)**

[2012] **Seismic Behaviour of Romanian Orthodox Churches, Modeling of Failure Modes by Rigid Blocks**

Mosoarca Marius, Victor Gioncu, Ovidiu Cosma, "Seismic Behaviour of Romanian Orthodox Churches, Modeling of Failure Modes by Rigid Blocks", International Journal of Civil and Geological Engineering, Issue 6, pp:240-247; <http://waset.org/journals/ijcge/v6/v6-38.pdf>, 2012

Roofing with metallic constructions

Anastasiadis Anthimos, **Mosoarca Marius**, "Roofing with metallic constructions", *ΥΛΗ κτιριο*, ΠΕΡΙΟΔΙΚΟ ΑΡΧΙΤΕΚΤΟΝΙΚΗΣ-ΤΕΧΝΟΛΟΓΙΑΣ, ISSN 1109-0189, pp:123-132, Grecia, 2002

[2003] Prefabrication - applications on industrial buildings

Anastasiadis Anthimos, **Mosoarca Marius**, "Prefabrication - applications on industrial buildings", revista: *ΥΛΗ κτιριο*, ΠΕΡΙΟΔΙΚΟ ΑΡΧΙΤΕΚΤΟΝΙΚΗΣ-ΤΕΧΝΟΛΟΓΙΑΣ, ISSN 1109-0189, pp:109-119, Grecia, 2003

ALTE ARTICOLE (REVISTE DE SPECIALITATE NATIONALE NEINDEXATE)

[2018] Seismic vulnerability assessment for historical building as isolate/ in aggregate for Timisoara city, Romania

Iasmina Apostol, **Marius Mosoarca**, Eugen Onescu, "Seismic vulnerability assessment for historical building as isolate/ in aggregate for Timisoara city, Romania", *Journal of Architecture, Urbanism and Heritage*, vol. 2, pp. 55-62, 2018

[2018] Assessment methodology for historic timber roof structures

Alexandra Keller, **Marius Moșoarca**, "Assessment methodology for historic timber roof structures", *Journal of Architecture, Urbanism and Heritage*, vol. 2, pp. 41-46, 2018

[2015] Reinforced Concrete Frames with Masonry Infills. Out of Plane Experimental Investigation

Cristian Petrus, Valeriu Stoian, **Marius Mosoarca**, Anthimos Anastasiadis, "Reinforced Concrete Frames with Masonry Infills. Out of Plane Experimental Investigation", *Acta Technica Napocensis: Civil Engineering & Architecture*, Vol. 58, No. 3, 2015

[2014] Reinforced concrete frames with masonry infills. Damages and consolidation measures

Petrus Cristian, Valeriu Stoian, **Mosoarca Marius**, Anastasiadis Anthimos, "Reinforced concrete frames with masonry infills. Damages and consolidation measures", *CePhD 2014 – 2nd International Conference for PhD Students in Civil Engineering and Architecture*, paper ID: 743, Cluj-Napoca, Romania, 10-13 dec. 2014

[2013] Working in the Attic. Complex Restoration and Reconversion of an Historic Attic Structure in Timisoara, Romania

Vlad Gaivoronschi, Ioan Andreescu, **Mosoarca Marius**, "Working in the Attic. Complex Restoration and Reconversion of an Historic Attic Structure in Timisoara, Romania", *C60 International Conference, "Tradition and Inovation – 60 Years of Civil Engineering Higher Education in Transilvania"*, pp. 287,288, ISBN: 978-973-662-903-7, Cluj-Napoca, 7-9 noiembrie 2013

[2012] Ductility aspects of steel beams

Marius Mosoarca, Victor Gioncu, "Ductility aspects of steel beams", *Acta Technica Napocensis: Civil Engineering&Architecture*, U.T. Cluj-Napoca, vol.55, nr.1, 2012

- [2012] **Seismic energy dissipation in structural reinforced concrete walls with staggered openings**
- Mosoarca Marius**, Valeriu Stoian, "Seismic energy dissipation in structural reinforced concrete walls with staggered openings", Journal of applied engineering sciences (JAES), Vol.2(15) Issue 1/2012, pp. 65-72, revista de categoria B+, indexat BDI – Copernicus, mai, 2012
- [2012] **The valorisation of historical sites through architectural interventions**
- Narita Alina-Maria, **Mosoarca Marius**, "The valorisation of historical sites through architectural interventions", Journal of applied engineering sciences, Vol. 2(15), issue 2, ISSN 2247- 3769 ISSN-L 2247- 3769 (Print) / e-ISSN: 2284-7197, pp. 69-76, Oradea, 2012
- [2012] **Bisericile de lemn monument istoric din Banat. Degradari structurale. Solutii de consolidare**
- Marius Mosoarca**, Victor Gioncu, "Bisericile de lemn monument istoric din Banat. Degradari structurale. Solutii de consolidare", revista "Transsylvania Nostra", nr.4, ISSN 1842-5631, Cluj-Napoca, vol.55, nr.1, 2012
- [2011] **Banat-Romania Industrial past sustainable, environmetaly friendly and profitable future**
- Boltres Cristian, **Mosoarca Marius**, "Banat-Romania Industrial past sustainable, environmetaly friendly and profitable future", pp. 242, in Proc. International UAB BENA Conference, Environmental Engineering and sustainable development, Editura Aeternitas, ISBN: 978-606-613-002-8, Alba-Iulia, Romania, 26-27 mai, 2011
- [2011] **Ecologic methods of restauration of historical churches**
- Cosma Ovidiu, **Mosoarca Marius**, "Ecologic methods of restauration of historical churches", pp. 247, International UAB BENA Conference, Environmental Engineering and sustainable development, Ed. Aeternitas, ISBN:978-606-613-002-8, Alba-Iulia, Romania, 26-27 mai, 2011
- [2011] **Sustainable restauration of historical churches**
- Cosma Ovidiu, **Mosoarca Marius**, "Sustainable restauration of historical churches", pp. 246, International UAB BENA Conference, Environmental Engineering and sustainable development, Ed. Aeternitas, ISBN: 978-606-613-002-8, Alba-Iulia, Romania, 26-27 mai, 2011
- [2011] **Ecological bearing structures. Historical wooden churches of Banat environmentally friendly restauration. Methods of wooden churches in Banat**
- Voicu Fodor, **Mosoarca Marius**, "Echological bearing structures. Historical wooden churches of Banat environmentally friendly restauration. Methods of wooden churches in Banat", pp. 248, International UAB BENA Conference, Environmental Engineering and sustainable development, Ed. Aeternitas, ISBN:978-606-613-002-8, Alba-Iulia, Romania, 26-27 mai, 2011
- [2011] **A grid for an atrium roof", Proceedings of 6th International Conference on Thin Walled Structures. Recent research advances and trends**
- Victor Gioncu, **Mosoarca Marius**, "A grid for an atrium roof", Proceedings of 6th International Conference on Thin Walled Structures. Recent research advances and trends", Vol. 2, pp. 905-912, Ed. ECCS – European Convention for Constructional Steelwork, ISBN: 978-92-9147-102-7, Timisoara, 2011

[2010] **Seismic Behaviour of religious historical buildings on domes and pendentives**

Mosoarca Marius, Victor Gioncu, Ovidiu Cosma, "Seismic Behaviour of religious historical buildings on domes and pendentives", pp.43-52, Buletinul Stiintific al Universitatii Politehnica din Timisoara, Seria Constructii-Aritectura, Tomul 55(69), Fascicola 1, ISSN: 1224-6026, Editura Politehnica, 2010

[2010] **Complexul de birouri City Business Centre**

Victor Gioncu, **Mosoarca Marius**, Alina Brateanu, "Complexul de birouri City Business Centre" Timisoara", pp. 251-262, Realizari si preocupari actuale in ingineria constructiilor metalice, Lucrarile celei de-a 12-a Conferinta Nationale de Constructii Metalice, Editura Orizonturi Universitare Timisoara, ISBN: 978-973-638-464-6, Timisoara, 26-27 noiembrie 2010

[2009] **The risk and vulnerability of the hydrotechnical arrangement Bega Timisoara**

Hetes Dorel, David Ioan, **Mosoarca Marius**, "The risk and vulnerability of the hydrotechnical arrangement Bega Timisoara", The 33-th Annual Congress of the American Romanian Academy of Arts and Sciences, Sibiu, 2-7 iunie 2009, Ed. Polytechnic International Press Montreal, Quebec Canada, pp. 93-96, Vol II, 2009

[2008] **City Business Centre Timisoara**

Gioncu Victor, **Mosoarca Marius**, Brateanu Alina "City Business Centre Timisoara" Premiul III, Buletin AICPS, nr.1-2/2008, pp.1-6, ISSN:1454-928x, Bucuresti, Romania, 2008

[2008] **Methods for structural analysis of historical buildings", Civil Engineering Proceeding of the International Conference Constructions 2008**

Gioncu Victor, **Mosoarca Marius**, "Methods for structural analysis of historical buildings", Civil Engineering Proceeding of the International Conference Constructions 2008, "Methods for Structural Analysis of Historical Buildings", Acta Technica Napocensis, Section Civil Engineering-Architecture, pp. 137-144, Vol III, 2008, ISSN 1221-5848, Cluj-Napoca, 9-10 mai 2008

[2007] **Pereti din beton armat si capete de grinzi consolidate cu materiale composite-rezultatele incercarilor**

Nagy-Gyorgy T., Stoian V., Diaconu D., Daescu C., Dan D., Sas G., **Mosoarca Marius**, "Pereti din beton armat si capete de grinzi consolidate cu materiale composite-rezultatele incercarilor", Buletin AICPS, nr.1/2007

[2007] **Seismic retrofit of masonry and rc elements with FRP composites-research and applications**

Nagy-Gyorgy T., Stoian V., Dan D., Daescu C., Diaconu D., **Mosoarca Marius**, "Seismic retrofit of masonry and rc elements with FRP composites-research and applications", ISSR07, Bucuresti, 2007

[2007] **Comportarea seismica a cladirilor istorice de locuit**

Gioncu Victor, **Mosoarca Marius**, Niculescu Marius, Cioboiu Florin " Comportarea seismica a cladirilor istorice de locuit", pp. 213-218, Zilele Academiei Timisene, Editia a X-a, Simpozion International "Composite Materials, elements and structures for construction", Ed. Politehnica, ISSN 1843-0910, Timisoara, 24-25 mai 2007

- [2007] **Structuri prefabricate din beton in zone seismice: analiza avariilor produse**
Gioncu Victor, **Mosoarca Marius**, Anastasiadis Anthimos, "Structuri prefabricate din beton in zone seismice: analiza avariilor produse", pp 39-52, Societatea pentru beton si prefabricate din Romania, Conferinta: Structuri prefabricate din beton in centrul si estul Europei, ISBN 978-973-662-329-5, Cluj Napoca, 8-9 noiembrie 2007
- [2006] **Consolidarea peretilor din beton armat cu materiale composite**
Nagy-Gyorgy T., **Mosoarca Marius**, Stoian V., Dan D., "Consolidarea peretilor din beton armat cu materiale composite", Simpozion AICPS, Bucuresti 2005, Buletin AICPS 3/2006
- [2005] **Calculul peretilor din beton armat consolidate cu composite**
Nagy-Gyorgy T., Stoian V., **Mosoarca Marius**, Gergely J., Dan D., "Calculul peretilor din beton armat consolidate cu composite", Zilele Academiei Timisene, pp. 427-432, ISBN 973-661-652-5, Timisoara, 2005
- [2005] **Composite polimerice pentru reabilitari seismice-studii si cercetari**
Stoian V., Nagy-Gyorgy T., Daescu C., Dan D., **Mosoarca Marius**, Diaconu D., Sas D., "Composite polimerice pentru reabilitari seismice-studii si cercetari", Conferinta Nationala de Inginerie Seismica III, Bucuresti, 2005
- [2005] **Solutii de consolidare cu fibre de carbon a structurilor din beton armat situate in zone seismice si puternic degradate in procesul de exploatare**
Gioncu Victor, **Mosoarca Marius**, Palade Cristian, "Solutii de consolidare cu fibre de carbon a structurilor din beton armat situate in zone seismice si puternic degradate in procesul de exploatare", Zilele academice timisene, "Lucrarile simpozionului international – Materiale, elemente si structuri composite pentru constructii" Editia a IX-a, pp. 405-410, Ed. Mirton 2005, ISBN 973-661-65-5, 26-27 mai Timisoara, 2005
- [2004] **Multi Level Earhquake Design of Steel Frames: a Designers' View**
Anastasiadis Anthimos, **Mosoarca Marius**, " Multi Level Earhquake Design of Steel Frames: a Designers' View", Recent Advances and New Trends in Structural Design, Colloquium dedicated to the 70th anniversary of Prof. Victor Gioncu, pp. 307-315, ISBN: 973-638-119-6, Timisoara, 7-8 mai 2004
- [2004] **Experimental Studies on Structural Elements**
Stoian V., Dan D., **Mosoarca Marius**, Nagy-Gyorgy T., "Experimental Studies on Structural Elements", Recent Advances and New Trends in Structural Design, Victor Gioncu Aniversary Colloquium, pp. 283-294, ISBN: 973-638-119-6, Timisoara, 2004
- [2003] **Pereti structurali din beton armat consolidati cu composite - Primele incercari experimentale**
Nagy-Gyorgy T., Stoian V., **Mosoarca Marius**, Dan D., " Pereti structurali din beton armat consolidati cu composite - Primele incercari experimentale", Zilele Academice Timisene, Timisoara, 2003
- [2003] **Incerari experimentale realizate pe pereti structurali din beton armat cu goluri decalate**
Mosoarca Marius, Stoian Valeriu, "Incerari experimentale realizate pe pereti structurali din beton armat cu goluri decalate", Zilele Academice Timisene, pp. 157-163, ISBN: 973-661-012-8, 2003

- [2002] **Nonlinear Analysis of Seismic Behavior of R.C. Shear Walls with Straggered Openings**
- Mosoarca Marius**, Stoian Valeriu, Truta Mihnea, "Nonlinear Analysis of Seismic Behavior of R.C. Shear Walls with Straggered Openings", pp.120-126, Ovidius University Annals of Constructions, Vol. 1, Number 3, ISSN:12223-7221, 2002
- [2002] **Seismic Behavior of Steel Structures for serviceability Limit State**
- Truta Mihnea, **Mosoarca Marius**, Victor Gioncu, "Seismic Behavior of Steel Structures for serviceability Limit State" pp. 177-182, Ovidius University Annals of Constructions, Vol. 1, Nr 3, ISSN12223-7221, Constanta, 2002
- [2001] **Analiza seismica a cladirilor monument istoric cu ajutorul M.E.F.**
- Mosoarca Marius**, Truta Mihnea, Gioncu Victor "Analiza seismica a cladirilor monument istoric cu ajutorul M.E.F." pp. 177-182, Editura "Academica Brincusi", Sectia 1, ISBN 973-85342-1-6, 2001
- [2001] **Metodologia de proiectare antiseismica bazata pe nivele multiple**
- Truta Mihnea, **Mosoarca Marius**, Gioncu Victor "Metodologia de proiectare antiseismica bazata pe nivele multiple" pp. 183-188, Editura "Academica Brincusi", Sectia 1, ISBN 973-85342-1-6, 2001
- [2001] **Influenta golurilor asupra comportarii sesmice a peretilor structurali din beton armat**
- Mosoarca Marius**, Truta Mihnea, Gioncu Victor "Influenta golurilor asupra comportarii sesmice a peretilor structurali din beton armat" pp. 195-200, Ed. "Academica Brincusi", Sectia 1, ISBN 973-85342-1-6, 2001
- [2001] **Consolidarea Manastirii Sf.Gheorghe Birda-Jud.Timis**
- Lazea Lucian, **Mosoarca Marius**, Gioncu Victor, , "Consolidarea Manastirii Sf.Gheorghe Birda-Jud.Timis" "Zilele Academiei Timisene, Editia a VIII-a, Simpozion "Materiale, elemente si structuri composite/compuse pentru constructii", Ed. Mirton, Timisoara, 24-25 mai, 2001
- [2001] **Comportarea diaframelor cu goluri decalate la actiuni seismice**
- Mosoarca Marius**, Stoian Valeriu, "Comportarea diaframelor cu goluri decalate la actiuni seismice"; Zilele Academiei Timisene, Editia a VII-a, Simpozion "Materiale, elemente si structuri composite/compuse pentru constructii", Ed. Mirton,, Timisoara, 24-25 mai, 2001
- [2000] **Slim floor with ceramics or concrete blocks for steel structures**
- Mosoarca Marius**, Lazea Lucian, Gioncu Victor, "Slim floor with ceramics or concrete blocks for steel structures", pp. 593-598, The 9-th International Conference on Metal Structures, Ed. Orizonturi Universitare Timisoara, ISBN:973-8109-17-5, Timisoara, 2000
- [2000] **Sistem mixt de fundare pe piloti perimetrali si radier general**
- Marin Marin, **Mosoarca Marius**, "Sistem mixt de fundare pe piloti perimetrali si radier general"; a XI-A Conferinta Nationala de geotehnica si fundatii, pp.214-222, Cluj-Napoca, 27-29 septembrie 2000

[2000]

Aspecte privind consolidarea fundatiilor pe piloti prefabricati la o constructie in cadre din beton armat

Marin Marin, Pantea Petru, **Mosoarca Marius**, "Aspecte privind consolidarea fundatiilor pe piloti prefabricati la o constructie in cadre din beton armat"; a XI-A Conferinta Nationala de geotehnica si fundatii, pp. 203-213, Cluj-Napoca, 27-29 septembrie 2000

CONTRACTE DE CERCETARE

[În curs]

6 contracte de cercetare nationale

- Contract de cercetare CNCSIS-GRANT TIP A Contract 33501/2002 - Tema 48, Cod CNCSIS 117 "Noi metode in proiectarea elementelor structurale din beton-armat" Beneficiar- Ministerul Educatiei, Cercetarii si Tineretului, Consiliul National al Cercetarii Stiintifice din Invatamantul Superior, cercetare in cadrul Universitatea "Politehnica" Timisoara, Facultatea de Constructii si Arhitectura, Departamentul C.C.I.A., Ianuarie 2004
- Contract de cercetare CNCSIS-GRANT TIP A Contract 33550/2003-Tema 30-COD CNCSIS 31 - "Noi metode in proiectarea elementelor structurale din beton-armat.Cercetari experimentale." Beneficiar- Ministerul Educatiei, Cercetarii si Tineretului, Consiliul National al Cercetarii Stiintifice din Invatamantul Superior, cercetare in cadrul Universitatea "Politehnica" Timisoara, Facultatea de Constructii si Arhitectura, Departamentul C.C.I.A., Ianuarie 2004
- Contracte de cercetare CNCSIS-GRANT TIP A Contract 40535/2003 - Tema 4, Cod CNCSIS 489 : "Metode alternative de proiectare a elementelor structurale din beton armat. Cercetari teoretice. Raport final de cercetare" Beneficiar- Ministerul Educatiei, Cercetarii si Tineretului, Consiliul National al Cercetarii Stiintifice din Invatamantul Superior, cercetare in cadrul Universitatea "Politehnica" Timisoara, Facultatea de Constructii si Arhitectura, Departamentul C.C.I.A., Martie 2005
- Contract 32940/2004-Tema 4-COD CNCSIS 489- "Raport final de cercetare" Beneficiar-Ministerul Educatiei, Cercetarii si Tineretului, Consiliul National al Cercetarii Stiintifice din Invatamantul Superior, cercetare in cadrul Universitatea "Politehnica" Timisoara, Facultatea de Constructii si Arhitectura, Departamentul C.C.I.A., Martie 2005
- Contract nr. 658/11.06.2001 ANSTI 1A25/2001 - Contract "Protectia antiseismica a structurilor de constructii - Metode moderne pentru marirea ductilitatii structurilor metalice", faza A25.1 - Metode practice de verificare a ductilitatii structurilor metalice in zone cu seisme de suprafat. Beneficiar: INCERC Timisoara, 2001
- Contract nr. BC 92/13.09.2011, no.4423, „Expertiza tehnica, proiect de instalatii, consultanta de proiectare pentru structura istorica si vulnerabilitatea cladirii Palatul Administrativ Ciacova, Piata Cetatii nr.2, Judetul Timis, Romania”, contract intre Universitatea Politehnica Timisoara, si Primaria Orasului Ciacova, Judetul Timis, Romania

1 contract de proiectare - dezvoltare

- director responsabil de contract pentru Romania: 3
 - COST Action CA2013-2 "Holistic design of taller timber buildings" 2021 - prezent
 - INSYSME - „Inovative systems for earthquake resistant masonry enclosures in RC buildings”, Grant nr.: 606229, FP7-SME-2013, - director coordonator contract de cercetare pentru Roamania, 2013-2016
 - FP COST Action FP1101, "Assessment, Reinforcement and Monitoring of Timber Structures in the Management Committee Member"- director coordinator contract pentru Romania, 2014
- membru in echipa de cercetare: 2

- PROHITECH-W.P. 9 Development of Calculation Models, Prohitech – Earthquake Protection of Historical Buildings by Reversible Mixed Technologies – membru in echipa de cercetare
- CAMUS III INTERNATIONAL BENCHMARK, TMR-ECOEST2 and ICONS Post-FramCoS-4 Workshop “ Seismic loading effect on structural walls” American Concrete Institut ACI, 2001 – membru in echipa de cercetare

5 contracte de cercetare internationale

COMPETENȚE DE COMUNICARE ȘI INTERPERSONALE

Bune competențe de comunicare dobândite prin:

- experiența de predare si comunicare cu studentii din Universitati din Europa la nivel de licenta, master, scoala doctorala
- participari la conferinte nationale si internationale si alte intalniri cu teme stiintifice;
- colaborari cu diversi parteneri nationali si internationali din proiectare si cercetare stiintifica

Timisoara la 10.12.2025

