



## Marius Mosoarca

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### ● INFORMAȚII SUPLIMENTARE

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#### ARTICOLE IN JURNALE INDEXATE WEB OF SCIENCE

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.

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**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.

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**Seismic risk assessment and crisis management for historical buildings in Timisoara**

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

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**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.

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**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

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**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

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**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

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**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, 2019.

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**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

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### **Resilience of historic cities and adaptation to climate change**

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

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### **Failure analysis of historical buildings due to climate change**

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**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

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### **Are free form architectures ecological buildings?**

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**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

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### **Investigation of the cyclic inelastic capacity of steel beams through the use of the plastic collapse mechanism**

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### **Failure mechanisms for historical religious buildings in Romanian seismic areas**

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**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

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### **Environmental impact assessment and evaluation of road construction works in forest ecosystems**

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

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**Seismic Analysis and Retrofitting of Civil Engineering Structures**

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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

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

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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.

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

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

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

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**Seismic Vulnerability Assessment of Historical Group of Buildings in Timisoara City**

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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

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**Solutions for improving seismic vulnerability of historic masonry buildings**

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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

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

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

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

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

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**Strengthening of building by modification of structural system**

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

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

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

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