Title	Authors	Journal/Conference	Details	DOI	Available at
Comparison of Seismic and Structural Parameters of Settlements in the East Anatolian Fault Zone in Light of the 6 February Kahramanmaraş Earthquakes	Işık, Ercan; Hadzima- Nyarko, Marijana; Avcil, Fatih; Büyüksaraç, Aydin; Arkan, Enes; Alkan, Hamdi; Harirchian, Ehsan	Infrastructures	Vol. 9, Issue 12, Article 219, 2024	10.3390/infrastructures9120219	https://www.mdpi.com/2412-3811/9/12/219
Study on Effectiveness of Regional Risk Prioritisation in Reinforced Concrete Structures after Earthquakes	Işık, Ercan; Hadzima- Nyarko, Marijana; Radu, Dorin; Bulajić, Borko	Applied Sciences	Vol. 14, Issue 16, Article 6992, 2024	10.3390/app14166992	https://www.mdpi.com/2076-3417/14/16/6992
Seismic Performance and Failure Mechanisms of Reinforced Concrete Structures Subject to the Earthquakes in Türkiye	Işık, Ercan; Avcil, Fatih; Hadzima-Nyarko, Marijana; İzol, Rabia; Büyüksaraç, Aydin; Arkan, Enes; Radu, Dorin; Özcan, Zeki	Sustainability	Vol. 16, Issue 15, Article 6473, 2024	10.3390/su16156473	https://www.mdpi.com/2071-1050/16/15/6473
Smart optimization of packing density for cleaner production of cementitious composites using mineral powders	Adrian Chajec; Sławomir Cza rnecki; Łukasz Sadowski	Developments in the Built Environment	Vol. 19, Article 100532, October 2024	10.1016/j.dibe.2024.10 0532	https://doi.org/10.1016/j.dibe.2024.100532
Identification of Selected Physical and Mechanical Properties of Cement Composites Modified with Granite Powder Using Neural Networks	Sławomir Czarnecki	Materials	Vol. 18(16), Article 3838, 2025	10.3390/ma18163838	https://www.mdpi.com/1996-1944/18/16/38 38
Risk Prioritization of RC Buildings in Bitlis (Türkiye) in the Light of the 2023 Kahramanmaraş Earthquakes	Ercan IŞIK; Mert Hamamcıoğlu	Buildings	2025, 15(19), 3552;	https://doi.org/10.3390/buildings151935 52	https://www.mdpi .com/2075-5309/15/19/3552
Parameters in the rapid evaluation method in reinforced-concrete structures in the light of the 2023 Kahramanmaraş earthquakes	Ercan IŞIK	Earthquakes and Structures	Volume 29, Number 4, October 2025 , pages 269-283	https://doi.org/10.12989/eas.2025.29.4.269	https://www.techno-press.org/content/ ?page=article&journal=eas&volume=29&num=4&or dernum=3
A STUDY ON STRENGTHEN ING RC STRUCTURAL ELEMENTS WITH FIBERS- BASED POLYMERS	Işık, Ercan	Bitlis Eren Üniversitesi Fen Bilimleri Dergisi	Vol. 14, Issue 2, Article, 1269-1286 June-2025	https://doi.org/10.17798/bitlisfen.1675489	https://dergipark.org.tr/en/pub/bitlisfen/issue/92629/ 1675489
Numerical Analysis of Structural Behavior and Damage Mechanisms in Shear-Deficient Reinforced Concrete Columns Retrofitted with RC Jacketing	Avcil, F., Bilgin, H., Arkan, E., Işık, E.	Türk Doğa ve Fen Dergisi	Vol. 14, Issue 2, Article, 150-161 June-2025	https://doi.org/10.46810/tdfd.1607611	https://dergipark.org.tr/tr/pub/tdfd/issue/92961/1607611
Comparison of reinforcement methods with advanced materials for r/c columns	Işık, E., Hadzima-Nyarko, Marijana; Bassam A. Tayeh; Zouaoui Rabie Harrat; Fatih Avcil; Enes Arkan	Advanced Engineering Letters	Vol. 4, Issue 1, Article, 1- 13 March-2025	https://doi.org/10.46793/adeletters.2025.4.1.1	https://www.adele tters.com/no-1-1- 2025/
Failures in Reinforced-Concrete Columns and Proposals for Reinforcement Solutions: Insights from the 2023 Kahramanmaraş Earthquakes	Işık E, Radu D, Harirchian E, Avcil F, Arkan E, Büyüksaraç A, Hadzima-Nyarko M.	Buildings	Vol. 15, Issue 9, Article, 1535 April-2025	https://doi.org/10.3390/buildings15091535	https://www.mdpi .com/2075-5309/15/9/1535
Seismic Performanc e	Avcil, Fatih; Işık, Ercan; Arkan, Enes;	33rd International	pp. 419-438, 2024,	10.1007/978-3- 031-80597-4_33	https://link.spri

of RC Structures in Pazarcık and Elbistan During the 2023 Kahraman maraş Earthquake s	İzol, Rabia; Büyüksaraç, Aydin; Aydın, Mcihan; Ulu, Ali Emre	Conference on Organization and Technology of Maintenance (OTO 2024)	Cham: Springer Nature Switzerland		nger.com/chapter/10.1007/978-3- 031-80597-4_33
Spectral Characteris tics of Strong Ground Motion Time Series for Low to Medium Seismicity Regions with Deep Soil Atop Deep Geological Sediments	Lozančić, Silva; Bulajić, Borko Đ.; Pavić, Gordana; Bulajić, Ivana; Hadzima-Nyarko, Marijana	Engineering Proceedings	Vol. 68, No. 1, Article 32, 2024	10.3390/engproc20 24068032	https://www.mdpi.com/26 73-4591/68/1/32
Prediction of the Characteris tics of Concrete Containing Crushed Brick Aggregate	Hadzima- Nyarko, Marijana; Kovačević, Miljan; Netinger Grubeša, Ivanka; Lozančić, Silva	Engineering Proceedings	Vol. 68, No. 1, Article 24, 2024	10.3390/engproc20 24068024	https://www.mdpi.com/26 73-4591/68/1/24
Seismic Vulnerabili ty Assessmentof Buildings in an Urban Area: A Case Study of Selected City Blocks in Osijek	Ereš, Antonija; Radić, Josip; Lozančić, Silva; Hadzima- Nyarko, Marijana	33rd International Conference on Organization and Technology of Maintenance (OTO 2024)	Lecture Notes in Networks and Systems, pp. 407 – 418, 2024, Cham: Springer Nature Switzerland	10.1007/978-3- 031-80597-4_32	https://link.springer.com/chapter/10.1007/978-3- 031-80597-4_32
Effects of the 2023 Destructive Türkiye Earthquake s on R/C Structures in Kahraman maraş	Işık, Ercan	19th International Scientific Conference CIBv – Civil Engineering and Building Services 2024	Lecture Notes in Civil Engineering, vol 665. Springer, Cham, 2025	10.1007/978-3- 031-94641-7_2	https://link.springer.com/chapter/10.1007/978-3-031-94641-7_2
Circular Economy in the Construction Sector: The Situation in Croatia	Držislav Vidaković, Marijana Hadzima-Nyarko, Laura Šoja	XIV International Conference on Industrial Engineering and Environmental Protection IIZS 2024	Proceedings of the International Conference on Industrial Engineering and Environmental Protection IIZS 2024, pp. 286 – 294	Doi: 10.46793/IIZS24.286V	https://doi.ub.kg.ac.rs/doi/10-46793-iizs24-286v/
Assessment of Building Vulnerability Through Rapid Visual Screening Method: Case Study of Selected Street Blocks in Osijek	Josip Radić, Antonija Ereš, Držislav Vidaković, Marijana Hadzima-Nyarko	7th International Conference COMETa 2024 „Conference on Mechanical Engineering Technologies and Application“	Proceedings of the 7th International Conference COMETa 2024 „Conference on Mechanical Engineering Technologies and Application, ISBN 978-99976-085-2-9, pp. 536 – 542	N/A	https://cometa.ues.rs.ba/#
A machine learning approach for predicting the compressive strength of masonry walls: an artificial neural network model	Sławomir Czarnecki, A.D.R Troncoso García, E. K. Nyarko* Marijana Hadzima-Nyarko, Francisco Martínez-Álvarez	18th International Conference on Civil, Structural and Environmental Engineering Computing	2025	10.4203/ccc.10.5.4	https://www.ctresources.info/ccc/paper.html?id=10569
Concrete mixture compressive strength estimation using interpretable tree-based machine learning models	A.D.R Troncoso García, Sławomir Czarnecki, E. K. Nyarko, Marijana Hadzima-Nyarko, Francisco Martínez. Álvarez	18th International Conference on Civil, Structural and Environmental Engineering Computing	2025	10.4203/ccc.10.5.3	https://www.ctresources.info/ccc/paper.html?id=10568
Effectiveness of High-Performance Concrete Jacketing in Improving the Performance of RC Structures	Hadzima-Nyarko, Marijana, Ercan Işık, Dorin Radu, Borko Bulajić, Silva Lozančić, Josip Radić, and Antonija Ereš.	Applied Sciences	Volume 15 Number 21 11421	https://doi.org/10.3390/app152111421	https://www.mdpi.com/2076-3417/15/21/11 421
Evaluation of Different Rapid Assessment Approaches for Seismic Risk Evaluation of Masonry Structures	Josip Radić , Ercan Işik , Marijana Hadzima-Nyarko	Civil Engineering Journal	Volum 11 Number 10 Pages: 3981–4005.	https://doi.org/10.28 991/CEJ-2025-011- 10-01	https://civilejournal.org/index.php/cej/article/view/6295
Enhancing the seismic safety of upgraded RC buildings using FRP retrofitting: analytical and field evidence from the 2023 Kahramanmaraş earthquakes	Ercan Işık, Yong-Bo Shao, Marijana Hadzima-Nyarko, Dorin Radu, Borko Bulajic; Silva Lozancic	Bulletin of Earthquake Engineering	N/A	https://doi.org/10.1 007/s10518-025- 02338-z	https://link.springer.com/article/10.1007/s10518-025-02338-z
Comparative Analysis of Post-Earthquake Damage and Structural Irregularities in RC Buildings: Field Evidence from the 2023 Kahramanmaraş (Türkiye) Earthquakes	Ercan Işık, Remiz Karaçam, Ehsan Harirchian, Marijana Hadzima-Nyarko	Buildings	Volume 16 Number 6 1140	https://doi.org/10.3390/buildings16061140	https://www.mdpi.com/2075-5309/16/6/1140
Influence of Shear Wall Area-to-Floor Area Ratios and Configurations on the	Yuzbasi, Julide, Marijana Hadzima-Nyarko, Ercan Işık, Alper Demirci, Ehsan Harirchian, Aydın Büyüksaraç, Fatih Avcil, and Abdullah Özcelik	Buildings	Volume 16 Number 9 1658	https://doi.org/10.3390/buildings16091658	https://www.mdpi.com/2075-5309/16/9/1658

Configurations on the Seismic Response of Tall RC Building Structures: An Overview of Adana After the 2023 Kahramanmaraş Earthquakes	Fatih Avcil, and Abdullah Özçelik. Yuzbasi, Julide, Marijana Hadzima-Nyarko, Ercan Işık, Alper Demirci, Ehsan Harirchian, Aydın Büyüksaraç, Fatih Avcil, and Abdullah Özçelik.				
Comparative Analysis of Target Displacement Demands in Regular Reinforced Concrete Frames Under Different Seismic Design Codes	Işık, Ercan, Josip Radić, Antonija Ereš, and Marijana Hadzima-Nyarko	Buildings	Volume 16 Number 9 1777	https://doi.org/10.3390/buildings16091777	https://www.mdpi.com/2075-5309/16/9/1777
Effectiveness of FRP Strengthening on RC Columns with Multiple Structural Deficiencies: A Numerical Investigation	Avcil, Fatih, Fatma Ülker Peker, Zouaoui R. Harrat, Ercan Işık, and Marijana Hadzima-Nyarko.	Buildings	Volume 16 Number 12 2372	https://doi.org/10.3390/buildings16122372	https://www.mdpi.com/2075-5309/16/12/2372
Effects of Transverse Reinforcement Detailing on the Damage Mechanisms of RC Elements: Lessons from the 2023 Kahramanmaraş Earthquakes	Avcil Fatih, Radu Dorin, Harirchian Ehsan, Işık Ercan, Arkan Enes, Büyüksaraç Aydın, Hadzima-Nyarko Marijana	Buildings	Volume 16 Number 14 2897	https://doi.org/10.3390/buildings16142897	https://www.mdpi.com/2075-5309/16/14/2897
Seismic Damage Assessment in Hatay (Türkiye) and FRP Strengthening Strategies for Pre-2000 RC Buildings After the 2023 Kahramanmaraş Earthquake Sequence	Işık E, Büyüksaraç A, Avcil F, Harirchian E, Yuzbasi J, Hadzima-Nyarko M.	Buildings	2026; 16(18):3619	https://doi.org/10.3390/buildings16183619	https://www.mdpi.com/2075-5309/16/18/3619
Seismic Assessment and Strengthening Effectiveness of RC Frame Structures with Concrete Cover and Detailing Deficiencies: Field Evidence and Parametric Numerical Analyses	Işık, E.; Lozančić, S.; Hadzima-Nyarko, M.; Radu, D.; Bulajić, B.; Avcil, F.	Buildings	2026, 16, 3974	https://doi.org/10.3390/buildings16193974	https://www.mdpi.com/2075-5309/16/19/3974
Mechanical Performance of Mortars with Biomass Ash	Radić, J.; Ereš, A.; Hlebec, A.; Netinger Grubeša, I.; Hadzima-Nyarko, M.	Advanced Engineering Letters	2026 Volume 5 Number 2 88-100	https://doi.org/10.46793/adeletters.2026.5.2.3	https://www.adeletters.com/no-2-3-2026/
Performance and Resource Efficiency of Crushed Brick Aggregate in Micro-Concrete	Ereš, A.; Radić, J.; Kramarić, D.; Hadzima-Nyarko, M.; Netinger Grubeša, I.	Resources	2026 Volume 15 Number 8 101	10.3390/resources15080101	https://www.mdpi.com/2079-9276/15/8/101
A Study On The Enhancement Of Shear Capacity Of Reinforced Concrete Columns Strengthened With Steel Fiber Composites	Işık, Ercan, Avcil, Fatih	7. Bilsel International Gordion Scientific Researches Congress, 25-26 OCTOBER, 2025, ANKARA/TÜRK İYE	2025	N/A	https://bilselkongreleri.com/wp-content/uploads/7.- BILSEL-INTERNATIONAL-GORDION-SCIENCE-RESEARCHES-CONGRESS-BOOK.pdf
A Comparative Assessment of RC Structures Prior to and Following the 2023 Kahramanma raş Earthquakes"	Işık, E.,	1st INTERNATION AL CONFERENCE ON SMART SYSTEMS, DESIGN AND ENERGY November 28-29, 2025 Bitlis-Türkiye	2025	N/A	N/A
A Study on Comparative Analysis of RC Structures Before and After 2023 Kahraman maraş Earthquakes	Işık, Ercan	20th International Scientific Conference CIBv – Civil Engineering and Building Services 2025	2025	N/A	https://cibv.unitbv.ro/plenary-lectures
Betonarme Yapılarda Güçlü Kiriş-Zayıf Kolonların Frp İle Güçlendirilmesi Üzerine Bir Çalışma	Ercan Işık, Fatih AVCİL, Aydın Büyüksaraç	Far East Asia 6th International Congress on Applied Sciences	April 17 – 22, 2026 Tokyo/Japonya	N/A	https://www.afeacon.org/kongre-ki-taplari
Yumuşak/Zayıf Kat Kavramı Ve Güçlendirme Stratejileri Üzerine Bir Çalışma	Ercan Işık, Fatih AVCİL, Aydın Büyüksaraç	Erzurum 3rd International Congress On Applied Sciences	May 8 – 10, 2026 Erzurum	N/A	N/A
Capacity Spectrum Approach for Assessing Seismic Vulnerability of Buildings in an Urban Area	Radić, J.; Lozančić, S.; Işık, E.; Hadzima-Nyarko, M.	20th International Scientific Conference CIBv – Civil Engineering and Building Services 2025	2026	https://doi.org/10.1007/978-3-032-34174-7_60	https://link.springer.com/chapter/10.1007/978-3-032-34174-7_60

Area					
Intelligent methods and experimental approaches in assessing the behaviour of buildings, elements, and materials – Experiences from the IM4StEM project	Hadzima-Nyarko, M.; Dolaček-Alduk, Z.; Radić, J.; Nyarko, E.K.; Lozančić, S	8. Hrvatski graditeljski forum 2025	2025	N/A	https://hsgi.org/wp/wp-content/uploads/2025/12/HGF2025_ZBORNIK.pdf
Machine Learning-Based Prediction of Self-Compacting Concrete Performance Incorporating Recycled Coarse Aggregate for Suitable Construction	Seweryn Malazdrewicz, Łukasz Sadowski	Net-Zero Future 2025	2025	N/A	https://netzfuture.com/2025-cape-town/