

Kiarash M Dolatshahi

List of Publications by Year in descending order

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48
papers

995
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616
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Data-driven nonmodel seismic assessment of eccentrically braced frames with soil-structure interaction. <i>Engineering Applications of Artificial Intelligence</i> , 2025, 139, 109549. | 8.9 | 0 |
| 2 | Computer vision-based quantification of updated stiffness for damaged RC columns after earthquake. <i>Advances in Engineering Software</i> , 2024, 190, 103597. | 6.4 | 6 |
| 3 | Hybrid stacked neural network empowered by novel loss function for structural response history prediction using input excitation and roof acceleration. <i>Engineering Applications of Artificial Intelligence</i> , 2024, 136, 108984. | 8.9 | 5 |
| 4 | Quantifying Hybrid Failure Modes of Unreinforced Masonry Walls through Experimental Data Analysis. <i>Journal of Structural Engineering</i> , 2024, 150, . | 3.3 | 2 |
| 5 | Experimental investigation of hydrodynamic interaction between a squat submarine operating behind a ship. <i>Ocean Engineering</i> , 2023, 279, 114559. | 4.9 | 1 |
| 6 | Hydrodynamic interaction of a squat submarine towed by a marine vessel: Experimental investigation. <i>Ocean Engineering</i> , 2023, 271, 113736. | 4.9 | 2 |
| 7 | Multivariable fragility curves for unreinforced masonry walls. <i>Bulletin of Earthquake Engineering</i> , 2023, 21, 3357-3398. | 3.5 | 9 |
| 8 | Stiffness and Strength Estimation of Damaged Unreinforced Masonry Walls Using Crack Pattern. <i>Journal of Earthquake Engineering</i> , 2022, 26, 837-856. | 2.8 | 29 |
| 9 | Seismic displacement ratios for soil-pile-structure systems allowed to uplift. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 155, 107171. | 4.3 | 4 |
| 10 | Spatial analysis of damage evolution in cyclic-loaded reinforced concrete shear walls. <i>Journal of Building Engineering</i> , 2022, 49, 104032. | 3.4 | 18 |
| 11 | Peak drift ratio estimation for RC moment frames using multifractal dimensions of surface crack patterns. <i>Engineering Structures</i> , 2022, 255, 113893. | 5.7 | 23 |
| 12 | Inelastic Displacement Ratios for Structures Considering Nonlinear Soil-Pile-Structure Interactions. , 2022, 23, 257-267. | | 1 |
| 13 | Data-driven damage assessment of reinforced concrete shear walls using visual features of damage. <i>Journal of Building Engineering</i> , 2022, 53, 104509. | 3.4 | 23 |
| 14 | Peak drift ratio estimation for unreinforced masonry walls using visual features of damage. <i>Bulletin of Earthquake Engineering</i> , 2022, 20, 8357-8379. | 3.5 | 13 |
| 15 | Machine learning-based seismic damage assessment of non-ductile RC beam-column joints using visual damage indices of surface crack patterns. <i>Structures</i> , 2022, 45, 2038-2050. | 3.8 | 24 |
| 16 | Experimental and numerical investigation of squat submarines hydrodynamic performances. <i>Ocean Engineering</i> , 2022, 266, 112849. | 4.9 | 2 |
| 17 | Three-dimensional nonlinear dynamic analysis of slack cable structures using node Relaxation method. <i>Structures</i> , 2021, 29, 586-599. | 3.8 | 5 |
| 18 | Arc Length method for extracting crack pattern characteristics. <i>Structural Control and Health Monitoring</i> , 2021, 28, . | 4.2 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Experimental investigation of moment resisting frames with perforated shear link. Structures, 2021, 32, 516-531. | 3.8 | 16 |
| 20 | Earthquake-induced economic loss estimation of eccentrically braced frames through roof acceleration-based nonmodel approach. Journal of Constructional Steel Research, 2021, 187, 106888. | 4.1 | 28 |
| 21 | Topology Optimization of Wave Barriers for Mitigation of Vertical Component of Seismic Ground Motions. Journal of Earthquake Engineering, 2020, 24, 84-108. | 2.8 | 16 |
| 22 | Shake table test of a masonry building retrofitted with shotcrete. Engineering Structures, 2020, 219, 110912. | 5.7 | 33 |
| 23 | Strength and stiffness estimation of damaged reinforced concrete shear walls using crack patterns. Structural Control and Health Monitoring, 2020, 27, . | 4.2 | 32 |
| 24 | Collapse risk and earthquake-induced loss assessment of buildings with eccentrically braced frames. Journal of Constructional Steel Research, 2020, 168, 105998. | 4.1 | 21 |
| 25 | Displacement ratios for structures with material degradation and foundation uplift. Bulletin of Earthquake Engineering, 2019, 17, 5133-5157. | 3.5 | 16 |
| 26 | Predictive equations for drift ratio and damage assessment of RC shear walls using surface crack patterns. Engineering Structures, 2019, 190, 410-421. | 5.7 | 46 |
| 27 | Experimental study of steel moment resisting frames with shear link. Journal of Constructional Steel Research, 2019, 154, 197-208. | 4.1 | 36 |
| 28 | Numerical study on factors that influence the in-plane drift capacity of unreinforced masonry walls. Earthquake Engineering and Structural Dynamics, 2018, 47, 1440-1459. | 4.7 | 19 |
| 29 | Two novel shear fuses in moment resisting frames. Journal of Constructional Steel Research, 2018, 144, 198-210. | 4.1 | 11 |
| 30 | Experimental investigation of slitted web steel moment resisting frame. Journal of Constructional Steel Research, 2018, 145, 438-448. | 4.1 | 11 |
| 31 | Inverse vibration technique for structural health monitoring of offshore jacket platforms. Applied Ocean Research, 2017, 62, 181-198. | 4.0 | 35 |
| 32 | Influence of load history on the force-displacement response of in-plane loaded unreinforced masonry walls. Engineering Structures, 2017, 152, 671-682. | 5.7 | 37 |
| 33 | Predictive equations for shear link modeling toward collapse. Engineering Structures, 2017, 151, 599-612. | 5.7 | 20 |
| 34 | Double reduced beam section connection. Journal of Constructional Steel Research, 2017, 138, 283-297. | 4.1 | 48 |
| 35 | Shear slotted bolted connection. Structural Design of Tall and Special Buildings, 2017, 26, e1313. | 1.5 | 10 |
| 36 | Optimized design procedure for coupling panels in steel plate shear walls. Structural Design of Tall and Special Buildings, 2017, 26, . | 1.5 | 4 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Application of Endurance Time Analysis in Seismic Evaluation of an Unreinforced Masonry Monument. <i>Journal of Earthquake Engineering</i> , 2017, 21, 181-202. | 2.8 | 14 |
| 38 | Multi-directional response of unreinforced masonry walls: experimental and computational investigations. <i>Earthquake Engineering and Structural Dynamics</i> , 2016, 45, 1427-1449. | 4.7 | 14 |
| 39 | A case study on the soil-pile-structure interaction of a long span arched structure. <i>Structure and Infrastructure Engineering</i> , 2016, 12, 1614-1633. | 3.5 | 4 |
| 40 | Out-of-plane strength reduction of unreinforced masonry walls because of in-plane damages. <i>Earthquake Engineering and Structural Dynamics</i> , 2015, 44, 2157-2176. | 4.7 | 36 |
| 41 | Development of structural shear fuse in moment resisting frames. <i>Journal of Constructional Steel Research</i> , 2015, 114, 349-361. | 4.1 | 54 |
| 42 | Analytical Study of Moment-Resisting Frames Retrofitted with Shear Slotted Bolted Connection. <i>Journal of Structural Engineering</i> , 2015, 141, . | 3.3 | 22 |
| 43 | Interaction Curves for In-Plane and Out-of-Plane Behaviors of Unreinforced Masonry Walls. <i>Journal of Earthquake Engineering</i> , 2015, 19, 60-84. | 2.8 | 22 |
| 44 | Mechanical behavior of electrical hollow composite post insulators: Experimental and analytical study. <i>Engineering Structures</i> , 2015, 93, 129-141. | 5.7 | 21 |
| 45 | Bidirectional behavior of unreinforced masonry walls. <i>Earthquake Engineering and Structural Dynamics</i> , 2014, 43, 2377-2397. | 4.7 | 28 |
| 46 | Inverse vibration problem for un-damped 3-dimensional multi-story shear building models. <i>Journal of Sound and Vibration</i> , 2014, 333, 99-113. | 4.5 | 4 |
| 47 | A three-dimensional cyclic meso-scale numerical procedure for simulation of unreinforced masonry structures. <i>Computers and Structures</i> , 2013, 120, 9-23. | 4.5 | 106 |
| 48 | Two-dimensional computational framework of meso-scale rigid and line interface elements for masonry structures. <i>Engineering Structures</i> , 2011, 33, 3657-3667. | 5.7 | 48 |