

Mitsuyoshi Akiyama

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,314
citations

471371

17
h-index

345118

36
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docs citations

40
times ranked

733
citing authors

#	ARTICLE	IF	CITATIONS
1	Shaking Table Test of a Friction Sliding System on a Concrete Member with Variable Curvature Fabricated by a Three-dimensional Printer. <i>Journal of Earthquake Engineering</i> , 2022, 26, 8332-8358.	1.4	4
2	Random field-based reliability updating framework for existing RC structures incorporating the effect of spatial steel corrosion distribution. <i>Structure and Infrastructure Engineering</i> , 2022, 18, 967-982.	2.0	17
3	Multi-objective optimisation of in-service asphalt pavement maintenance schedule considering system reliability estimated via LSTM neural networks. <i>Structure and Infrastructure Engineering</i> , 2022, 18, 1002-1019.	2.0	17
4	Precast RC Blocks with Connections Composed of Steel Shear Keys and CFRP Sheets for the Superstructure of Temporary Bridges in a Postdisaster Situation. <i>Journal of Bridge Engineering</i> , 2022, 27, .	1.4	0
5	Effects of galvanostatic and artificial chloride environment methods on the steel corrosion spatial variability and probabilistic flexural capacity of RC beams. <i>Structure and Infrastructure Engineering</i> , 2022, 18, 1506-1525.	2.0	5
6	Reliability-based life-cycle cost design of asphalt pavement using artificial neural networks. <i>Structure and Infrastructure Engineering</i> , 2021, 17, 872-886.	2.0	18
7	Framework for estimating the risk and resilience of road networks with bridges and embankments under both seismic and tsunami hazards. <i>Structure and Infrastructure Engineering</i> , 2021, 17, 494-514.	2.0	32
8	Risk estimation of the disaster waste generated by both ground motion and tsunami due to the anticipated Nankai Trough earthquake. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 2134-2155.	2.5	10
9	Probabilistic estimation of flexural loading capacity of existing RC structures based on observational corrosion-induced crack width distribution using machine learning. <i>Structural Safety</i> , 2021, 91, 102098.	2.8	39
10	Modelling method of fibre distribution in steel fibre reinforced concrete based on X-ray image recognition. <i>Composites Part B: Engineering</i> , 2021, 223, 109124.	5.9	14
11	A novel casting procedure for SFRC piles without shear reinforcement using the centrifugal forming technique to manipulate the fiber orientation and distribution. <i>Construction and Building Materials</i> , 2021, 303, 124232.	3.2	8
12	Effect of the interaction of corrosion pits among multiple tensile rebars on the reliability of RC structures: Experimental and numerical investigation. <i>Structural Safety</i> , 2021, 93, 102115.	2.8	23
13	Toward life-cycle reliability-, risk- and resilience-based design and assessment of bridges and bridge networks under independent and interacting hazards: emphasis on earthquake, tsunami and corrosion. <i>Structure and Infrastructure Engineering</i> , 2020, 16, 26-50.	2.0	122
14	Life-cycle reliability-based design and reliability updating of reinforced concrete shield tunnels in coastal regions. <i>Structure and Infrastructure Engineering</i> , 2020, 16, 726-737.	2.0	18
15	LCC-based identification of geographical locations suitable for using stainless steel rebars in reinforced concrete girder bridges. <i>Structure and Infrastructure Engineering</i> , 2020, 16, 1201-1227.	2.0	12
16	Effects of concrete flow on the distribution and orientation of fibers and flexural behavior of steel fiber-reinforced self-compacting concrete beams. <i>Construction and Building Materials</i> , 2020, 262, 119963.	3.2	62
17	Flexural behaviour of reinforced concrete beams repaired using a hybrid scheme with stainless steel rebars and CFRP sheets. <i>Construction and Building Materials</i> , 2020, 265, 120296.	3.2	12
18	Bidirectional shaking table tests of a low-cost friction sliding system with flat-inclined surfaces. <i>Earthquake Engineering and Structural Dynamics</i> , 2020, 49, 817-837.	2.5	16

#	ARTICLE	IF	CITATIONS
19	Reliability estimation of corroded RC structures based on spatial variability using experimental evidence, probabilistic analysis and finite element method. <i>Engineering Structures</i> , 2019, 192, 30-52.	2.6	66
20	A Study on the Design Method for the Material Composition of Small Particle-Size Asphalt Mixture for Controlling Cracks in Asphalt Pavement. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1988.	1.3	10
21	Life-cycle reliability analysis of shield tunnels in coastal regions: emphasis on flexural performance of deteriorating segmental linings. <i>Structure and Infrastructure Engineering</i> , 2019, 15, 851-871.	2.0	17
22	Shaking table tests of a reinforced concrete bridge pier with a low-cost sliding pendulum system. <i>Earthquake Engineering and Structural Dynamics</i> , 2019, 48, 366-386.	2.5	22
23	Life-cycle reliability assessment of reinforced concrete bridges under multiple hazards. <i>Structure and Infrastructure Engineering</i> , 2018, 14, 1011-1024.	2.0	33
24	Structural behavior prediction of SFRC beams by a novel integrated approach of X-ray imaging and finite element method. <i>Construction and Building Materials</i> , 2018, 170, 347-365.	3.2	8
25	Effect of Recycled Aggregate Quality on the Bond Behavior and Shear Strength of RC Members. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2054.	1.3	10
26	Reliability-based durability design and service life assessment of reinforced concrete deck slab of jetty structures. <i>Structure and Infrastructure Engineering</i> , 2017, 13, 468-477.	2.0	30
27	Experimental investigation of the spatial variability of the steel weight loss and corrosion cracking of reinforced concrete members: novel X-ray and digital image processing techniques. <i>Structure and Infrastructure Engineering</i> , 2017, 13, 118-134.	2.0	56
28	Life-cycle of structural systems: design, assessment, maintenance and management. <i>Structure and Infrastructure Engineering</i> , 2017, 13, 1-1.	2.0	10
29	Assessment of the structural performance of corrosion-affected RC members based on experimental study and probabilistic modeling. <i>Engineering Structures</i> , 2016, 127, 189-205.	2.6	93
30	Long-term seismic performance of RC structures in an aggressive environment: emphasis on bridge piers. <i>Structure and Infrastructure Engineering</i> , 2014, 10, 865-879.	2.0	55
31	Performance analysis of Tohoku-Shinkansen viaducts affected by the 2011 Great East Japan earthquake. <i>Structure and Infrastructure Engineering</i> , 2014, 10, 1228-1247.	2.0	19
32	Particle filter for model updating and reliability estimation of existing structures. <i>Smart Structures and Systems</i> , 2013, 11, 103-122.	1.9	2
33	Integration of the effects of airborne chlorides into reliability-based durability design of reinforced concrete structures in a marine environment. <i>Structure and Infrastructure Engineering</i> , 2012, 8, 125-134.	2.0	90
34	Flexural test of precast high-strength reinforced concrete pile prestressed with unbonded bars arranged at the center of the cross-section. <i>Engineering Structures</i> , 2012, 34, 259-270.	2.6	40
35	Analytical Study on Seismic Performance of Hollow Spiral Steel Pipes under Cyclic Loading. <i>Procedia Engineering</i> , 2011, 14, 898-905.	1.2	2
36	Life-cycle reliability of RC bridge piers under seismic and airborne chloride hazards. <i>Earthquake Engineering and Structural Dynamics</i> , 2011, 40, 1671-1687.	2.5	153

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37	Ductility Evaluation of Concrete-Encased Steel Bridge Piers Subjected to Lateral Cyclic Loading. Journal of Bridge Engineering, 2011, 16, 72-81.	1.4	31
38	Time-dependent reliability analysis of existing RC structures in a marine environment using hazard associated with airborne chlorides. Engineering Structures, 2010, 32, 3768-3779.	2.6	119
39	Stress-strain behaviour of high-strength concrete columns confined by low-volumetric ratio rectangular ties. Magazine of Concrete Research, 2006, 58, 101-115.	0.9	19