

Zainah Ibrahim

List of Publications by Year in descending order

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Version: 2024-02-01

103
papers

2,793
citations

201674

27
h-index

197818

49
g-index

109
all docs

109
docs citations

109
times ranked

2109
citing authors

#	ARTICLE	IF	CITATIONS
1	Nondestructive test methods for concrete bridges: A review. <i>Construction and Building Materials</i> , 2016, 107, 58-86.	7.2	269
2	Potential of adaptive neuro fuzzy inference system for evaluating the factors affecting steel-concrete composite beam's shear strength. <i>Steel and Composite Structures</i> , 2016, 21, 679-688.	1.3	168
3	Prediction of shear capacity of channel shear connectors using the ANFIS model. <i>Steel and Composite Structures</i> , 2014, 17, 623-639.	1.3	163
4	Comparative Study of Lightweight Cementitious Composite Reinforced with Different Fibre Types and the Effect of Silane-Based Admixture. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-10.	0.7	122
5	State-of-the-Art Review of Metallic Dampers: Testing, Development and Implementation. <i>Archives of Computational Methods in Engineering</i> , 2020, 27, 455-478.	10.2	98
6	Invited Review: Recent developments in vibration control of building and bridge structures. <i>Journal of Vibroengineering</i> , 2017, 19, 3564-3580.	1.0	98
7	VIV study of an elastically mounted cylinder having low mass-damping ratio using RANS model. <i>International Journal of Heat and Mass Transfer</i> , 2018, 121, 309-314.	4.8	94
8	Analysis and review of concrete-filled double skin steel tubes under compression. <i>Thin-Walled Structures</i> , 2020, 148, 106495.	5.3	73
9	Etched FBG coated with polyimide for simultaneous detection the salinity and temperature. <i>Optics Communications</i> , 2017, 392, 218-222.	2.1	72
10	Monitoring fracture of steel corroded reinforced concrete members under flexure by acoustic emission technique. <i>Construction and Building Materials</i> , 2017, 136, 609-618.	7.2	66
11	Properties of eco-friendly self-compacting concrete containing modified treated palm oil fuel ash. <i>Construction and Building Materials</i> , 2018, 158, 742-754.	7.2	66
12	Strength prediction of rotary brace damper using MLR and MARS. <i>Structural Engineering and Mechanics</i> , 2016, 60, 471-488.	1.0	63
13	A Sustainable Graphene Based Cement Composite. <i>Sustainability</i> , 2017, 9, 1229.	3.2	55
14	Numerical investigation of the vortex-induced vibration of an elastically mounted circular cylinder at high Reynolds number ($Re = 104$) and low mass ratio using the RANS code. <i>PLoS ONE</i> , 2017, 12, e0185832.	2.5	54
15	Influence of Graphene Nanosheets on Rheology, Microstructure, Strength Development and Self-Sensing Properties of Cement Based Composites. <i>Sustainability</i> , 2018, 10, 822.	3.2	49
16	Assessment of Rheological and Piezoresistive Properties of Graphene based Cement Composites. <i>International Journal of Concrete Structures and Materials</i> , 2018, 12, .	3.2	44
17	The use of wire meshâ€“epoxy composite for enhancing the flexural performance of concrete beams. <i>Materials & Design</i> , 2014, 60, 250-259.	5.1	43
18	Nonlinear analysis of square concrete-filled double-skin steel tubular columns under axial compression. <i>Engineering Structures</i> , 2020, 216, 110678.	5.3	37

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19	Concrete beam crack detection using tapered polymer optical fiber sensors. Measurement: Journal of the International Measurement Confederation, 2016, 88, 96-103.	5.0	36
20	Mechanical properties and drying shrinkage of lightweight cementitious composite incorporating perlite microspheres and polypropylene fibers. Construction and Building Materials, 2020, 246, 118410.	7.2	36
21	The effects of cross-sectional shapes on the axial performance of concrete-filled steel tube columns. Journal of Constructional Steel Research, 2021, 176, 106424.	3.9	36
22	The pH of Cement-based Materials: A Review. Journal Wuhan University of Technology, Materials Science Edition, 2020, 35, 908-924.	1.0	35
23	Heat-treated palm oil fuel ash as an effective supplementary cementitious material originating from agriculture waste. Construction and Building Materials, 2018, 167, 44-54.	7.2	31
24	A new approach to estimate damage in concrete beams using non-linearity. Construction and Building Materials, 2016, 124, 1081-1089.	7.2	30
25	Seismic analysis of Roller Compacted Concrete (RCC) dams considering effect of sizes and shapes of galleries. KSCE Journal of Civil Engineering, 2016, 20, 261-272.	1.9	30
26	Damage assessment of reinforced concrete structures using a model-based nonlinear approach – A comprehensive review. Construction and Building Materials, 2018, 192, 846-865.	7.2	29
27	Critical success factors for BIM implementation: a Malaysian case study. Engineering, Construction and Architectural Management, 2020, 27, 2737-2765.	3.1	29
28	Added advantages in using a fiber Bragg grating sensor in the determination of early age setting time for cement pastes. Measurement: Journal of the International Measurement Confederation, 2013, 46, 4313-4320.	5.0	28
29	Optimization of the Geometries of Biconical Tapered Fiber Sensors for Monitoring the Early Age Curing Temperatures of Concrete Specimens. Computer-Aided Civil and Infrastructure Engineering, 2013, 28, 531-541.	9.8	27
30	Approach to Reduce the Limitations of Modal Identification in Damage Detection Using Limited Field Data for Nondestructive Structural Health Monitoring of a Cable-Stayed Concrete Bridge. Journal of Bridge Engineering, 2012, 17, 867-875.	2.9	26
31	Numerical analysis of square concrete-filled double skin steel tubular columns with rubberized concrete. Structures, 2021, 32, 1026-1047.	3.6	26
32	Modeling of a viscoelastic damper and its application in structural control. PLoS ONE, 2017, 12, e0176480.	2.5	25
33	Seismic response characteristics of a base isolated cable-stayed bridge under moderate and strong ground motions. Archives of Civil and Mechanical Engineering, 2017, 17, 419-432.	3.8	24
34	Experimental Study of a New Bar Damper Device for Vibration Control of Structures Subjected to Earthquake Loads. Journal of Earthquake Engineering, 2021, 25, 300-318.	2.5	23
35	Dynamic characteristics and model updating of damaged slab from ambient vibration measurements. Measurement: Journal of the International Measurement Confederation, 2013, 46, 1371-1378.	5.0	22
36	Data mining-based damage identification of a slab-on-girder bridge using inverse analysis. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107175.	5.0	21

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37	P- \hat{I} and End Rotation Effects on the Influence of Mechanical Properties of Elastomeric Isolation Bearings. <i>Journal of Structural Engineering</i> , 2012, 138, 669-675.	3.4	20
38	A remote monitoring system for stadia dynamics. <i>Proceedings of the Institution of Civil Engineers: Structures and Buildings</i> , 2004, 157, 385-393.	0.8	19
39	Seismic isolation retrofitting solution for an existing steel cable-stayed bridge. <i>PLoS ONE</i> , 2018, 13, e0200482.	2.5	17
40	Performance of sustainable sand concrete at ambient and elevated temperature. <i>Construction and Building Materials</i> , 2021, 280, 122404.	7.2	17
41	Flexible Foundation Effect on Seismic Analysis of Roller Compacted Concrete (RCC) Dams Using Finite Element Method. <i>KSCE Journal of Civil Engineering</i> , 2018, 22, 1275-1287.	1.9	16
42	Use of Tapered Optical Fiber Sensors in Study of the Hydration Process of Cement Paste. <i>IEEE Sensors Journal</i> , 2013, 13, 3415-3420.	4.7	14
43	Crossover Effect in Cement-Based Materials: A Review. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2776.	2.5	14
44	Seismic characteristics of X-cable braced frames bundled with a pre-compressed spring. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 116, 732-746.	3.8	14
45	Behaviour of semi-rigid precast beam-to-column connection determined using static and reversible load tests. <i>Measurement: Journal of the International Measurement Confederation</i> , 2020, 164, 108007.	5.0	14
46	Quality control of lightweight aggregate concrete based on initial and final water absorption tests. <i>IOP Conference Series: Materials Science and Engineering</i> , 2017, 210, 012022.	0.6	13
47	A new metallic bar damper device for seismic energy dissipation of civil structures. <i>IOP Conference Series: Materials Science and Engineering</i> , 0, 431, 122009.	0.6	13
48	Numerical investigation of flow around cylinder at Reynolds number $Re = 3900$ with large eddy simulation technique: Effect of spanwise length and mesh resolution. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2019, 233, 417-427.	0.5	13
49	Seismic Response Analysis of Fully Base-Isolated Adjacent Buildings with Segregated Foundations. <i>Advances in Civil Engineering</i> , 2018, 2018, 1-21.	0.7	12
50	Numerical investigation of vortex-induced vibration of an elastically mounted circular cylinder with One-degree of freedom at high Reynolds number using different turbulent models. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , 2019, 233, 443-453.	0.5	12
51	pH Measurement of Cement-Based Materials: The Effect of Particle Size. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 8000.	2.5	12
52	Cyclic performance of stiffened steel plate shear walls with various configurations of stiffeners. <i>Journal of Vibroengineering</i> , 2018, 20, 459-476.	1.0	12
53	Development of a new hexagonal honeycomb steel damper. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	3.8	10
54	Effect of High-cyclic Loads on Dynamic Response of Reinforced Concrete Slabs. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 1293-1301.	1.9	9

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55	Experimental Study on the Flexural Behavior of over Reinforced Concrete Beams Bolted with Compression Steel Plate: Part I. Applied Sciences (Switzerland), 2020, 10, 822.	2.5	9
56	Numerical analysis of vertical pipe damper. , 2017, , .		9
57	Vulnerability Assessment of Existing Low-Rise Reinforced Concrete School Buildings in Low Seismic Region Using Ambient Noise Method. Advanced Materials Research, 2014, 931-932, 483-489.	0.3	8
58	Simulation-based non-linear vibration model for damage detection in RC beams. European Journal of Environmental and Civil Engineering, 2021, 25, 1379-1404.	2.1	8
59	Corrosion Assessment of Pre-corrosion Concrete Specimens using Acoustic Emission Technique. Journal of Engineering and Technological Sciences, 2021, 53, 210111.	0.6	8
60	Stability and permeability characteristics of porous asphalt pavement: An experimental case study. Case Studies in Construction Materials, 2021, 15, e00591.	1.7	8
61	Pounding mitigation of a short-span cable-stayed bridge using a new hybrid passive control system. Engineering Analysis With Boundary Elements, 2022, 134, 625-636.	3.7	8
62	Numerical investigations of internal stresses on carbon steel based on ultrasonic LCR waves. Journal of Physics: Conference Series, 2017, 908, 012044.	0.4	7
63	Estimation of Site Dynamic Characteristics from Ambient Noise Measurements Using HVSR Method in Microzonation Study: Senggarang, Batu Pahat, Malaysia. Advanced Materials Research, 0, 931-932, 803-807.	0.3	6
64	Minimizing the Principle Stresses of Powerhoused Rock-Fill Dams Using Control Turbine Running Units: Application of Finite Element Method. Water (Switzerland), 2018, 10, 1138.	2.7	6
65	Simulating Intermediate Crack Debonding on RC Beams Strengthened with Hybrid Methods. Latin American Journal of Solids and Structures, 2018, 15, .	1.0	6
66	An Experimental and Numerical Study on the Flexural Performance of Over-Reinforced Concrete Beam Strengthening with Bolted-Compression Steel Plates: Part II. Applied Sciences (Switzerland), 2020, 10, 94.	2.5	6
67	A Case Study on Structural Failure of Reinforced Concrete Beam-Column Joint After the First Significant Earthquake Impact in Malaysia. International Journal of Integrated Engineering, 2020, 12, .	0.4	6
68	Flexural Behaviour of Concrete Beams Bonded with Wire Mesh-Epoxy Composite. Applied Mechanics and Materials, 0, 567, 411-416.	0.2	5
69	Sustainable Non-destructive Technique Ambient Vibrations for Ground Assessments. Procedia, Social and Behavioral Sciences, 2016, 216, 701-711.	0.5	5
70	Measurement of platform conductor preload in streamlining the life extensions of ageing offshore wells. Applied Ocean Research, 2017, 65, 12-22.	4.1	5
71	Effect of bonding materials on the flexural improvement in RC beams strengthened with SNSM technique using GFRP bars. Journal of Building Engineering, 2020, 32, 101777.	3.4	5
72	Serviceability assessment of fatigued reinforced concrete structures using a dynamic response technique. Journal of Materials Research and Technology, 2020, 9, 4450-4458.	5.8	5

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73	Incorporation of crumb rubber and air-entraining agent in ultra-lightweight cementitious composite: Evaluation of mechanical and acoustic properties. <i>Journal of Building Engineering</i> , 2021, 42, 103034.	3.4	5
74	Operational modal analysis and finite element model updating of ultra-high-performance concrete bridge based on ambient vibration test. <i>Case Studies in Construction Materials</i> , 2022, 16, e01117.	1.7	5
75	Data Mining Technology for Structural Control Systems: Concept, Development, and Comparison. , 0, , .		4
76	Development of Crack Width Prediction Models for RC Beam-Column Joint Subjected to Lateral Cyclic Loading Using Machine Learning. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7700.	2.5	4
77	Performance of a Ductile Hybrid Post-Tensioned Beam-to-Column Connection for Precast Concrete Frames under Seismic Loads: A Review. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7497.	2.5	4
78	New nine-node Lagrangian quadrilateral plate element based on Mindlin-Reissner theory using IFM. <i>Structural Engineering and Mechanics</i> , 2012, 41, 205-229.	1.0	4
79	Tapered Polymer Fiber Sensors for Reinforced Concrete Beam Vibration Detection. <i>Sensors</i> , 2016, 16, 2149.	3.8	3
80	Development of a new hybrid precast beam-to-column connection. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 431, 112002.	0.6	3
81	Characterizing the Cyclic Behavior of Stiffened SPSWs. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 1691-1706.	1.9	3
82	Parametric study for concrete cover separation failure of retrofitted SNSM strengthened RC beams. <i>Mechanics of Advanced Materials and Structures</i> , 2020, 27, 481-492.	2.6	3
83	Seismic Pounding Mitigation of an Existing Cable-Stayed Bridge Using Metallic Dampers. , 2018, , .		3
84	Effect of basalt and polypropylene fibers on crumb rubber mortar with Portland cement and calcium aluminate cement binders: Strength and artificial neural network prediction model. <i>Progress in Rubber, Plastics and Recycling Technology</i> , 2022, 38, 99-124.	1.8	3
85	Numerical Study of Flow Around a Smooth Circular Cylinder at Reynold Number=3900 With Large Eddy Simulation Using CFD Code. , 2016, , .		2
86	Three-Dimensional Seismic Response Analysis for a Rockfill Dam. <i>Journal of Computational and Theoretical Nanoscience</i> , 2017, 14, 6003-6013.	0.4	2
87	Crack assessment of RC beam-column joints subjected to cyclic lateral loading using acoustic emission (AE): the influence of shear links aspect. <i>Canadian Journal of Civil Engineering</i> , 2021, 48, 1274-1286.	1.3	2
88	Effect of incremental static damage on modal frequencies of reinforced concrete beams. <i>International Journal of Integrated Engineering</i> , 2018, 10, .	0.4	2
89	Recent Progress in the Application of Coconut and Palm Oil Fibres in Cement-Based Materials. <i>Sustainability</i> , 2021, 13, 12865.	3.2	2
90	Impacts of polyvinyl alcohol and basalt fibres on green fly ash cenosphere lightweight cementitious composite. <i>Materials Today: Proceedings</i> , 2022, 61, 512-516.	1.8	2

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91	Application of Trujillo Algorithm for Analyzing of Structures. American Journal of Applied Sciences, 2010, 7, 408-414.	0.2	1
92	Monitoring of Curing Temperature of Early-Age Cement Paste Using Biconical Tapered Fiber Sensor. Advanced Materials Research, 0, 250-253, 3549-3553.	0.3	1
93	Tackling the Problem of Ageing Well's Integrity and Rehabilitation in the Arabian Gulf. , 2017, , .		1
94	Factors affecting success and difficulty to adopt Building Information Modelling (BIM) among construction firms in Sabah and Sarawak. IOP Conference Series: Materials Science and Engineering, 2018, 431, 082012.	0.6	1
95	Structural health monitoring on medium rise reinforced concrete building using ambient vibration method. IOP Conference Series: Earth and Environmental Science, 2018, 140, 012152.	0.3	1
96	Screening method for platform conductor integrity assessment for life extension prioritisation. Marine Structures, 2018, 58, 136-153.	3.8	1
97	Water Flow Stabilization Using Submerged Weir for Draft Tube Reaction Hydraulic Turbine. Scientia Iranica, 2018, .	0.4	1
98	Numerical Analysis of an Embankment Resting on a Combined Mass Stabilization and Lime Columns in Clayey Soil. IOP Conference Series: Materials Science and Engineering, 2018, 431, 112011.	0.6	0
99	Identification of Natural Frequency of Low Rise Building on Soft Ground Profile using Ambient Vibration Method. Journal of Physics: Conference Series, 2018, 995, 012100.	0.4	0
100	Influence of Traffic Vehicles Against Ground Fundamental Frequency Prediction using Ambient Vibration Technique. Journal of Physics: Conference Series, 2018, 995, 012101.	0.4	0
101	Concrete cover separation of reinforced concrete beams strengthened with near-surface mounted method: Mechanics based design approach. Advances in Structural Engineering, 2019, 22, 1739-1754.	2.4	0
102	Experimental Study on the Seismic Response of Longhouses Using Scale Models. Structural Engineering International: Journal of the International Association for Bridge and Structural Engineering (IABSE), 2020, 30, 86-93.	0.8	0
103	Mathematical modeling for analysis cable structures. Scientific Research and Essays, 2011, 6, .	0.4	0