

Habib Tabatabai

List of Publications by Year in descending order

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47
papers

1,125
citations

516561

16
h-index

395590

33
g-index

48
all docs

48
docs citations

48
times ranked

822
citing authors

#	ARTICLE	IF	CITATIONS
1	Review of ultra-high performance concrete and its application in bridge engineering. Construction and Building Materials, 2020, 260, 119844.	3.2	192
2	Unified Finite Difference Formulation for Free Vibration of Cables. Journal of Structural Engineering, 1998, 124, 1313-1322.	1.7	181
3	Design of Mechanical Viscous Dampers for Stay Cables. Journal of Bridge Engineering, 2000, 5, 114-123.	1.4	105
4	Nonlinear finite element analysis and modeling of a precast hybrid beam-column connection subjected to cyclic loads. Applied Mathematical Modelling, 2010, 34, 2562-2583.	2.2	88
5	Novel Applications of Laser Doppler Vibration Measurements to Medical Imaging. Sensing and Imaging, 2013, 14, 13-28.	1.0	56
6	Residual Tensile Strength and Bond Properties of GFRP Bars after Exposure to Elevated Temperatures. Materials, 2018, 11, 346.	1.3	52
7	Non-Dimensional Design Procedures for Precast, Prestressed Concrete Hybrid Frames. PCI Journal, 2006, 51, 110-130.	0.4	47
8	Temperature Monitoring and Response of Deck-Extension Side-by-Side Box Girder Bridges. Journal of Performance of Constructed Facilities, 2020, 34, .	1.0	39
9	A Novel Concrete-Based Sensor for Detection of Ice and Water on Roads and Bridges. Sensors, 2017, 17, 2912.	2.1	27
10	Reliability of Bridge Decks in Wisconsin. Journal of Bridge Engineering, 2011, 16, 53-62.	1.4	26
11	Laboratory Evaluation of Select Methods of Corrosion Prevention in Reinforced Concrete Bridges. International Journal of Concrete Structures and Materials, 2014, 8, 201-212.	1.4	26
12	Evaluation of a Permit Vehicle Model Using Weigh-in-Motion Truck Records. Journal of Bridge Engineering, 2012, 17, 389-392.	1.4	24
13	Solar Radiation Parameters for Assessing Temperature Distributions on Bridge Cross-Sections. Applied Sciences (Switzerland), 2018, 8, 627.	1.3	23
14	Evaluation of the Low-Cycle Fatigue Life in ASTM A706 and A615 Grade 60 Steel Reinforcing Bars. Journal of Materials in Civil Engineering, 2010, 22, 65-76.	1.3	22
15	Long-term chloride profiles in bridge decks treated with penetrating sealer or corrosion inhibitors. Construction and Building Materials, 2015, 101, 1037-1046.	3.2	21
16	<title>Bridge stay cable condition assessment using vibration measurement techniques</title>. , 1998, 3400, 194.		20
17	Mechanical and thermo-gravimetric properties of unsaturated polyester resin blended with FGD gypsum. Construction and Building Materials, 2018, 163, 438-445.	3.2	20
18	Damage Detection in Structures Using Precursor Transformation Method. Journal of Intelligent Material Systems and Structures, 1998, 9, 808-817.	1.4	12

#	ARTICLE	IF	CITATIONS
19	WIM-based assessment of load effects on bridges due to various classes of heavy trucks. <i>Engineering Structures</i> , 2017, 140, 189-198.	2.6	12
20	Rehabilitation and Retrofitting of a Multispan Simply-Supported Adjacent Box Girder Bridge into a Jointless and Continuous Structure. <i>Journal of Performance of Constructed Facilities</i> , 2018, 32, .	1.0	12
21	Reliability of bridge decks in the United States. <i>Bridge Structures</i> , 2015, 11, 75-85.	0.2	11
22	Survival Analysis of Bridge Superstructures in Wisconsin. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2079.	1.3	11
23	Experiment on Interaction of Abutment, Steel H-Pile and Soil in Integral Abutment Jointless Bridges (IAJBs) under Low-Cycle Pseudo-Static Displacement Loads. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 1358.	1.3	11
24	Evaluation of the Low-Cycle Fatigue Life in Seven Steel Bar Types. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	1.3	10
25	Effect of coarse aggregate type on chloride ion penetration in concrete. <i>Construction and Building Materials</i> , 2018, 162, 871-880.	3.2	10
26	Development of nonlinear probabilistic S-N curves using survival analysis techniques with application to steel bridges. <i>International Journal of Fatigue</i> , 2020, 141, 105892.	2.8	9
27	Spatial variability of compacted aggregate bases. <i>Transportation Geotechnics</i> , 2018, 17, 56-65.	2.0	8
28	An introduction to new robust linear and monotonic correlation coefficients. <i>BMC Bioinformatics</i> , 2021, 22, 170.	1.2	8
29	Long term performance of gravel base course layers in asphalt pavements. <i>Case Studies in Construction Materials</i> , 2018, 9, e00208.	0.8	6
30	Laboratory Assessment of Select Methods of Corrosion Control and Repair in Reinforced Concrete Bridges. <i>International Journal of Corrosion</i> , 2014, 2014, 1-11.	0.6	5
31	Short-term environment-dependent creep and shrinkage of mature concrete. <i>Magazine of Concrete Research</i> , 2017, 69, 1243-1255.	0.9	5
32	Probabilistic Models for Fatigue Resistance of Seven-Wire Prestressing Strands and Stay Cables. <i>Journal of Bridge Engineering</i> , 2021, 26, .	1.4	5
33	Acoustic monitoring of containment tendons. <i>Nuclear Engineering and Design</i> , 1998, 181, 225-233.	0.8	3
34	Influence of Aggregate Base Layer Variability on Pavement Performance. <i>Transportation Research Record</i> , 2014, 2457, 58-71.	1.0	3
35	Long-Term Performance of Flexible Pavements Constructed on Recycled Base Layers. <i>Transportation Research Record</i> , 2022, 2676, 206-222.	1.0	3
36	Effects of External Confinement on Reinforcing Steel Corrosion in Concrete. <i>Corrosion</i> , 2015, 71, 1121-1134.	0.5	2

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37	Impact of Heavy Vehicles on the Durability of Concrete Bridge Decks. Journal of Bridge Engineering, 2017, 22, .	1.4	2
38	Assessment of Tests to Determine Long-Term Durability of Wisconsin Aggregates. Journal of Materials in Civil Engineering, 2018, 30, .	1.3	2
39	Analytical and Experimental Evaluation of Repairs to Continuous PC Girder Bridge. Journal of Performance of Constructed Facilities, 2020, 34, 04019086.	1.0	2
40	Conditional survival analysis for concrete bridge decks. Life Cycle Reliability and Safety Engineering, 2020, 9, 63-75.	0.6	2
41	Evaluation of Compacted Aggregate Base Course Layers. , 2014, , .		1
42	<title>Precursor transformation method for damage detection in structures</title>. , 1998, 3325, 232.		0
43	<title>Investigation of a model vertical motion liquid damper: comparing numerical simulation and experimental evidence</title>. , 2005, , .		0
44	Monte Carlo simulation of cable fatigue stresses in two cable-stayed bridges. Bridge Structures, 2006, 2, 147-153.	0.2	0
45	X-Ray Microcomputed Tomography for the Durability Characterization of Limestone Aggregate. , 2014, , .		0
46	Research on Effective Temperature of Tâ€ŠShaped Girder for Jointless Bridges in China. , 2019, , .		0
47	An Energy Dissipating Seismic Connector for Precast Concrete Shear Walls. Buildings, 2022, 12, 949.	1.4	0