Ayman M Okeil

List of Publications by Year
in descending order

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53	963	516710	454955
papers	citations	16 h-index	30 g-index

55	55	55	845
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Study of Statistical Uncertainties for Temperature Gradients in Concrete Bridges. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2022, 8, .	1.7	5
2	Investigation of Empirical Deck Design in Bridge Widening. Journal of Bridge Engineering, 2020, 25, 04020079.	2.9	0
3	Structural effects of temperature gradient on a continuous prestressed concrete girder bridge: analysis and field measurements. Structure and Infrastructure Engineering, 2020, 16, 1539-1550.	3.7	18
4	Load Testing and Rating of Cast-in-Place Concrete Box Culverts. Journal of Performance of Constructed Facilities, 2020, 34, 04020008.	2.0	4
5	Challenges in the detection of weld-defects in friction-stir-welding (FSW). Advances in Materials and Processing Technologies, 2019, 5, 258-278.	1.4	12
6	Building a multi-signal based defect prediction system for a friction stir welding process. Procedia Manufacturing, 2019, 38, 1775-1791.	1.9	9
7	A Fully Coupled Thermomechanical Model of Friction Stir Welding (FSW) and Numerical Studies on Process Parameters of Lightweight Aluminum Alloy Joints. Acta Metallurgica Sinica (English Letters), 2018, 31, 1-18.	2.9	32
8	Dual Self-Healing Mechanisms with Microcapsules and Shape Memory Alloys in Reinforced Concrete. Journal of Materials in Civil Engineering, 2018, 30, 04017277.	2.9	24
9	Prediction of friction stir weld quality without and with signal features. International Journal of Advanced Manufacturing Technology, 2018, 95, 1989-2003.	3.0	24
10	Standard of Care for the Practicing Structural Engineer. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2018, 10, .	1.4	1
11	Phased Array Ultrasonic Testing for Post-Weld and OnLine Detection of Friction Stir Welding Defects. Research in Nondestructive Evaluation, 2017, 28, 187-210.	1.1	24
12	Strengthening by Stiffening: Fiber-Reinforced Plastic Configuration Effects on Behavior of Shear-Deficient Steel Beams. Journal of Composites for Construction, 2017, 21, .	3.2	8
13	Analysis of thin-walled steel beams retrofitted by bonding GFRP stiffeners: Numerical model and investigation of design parameters. Engineering Structures, 2017, 153, 166-179.	5.3	12
14	Evaluation of Self-Healing Efficiency of Reinforced Concrete Beams with Calcium Nitrate Microcapsules. Transportation Research Record, 2017, 2629, 63-72.	1.9	2
15	On-Line Detection of Friction Stir Welded Joints by High Temperature Phased Array Ultrasonic Inspection and Control of Weld Process Parameters. , 2017, , .		2
16	Personal Liability of the Practicing Engineer. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2016, 8, 04516002.	1.4	3
17	Impact of Friction Stir Welding (FSW) Process Parameters on Thermal Modeling and Heat Generation of Aluminum Alloy Joints. Acta Metallurgica Sinica (English Letters), 2016, 29, 869-883.	2.9	59
18	Developing a Model to Estimate Pile Setup for Individual Soil Layers on the Basis of Piezocone Penetration Test Data. Transportation Research Record, 2016, 2579, 17-31.	1.9	13

#	Article	IF	Citations
19	Effect of initial panel slenderness on efficiency of Strengthening-By-Stiffening using FRP for shear deficient steel beams. Thin-Walled Structures, 2016, 105, 147-155.	5.3	10
20	Prediction of tensile strength of friction stir weld joints with adaptive neuro-fuzzy inference system (ANFIS) and neural network. Materials and Design, 2016, 92, 288-299.	7.0	87
21	Ultrasonic Signal Characteristics for Nondestructive-Yield Detection in Steel Structures. Journal of Materials in Civil Engineering, 2015, 27, 04014271.	2.9	5
22	Effect of adhesive type on Strengthening-By-Stiffening for shear-deficient thin-walled steel structures. International Journal of Adhesion and Adhesives, 2015, 58, 80-87.	2.9	16
23	Influence of Weld Defects and Postweld Heat Treatment of Gas Tungsten Arc-Welded AA-6061-T651 Aluminum Alloy. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	2.2	13
24	Field Test and Finite-Element Modeling of a Three-Span Continuous-Girder Bridge. Journal of Performance of Constructed Facilities, 2014, 28, 136-148.	2.0	9
25	Effect of Weld Defects on Tensile Properties of Lightweight Materials and Correlations With Phased Array Ultrasonic Nondestructive Evaluation. , 2014, , .		2
26	Effect of post-weld heat treatment and electrolytic plasma processing on tungsten inert gas welded AISI 4140 alloy steel. Materials & Design, 2014, 54, 6-13.	5.1	26
27	Dicyclopentadiene and Sodium Silicate Microencapsulation for Self-Healing of Concrete. Journal of Materials in Civil Engineering, 2014, 26, 886-896.	2.9	98
28	Calibrated Finite Element Modeling of Creep Behavior of Prestressed Concrete Bridge Girders. ACI Structural Journal, 2014, 111, .	0.2	4
29	Force transfer mechanism in positive moment continuity details for prestressed concrete girder bridges. Computers and Concrete, 2014, 14, 109-125.	0.7	5
30	Reliability Assessment of FRP-Strengthened Concrete Bridge Girders in Shear. Journal of Composites for Construction, 2013, 17, 91-100.	3.2	26
31	Enforceability of Limitation of Liability Clauses in Engineering Contracts. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2013, 5, 128-135.	1.4	9
32	Field monitoring of positive moment continuity detail in a skewed prestressed concrete bulb-tee girder bridge. PCI Journal, 2013, 58, 80-90.	0.6	3
33	Effects of Residual Stresses and the Post Weld Heat Treatments of TIG Welded Aluminum Alloy AA6061-T651. , 2012, , .		1
34	Overview of Potential and Existing Applications of Shape Memory Alloys in Bridges. Journal of Bridge Engineering, 2011, 16, 305-315.	2.9	62
35	Reliability Analysis of CPT Measurements for Calculating Undrained Shear Strength. Geotechnical Testing Journal, 2011, 34, 721-729.	1.0	3
36	Effect of Fiber-Reinforced Polymer Configuration on Reliability of Flexurally Strengthened Concrete Beams. Transportation Research Record, 2010, 2172, 201-209.	1.9	0

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37	Novel Technique for Inhibiting Buckling of Thin-Walled Steel Structures Using Pultruded Glass FRP Sections. Journal of Composites for Construction, 2009, 13, 547-557.	3.2	35
38	Statistical Assessment of Repeatability of CPT Measurements. , 2009, , .		6
39	Modeling Performance of Residential Wood Frame Structures Subjected to Hurricane Storm Surge. , 2009, , .		5
40	Survey of Short- and Medium-Span Bridge Damage Induced by Hurricane Katrina. Journal of Bridge Engineering, 2008, 13, 377-387.	2.9	69
41	Extending the service life of bridges using continuous decks. PCI Journal, 2008, 53, 96-111.	0.6	7
42	Flexural Resistance Models for Concrete Decks Reinforced with Fiber-Reinforced Polymer Bars. Transportation Research Record, 2006, 1976, 190-196.	1.9	2
43	Discussion of â€œWarping Stresses in Curved Box Girder Bridges: Case Studyâ€•by Ayman M. Okeil and Sherif El-Tawil. Journal of Bridge Engineering, 2005, 10, 758-758.	2.9	0
44	Closure to â€œWarping Stresses in Curved Box Girder Bridges: Case Studyâ€•by Ayman M. Okeil and Sherif El-Tawil. Journal of Bridge Engineering, 2005, 10, 758-759.	2.9	1
45	Partial Continuity in Bridge Girders with Jointless Decks. Practice Periodical on Structural Design and Construction, 2005, 10, 229-238.	1.3	23
46	Warping Stresses in Curved Box Girder Bridges: Case Study. Journal of Bridge Engineering, 2004, 9, 487-496.	2.9	7
47	Hybrid Bridge Strengthening Structural Rehabilitation of Blue Heron Bridge, West Palm Beach, Florida. Transportation Research Record, 2004, 1892, 256-261.	1.9	1
48	Considerations for Opening New Access Holes in Curved Box Girders. Practice Periodical on Structural Design and Construction, 2002, 7, 26-36.	1.3	2
49	Flexural Reliability of Reinforced Concrete Bridge Girders Strengthened with Carbon Fiber-Reinforced Polymer Laminates. Journal of Bridge Engineering, 2002, 7, 290-299.	2.9	71
50	Static and Fatigue Analyses of RC Beams Strengthened with CFRP Laminates. Journal of Composites for Construction, 2001, 5, 258-267.	3.2	84
51	Canadian Bridge Design Code Provisions for Fiber-Reinforced Structures. Journal of Composites for Construction, 2001, 5, 137-138.	3.2	5
52	Effects of ductility on seismic response of piping systems and their implication on design and qualification. Nuclear Engineering and Design, 1996, 166, 69-83.	1.7	9
53	Design of FRP Systems for Strengthening Concrete Girders in Shear. , 0, , .		5