

Ayman M Okeil

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2244005/publications.pdf>

Version: 2024-02-01

53
papers

963
citations

516710

16
h-index

454955

30
g-index

55
all docs

55
docs citations

55
times ranked

845
citing authors

#	ARTICLE	IF	CITATIONS
1	Dicyclopentadiene and Sodium Silicate Microencapsulation for Self-Healing of Concrete. <i>Journal of Materials in Civil Engineering</i> , 2014, 26, 886-896.	2.9	98
2	Prediction of tensile strength of friction stir weld joints with adaptive neuro-fuzzy inference system (ANFIS) and neural network. <i>Materials and Design</i> , 2016, 92, 288-299.	7.0	87
3	Static and Fatigue Analyses of RC Beams Strengthened with CFRP Laminates. <i>Journal of Composites for Construction</i> , 2001, 5, 258-267.	3.2	84
4	Flexural Reliability of Reinforced Concrete Bridge Girders Strengthened with Carbon Fiber-Reinforced Polymer Laminates. <i>Journal of Bridge Engineering</i> , 2002, 7, 290-299.	2.9	71
5	Survey of Short- and Medium-Span Bridge Damage Induced by Hurricane Katrina. <i>Journal of Bridge Engineering</i> , 2008, 13, 377-387.	2.9	69
6	Overview of Potential and Existing Applications of Shape Memory Alloys in Bridges. <i>Journal of Bridge Engineering</i> , 2011, 16, 305-315.	2.9	62
7	Impact of Friction Stir Welding (FSW) Process Parameters on Thermal Modeling and Heat Generation of Aluminum Alloy Joints. <i>Acta Metallurgica Sinica (English Letters)</i> , 2016, 29, 869-883.	2.9	59
8	Novel Technique for Inhibiting Buckling of Thin-Walled Steel Structures Using Pultruded Glass FRP Sections. <i>Journal of Composites for Construction</i> , 2009, 13, 547-557.	3.2	35
9	A Fully Coupled Thermomechanical Model of Friction Stir Welding (FSW) and Numerical Studies on Process Parameters of Lightweight Aluminum Alloy Joints. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 1-18.	2.9	32
10	Reliability Assessment of FRP-Strengthened Concrete Bridge Girders in Shear. <i>Journal of Composites for Construction</i> , 2013, 17, 91-100.	3.2	26
11	Effect of post-weld heat treatment and electrolytic plasma processing on tungsten inert gas welded AISI 4140 alloy steel. <i>Materials & Design</i> , 2014, 54, 6-13.	5.1	26
12	Phased Array Ultrasonic Testing for Post-Weld and OnLine Detection of Friction Stir Welding Defects. <i>Research in Nondestructive Evaluation</i> , 2017, 28, 187-210.	1.1	24
13	Dual Self-Healing Mechanisms with Microcapsules and Shape Memory Alloys in Reinforced Concrete. <i>Journal of Materials in Civil Engineering</i> , 2018, 30, 04017277.	2.9	24
14	Prediction of friction stir weld quality without and with signal features. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 1989-2003.	3.0	24
15	Partial Continuity in Bridge Girders with Jointless Decks. <i>Practice Periodical on Structural Design and Construction</i> , 2005, 10, 229-238.	1.3	23
16	Structural effects of temperature gradient on a continuous prestressed concrete girder bridge: analysis and field measurements. <i>Structure and Infrastructure Engineering</i> , 2020, 16, 1539-1550.	3.7	18
17	Effect of adhesive type on Strengthening-By-Stiffening for shear-deficient thin-walled steel structures. <i>International Journal of Adhesion and Adhesives</i> , 2015, 58, 80-87.	2.9	16
18	Influence of Weld Defects and Postweld Heat Treatment of Gas Tungsten Arc-Welded AA-6061-T651 Aluminum Alloy. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015, 137, .	2.2	13

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	Building a multi-signal based defect prediction system for a friction stir welding process. Procedia Manufacturing, 2019, 38, 1775-1791.	1.9	9
27	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
28	Warping Stresses in Curved Box Girder Bridges: Case Study. Journal of Bridge Engineering, 2004, 9, 487-496.	2.9	7
29	Extending the service life of bridges using continuous decks. PCI Journal, 2008, 53, 96-111.	0.6	7
30	Statistical Assessment of Repeatability of CPT Measurements. , 2009, , .		6
31	Canadian Bridge Design Code Provisions for Fiber-Reinforced Structures. Journal of Composites for Construction, 2001, 5, 137-138.	3.2	5
32	Modeling Performance of Residential Wood Frame Structures Subjected to Hurricane Storm Surge. , 2009, , .		5
33	Ultrasonic Signal Characteristics for Nondestructive-Yield Detection in Steel Structures. Journal of Materials in Civil Engineering, 2015, 27, 04014271.	2.9	5
34	Force transfer mechanism in positive moment continuity details for prestressed concrete girder bridges. Computers and Concrete, 2014, 14, 109-125.	0.7	5
35	Design of FRP Systems for Strengthening Concrete Girders in Shear. , 0, , .		5
36	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

#	ARTICLE	IF	CITATIONS
37	Calibrated Finite Element Modeling of Creep Behavior of Prestressed Concrete Bridge Girders. ACI Structural Journal, 2014, 111, .	0.2	4
38	Load Testing and Rating of Cast-in-Place Concrete Box Culverts. Journal of Performance of Constructed Facilities, 2020, 34, 04020008.	2.0	4
39	Personal Liability of the Practicing Engineer. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2016, 8, 04516002.	1.4	3
40	Reliability Analysis of CPT Measurements for Calculating Undrained Shear Strength. Geotechnical Testing Journal, 2011, 34, 721-729.	1.0	3
41	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
42	Considerations for Opening New Access Holes in Curved Box Girders. Practice Periodical on Structural Design and Construction, 2002, 7, 26-36.	1.3	2
43	Flexural Resistance Models for Concrete Decks Reinforced with Fiber-Reinforced Polymer Bars. Transportation Research Record, 2006, 1976, 190-196.	1.9	2
44	Effect of Weld Defects on Tensile Properties of Lightweight Materials and Correlations With Phased Array Ultrasonic Nondestructive Evaluation. , 2014, , .		2
45	Evaluation of Self-Healing Efficiency of Reinforced Concrete Beams with Calcium Nitrate Microcapsules. Transportation Research Record, 2017, 2629, 63-72.	1.9	2
46	On-Line Detection of Friction Stir Welded Joints by High Temperature Phased Array Ultrasonic Inspection and Control of Weld Process Parameters. , 2017, , .		2
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	Closure to "Warping Stresses in Curved Box Girder Bridges: Case Study" by Ayman M. Okeil and Sherif El-Tawil. Journal of Bridge Engineering, 2005, 10, 758-759.	2.9	1
49	Effects of Residual Stresses and the Post Weld Heat Treatments of TIG Welded Aluminum Alloy AA6061-T651. , 2012, , .		1
50	Standard of Care for the Practicing Structural Engineer. Journal of Legal Affairs and Dispute Resolution in Engineering and Construction, 2018, 10, .	1.4	1
51	Discussion of "Warping Stresses in Curved Box Girder Bridges: Case Study" by Ayman M. Okeil and Sherif El-Tawil. Journal of Bridge Engineering, 2005, 10, 758-758.	2.9	0
52	Effect of Fiber-Reinforced Polymer Configuration on Reliability of Flexurally Strengthened Concrete Beams. Transportation Research Record, 2010, 2172, 201-209.	1.9	0
53	Investigation of Empirical Deck Design in Bridge Widening. Journal of Bridge Engineering, 2020, 25, 04020079.	2.9	0