

# H.E.M. Sallam

## List of Publications by Year in descending order

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109  
papers

1,671  
citations

257450

24  
h-index

361022

35  
g-index

111  
all docs

111  
docs citations

111  
times ranked

811  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of washer size and tightening torque on the performance of bolted joints in composite structures. <i>Composite Structures</i> , 2006, 73, 310-317.	5.8	135
2	Experimental and analytical investigation into the flexural performance of RC beams with partially and fully bonded NSM FRP bars/strips. <i>Composite Structures</i> , 2015, 122, 113-126.	5.8	97
3	Effect of axial stiffness of NSM FRP reinforcement and concrete cover confinement on flexural behaviour of strengthened RC beams: Experimental and numerical study. <i>Engineering Structures</i> , 2018, 173, 987-1001.	5.3	63
4	Flexural behavior of RC beams strengthened by NSM GFRP Bars having different end conditions. <i>Composite Structures</i> , 2016, 147, 131-142.	5.8	51
5	Prediction of failure stages for double lap joints using finite element analysis and artificial neural networks. <i>Engineering Failure Analysis</i> , 2019, 97, 242-257.	4.0	50
6	Experimental and numerical study of RC beams strengthened with bottom and side NSM GFRP bars having different end conditions. <i>Construction and Building Materials</i> , 2017, 149, 882-903.	7.2	49
7	Wear and Corrosion Behavior of Al-Si Matrix Composite Reinforced with Alumina. <i>Journal of Bio- and Tribo-Corrosion</i> , 2015, 1, 1.	2.6	48
8	Composite Patch Configuration and Prestress Effect on SIFs for Inclined Cracks in Steel Plates. <i>Journal of Structural Engineering</i> , 2017, 143, .	3.4	37
9	Structural behavior of hybrid CFRP/steel bolted staggered joints. <i>Construction and Building Materials</i> , 2018, 190, 1192-1207.	7.2	36
10	Mode II Fracture Toughness of Hybrid FRCs. <i>International Journal of Concrete Structures and Materials</i> , 2015, 9, 475-486.	3.2	35
11	Investigation of fatigue crack propagation in steel pipeline repaired by glass fiber reinforced polymer. <i>Composite Structures</i> , 2020, 242, 112189.	5.8	35
12	Significance of crack tip plasticity to early notch fatigue crack growth. <i>International Journal of Fatigue</i> , 2004, 26, 173-182.	5.7	32
13	Flexural behavior of strengthened steel-concrete composite beams by various plating methods. <i>Journal of Constructional Steel Research</i> , 2010, 66, 1081-1087.	3.9	32
14	Flexural behavior of steel beams strengthened by carbon fiber reinforced polymer plates – Three dimensional finite element simulation. <i>Materials &amp; Design</i> , 2010, 31, 1317-1324.	5.1	32
15	Prevention of Peeling Failure in Plated Beams. <i>Journal of Advanced Concrete Technology</i> , 2004, 2, 419-429.	1.8	31
16	Composite Patch Configuration and Prestraining Effect on Crack Tip Deformation and Plastic Zone for Inclined Cracks. <i>Journal of Composites for Construction</i> , 2016, 20, .	3.2	30
17	Mode I notch fatigue crack growth behaviour under constant amplitude loading and due to the application of a single tensile overload. <i>International Journal of Fatigue</i> , 2004, 26, 183-192.	5.7	29
18	Evaluation of Steel I-Beams Strengthened by Various Plating Methods. <i>Advances in Structural Engineering</i> , 2006, 9, 535-544.	2.4	29

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19	Failure analysis and flexural behavior of high chromium white cast iron and AISI4140 Steel bimetal beams. <i>Materials &amp; Design</i> , 2013, 52, 974-980.	5.1	27
20	Wear and Corrosion Behavior of High-Cr White Cast Iron Alloys in Different Corrosive Media. <i>Journal of Bio- and Tribo-Corrosion</i> , 2015, 1, 1.	2.6	27
21	Efficient 3D modeling of damage in composite materials. <i>Journal of Composite Materials</i> , 2015, 49, 817-828.	2.4	26
22	Crack sensitivity of bolted metallic and polymeric joints. <i>Engineering Fracture Mechanics</i> , 2015, 147, 55-71.	4.3	26
23	Mode II stress intensity factors for central slant cracks with frictional surfaces in uniaxially compressed plates. <i>International Journal of Fatigue</i> , 2002, 24, 1213-1222.	5.7	25
24	Effect of clamping force and friction coefficient on stress intensity factor of cracked lapped joints. <i>Engineering Failure Analysis</i> , 2011, 18, 1550-1558.	4.0	25
25	Reliability study on fracture and fatigue behavior of pavement materials using SCB specimen. <i>International Journal of Pavement Engineering</i> , 2020, 21, 1563-1575.	4.4	25
26	FATIGUE CRACK GROWTH DUE TO TWO SUCCESSIVE SINGLE OVERLOADS. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1998, 21, 1537-1547.	3.4	24
27	Experimental gamma-ray attenuation and theoretical optimization of barite concrete mixtures with nanomaterials against neutrons and gamma rays. <i>Construction and Building Materials</i> , 2021, 289, 123190.	7.2	24
28	Deformation behaviour at the tip of a physically short fatigue crack due to a single overload. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1999, 22, 145-151.	3.4	22
29	Effect of strain rate, thickness, welding on the J <sub>∞</sub> “R curve for polyethylene pipe materials. <i>Theoretical and Applied Fracture Mechanics</i> , 2014, 74, 164-180.	4.7	22
30	Effect of RAP content on flexural behavior and fracture toughness of flexible pavement. <i>Latin American Journal of Solids and Structures</i> , 2019, 16, .	1.0	22
31	Application of the Maximum Undamaged Defect Size (d <sub>max</sub> ) Concept in Fiber-Reinforced Concrete Pavements. <i>Arabian Journal for Science and Engineering</i> , 2014, 39, 8499-8506.	1.1	21
32	CORRELATION OF FATIGUE CRACK GROWTH BY CRACK TIP DEFORMATION BEHAVIOUR. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1995, 18, 93-104.	3.4	18
33	Tribological and Mechanical Properties of Epoxy Reinforced by Hybrid Nanoparticles. <i>Latin American Journal of Solids and Structures</i> , 2021, 18, .	1.0	18
34	The effect of pH on the mechanism of corrosion and stress corrosion and degradation of mechanical properties of AA6061 and Nextel 440 fiber-reinforced AA6061 composite. <i>Corrosion Science</i> , 1998, 40, 141-153.	6.6	17
35	An Assessment of ASTM E1922 for Measuring the Translaminar Fracture Toughness of Laminated Polymer Matrix Composite Materials. <i>Polymers</i> , 2021, 13, 3129.	4.5	17
36	The influence of interaction between NSM and internal reinforcements on the structural behavior of upgrading RC beams. <i>Composite Structures</i> , 2020, 234, 111751.	5.8	16

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37	Discussion of "Flexural Strengthening of Steel Bridges with High Modulus CFRP Strips" by David Schnerch and Sami Rizkalla. Journal of Bridge Engineering, 2010, 15, 117-117.	2.9	15
38	Failure Analysis of Composite Repaired Pipelines with an Inclined Crack under Static Internal Pressure. Procedia Structural Integrity, 2017, 5, 123-130.	0.8	15
39	Field-testing and numerical simulation of vantage steel bridge. Journal of Civil Structural Health Monitoring, 2020, 10, 443-456.	3.9	15
40	Intrinsic fracture toughness of fiber reinforced and functionally graded concretes: An innovative approach. Engineering Fracture Mechanics, 2021, 258, 108098.	4.3	15
41	Flexural Strength and Toughness of Austenitic Stainless Steel Reinforced High-Cr White Cast Iron Composite. Journal of Materials Engineering and Performance, 2013, 22, 3769-3777.	2.5	13
42	Behaviors of a cracked lapped joint under mixed mode loading. Engineering Failure Analysis, 2014, 36, 134-146.	4.0	13
43	Identification of damage stages in bolted metallic joints for different joint geometries and tightening torques using statistical analysis. Advances in Structural Engineering, 2020, 23, 911-923.	2.4	13
44	Flexural behavior of functionally graded polymeric composite beams. Journal of Industrial Textiles, 2022, 51, 4268S-4289S.	2.4	13
45	Flexural behavior of functionally graded concrete beams with different patterns. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	3.8	13
46	Discussion: Mechanical properties of hybrid fibre-reinforced concrete " analytical modelling and experimental behaviour. Magazine of Concrete Research, 2016, 68, 1183-1186.	2.0	12
47	The effects of matrix and fiber properties on the mechanical behavior and acoustic emission in continuous fiber reinforced metal matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1998, 247, 88-96.	5.6	11
48	Progressive failure prediction of pinned joint in quasi-isotropic laminates used in pipelines. Latin American Journal of Solids and Structures, 2018, 15, .	1.0	11
49	Deformation and load transfer analysis of staggered composite-steel lap joints subjected to progressive damage. Engineering Structures, 2020, 215, 110690.	5.3	11
50	Mixed Mode Crack Initiation and Growth in Notched Semi-circular Specimens: Three Dimensional Finite Element Analysis. Asian Journal of Materials Science, 2012, 4, 34-44.	0.6	11
51	Effect of crack and fiber length on mode I fracture toughness of matrix-cracked FRC beams. Construction and Building Materials, 2022, 341, 127924.	7.2	11
52	Stress intensity factors of a shortly kinked slant central crack with frictional surfaces in uniaxially loaded plates. International Journal of Fatigue, 2003, 25, 283-298.	5.7	10
53	Simulation of mixed mode I/II cyclic deformation at the tip of a short kinked inclined crack with frictional surfaces. International Journal of Fatigue, 2003, 25, 743-753.	5.7	10
54	Progressive failure analysis of a hip joint based on extended finite element method. Engineering Failure Analysis, 2020, 117, 104829.	4.0	10

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55	Stress intensity factors of a central slant crack with frictional surfaces in plates with biaxial loading. <i>International Journal of Fracture</i> , 2004, 129, 141-148.	2.2	9
56	Evaluation of Fracture Toughness Behavior of Polyethylene Pipe Materials. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 2015, 137, .	0.6	9
57	Real fracture toughness of FRC and FGC: size and boundary effects. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	3.8	9
58	Fracture energy of hybrid polypropylene-steel fiber high strength concrete. <i>WIT Transactions on the Built Environment</i> , 2012, , .	0.0	8
59	Locating the site of diagonal tension crack initiation and path in reinforced concrete beams. <i>Ain Shams Engineering Journal</i> , 2015, 6, 17-24.	6.1	7
60	Fracture behavior of roll bonded Al-brass-Al multilayer composites - Concept of the maximum undamaged defect size (d). <i>Procedia Structural Integrity</i> , 2018, 13, 686-693.	0.8	7
61	The failure stages of bolted double-lap metallic joints: experimental study. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2018, 40, 1.	1.6	7
62	The Most Effective Index for Pavement Management of Urban Major Roads at a Network Level. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 4615-4626.	3.0	7
63	Long-term behavior of normal weight concrete containing hybrid nanoparticles subjected to gamma radiation. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	3.8	7
64	Effects of tensile reinforcing steel ratio and Near-Surface-Mounted bar development length on the structural behavior of strengthened RC beams. <i>Latin American Journal of Solids and Structures</i> , 2020, 17, .	1.0	7
65	Mechanical and Tribological Behavior of Functionally Graded Unidirectional Glass Fiber-Reinforced Epoxy Composites. <i>Polymers</i> , 2022, 14, 2057.	4.5	7
66	The Applicability of TOPSIS- and Fuzzy TOPSIS-Based Taguchi Optimization Approaches in Obtaining Optimal Fiber-Reinforced Concrete Mix Proportions. <i>Buildings</i> , 2022, 12, 796.	3.1	7
67	A comparison of two Nextel 440 Fibre reinforced aluminium composites using acoustic emission. <i>Journal of Materials Science</i> , 1997, 32, 3135-3142.	3.7	6
68	Mixed mode fracture behavior of concrete pavement containing RAP - 3D finite element analysis. <i>Procedia Structural Integrity</i> , 2017, 5, 19-26.	0.8	6
69	Structural Behavior of RC Beams Containing Unreinforced Drilled Openings with and without CFRP Strengthening. <i>Polymers</i> , 2022, 14, 2034.	4.5	6
70	Experimental assessment of different strengthening techniques for opening in reinforced concrete beams. <i>Frattura Ed Integrita Strutturale</i> , 2022, 16, 549-565.	0.9	5
71	Effect of rest time after application of single overload cycle on fatigue life. <i>Engineering Fracture Mechanics</i> , 1996, 54, 147-153.	4.3	4
72	FRONT DEVELOPMENT OF A LONG FATIGUE CRACK DURING ITS GROWTH. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 1997, 20, 849-862.	3.4	4

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73	Mechanical Behavior of Welded and Un-Welded Polyethylene Pipe Materials. , 2013, , .		4
74	Plastic Load of Precracked Polyethylene Miter Pipe Bends Subjected to In-Plane Bending Moment1. Journal of Pressure Vessel Technology, Transactions of the ASME, 2013, 135, .	0.6	4
75	Structural Behavior of RC Beams Containing a Pre- Diagonal Tension Crack. Latin American Journal of Solids and Structures, 2018, 15, .	1.0	4
76	Fatigue Crack Tip Plasticity for Inclined Cracks. International Journal of Steel Structures, 2018, 18, 443-455.	1.3	4
77	Notch Tensile Strength of Carbon Fiber/Epoxy Composite Plate with a Center Hole under Static and Cyclic Loading. Procedia Structural Integrity, 2019, 17, 292-299.	0.8	4
78	Investigation on integrity assessment tests of WRB metal-polymer-metal composites. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	3.8	4
79	The Effect of Reinforcement Preheating Temperatures on Tribological Behavior of Advanced Quranic Metal-Matrix Composites (QMMC). Materials, 2022, 15, 659.	2.9	4
80	Fracture toughness of matrix cracked FRC and FGC beams using equivalent TPFM. Frattura Ed Integrita Strutturale, 2022, 16, 73-88.	0.9	4
81	Finite element simulation of the mechanics of flat contact pad fretting fatigue tests. Fatigue and Fracture of Engineering Materials and Structures, 2003, 26, 627-639.	3.4	3
82	Limit Load Determination and Material Characterization of Cracked Polyethylene Miter Pipe Bends1. Journal of Pressure Vessel Technology, Transactions of the ASME, 2014, 136, .	0.6	3
83	Discussion of "Fatigue Behavior of Cracked Steel Plates Strengthened with Different CFRP Systems and Configurations" by Hai-Tao Wang, Gang Wu, and Jian-Biao Jiang. Journal of Composites for Construction, 2017, 21, 07016004.	3.2	3
84	Effects of composite patching on cyclic crack tip deformation of cracked pinned metallic joints. Journal of Adhesion, 2021, 97, 1561-1577.	3.0	3
85	Experimental and numerical determination of critical osmotic blister size affecting the strength of aged FRP seawater pipe. Polymers and Polymer Composites, 2021, 29, 456-469.	1.9	3
86	Time-dependent behavior of NSM strengthened RC beams under sustained loading. Engineering Structures, 2021, 247, 113210.	5.3	3
87	Mechanical and Bond Behavior of an Advanced Quranic Metal-Matrix Composite Material (QMMC). , 2019, , .		3
88	Effect of different parameters controlling the flexural behavior of RC beams strengthened with NSM using nonlinear finite element analysis. Frattura Ed Integrita Strutturale, 2020, 14, 106-123.	0.9	3
89	Effect of Loading Rate and Pipe Wall Thickness on the Strength and Toughness of Welded and Unwelded Polyethylene Pipes. Journal of Pressure Vessel Technology, Transactions of the ASME, 2021, 143, .	0.6	3
90	Evaluation of Fracture Toughness Behavior of Polyethylene Pipe Materials. , 2014, , .		2

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91	Validation of Linear Elastic Fracture Mechanics in Predicting the Fracture Toughness of Polyethylene Pipe Materials. , 2015, , .		2
92	Mixed Mode Crack Growth in Functionally Graded Material Under Three-Point Bending. Procedia Structural Integrity, 2019, 17, 284-291.	0.8	2
93	Finite element analysis of the behavior of bonded composite patches repair in aircraft structures. Frattura Ed Integrita Strutturale, 2020, 14, 128-138.	0.9	2
94	Effect of reinforcement type on structural behavior of RC beams containing recycled aggregate. Frattura Ed Integrita Strutturale, 2022, 16, 294-307.	0.9	2
95	DISCUSSION ON THE PAPER EFFECT OF A SINGLE PEAK OVERLOAD ON PHYSICALLY SHORT FATIGUE CRACK RETARDATION IN AN AXLE-STEEL, BY Z. CHANGQING, J. YUCHENG AND Y. GUANGLI DISCUSSION BY. Fatigue and Fracture of Engineering Materials and Structures, 1996, 19, 1055-1057.	3.4	1
96	Discussion: The effect of alkali-silica-reaction on the fatigue behaviour of plain concrete tested in compression, indirect tension and flexure. Magazine of Concrete Research, 2001, 53, 353-355.	2.0	1
97	Limit Load of Pre-Cracked Polyethylene Miter Pipe Bends Subjected to In-Plane Bending Moment. , 2010, , .		1
98	Prediction of Crack Initiation Site in Fastener Hole of Composite Laminate. , 2015, , 187-198.		1
99	3-D finite element analysis of cyclic deformation at the front of a stationary crack. , 1995, , 281-288.		0
100	Effect of rest time after application of single overload cycle on fatigue life. Engineering Fracture Mechanics, 1997, 56, 841-842.	4.3	0
101	3-D Finite Element Analysis of Transient Heat Transfer and Thermal Stress in a Crowned Mandibular First Molar Tooth. , 2007, , .		0
102	Effect of Load Angle on Limit Load of Polyethylene Miter Pipe Bends. , 2010, , .		0
103	Limit Load Determination and Material Characterization of Cracked Polyethylene Miter Pipe Bends. , 2011, , .		0
104	Effect of Load Angle on Limit Load of Polyethylene Miter Pipe Bends1. Journal of Pressure Vessel Technology, Transactions of the ASME, 2014, 136, .	0.6	0
105	Peeling Prevention in Strengthened RC Beams Using End Cover Replacement. , 2018, , .		0
106	Mechanical Properties of Al/PU/Perforated CU/PU/Al Sandwich Composites. Materials Research, 2021, 24, .	1.3	0
107	Effect of Poisson's Ratio on Stress/Strain Concentration at Circular Holes in Elastic Plates Subjected to Biaxial Loading " Three Dimensional Finite Element Analysis. , 2016, , 45-55.		0
108	Investigation of Finger Plate Expansion Devices Behavior. , 2019, , .		0

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109	The effect of alkali-silica-reaction on the fatigue behaviour of plain concrete tested in compression, indirect tension and flexure. Magazine of Concrete Research, 2001, 53, 353-355.	2.0	0