

M Sy Al-Haik

List of Publications by Year in descending order

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92
papers

2,823
citations

270111

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198040

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94
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94
docs citations

94
times ranked

3735
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic/viscoplastic characterization of additively manufactured composite based on continuous carbon fibers. <i>Aerospace Science and Technology</i> , 2021, 111, 106562.	2.5	8
2	Mechanical characterization of additively manufactured fiber-reinforced composites. <i>Aerospace Science and Technology</i> , 2021, 113, 106653.	2.5	36
3	Metal organic frameworks modification of carbon fiber composite interface. <i>Composites Part B: Engineering</i> , 2021, 224, 109197.	5.9	21
4	Effect of Nano-Reinforcement Topologies on the Viscoelastic Performance of Carbon Nanotube/Carbon Fiber Hybrid Composites. <i>Nanomaterials</i> , 2020, 10, 1213.	1.9	9
5	Carbon nanotube “ Carbon fiber reinforced polymer composites with extended fatigue life. <i>Composites Part B: Engineering</i> , 2019, 164, 537-545.	5.9	43
6	Enhancing the Viscoelastic Performance of Carbon Fiber Composites by Incorporating CNTs and ZnO Nanofillers. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 2281.	1.3	8
7	Interlaminar fracture toughness of hybrid carbon fiber“carbon nanotubes“reinforced polymer composites. <i>Polymer Composites</i> , 2019, 40, E1470.	2.3	26
8	Mechanical and Electrical Characterization of Carbon Fiber/Bucky Paper/Zinc Oxide Hybrid Composites. <i>Journal of Carbon Research</i> , 2018, 4, 6.	1.4	9
9	Hybrid ZnO Nanorod Grafted Carbon Fiber Reinforced Polymer Composites; Randomly versus Radially Aligned Long ZnO Nanorods Growth. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 4182-4188.	0.9	8
10	A Review on Polymeric Nanocomposites. , 2018, , 113-146.		21
11	Electromagnetic Shielding Effectiveness of a Hybrid Carbon Nanotube/Glass Fiber Reinforced Polymer Composite. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2016, 138, .	0.8	20
12	Viscoplastic characterization and modeling of hybrid carbon fiber/carbon nanotubes reinforced composites. <i>Composites Part B: Engineering</i> , 2016, 99, 63-74.	5.9	23
13	Ballistic damage of hybrid composite materials. , 2016, , 121-143.		2
14	Effect of carbon nanotubes growth topology on the mechanical behavior of hybrid carbon nanotube/carbon fiber polymer composites. <i>Polymer Composites</i> , 2016, 37, 2639-2648.	2.3	13
15	Characterization of ZnO Piezoelectric Nanowires in Energy Harvesting for Fiber-Reinforced Composites. , 2015, , .		0
16	Effect of the Chirality on the Radiation Induced Damage of Carbon Nanotubes/Polyethylene Composites: A Molecular Dynamics Approach. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 270-279.	0.4	2
17	Viscoelastic behavior of epoxy/carbon fiber/Zno nano-rods hybrid composites. <i>Polymer Composites</i> , 2015, 36, 1967-1972.	2.3	6
18	Quasistatic and dynamic mechanical characterization of a woven carbon fiber“zinc oxide nanowires“epoxy composite. <i>Polymer Composites</i> , 2015, 36, 2184-2192.	2.3	6

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19	Computational Molecular Dynamics Study of Hybrid Composite Incorporating ZnO Nanowires. Journal of Computational and Theoretical Nanoscience, 2015, 12, 665-673.	0.4	3
20	A Novel In-Situ Nanoindentation Characterization of Phase Transforming Materials. Materials Research Society Symposia Proceedings, 2015, 1754, 19-24.	0.1	0
21	Mechanical properties of amorphous silicon carbonitride thin films at elevated temperatures. Journal of Materials Science, 2015, 50, 1553-1564.	1.7	40
22	Investigating the energy harvesting capabilities of a hybrid ZnO nanowires/carbon fiber polymer composite beam. Nanotechnology, 2015, 26, 095401.	1.3	23
23	Patterning the Stiffness of Elastomeric Nanocomposites by Magnetophoretic Control of Cross-linking Impeder Distribution. Materials, 2015, 8, 474-485.	1.3	14
24	Effect of Proton Irradiation on the Electrical Resistivity of Carbon Nanotube-Epoxy Composites. Nanoscience and Nanotechnology Letters, 2015, 7, 157-161.	0.4	3
25	Hybrid Composites Based on Carbon Fiber/Carbon Nanofilament Reinforcement. Materials, 2014, 7, 4182-4195.	1.3	22
26	Molecular Dynamics Simulations of Thermally Induced Damage on Asphaltene and Resins Aggregates. Journal of Computational and Theoretical Nanoscience, 2014, 11, 685-692.	0.4	1
27	Nanocharacterization of the negative stiffness of ferroelectric materials. Applied Physics Letters, 2014, 105, 082906.	1.5	4
28	Hybrid carbon nanotube-carbon fiber composites with improved in-plane mechanical properties. Composites Part B: Engineering, 2014, 66, 475-483.	5.9	84
29	Superior Damping of Hybrid Carbon Fiber Composites Grafted by ZnO Nanorods. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 187-193.	0.3	2
30	Mechanical characterization and impact damage assessment of a woven carbon fiber reinforced carbon nanotube-epoxy composite. Composites Science and Technology, 2013, 75, 42-48.	3.8	238
31	Synergistic electrical and thermal transport properties of hybrid polymeric nanocomposites based on carbon nanotubes and graphite nanoplatelets. Carbon, 2013, 64, 111-121.	5.4	137
32	Hybrid carbon fiber/carbon nanotube composites for structural damping applications. Nanotechnology, 2013, 24, 155704.	1.3	81
33	Reciprocal effects of the chirality and the surface functionalization on the drug delivery permissibility of carbon nanotubes. Soft Matter, 2013, 9, 11645-11649.	1.2	14
34	Vibration Damping Enhancement of Fiber Reinforced Polymer Composites With Surface Grown Zinc Oxide Nanorods. , 2013, , .		0
35	Integration of Carbon Nanotubes Into a Fiberglass Reinforced Polymer Composite and its Effects on Electromagnetic Shielding and Mechanical Properties. , 2013, , .		2
36	Mechanical Characterization of a Hybrid Carbon Nanotube/Carbon Fiber Reinforced Composite. , 2013, , .		1

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37	Temperature Dependent Viscoelastic Behavior of FRP/ZnO Nano-Rods Hybrid Nanocomposites. , 2013, , .		0
38	Effect of Moderate Magnetic Annealing on the Microstructure, Quasi-Static, and Viscoelastic Mechanical Behavior of a Structural Epoxy. Journal of Engineering Materials and Technology, Transactions of the ASME, 2012, 134, .	0.8	1
39	On and off-axis tension behavior of fiber reinforced polymer composites incorporating multi-walled carbon nanotubes. Journal of Composite Materials, 2012, 46, 1661-1675.	1.2	60
40	Enhanced vibration damping of carbon fibers-ZnO nanorods hybrid composites. Applied Physics Letters, 2012, 101, 073111.	1.5	37
41	A modified strong-contrast expansion for estimating the effective thermal conductivity of multiphase heterogeneous materials. Journal of Applied Physics, 2012, 112, .	1.1	25
42	Impact and Quasi-Static Mechanical Properties of a Carbon Fiber Reinforced Carbon Nanotube/Epoxy. , 2012, , .		2
43	Electrical conductivity of synergistically hybridized nanocomposites based on graphite nanoplatelets and carbon nanotubes. Nanotechnology, 2012, 23, 405202.	1.3	49
44	Effect of Chirality and Length on the Penetrability of Single-Walled Carbon Nanotubes into Lipid Bilayer Cell Membranes. Langmuir, 2012, 28, 7872-7879.	1.6	41
45	Characterization of Zinc Powder Compactions: Factors Affecting Mechanical Properties and Analytical Powder Metallurgy Models. Journal of Engineering Materials and Technology, Transactions of the ASME, 2012, 134, .	0.8	1
46	Optimization of stress wave propagation in a multilayered elastic/viscoelastic hybrid composite based on carbon fibers/carbon nanotubes. Polymer Composites, 2012, 33, 196-206.	2.3	10
47	Effect of carbon content on carbide morphology and mechanical properties of A.R. white cast iron with 10% tungsten. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 542, 113-126.	2.6	15
48	Effects of composition and transparency on photo and radioluminescence of $Y_2O_3:Eu$ complexes. Radiation Effects and Defects in Solids, 2011, 166, 501-512.	0.4	4
49	Using Multiscale Carbon Fiber/Carbon Nanotubes Composites for Damping Applications. , 2011, , .		0
50	Synthesis of WS_2 nanostructures from the reaction of WO_3 with CS_2 and mechanical characterization of WS_2 nanotube composites. Nanotechnology, 2011, 22, 285714.	1.3	19
51	Reliability-based design of blast-resistant composite laminates incorporating carbon nanotubes. Composite Structures, 2011, 93, 2042-2048.	3.1	14
52	Nanocharacterization of creep behavior of multiwall carbon nanotubes/epoxy nanocomposite. International Journal of Plasticity, 2011, 27, 887-901.	4.1	112
53	Mechanical properties of solid oxide fuel cell glass-ceramic seal at high temperatures. Journal of Power Sources, 2011, 196, 5599-5603.	4.0	30
54	Magnetic alignment of cellulose nanowhiskers in an all-cellulose composite. Polymer Bulletin, 2010, 65, 635-642.	1.7	53

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55	Creep properties of solid oxide fuel cell glass-ceramic seal G18. Journal of Power Sources, 2010, 195, 3631-3635.	4.0	26
56	A practical route for the characterization of zinc powder compacts with the aid of instrumented indentation and scratch tests. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2010, 528, 494-499.	2.6	3
57	Hybrid Carbon Fibers/Carbon Nanotubes Structures for Next Generation Polymeric Composites. Journal of Nanotechnology, 2010, 2010, 1-9.	1.5	19
58	Probabilistic Design of Blast Resistant Composites Using Carbon Nanotubes. , 2010, , .		2
59	Introducing Nanotechnology to Mechanical and Civil Engineering Students Through Materials Science Courses. Journal of Nano Education (Print), 2010, 2, 13-26.	0.3	3
60	Novel Growth of Multiscale Carbon Nanofilaments on Carbon and Glass Fibers. Nanoscience and Nanotechnology Letters, 2009, 1, 122-127.	0.4	8
61	A multi-objective optimization approach for design of blast-resistant composite laminates using carbon nanotubes. Composites Part B: Engineering, 2009, 40, 522-529.	5.9	19
62	Artificial intelligence techniques in simulation of viscoplasticity of polymeric composites. Polymer Composites, 2009, 30, 1701-1708.	2.3	10
63	Generation of carbon nanofilaments on carbon fibers at 550 Å°C. Carbon, 2009, 47, 3071-3078.	5.4	37
64	Effect of Low Field Magnetic Annealing on the Viscoleastic Behavior of a Structural Epoxy. , 2009, , .		0
65	Role of Polyethylene Glycol Integrity in Specific Receptor Targeting of Carbon Nanotubes to Cancer Cells. Nano Letters, 2009, 9, 751-757.	4.5	76
66	Realization of Nano-Resister Employing Single Electron Transistor. Journal of Computational and Theoretical Nanoscience, 2008, 5, 685-688.	0.4	0
67	Nanocharacterization of Proton Radiation Damage on Magnetically Oriented Epoxy. International Journal of Polymer Analysis and Characterization, 2007, 12, 413-430.	0.9	2
68	Investigation of the Nanomechanical and Tribological Properties of Tooth-Fillings Materials. , 2007, , 145.		0
69	Properties of carbon nanotube-polymer composites aligned in a magnetic field. Carbon, 2007, 45, 2037-2046.	5.4	184
70	Novel Graphitic Structures by Design. , 2007, , .		4
71	Novel Processing of Structural Epoxy for Shielding and Structural Applications. , 2007, , .		0
72	Molecular Dynamics Simulation of Magnetic Field Induced Orientation of Nanotube-Polymer Composite. Japanese Journal of Applied Physics, 2006, 45, 8984-8987.	0.8	4

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73	Molecular dynamics simulation of reorientation of polyethylene chains under a high magnetic field. <i>Molecular Simulation</i> , 2006, 32, 601-608.	0.9	12
74	The Effect of Gas Adsorption on Carbon Nanotubes Properties. <i>Journal of Computational and Theoretical Nanoscience</i> , 2006, 3, 664-669.	0.4	35
75	Prediction of nonlinear viscoelastic behavior of polymeric composites using an artificial neural network. <i>International Journal of Plasticity</i> , 2006, 22, 1367-1392.	4.1	114
76	Controlling Residual Stress in Metal Matrix Ceramic Fiber Composite. <i>Materials Research Society Symposia Proceedings</i> , 2006, 977, 1.	0.1	0
77	Adhesion Energy of Single-Wall Carbon Nanotube-Polyethylene Composite: Effect of Magnetic Field. <i>Journal of Computational and Theoretical Nanoscience</i> , 2006, 3, 243-248.	0.4	2
78	Adhesion energy in carbon nanotube-polyethylene composite: Effect of chirality. <i>Journal of Applied Physics</i> , 2005, 97, 074306.	1.1	52
79	Adhesion Energy of Single Wall Carbon Nanotube-Polyethylene Composite: Effect of Magnetic Field. , 2005, , .		0
80	ENHANCEMENT OF NANO-MECHANICAL PROPERTIES OF AN EPOXY PROCESSED UNDER HIGH MAGNETIC FIELDS. , 2005, , .		0
81	ALIGNMENT OF SINGLE WALL CARBON NANOTUBES UNDER HIGH MAGNETIC FIELDS UTILIZING A SELF-ORGANIZING OF EPOXY MATRIX. , 2005, , .		0
82	Mechanical properties of magnetically oriented epoxy. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004, 42, 1586-1600.	2.4	36
83	Explicit and implicit viscoplastic models for polymeric composite. <i>International Journal of Plasticity</i> , 2004, 20, 1875-1907.	4.1	45
84	Polymer-Mediated Alignment of Carbon Nanotubes under High Magnetic Fields. <i>Advanced Materials</i> , 2003, 15, 1918-1921.	11.1	163
85	Truncated-Newton training algorithm for neurocomputational viscoplastic model. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2003, 192, 2249-2267.	3.4	17
86	Enhancement of thermal and electrical properties of carbon nanotube polymer composites by magnetic field processing. <i>Journal of Applied Physics</i> , 2003, 94, 6034-6039.	1.1	500
87	A Composite Cylinder Model for the Prediction of Residual Stresses in Gamma-Titanium Composites. <i>Journal of Materials Engineering and Performance</i> , 2002, 11, 530-536.	1.2	2
88	Viscoplastic analysis of structural polymer composites using stress relaxation and creep data. <i>Composites Part B: Engineering</i> , 2001, 32, 165-170.	5.9	30
89	Durability study of a polymeric composite material for structural applications. <i>Polymer Composites</i> , 2001, 22, 779-792.	2.3	6
90	Residual stress development during fabrication and processing of gamma-titanium based composites. <i>Scripta Materialia</i> , 2001, 44, 179-185.	2.6	4

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91	State and Information Estimation for Linear and Nonlinear Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1999, 121, 318-320.	0.9	3
92	<title>System identification for a lumped heat exchanger using the extended information filter</title>., 1999, , .		2