

M Sy Al-Haik

List of Publications by Year in descending order

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93
papers

2,823
citations

236925

25
h-index

175258

52
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94
all docs

94
docs citations

94
times ranked

3263
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	2.5	500
2	Mechanical characterization and impact damage assessment of a woven carbon fiber reinforced carbon nanotube epoxy composite. <i>Composites Science and Technology</i> , 2013, 75, 42-48.	7.8	238
3	Properties of carbon nanotube polymer composites aligned in a magnetic field. <i>Carbon</i> , 2007, 45, 2037-2046.	10.3	184
4	Polymer-Mediated Alignment of Carbon Nanotubes under High Magnetic Fields. <i>Advanced Materials</i> , 2003, 15, 1918-1921.	21.0	163
5	Synergistic electrical and thermal transport properties of hybrid polymeric nanocomposites based on carbon nanotubes and graphite nanoplatelets. <i>Carbon</i> , 2013, 64, 111-121.	10.3	137
6	Prediction of nonlinear viscoelastic behavior of polymeric composites using an artificial neural network. <i>International Journal of Plasticity</i> , 2006, 22, 1367-1392.	8.8	114
7	Nanocharacterization of creep behavior of multiwall carbon nanotubes/epoxy nanocomposite. <i>International Journal of Plasticity</i> , 2011, 27, 887-901.	8.8	112
8	Hybrid carbon nanotube carbon fiber composites with improved in-plane mechanical properties. <i>Composites Part B: Engineering</i> , 2014, 66, 475-483.	12.0	84
9	Hybrid carbon fiber/carbon nanotube composites for structural damping applications. <i>Nanotechnology</i> , 2013, 24, 155704.	2.6	81
10	Role of Polyethylene Glycol Integrity in Specific Receptor Targeting of Carbon Nanotubes to Cancer Cells. <i>Nano Letters</i> , 2009, 9, 751-757.	9.1	76
11	On and off-axis tension behavior of fiber reinforced polymer composites incorporating multi-walled carbon nanotubes. <i>Journal of Composite Materials</i> , 2012, 46, 1661-1675.	2.4	60
12	Magnetic alignment of cellulose nanowhiskers in an all-cellulose composite. <i>Polymer Bulletin</i> , 2010, 65, 635-642.	3.3	53
13	Adhesion energy in carbon nanotube-polyethylene composite: Effect of chirality. <i>Journal of Applied Physics</i> , 2005, 97, 074306.	2.5	52
14	Electrical conductivity of synergistically hybridized nanocomposites based on graphite nanoplatelets and carbon nanotubes. <i>Nanotechnology</i> , 2012, 23, 405202.	2.6	49
15	Explicit and implicit viscoplastic models for polymeric composite. <i>International Journal of Plasticity</i> , 2004, 20, 1875-1907.	8.8	45
16	Carbon nanotube Carbon fiber reinforced polymer composites with extended fatigue life. <i>Composites Part B: Engineering</i> , 2019, 164, 537-545.	12.0	43
17	Effect of Chirality and Length on the Penetrability of Single-Walled Carbon Nanotubes into Lipid Bilayer Cell Membranes. <i>Langmuir</i> , 2012, 28, 7872-7879.	3.5	41
18	Mechanical properties of amorphous silicon carbonitride thin films at elevated temperatures. <i>Journal of Materials Science</i> , 2015, 50, 1553-1564.	3.7	40

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19	Generation of carbon nanofilaments on carbon fibers at 550 Å°C. Carbon, 2009, 47, 3071-3078.	10.3	37
20	Enhanced vibration damping of carbon fibers-ZnO nanorods hybrid composites. Applied Physics Letters, 2012, 101, 073111.	3.3	37
21	Mechanical properties of magnetically oriented epoxy. Journal of Polymer Science, Part B: Polymer Physics, 2004, 42, 1586-1600.	2.1	36
22	Mechanical characterization of additively manufactured fiber-reinforced composites. Aerospace Science and Technology, 2021, 113, 106653.	4.8	36
23	The Effect of Gas Adsorption on Carbon Nanotubes Properties. Journal of Computational and Theoretical Nanoscience, 2006, 3, 664-669.	0.4	35
24	Viscoplastic analysis of structural polymer composites using stress relaxation and creep data. Composites Part B: Engineering, 2001, 32, 165-170.	12.0	30
25	Mechanical properties of solid oxide fuel cell glass-ceramic seal at high temperatures. Journal of Power Sources, 2011, 196, 5599-5603.	7.8	30
26	Creep properties of solid oxide fuel cell glass-ceramic seal G18. Journal of Power Sources, 2010, 195, 3631-3635.	7.8	26
27	Interlaminar fracture toughness of hybrid carbon fiber-carbon nanotubes-reinforced polymer composites. Polymer Composites, 2019, 40, E1470.	4.6	26
28	A modified strong-contrast expansion for estimating the effective thermal conductivity of multiphase heterogeneous materials. Journal of Applied Physics, 2012, 112, .	2.5	25
29	Investigating the energy harvesting capabilities of a hybrid ZnO nanowires/carbon fiber polymer composite beam. Nanotechnology, 2015, 26, 095401.	2.6	23
30	Viscoplastic characterization and modeling of hybrid carbon fiber/carbon nanotubes reinforced composites. Composites Part B: Engineering, 2016, 99, 63-74.	12.0	23
31	Hybrid Composites Based on Carbon Fiber/Carbon Nanofilament Reinforcement. Materials, 2014, 7, 4182-4195.	2.9	22
32	A Review on Polymeric Nanocomposites. , 2018, , 113-146.		21
33	Metal organic frameworks modification of carbon fiber composite interface. Composites Part B: Engineering, 2021, 224, 109197.	12.0	21
34	Electromagnetic Shielding Effectiveness of a Hybrid Carbon Nanotube/Glass Fiber Reinforced Polymer Composite. Journal of Engineering Materials and Technology, Transactions of the ASME, 2016, 138, .	1.4	20
35	A multi-objective optimization approach for design of blast-resistant composite laminates using carbon nanotubes. Composites Part B: Engineering, 2009, 40, 522-529.	12.0	19
36	Hybrid Carbon Fibers/Carbon Nanotubes Structures for Next Generation Polymeric Composites. Journal of Nanotechnology, 2010, 2010, 1-9.	3.4	19

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37	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.	2.6	19
38	Truncated-Newton training algorithm for neurocomputational viscoplastic model. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 2249-2267.	6.6	17
39	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.	5.6	15
40	Reliability-based design of blast-resistant composite laminates incorporating carbon nanotubes. Composite Structures, 2011, 93, 2042-2048.	5.8	14
41	Reciprocal effects of the chirality and the surface functionalization on the drug delivery permissibility of carbon nanotubes. Soft Matter, 2013, 9, 11645-11649.	2.7	14
42	Patterning the Stiffness of Elastomeric Nanocomposites by Magnetophoretic Control of Cross-linking Impeder Distribution. Materials, 2015, 8, 474-485.	2.9	14
43	Effect of carbon nanotubes growth topology on the mechanical behavior of hybrid carbon nanotube/carbon fiber polymer composites. Polymer Composites, 2016, 37, 2639-2648.	4.6	13
44	Molecular dynamics simulation of reorientation of polyethylene chains under a high magnetic field. Molecular Simulation, 2006, 32, 601-608.	2.0	12
45	Artificial intelligence techniques in simulation of viscoplasticity of polymeric composites. Polymer Composites, 2009, 30, 1701-1708.	4.6	10
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.	4.6	10
47	Mechanical and Electrical Characterization of Carbon Fiber/Bucky Paper/Zinc Oxide Hybrid Composites. Journal of Carbon Research, 2018, 4, 6.	2.7	9
48	Effect of Nano-Reinforcement Topologies on the Viscoelastic Performance of Carbon Nanotube/Carbon Fiber Hybrid Composites. Nanomaterials, 2020, 10, 1213.	4.1	9
49	Novel Growth of Multiscale Carbon Nanofilaments on Carbon and Glass Fibers. Nanoscience and Nanotechnology Letters, 2009, 1, 122-127.	0.4	8
50	Hybrid ZnO Nanorod Grafted Carbon Fiber Reinforced Polymer Composites; Randomly versus Radially Aligned Long ZnO Nanorods Growth. Journal of Nanoscience and Nanotechnology, 2018, 18, 4182-4188.	0.9	8
51	Enhancing the Viscoelastic Performance of Carbon Fiber Composites by Incorporating CNTs and ZnO Nanofillers. Applied Sciences (Switzerland), 2019, 9, 2281.	2.5	8
52	Elastic/viscoplastic characterization of additively manufactured composite based on continuous carbon fibers. Aerospace Science and Technology, 2021, 111, 106562.	4.8	8
53	Durability study of a polymeric composite material for structural applications. Polymer Composites, 2001, 22, 779-792.	4.6	6
54	Viscoelastic behavior of epoxy/carbon fiber/Zno nano-rods hybrid composites. Polymer Composites, 2015, 36, 1967-1972.	4.6	6

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55	Quasistatic and dynamic mechanical characterization of a woven carbon fiber/zinc oxide nanowires/epoxy composite. <i>Polymer Composites</i> , 2015, 36, 2184-2192.	4.6	6
56	Residual stress development during fabrication and processing of gamma-titanium based composites. <i>Scripta Materialia</i> , 2001, 44, 179-185.	5.2	4
57	Molecular Dynamics Simulation of Magnetic Field Induced Orientation of Nanotube-Polymer Composite. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 8984-8987.	1.5	4
58	Effects of composition and transparency on photo and radioluminescence of $Y_2O_3:Eu$ complexes. <i>Radiation Effects and Defects in Solids</i> , 2011, 166, 501-512.	1.2	4
59	Nanocharacterization of the negative stiffness of ferroelectric materials. <i>Applied Physics Letters</i> , 2014, 105, 082906.	3.3	4
60	Novel Graphitic Structures by Design. , 2007, , .		4
61	State and Information Estimation for Linear and Nonlinear Systems. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1999, 121, 318-320.	1.6	3
62	A practical route for the characterization of zinc powder compacts with the aid of instrumented indentation and scratch tests. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 528, 494-499.	5.6	3
63	Computational Molecular Dynamics Study of Hybrid Composite Incorporating ZnO Nanowires. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 665-673.	0.4	3
64	Introducing Nanotechnology to Mechanical and Civil Engineering Students Through Materials Science Courses. <i>Journal of Nano Education (Print)</i> , 2010, 2, 13-26.	0.3	3
65	Effect of Proton Irradiation on the Electrical Resistivity of Carbon Nanotube-Epoxy Composites. <i>Nanoscience and Nanotechnology Letters</i> , 2015, 7, 157-161.	0.4	3
66	System identification for a lumped heat exchanger using the extended information filter. , 1999, , .		2
67	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.	2.5	2
68	Nanocharacterization of Proton Radiation Damage on Magnetically Oriented Epoxy. <i>International Journal of Polymer Analysis and Characterization</i> , 2007, 12, 413-430.	1.9	2
69	Probabilistic Design of Blast Resistant Composites Using Carbon Nanotubes. , 2010, , .		2
70	Impact and Quasi-Static Mechanical Properties of a Carbon Fiber Reinforced Carbon Nanotube/Epoxy. , 2012, , .		2
71	Integration of Carbon Nanotubes Into a Fiberglass Reinforced Polymer Composite and its Effects on Electromagnetic Shielding and Mechanical Properties. , 2013, , .		2
72	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

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73	Ballistic damage of hybrid composite materials. , 2016, , 121-143.		2
74	Superior Damping of Hybrid Carbon Fiber Composites Grafted by ZnO Nanorods. Conference Proceedings of the Society for Experimental Mechanics, 2014, , 187-193.	0.5	2
75	Adhesion Energy of Single-Wall Carbon Nanotube-Polyethylene Composite: Effect of Magnetic Field. Journal of Computational and Theoretical Nanoscience, 2006, 3, 243-248.	0.4	2
76	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, .	1.4	1
77	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, .	1.4	1
78	Mechanical Characterization of a Hybrid Carbon Nanotube/Carbon Fiber Reinforced Composite. , 2013, , .		1
79	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
80	Controlling Residual Stress in Metal Matrix Ceramic Fiber Composite. Materials Research Society Symposia Proceedings, 2006, 977, 1.	0.1	0
81	Investigation of the Nanomechanical and Tribological Properties of Tooth-Fillings Materials. , 2007, , 145.		0
82	Realization of Nano-Resister Employing Single Electron Transistor. Journal of Computational and Theoretical Nanoscience, 2008, 5, 685-688.	0.4	0
83	Effect of Low Field Magnetic Annealing on the Viscoelastic Behavior of a Structural Epoxy. , 2009, , .		0
84	Using Multiscale Carbon Fiber/Carbon Nanotubes Composites for Damping Applications. , 2011, , .		0
85	Vibration Damping Enhancement of Fiber Reinforced Polymer Composites With Surface Grown Zinc Oxide Nanorods. , 2013, , .		0
86	Temperature Dependent Viscoelastic Behavior of FRP/ZnO Nano-Rods Hybrid Nanocomposites. , 2013, , .		0
87	Characterization of ZnO Piezoelectric Nanowires in Energy Harvesting for Fiber-Reinforced Composites. , 2015, , .		0
88	A Novel In-Situ Nanoindentation Characterization of Phase Transforming Materials. Materials Research Society Symposia Proceedings, 2015, 1754, 19-24.	0.1	0
89	Adhesion Energy of Single Wall Carbon Nanotube-Polyethylene Composite: Effect of Magnetic Field. , 2005, , .		0
90	ENHANCEMENT OF NANO-MECHANICAL PROPERTIES OF AN EPOXY PROCESSED UNDER HIGH MAGNETIC FIELDS. , 2005, , .		0

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91	ALIGNMENT OF SINGLE WALL CARBON NANOTUBES UNDER HIGH MAGNETIC FIELDS UTILIZING A SELF-ORGANIZING OF EPOXY MATRIX. , 2005, , .		0
92	Novel Processing of Structural Epoxy for Shielding and Structural Applications. , 2007, , .		0
93	Grain Boundary Mediated Dislocation Behavior in a 2D Bi-Crystal: A Model Atomistic Study. Journal of Computational and Theoretical Nanoscience, 2008, 5, 1318-1327.	0.4	0