

Sohel Rana

List of Publications by Year in descending order

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44
papers

1,384
citations

430843

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docs citations

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times ranked

1481
citing authors

#	ARTICLE	IF	CITATIONS
1	A Review on Nanomaterial Dispersion, Microstructure, and Mechanical Properties of Carbon Nanotube and Nanofiber Reinforced Cementitious Composites. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-19.	2.7	283
2	Microstructure and mechanical properties of carbon nanotube reinforced cementitious composites developed using a novel dispersion technique. <i>Cement and Concrete Research</i> , 2015, 73, 215-227.	11.0	231
3	A review on smart self-sensing composite materials for civil engineering applications. <i>AIMS Materials Science</i> , 2016, 3, 357-379.	1.4	80
4	A Review on Carbon Epoxy Nanocomposites. <i>Journal of Reinforced Plastics and Composites</i> , 2009, 28, 461-487.	3.1	77
5	Development of novel auxetic structures based on braided composites. <i>Materials & Design</i> , 2014, 61, 286-295.	5.1	74
6	Development of carbon nanofibre incorporated three phase carbon/epoxy composites with enhanced mechanical, electrical and thermal properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 439-445.	7.6	72
7	A novel approach of developing micro crystalline cellulose reinforced cementitious composites with enhanced microstructure and mechanical performance. <i>Cement and Concrete Composites</i> , 2017, 78, 146-161.	10.7	44
8	Development and characterization of novel auxetic structures based on re-entrant hexagon design produced from braided composites. <i>Composites Part B: Engineering</i> , 2016, 93, 132-142.	12.0	38
9	Effect of multiscale reinforcement on the mechanical properties and microstructure of microcrystalline cellulose-carbon nanotube reinforced cementitious composites. <i>Composites Part B: Engineering</i> , 2018, 149, 122-134.	12.0	38
10	Development, characterization and analysis of auxetic structures from braided composites and study the influence of material and structural parameters. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 87, 86-97.	7.6	36
11	A green approach of improving interface and performance of plant fibre composites using microcrystalline cellulose. <i>Carbohydrate Polymers</i> , 2018, 197, 137-146.	10.2	33
12	Ultrasonic dispersion of micro crystalline cellulose for developing cementitious composites with excellent strength and stiffness. <i>Industrial Crops and Products</i> , 2018, 122, 156-165.	5.2	31
13	Characterizing dispersion and long term stability of concentrated carbon nanotube aqueous suspensions for fabricating ductile cementitious composites. <i>Powder Technology</i> , 2017, 307, 1-9.	4.2	30
14	Fibrous and composite materials for blast protection of structural elements—A state-of-the-art review. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 1477-1500.	3.1	29
15	Novel glass fibre reinforced hierarchical composites with improved interfacial, mechanical and dynamic mechanical properties developed using cellulose microcrystals. <i>Materials and Design</i> , 2020, 188, 108448.	7.0	28
16	Characterization of Physical, Mechanical and Chemical Properties of Quiscal Fibres: The Influence of Atmospheric DBD Plasma Treatment. <i>Plasma Chemistry and Plasma Processing</i> , 2015, 35, 863-878.	2.4	23
17	A facile approach of developing micro crystalline cellulose reinforced cementitious composites with improved microstructure and mechanical performance. <i>Powder Technology</i> , 2018, 338, 654-663.	4.2	21
18	Mechanical and thermal transmission properties of carbon nanofiber dispersed carbon/phenolic multiscale composites. <i>Journal of Applied Polymer Science</i> , 2013, 129, 2383-2392.	2.6	20

#	ARTICLE	IF	CITATIONS
19	Effect of carbon nanofiber functionalization on the in-plane mechanical properties of carbon/epoxy multiscale composites. <i>Journal of Applied Polymer Science</i> , 2012, 125, 1951-1958.	2.6	16
20	Micro-structure and mechanical properties of microcrystalline cellulose-sisal fiber reinforced cementitious composites developed using cetyltrimethylammonium bromide as the dispersing agent. <i>Cellulose</i> , 2021, 28, 1663-1686.	4.9	16
21	Mechanical and micro-structural investigation of multi-scale cementitious composites developed using sisal fibres and microcrystalline cellulose. <i>Industrial Crops and Products</i> , 2020, 158, 112912.	5.2	15
22	Development of Hybrid Braided Composite Rods for Reinforcement and Health Monitoring of Structures. <i>Scientific World Journal, The</i> , 2014, 2014, 1-9.	2.1	14
23	Macro- and nanodimensional plant fiber reinforcements for cementitious composites. , 2017, , 343-382.		14
24	Processing and performance of carbon/epoxy multi-scale composites containing carbon nanofibres and single walled carbon nanotubes. <i>Journal of Polymer Research</i> , 2013, 20, 1.	2.4	13
25	Mechanical and abrasive wear response of PTFE coated glass fabric composites. <i>Wear</i> , 2020, 450-451, 203267.	3.1	12
26	Single-Walled Carbon Nanotube Incorporated Novel Three Phase Carbon/Epoxy Composite with Enhanced Properties. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 7033-7036.	0.9	11
27	Silk- κ -Carrageenan Jelly: a novel ion conducting polymeric material with high conductivity and excellent mechanical stability. <i>Polymers for Advanced Technologies</i> , 2013, 24, 191-196.	3.2	11
28	Braided composite rods: Innovative fibrous materials for geotechnical applications. <i>Geomechanics and Engineering</i> , 2013, 5, 87-97.	0.9	10
29	Mechanical, dynamic-mechanical and wear performance of novel non-crimp glass fabric-reinforced liquid thermoplastic composites filled with cellulose microcrystals. <i>Materials and Design</i> , 2021, 212, 110276.	7.0	10
30	Mechanical behavior of carbon nanofibre-reinforced epoxy composites. <i>Journal of Applied Polymer Science</i> , 2010, 118, 2276-2283.	2.6	8
31	Excellent bonding behaviour of novel surface-tailored fibre composite rods with cementitious matrix. <i>Bulletin of Materials Science</i> , 2014, 37, 1013-1016.	1.7	7
32	Designing artificial anterior cruciate ligaments based on novel fibrous structures. <i>Fibers and Polymers</i> , 2014, 15, 181-186.	2.1	6
33	Mechanical properties of epoxy reinforced with homogeneously dispersed carbon nanofibre. <i>International Journal of Plastics Technology</i> , 2010, 14, 224.	3.1	5
34	Nanomaterials from Natural Products for Industrial Applications. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-2.	2.7	5
35	Development of Smart Braided Structures for Sensing of Geotechnical Structures. <i>Procedia Engineering</i> , 2016, 143, 1218-1225.	1.2	4
36	Development of Multi-Scale Carbon Nanofiber and Nanotube-Based Cementitious Composites for Reliable Sensing of Tensile Stresses. <i>Nanomaterials</i> , 2022, 12, 74.	4.1	4

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37	13 Advanced Carbon Nanotube Reinforced Multiscale Composites. , 2017, , 545-578.		3
38	Self-Sensing Hybrid Composite Rod with Braided Reinforcement for Structural Health Monitoring. Materials Science Forum, 0, 730-732, 379-384.	0.3	2
39	Fibre Reinforced Thermoplastic Composite Rods. Materials Science Forum, 0, 730-732, 331-336.	0.3	2
40	Battery monitoring system for the smart grid applications. , 2017, , .		2
41	Novel Multi-Scale Cementitious Composites Developed Using Microcrystalline Cellulose (MCC) and Sisal Fibers. Key Engineering Materials, 2019, 812, 100-106.	0.4	2
42	Development and Characterization of Microcrystalline Cellulose Based Novel Multi-scale Biocomposites. , 2018, , 159-173.		2
43	Braided Composites: Production, Properties, and Latest Developments. Composite Materials, 2015, , 97-123.	0.0	1
44	Reinforcements and Composites with Special Properties. Textile Science and Clothing Technology, 2016, , 317-373.	0.5	1