Sohel Rana

List of Publications by Citations

42 papers	1,009 citations	17 h-index	31 g-index
44 ext. papers	1,168 ext. citations	4.5 avg, IF	4.63 L-index

#	Paper	IF	Citations
42	A Review on Nanomaterial Dispersion, Microstructure, and Mechanical Properties of Carbon Nanotube and Nanofiber Reinforced Cementitious Composites. *Journal of Nanomaterials*, **2013**, 2013, 1-19	3.2	207
41	Microstructure and mechanical properties of carbon nanotube reinforced cementitious composites developed using a novel dispersion technique. *Cement and Concrete Research*, **2015**, 73, 215-227	10.3	167
40	A Review on Carbon Epoxy Nanocomposites. *Journal of Reinforced Plastics and Composites*, **2009**, 28, 461-487	2.9	66
39	Development of novel auxetic structures based on braided composites. *Materials & Design*, **2014**, 61, 286-295		62
38	Development of carbon nanofibre incorporated three phase carbon/epoxy composites with enhanced mechanical, electrical and thermal properties. *Composites Part A: Applied Science and Manufacturing*, **2011**, 42, 439-445	8.4	61
37	A review on smart self-sensing composite materials for civil engineering applications. *AIMS Materials Science*, **2016**, 3, 357-379	1.9	54
36	A novel approach of developing micro crystalline cellulose reinforced cementitious composites with enhanced microstructure and mechanical performance. *Cement and Concrete Composites*, **2017**, 78, 146-161	8.6	33
35	Development and characterization of novel auxetic structures based on re-entrant hexagon design produced from braided composites. *Composites Part B: Engineering*, **2016**, 93, 132-142	10	27
34	Effect of multiscale reinforcement on the mechanical properties and microstructure of microcrystalline cellulose-carbon nanotube reinforced cementitious composites. *Composites Part B: Engineering*, **2018**, 149, 122-134	10	27
33	Development, characterization and analysis of auxetic structures from braided composites and study the influence of material and structural parameters. *Composites Part A: Applied Science and Manufacturing*, **2016**, 87, 86-97	8.4	24
32	Ultrasonic dispersion of micro crystalline cellulose for developing cementitious composites with excellent strength and stiffness. *Industrial Crops and Products*, **2018**, 122, 156-165	5.9	23
31	Characterizing dispersion and long term stability of concentrated carbon nanotube aqueous suspensions for fabricating ductile cementitious composites. *Powder Technology*, **2017**, 307, 1-9	5.2	23
30	Characterization of Physical, Mechanical and Chemical Properties of Quiscal Fibres: The Influence of Atmospheric DBD Plasma Treatment. *Plasma Chemistry and Plasma Processing*, **2015**, 35, 863-878	3.6	22
29	Fibrous and composite materials for blast protection of structural elements A state-of-the-art review. *Journal of Reinforced Plastics and Composites*, **2013**, 32, 1477-1500	2.9	20
28	Mechanical and thermal transmission properties of carbon nanofiber-dispersed carbon/phenolic multiscale composites. *Journal of Applied Polymer Science*, **2013**, 129, 2383-2392	2.9	19
27	Novel glass fibre reinforced hierarchical composites with improved interfacial, mechanical and dynamic mechanical properties developed using cellulose microcrystals. *Materials and Design*, **2020**, 188, 108448	8.1	18
26	A green approach of improving interface and performance of plant fibre composites using microcrystalline cellulose. *Carbohydrate Polymers*, **2018**, 197, 137-146	10.3	18

25	Effect of carbon nanofiber functionalization on the in-plane mechanical properties of carbon/epoxy multiscale composites. *Journal of Applied Polymer Science*, **2012**, 125, 1951-1958	2.9	16
24	A facile approach of developing micro crystalline cellulose reinforced cementitious composites with improved microstructure and mechanical performance. *Powder Technology*, **2018**, 338, 654-663	5.2	11
23	Silk-Ion Jelly: a novel ion conducting polymeric material with high conductivity and excellent mechanical stability. *Polymers for Advanced Technologies*, **2013**, 24, 191-196	3.2	11
22	Single-walled carbon nanotube incorporated novel three phase carbon/epoxy composite with enhanced properties. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 7033-6	1.3	11
21	Development of hybrid braided composite rods for reinforcement and health monitoring of structures. *Scientific World Journal, The*, **2014**, 2014, 170187	2.2	10
20	Macro- and nanodimensional plant fiber reinforcements for cementitious composites **2017**, 343-382		9
19	Micro-structure and mechanical properties of microcrystalline cellulose-sisal fiber reinforced cementitious composites developed using cetyltrimethylammonium bromide as the dispersing agent. *Cellulose*, **2021**, 28, 1663-1686	5.5	9
18	Processing and performance of carbon/epoxy multi-scale composites containing carbon nanofibres and single walled carbon nanotubes. *Journal of Polymer Research*, **2013**, 20, 1	2.7	8
17	Braided composite rods: Innovative fibrous materials for geotechnical applications. *Geomechanics and Engineering*, **2013**, 5, 87-97		8
16	Mechanical and micro-structural investigation of multi-scale cementitious composites developed using sisal fibres and microcrystalline cellulose. *Industrial Crops and Products*, **2020**, 158, 112912	5.9	8
15	Excellent bonding behaviour of novel surface-tailored fibre composite rods with cementitious matrix. *Bulletin of Materials Science*, **2014**, 37, 1013-1016	1.7	6
14	Mechanical and abrasive wear response of PTFE coated glass fabric composites. *Wear*, **2020**, 450-451, 203267	3.5	6
13	Designing artificial anterior cruciate ligaments based on novel fibrous structures. *Fibers and Polymers*, **2014**, 15, 181-186	2	4
12	Mechanical properties of epoxy reinforced with homogeneously dispersed carbon nanofibre. *International Journal of Plastics Technology*, **2010**, 14, 224	2.7	4
11	Mechanical behavior of carbon nanofibre-reinforced epoxy composites. *Journal of Applied Polymer Science*, **2010**, 118, n/a-n/a	2.9	3
10	Novel Multi-Scale Cementitious Composites Developed Using Microcrystalline Cellulose (MCC) and Sisal Fibers. *Key Engineering Materials*, **2019**, 812, 100-106	0.4	2
9	13 Advanced Carbon Nanotube Reinforced Multiscale Composites **2017**, 545-578		2
8	Mechanical, dynamic-mechanical and wear performance of novel non-crimp glass fabric-reinforced liquid thermoplastic composites filled with cellulose microcrystals. *Materials and Design*, **2021**, 212, 110276	8.1	2

7	Development and Characterization of Microcrystalline Cellulose Based Novel Multi-scale Biocomposites **2018**, 159-173		2
6	Nanomaterials from Natural Products for Industrial Applications. *Journal of Nanomaterials*, **2017**, 2017, 1-2	3.2	1
5	Reinforcements and Composites with Special Properties **2016**, 317-373		1
4	Self-Sensing Hybrid Composite Rod with Braided Reinforcement for Structural Health Monitoring. *Materials Science Forum*, **2012**, 730-732, 379-384	0.4	1
3	Fibre Reinforced Thermoplastic Composite Rods. *Materials Science Forum*, **2012**, 730-732, 331-336	0.4	1
2	Development of Smart Braided Structures for Sensing of Geotechnical Structures. *Procedia Engineering*, **2016**, 143, 1218-1225		1
1	Braided Composites: Production, Properties, and Latest Developments **2015**, 97-123		