

# Minoo

## List of Publications by Year in descending order

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142  
papers

8,178  
citations

53751

45  
h-index

54882

84  
g-index

142  
all docs

142  
docs citations

142  
times ranked

9336  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionally graded materials: A review of fabrication and properties. <i>Applied Materials Today</i> , 2016, 5, 223-245.	2.3	640
2	Mechanical Property and Structure of Covalent Functionalised Graphene/Epoxy Nanocomposites. <i>Scientific Reports</i> , 2014, 4, 4375.	1.6	458
3	Carbon fiber reinforced metal matrix composites: Fabrication processes and properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 92, 70-96.	3.8	406
4	A review of recent developments in rechargeable lithium-sulfur batteries. <i>Nanoscale</i> , 2016, 8, 16541-16588.	2.8	326
5	PVDF/graphene composite nanofibers with enhanced piezoelectric performance for development of robust nanogenerators. <i>Composites Science and Technology</i> , 2017, 138, 49-56.	3.8	256
6	Death by waste: Fashion and textile circular economy case. <i>Science of the Total Environment</i> , 2020, 718, 137317.	3.9	252
7	A technical review on epoxy-clay nanocomposites: Structure, properties, and their applications in fiber reinforced composites. <i>Composites Part B: Engineering</i> , 2018, 135, 1-24.	5.9	195
8	PAN precursor fabrication, applications and thermal stabilization process in carbon fiber production: Experimental and mathematical modelling. <i>Progress in Materials Science</i> , 2020, 107, 100575.	16.0	168
9	Polymer composite for antistatic application in aerospace. <i>Defence Technology</i> , 2020, 16, 107-118.	2.1	159
10	Development of smart poly(vinylidene fluoride)-graft-poly(acrylic acid) tree-like nanofiber membrane for pH-responsive oil/water separation. <i>Journal of Membrane Science</i> , 2017, 534, 1-8.	4.1	155
11	Enzyme Immobilisation on Amino-Functionalised Multi-Walled Carbon Nanotubes: Structural and Biocatalytic Characterisation. <i>PLoS ONE</i> , 2013, 8, e73642.	1.1	148
12	The Effects of UV Light on the Chemical and Mechanical Properties of a Transparent Epoxy-Diamine System in the Presence of an Organic UV Absorber. <i>Materials</i> , 2017, 10, 180.	1.3	144
13	Lightweight, Superelastic Yet Thermoconductive Boron Nitride Nanocomposite Aerogel for Thermal Energy Regulation. <i>ACS Nano</i> , 2019, 13, 7860-7870.	7.3	143
14	Crack Damage in Polymers and Composites: A Review. <i>Polymer Reviews</i> , 2016, 56, 31-69.	5.3	135
15	Towards a Green and Self-Powered Internet of Things Using Piezoelectric Energy Harvesting. <i>IEEE Access</i> , 2019, 7, 94533-94556.	2.6	133
16	Boron carbide reinforced aluminium matrix composite: Physical, mechanical characterization and mathematical modelling. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 658, 135-149.	2.6	126
17	Effect of B <sub>4</sub> C, TiB <sub>2</sub> and ZrSiO <sub>4</sub> ceramic particles on mechanical properties of aluminium matrix composites: Experimental investigation and predictive modelling. <i>Ceramics International</i> , 2016, 42, 6206-6220.	2.3	122
18	A renewable bio-based epoxy resin with improved mechanical performance that can compete with DGEBA. <i>RSC Advances</i> , 2017, 7, 8694-8701.	1.7	117

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19	Progress in silk materials for integrated water treatments: Fabrication, modification and applications. <i>Chemical Engineering Journal</i> , 2019, 374, 437-470.	6.6	108
20	Carbon fibre surface modification using functionalized nanoclay: A hierarchical interphase for fibre-reinforced polymer composites. <i>Composites Science and Technology</i> , 2017, 148, 49-58.	3.8	91
21	Electrospun single-walled carbon nanotube/polyvinyl alcohol composite nanofibers: structure-property relationships. <i>Nanotechnology</i> , 2008, 19, 305702.	1.3	88
22	Synergistic effect of MWCNTs functionalization on interfacial and mechanical properties of multi-scale UHMWPE fibre reinforced epoxy composites. <i>Composites Science and Technology</i> , 2016, 134, 1-11.	3.8	87
23	Thermal and Rheological Characteristics of Biobased Carbon Fiber Precursor Derived from Low Molecular Weight Organosolv Lignin. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 758-769.	3.2	84
24	2D transition metal dichalcogenide nanomaterials: advances, opportunities, and challenges in multi-functional polymer nanocomposites. <i>Journal of Materials Chemistry A</i> , 2020, 8, 845-883.	5.2	83
25	Interfacial characterization and reinforcing mechanism of novel carbon nanotube-carbon fibre hybrid composites. <i>Carbon</i> , 2016, 109, 74-86.	5.4	82
26	High temperature thermally conductive nanocomposite textile by green electrospinning. <i>Nanoscale</i> , 2018, 10, 16868-16872.	2.8	81
27	Sulfur-embedded porous carbon nanofiber composites for high stability lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2018, 333, 185-190.	6.6	77
28	Body armour materials: from steel to contemporary biomimetic systems. <i>RSC Advances</i> , 2016, 6, 115145-115174.	1.7	76
29	Balancing the toughness and strength in polypropylene composites. <i>Composites Part B: Engineering</i> , 2021, 223, 109121.	5.9	75
30	Effects of MWNT nanofillers on structures and properties of PVA electrospun nanofibres. <i>Nanotechnology</i> , 2007, 18, 225605.	1.3	69
31	Silk fibres exhibiting biodegradability & superhydrophobicity for recovery of petroleum oils from oily wastewater. <i>Journal of Hazardous Materials</i> , 2020, 389, 121823.	6.5	69
32	Surface treatment of Basalt fiber for use in automotive composites. <i>Materials Today Chemistry</i> , 2020, 17, 100334.	1.7	63
33	Investigation of progress of reactions and evolution of radial heterogeneity in the initial stage of thermal stabilization of PAN precursor fibres. <i>Polymer Degradation and Stability</i> , 2016, 125, 105-114.	2.7	62
34	Fight against COVID-19: The case of antiviral surfaces. <i>APL Materials</i> , 2021, 9, 031112.	2.2	62
35	Evolution of radial heterogeneity in polyacrylonitrile fibres during thermal stabilization: An overview. <i>Polymer Degradation and Stability</i> , 2017, 136, 20-30.	2.7	60
36	Dynamic Prediction Models and Optimization of Polyacrylonitrile (PAN) Stabilization Processes for Production of Carbon Fiber. <i>IEEE Transactions on Industrial Informatics</i> , 2015, 11, 887-896.	7.2	59

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37	One-pot synthesis of aminated multi-walled carbon nanotube using thiol-ene click chemistry for improvement of epoxy nanocomposites properties. RSC Advances, 2015, 5, 98692-98699.	1.7	57
38	Support vector regression modelling and optimization of energy consumption in carbon fiber production line. Computers and Chemical Engineering, 2018, 109, 276-288.	2.0	55
39	Hierarchically Structured Porous Piezoelectric Polymer Nanofibers for Energy Harvesting. Advanced Science, 2020, 7, 2000517.	5.6	55
40	Enhanced thermal stability and lifetime of epoxy nanocomposites using covalently functionalized clay: experimental and modelling. New Journal of Chemistry, 2015, 39, 2269-2278.	1.4	54
41	Development of a cost model for the production of carbon fibres. Heliyon, 2019, 5, e02698.	1.4	53
42	Catalyzed Synthesis and Characterization of a Novel Lignin-Based Curing Agent for the Curing of High-Performance Epoxy Resin. Polymers, 2017, 9, 266.	2.0	52
43	Chemical structure based prediction of PAN and oxidized PAN fiber density through a non-linear mathematical model. Polymer Degradation and Stability, 2016, 131, 53-61.	2.7	49
44	Fish DNA-modified clays: Towards highly flame retardant polymer nanocomposite with improved interfacial and mechanical performance. Scientific Reports, 2016, 6, 38194.	1.6	47
45	Morphological changes towards enhancing piezoelectric properties of PVDF electrical generators using cellulose nanocrystals. Cellulose, 2016, 23, 3625-3637.	2.4	47
46	Fabrication and characterization of functionally graded synthetic graphite/phenolic nanocomposites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 545, 123-131.	2.6	46
47	Thermodynamic approach to tailor porosity in piezoelectric polymer fibers for application in nanogenerators. Nano Energy, 2019, 62, 594-600.	8.2	46
48	Stochastic optimization models for energy management in carbonization process of carbon fiber production. Applied Energy, 2015, 158, 643-655.	5.1	45
49	Time Dependent Structure and Property Evolution in Fibres during Continuous Carbon Fibre Manufacturing. Materials, 2019, 12, 1069.	1.3	43
50	Review on 3D Prototyping of Damage Tolerant Interdigitating Brick Arrays of Nacre. Industrial & Engineering Chemistry Research, 2017, 56, 10516-10525.	1.8	42
51	Nano-enhanced interface in carbon fibre polymer composite using halloysite nanotubes. Composites Part A: Applied Science and Manufacturing, 2018, 109, 115-123.	3.8	42
52	Biomimicking of Hierarchal Molluscan Shell Structure Via Layer by Layer 3D Printing. Industrial & Engineering Chemistry Research, 2018, 57, 10832-10840.	1.8	42
53	Influence of processing conditions on polymorphic behavior, crystallinity, and morphology of electrospun poly(Vinylidene fluoride) nanofibers. Journal of Applied Polymer Science, 2015, 132, .	1.3	41
54	One-step amino-functionalization of milled carbon fibre for enhancement of thermo-physical properties of epoxy composites. Composites Part A: Applied Science and Manufacturing, 2016, 88, 243-252.	3.8	41

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55	The effect of thermally induced chemical transformations on the structure and properties of carbon fibre precursors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7372-7382.	5.2	40
56	Electroactive nanostructured scaffold produced by controlled deposition of PPy on electrospun PCL fibres. <i>Research on Chemical Intermediates</i> , 2017, 43, 1235-1251.	1.3	40
57	Structural and Thermal Stability of Polycarbonate Decorated Fumed Silica Nanocomposite via Thermomechanical Analysis and In-situ Temperature Assisted SAXS. <i>Scientific Reports</i> , 2017, 7, 7706.	1.6	38
58	A sustainable approach to scalable production of a graphene based flame retardant using waste fish deoxyribonucleic acid. <i>Journal of Cleaner Production</i> , 2020, 247, 119150.	4.6	38
59	Radial structure and property relationship in the thermal stabilization of PAN precursor fibres. <i>Polymer Testing</i> , 2017, 59, 203-211.	2.3	37
60	Predictive modelling and optimization of carbon fiber mechanical properties through high temperature furnace. <i>Applied Thermal Engineering</i> , 2017, 125, 1539-1554.	3.0	37
61	Super hard carbon microtubes derived from natural cotton for development of high performance titanium composites. <i>Journal of Alloys and Compounds</i> , 2019, 775, 601-616.	2.8	37
62	Development of a low cost and green microwave assisted approach towards the circular carbon fibre composites. <i>Composites Part B: Engineering</i> , 2020, 184, 107750.	5.9	37
63	Improving energy efficiency of carbon fiber manufacturing through waste heat recovery: A circular economy approach with machine learning. <i>Energy</i> , 2021, 225, 120113.	4.5	37
64	A systematic investigation into a novel method for preparing carbon fibre-carbon nanotube hybrid structures. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016, 90, 174-185.	3.8	35
65	Nano-fluoro dispersion functionalized superhydrophobic degummed & waste silk fabric for sustained recovery of petroleum oils & organic solvents from wastewater. <i>Journal of Hazardous Materials</i> , 2022, 426, 127822.	6.5	35
66	Self-assembly of quaternized chitosan nanoparticles within nanoclay layers for enhancement of interfacial properties in toughened polymer nanocomposites. <i>Materials and Design</i> , 2017, 119, 277-289.	3.3	34
67	Metal-organic framework structure-property relationships for high-performance multifunctional polymer nanocomposite applications. <i>Journal of Materials Chemistry A</i> , 2021, 9, 4348-4378.	5.2	34
68	A machine learning case study with limited data for prediction of carbon fiber mechanical properties. <i>Computers in Industry</i> , 2019, 105, 123-132.	5.7	33
69	Hydrophilic PAN based carbon nanofibres with improved graphitic structure and enhanced mechanical performance using ethylenediamine functionalized graphene. <i>RSC Advances</i> , 2017, 7, 2621-2628.	1.7	32
70	Sustainable carbon microtube derived from cotton waste for environmental applications. <i>Chemical Engineering Journal</i> , 2019, 361, 1605-1616.	6.6	32
71	A Novel Hybrid Machine Learning Algorithm for Limited and Big Data Modeling With Application in Industry 4.0. <i>IEEE Access</i> , 2020, 8, 111381-111393.	2.6	32
72	A Sustainable Approach to the Low-Cost Recycling of Waste Glass Fibres Composites towards Circular Economy. <i>Sustainability</i> , 2020, 12, 641.	1.6	32

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73	Enhanced photocatalytic activities of TiO <sub>2</sub> @SiO <sub>2</sub> nanohybrids immobilized on cement-based materials for dye degradation. <i>Research on Chemical Intermediates</i> , 2016, 42, 2963-2978.	1.3	30
74	Collision-induced activation: Towards industrially scalable approach to graphite nanoplatelets functionalization for superior polymer nanocomposites. <i>Scientific Reports</i> , 2017, 7, 3560.	1.6	30
75	Towards predicting the piezoelectricity and physiochemical properties of the electrospun P(VDF-TrFE) nanogenerators using an artificial neural network. <i>Polymer Testing</i> , 2018, 66, 178-188.	2.3	29
76	Controlled Design of a Robust Hierarchically Porous and Hollow Carbon Fiber Textile for High-Performance Freestanding Electrodes. <i>Advanced Science</i> , 2019, 6, 1900762.	5.6	29
77	CRYSTALLINE STRUCTURES AND $\hat{1}_{\pm}$ $\hat{1}_{\pm}^2$ AND $\hat{1}_{\pm}^3$ POLYMORPHS TRANSFORMATION INDUCED BY NANOCLAY IN PVDF-BASED NANOCOMPOSITE. <i>Nano</i> , 2014, 09, 1450065.	0.5	28
78	A new approach for mechanisms of ferroelectric crystalline phase formation in PVDF nanocomposites. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 10679.	1.3	28
79	Cheetah skin structure: A new approach for carbon-nano-patterning of carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 95, 304-314.	3.8	28
80	Graphene based room temperature flexible nanocomposites from permanently cross-linked networks. <i>Scientific Reports</i> , 2018, 8, 2803.	1.6	28
81	A facile method to enhance ferroelectric properties in PVDF nanocomposites. <i>RSC Advances</i> , 2015, 5, 22471-22479.	1.7	27
82	The light enhanced removal of Bisphenol A from wastewater using cotton waste derived carbon microtubes. <i>Journal of Colloid and Interface Science</i> , 2019, 539, 425-432.	5.0	27
83	Polycarbonate and activated charcoal-engineered electrospun nanofibers for selective recovery of oil/solvent from oily wastewater. <i>SN Applied Sciences</i> , 2020, 2, 1.	1.5	27
84	An improved understanding of the dispersion of multi-walled carbon nanotubes in non-aqueous solvents. <i>Journal of Nanoparticle Research</i> , 2014, 16, 1.	0.8	26
85	Nanostructured Electrospun Hybrid Graphene/Polyacrylonitrile Yarns. <i>Nanomaterials</i> , 2017, 7, 293.	1.9	26
86	Preparation and properties of composition-controlled carbon nanofiber/phenolic nanocomposites. <i>Composites Part B: Engineering</i> , 2013, 52, 120-126.	5.9	25
87	Periodical patterning of a fully tailored nanocarbon on CNT for fabrication of thermoplastic composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 107, 304-314.	3.8	25
88	Production of Low Cost Carbon-Fiber through Energy Optimization of Stabilization Process. <i>Materials</i> , 2018, 11, 385.	1.3	25
89	Structure-rate performance relationship in Si nanoparticles-carbon nanofiber composite as flexible anode for lithium-ion batteries. <i>Electrochimica Acta</i> , 2020, 330, 135232.	2.6	25
90	Influence of Miscibility Phenomenon on Crystalline Polymorph Transition in Poly(Vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tj 50 62 Td	1.1	24

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91	Mechanical property optimization of wet-spun lignin/polyacrylonitrile carbon fiber precursor by response surface methodology. <i>Fibers and Polymers</i> , 2017, 18, 2079-2093.	1.1	24
92	Short Oxygen Plasma Treatment Leading to Long-Term Hydrophilicity of Conductive PCL-PPy Nanofiber Scaffolds. <i>Polymers</i> , 2017, 9, 614.	2.0	23
93	Sustainable periodically patterned carbon nanotube for environmental application: Introducing the cheetah skin structure. <i>Journal of Cleaner Production</i> , 2018, 179, 429-440.	4.6	23
94	Recovery of Mode I self-healing interlaminar fracture toughness of fiber metal laminate by modified double cantilever beam test. <i>Composites Communications</i> , 2019, 16, 25-29.	3.3	23
95	Sequentially Bridged Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Sheets for High Performance Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002043.	1.9	23
96	Structural design and mechanism analysis of hierarchical porous carbon fibers for advanced energy and environmental applications. <i>Journal of Materials Chemistry A</i> , 2021, 10, 10-49.	5.2	23
97	Effect of compositional gradient on thermal behavior of synthetic graphite-phenolic nanocomposites. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 109, 1169-1176.	2.0	22
98	Low-Cost Carbon Fibre Derived from Sustainable Coal Tar Pitch and Polyacrylonitrile: Fabrication and Characterisation. <i>Materials</i> , 2019, 12, 1281.	1.3	22
99	Sustainable synthesis of rose flower-like magnetic biochar from tea waste for environmental applications. <i>Journal of Advanced Research</i> , 2021, 34, 13-27.	4.4	22
100	Carbon nanotube reinforced rigid-rod polyimide. <i>Journal of Applied Polymer Science</i> , 2010, 118, 359-365.	1.3	21
101	Nano-magnetite decorated carbon fibre for enhanced interfacial shear strength. <i>Carbon</i> , 2019, 148, 361-369.	5.4	21
102	Organophosphorus-Functionalized Zirconium-Based Metal-Organic Framework Nanostructures for Improved Mechanical and Flame Retardant Polymer Nanocomposites. <i>ACS Applied Nano Materials</i> , 2021, 4, 13027-13040.	2.4	21
103	Development of a predictive model for study of skin-core phenomenon in stabilization process of PAN precursor. <i>Journal of Industrial and Engineering Chemistry</i> , 2017, 49, 46-60.	2.9	20
104	Biobased Carbon Fiber Composites with Enhanced Flame Retardancy: A Cradle-to-Cradle Approach. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 1059-1069.	3.2	20
105	Simultaneous electrochemical-assisted exfoliation and in situ surface functionalization towards large-scale production of few-layer graphene. <i>FlatChem</i> , 2019, 18, 100132.	2.8	19
106	Inducing liquid crystallinity in dilute MXene dispersions for facile processing of multifunctional fibers. <i>Journal of Materials Chemistry A</i> , 2022, 10, 4770-4781.	5.2	19
107	Temperature Assisted in-Situ Small Angle X-ray Scattering Analysis of Ph-POSS/PC Polymer Nanocomposite. <i>Scientific Reports</i> , 2016, 6, 29917.	1.6	18
108	A Hydrothermal-Assisted Ball Milling Approach for Scalable Production of High-Quality Functionalized MoS <sub>2</sub> Nanosheets for Polymer Nanocomposites. <i>Nanomaterials</i> , 2019, 9, 1400.	1.9	18



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109	Phase Transformation Evolution in NiTi Shape Memory Alloy under Cyclic Nanoindentation Loadings at Dissimilar Rates. <i>Scientific Reports</i> , 2013, 3, 3412.	1.6	17
110	Does dynamic vulcanization induce phase separation?. <i>Soft Matter</i> , 2014, 10, 5550-5558.	1.2	17
111	Influence of Different Nanocellulose Additives on Processing and Performance of PAN-Based Carbon Fibers. <i>ACS Omega</i> , 2019, 4, 9720-9730.	1.6	17
112	Pore-assisted lithium deposition in hierarchically porous and hollow carbon textile for highly stable lithium anode. <i>Journal of Power Sources</i> , 2021, 489, 229464.	4.0	17
113	Multi-Objective Optimization of Manufacturing Process in Carbon Fiber Industry Using Artificial Intelligence Techniques. <i>IEEE Access</i> , 2019, 7, 67576-67588.	2.6	16
114	Sorption of pharmaceuticals and personal care products (PPCPs) onto a sustainable cotton based adsorbent. <i>Sustainable Chemistry and Pharmacy</i> , 2020, 18, 100324.	1.6	16
115	Chemically Enhanced Wet-Spinning Process to Accelerate Thermal Stabilization of Polyacrylonitrile Fibers. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700557.	1.7	15
116	Ultrafast microwave assisted development of magnetic carbon microtube from cotton waste for wastewater treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 606, 125449.	2.3	15
117	Facemask Global Challenges: The Case of Effective Synthesis, Utilization, and Environmental Sustainability. <i>Sustainability</i> , 2022, 14, 737.	1.6	15
118	Thermoforming and Structural Analysis of Combat Helmets. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015, 137, .	1.3	14
119	Thermomechanical performance of cheetah skin carbon nanotube embedded composite: Isothermal and non-isothermal investigation. <i>Polymer</i> , 2018, 145, 294-309.	1.8	14
120	Microwave synthesis of biochar for environmental applications. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 161, 105415.	2.6	14
121	A Pathway to Reduce Energy Consumption in the Thermal Stabilization Process of Carbon Fiber Production. <i>Energies</i> , 2018, 11, 1145.	1.6	13
122	Temperature variations at nano-scale level in phase transformed nanocrystalline NiTi shape memory alloys adjacent to graphene layers. <i>Nanoscale</i> , 2013, 5, 6479.	2.8	12
123	Novel polymer-ceramic composites for protection against ballistic fragments. <i>Polymer Composites</i> , 2013, 34, 180-186.	2.3	12
124	Formation of skin-core in carbon fibre processing: A defect or an effect?. <i>EXPRESS Polymer Letters</i> , 2019, 13, 146-158.	1.1	12
125	Improvement in mechanical properties of aluminum polypropylene composite fiber. <i>Fibers and Polymers</i> , 2009, 10, 662-666.	1.1	11
126	Synchrotron X-ray scattering and IR-mapping studies of wet-spun lignin-derived carbon fibre precursor. <i>Composites Science and Technology</i> , 2018, 163, 151-161.	3.8	11



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127	Crystalline polymorph transition in poly(vinylidene fluoride) (PVDF)/acrylic rubber(ACM)/clay partially miscible hybrid. <i>Polymer Bulletin</i> , 2016, 73, 65-73.	1.7	9
128	A comprehensive chemical model for the preliminary steps of the thermal stabilization process in a carbon fibre manufacturing line. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 959-971.	1.9	9
129	Natural bauxite nanosheets: A multifunctional and sustainable 2D nano-reinforcement for high performance polymer nanocomposites. <i>Composites Science and Technology</i> , 2019, 184, 107868.	3.8	9
130	Conducting Polymer and Polymer/CNT Composite Nanofibers by Electrospinning. <i>ACS Symposium Series</i> , 2009, , 39-58.	0.5	8
131	Multiple Hydrogen Bond Channel Structural Electrolyte for an Enhanced Carbon Fiber Composite Battery. <i>ACS Applied Energy Materials</i> , 2022, 5, 2054-2066.	2.5	8
132	Ageing of surface treated thermoplastic polyolefins. <i>Polymer Degradation and Stability</i> , 2013, 98, 1699-1704.	2.7	7
133	Tough and Fatigue Resistant Cellulose Nanocrystal Stitched Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Films. <i>Macromolecular Rapid Communications</i> , 2022, 43, e2200114.	2.0	7
134	Covalent treatment of carbon fibre with functionalized MoS <sub>2</sub> nanosheets using thiol-ene click chemistry: The improvement of interface in multiscale epoxy composites. <i>Composites Part B: Engineering</i> , 2022, 236, 109821.	5.9	7
135	Enhancement of ionic conduction and mechanical properties for all-solid-state polymer electrolyte systems through ionic and physical bonding. <i>Materials Today Chemistry</i> , 2022, 23, 100663.	1.7	6
136	Evaluating the Thermal Extrusion Behavior of a Coking Coal for Direct Carbon Fiber Production. <i>Energy &amp; Fuels</i> , 2018, 32, 4528-4537.	2.5	5
137	In-situ fabrication of multifunctional N-doped hybrid carbon nanotube@carbon fiber by recycling gaseous effluents of carbon fiber production. <i>Carbon</i> , 2022, 193, 368-380.	5.4	5
138	Thermomechanical characteristics of h-BN- and POSS-based bisphenol A polycarbonate nanocomposites. <i>Polymer-Plastics Technology and Materials</i> , 2019, 58, 1742-1756.	0.6	4
139	Energy Saving in Electric Heater of Carbon Fiber Stabilization Oven. , 2014, , .		3
140	On the detection of carbon fibre storage contamination and its effect on the fibre-matrix interface. <i>Scientific Reports</i> , 2018, 8, 16446.	1.6	3
141	Continuous, pilot-scale production of carbon fiber from a textile grade PAN polymer. <i>Materials Today Communications</i> , 2022, 31, 103231.	0.9	3
142	Nanoscale variation in energy dissipation in austenitic shape memory alloys in ultimate loading cycles. <i>Journal of Intelligent Material Systems and Structures</i> , 2015, 26, 2411-2417.	1.4	2