List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Current status of carbon fibre and carbon fibre composites recycling. Composites Part B: Engineering, 2020, 193, 108053.	12.0	374
2	Hybrid composite laminates reinforced with glass/carbon woven fabrics for lightweight load bearing structures. Materials & Design, 2012, 36, 75-80.	5.1	360
3	Aligning multilayer graphene flakes with an external electric field to improve multifunctional properties of epoxy nanocomposites. Carbon, 2015, 94, 607-618.	10.3	288
4	Carbon science in 2016: Status, challenges and perspectives. Carbon, 2016, 98, 708-732.	10.3	261
5	Novel Electrically Conductive Porous PDMS/Carbon Nanofiber Composites for Deformable Strain Sensors and Conductors. ACS Applied Materials & amp; Interfaces, 2017, 9, 14207-14215.	8.0	239
6	Preparation, structure and supercapacitance of bonded carbon nanofiber electrode materials. Carbon, 2011, 49, 2380-2388.	10.3	202
7	Strain Sensors with Adjustable Sensitivity by Tailoring the Microstructure of Graphene Aerogel/PDMS Nanocomposites. ACS Applied Materials & Interfaces, 2016, 8, 24853-24861.	8.0	195
8	Electrospun nanofibre toughened carbon/epoxy composites: Effects of polyetherketone cardo (PEK-C) nanofibre diameter and interlayer thickness. Composites Science and Technology, 2010, 70, 1660-1666.	7.8	151
9	Dualâ€Layer Superamphiphobic/Superhydrophobicâ€Oleophilic Nanofibrous Membranes with Unidirectional Oilâ€Transport Ability and Strengthened Oil–Water Separation Performance. Advanced Materials Interfaces, 2015, 2, 1400506.	3.7	143
10	Improving the toughness and electrical conductivity of epoxy nanocomposites by using aligned carbon nanofibres. Composites Science and Technology, 2015, 117, 146-158.	7.8	135
11	Phase morphology of nanofibre interlayers: Critical factor for toughening carbon/epoxy composites. Composites Science and Technology, 2012, 72, 256-262.	7.8	120
12	Structural Comparison of Various Silkworm Silks: An Insight into the Structure–Property Relationship. Biomacromolecules, 2018, 19, 906-917.	5.4	116
13	Interlayer self-healing and toughening of carbon fibre/epoxy composites using copolymer films. Composites Part A: Applied Science and Manufacturing, 2012, 43, 512-518.	7.6	97
14	Epoxy nanocomposites simultaneously strengthened and toughened by hybridization with graphene oxide and block ionomer. Composites Science and Technology, 2018, 168, 363-370.	7.8	95
15	Epoxy nanocomposites containing magnetite-carbon nanofibers aligned using a weak magnetic field. Polymer, 2015, 68, 25-34.	3.8	89
16	Silkworm cocoon as natural material and structure for thermal insulation. Materials & Design, 2013, 49, 842-849.	5.1	85
17	Improving the bending strength and energy absorption of corrugated sandwich composite structure. Materials & Design, 2013, 52, 767-773.	5.1	85
18	Polyphenolâ€Induced Adhesive Liquid Metal Inks for Substrateâ€Independent Direct Pen Writing. Advanced Functional Materials, 2021, 31, 2007336.	14.9	84

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19	High temperature thermally conductive nanocomposite textile by "green―electrospinning. Nanoscale, 2018, 10, 16868-16872.	5.6	81
20	Multifunctional properties of epoxy nanocomposites reinforced by aligned nanoscale carbon. Materials and Design, 2016, 94, 554-564.	7.0	80
21	Magnetic and Conductive Liquid Metal Gels. ACS Applied Materials & Interfaces, 2020, 12, 20119-20128.	8.0	73
22	Mechanical properties and structure of silkworm cocoons: A comparative study of Bombyx mori, Antheraea assamensis, Antheraea pernyi and Antheraea mylitta silkworm cocoons. Materials Science and Engineering C, 2013, 33, 3206-3213.	7.3	68
23	Photoprotection by Silk Cocoons. Biomacromolecules, 2013, 14, 3660-3667.	5.4	68
24	Magnetic and mechanical properties of polyvinyl alcohol (PVA) nanocomposites with hybrid nanofillers – Graphene oxide tethered with magnetic Fe3O4 nanoparticles. Chemical Engineering Journal, 2014, 237, 462-468.	12.7	68
25	Kinetic investigation into pH-dependent color of anthocyanin and its sensing performance. Dyes and Pigments, 2019, 170, 107643.	3.7	68
26	Toughening and self-healing of epoxy matrix laminates using mendable polymer stitching. Composites Science and Technology, 2012, 72, 1396-1401.	7.8	66
27	Synergies of vertical graphene and manganese dioxide in enhancing the energy density of carbon fibre-based structural supercapacitors. Composites Science and Technology, 2021, 201, 108568.	7.8	62
28	Hierarchically structured electrodes for moldable supercapacitors by synergistically hybridizing vertical graphene nanosheets and MnO2. Carbon, 2021, 172, 272-282.	10.3	59
29	Effect of natural fibre reinforcement on the sound and vibration damping properties of bio-composites compression moulded by nonwoven mats. Composites Communications, 2019, 13, 12-17.	6.3	58
30	Aligning carbon nanofibres in glass-fibre/epoxy composites to improve interlaminar toughness and crack-detection capability. Composites Science and Technology, 2017, 152, 46-56.	7.8	54
31	High-performance hierarchical MnO2/CNT electrode for multifunctional supercapacitors. Carbon, 2021, 184, 504-513.	10.3	54
32	Comparative Study of Strainâ€Dependent Structural Changes of Silkworm Silks: Insight into the Structural Origin of Strainâ€Stiffening. Small, 2017, 13, 1702266.	10.0	53
33	Thermal and mechanical properties of a dendritic hydroxylâ€functional hyperbranched polymer and tetrafunctional epoxy resin blends. Journal of Polymer Science, Part B: Polymer Physics, 2010, 48, 417-424.	2.1	51
34	Healing of carbon fibre–epoxy composite T-joints using mendable polymer fibre stitching. Composites Part B: Engineering, 2013, 45, 1499-1507.	12.0	50
35	Study on thermoplastic-modified multifunctional epoxies: Influence of heating rate on cure behaviour and phase separation. Composites Science and Technology, 2009, 69, 1172-1179.	7.8	49
36	A Review on Lithium-Ion Battery Separators towards Enhanced Safety Performances and Modelling Approaches. Molecules, 2021, 26, 478.	3.8	49

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37	Electrospun liquid metal/PVDF-HFP nanofiber membranes with exceptional triboelectric performance. Nano Energy, 2022, 92, 106713.	16.0	49
38	Recent developments of hybrid piezo–triboelectric nanogenerators for flexible sensors and energy harvesters. Nanoscale Advances, 2021, 3, 5465-5486.	4.6	47
39	Enhancing the thermal and mechanical properties of polyvinyl alcohol (PVA) with boron nitride nanosheets and cellulose nanocrystals. Polymer, 2018, 148, 101-108.	3.8	43
40	Mechanically stretchable piezoelectric polyvinylidene fluoride (PVDF)/Boron nitride nanosheets (BNNSs) polymer nanocomposites. Composites Part B: Engineering, 2019, 175, 107157.	12.0	43
41	A novel route for tethering graphene with iron oxide and its magnetic field alignment in polymer nanocomposites. Polymer, 2016, 97, 273-284.	3.8	42
42	Nano- to macro-scale control of 3D printed materials via polymerization induced microphase separation. Nature Communications, 2022, 13, .	12.8	42
43	Environmentally Friendly Flexible Strain Sensor from Waste Cotton Fabrics and Natural Rubber Latex. Polymers, 2019, 11, 404.	4.5	41
44	Nanostructure Control in 3D Printed Materials. Advanced Materials, 2022, 34, e2107643.	21.0	40
45	Manufacturing Influence on the Delamination Fracture Behavior of the T800H/3900-2 Carbon Fiber Reinforced Polymer Composites. Materials and Manufacturing Processes, 2007, 22, 768-772.	4.7	37
46	Synergistic influence from the hybridization of boron nitride and graphene oxide nanosheets on the thermal conductivity and mechanical properties of polymer nanocomposites. Composites Science and Technology, 2017, 151, 252-257.	7.8	37
47	Fracture and fatigue behaviour of epoxy nanocomposites containing 1-D and 2-D nanoscale carbon fillers. Engineering Fracture Mechanics, 2018, 203, 102-114.	4.3	37
48	Enhancing output performance of PVDF-HFP fiber-based nanogenerator by hybridizing silver nanowires and perovskite oxide nanocrystals. Nano Energy, 2022, 98, 107343.	16.0	35
49	Synergistic effects of PEK-C/VGCNF composite nanofibres on a trifunctional epoxy resin. Composites Science and Technology, 2011, 71, 1060-1067.	7.8	34
50	Covalent/crystallite cross-linked co-network hydrogels: An efficient and simple strategy for mechanically strong and tough hydrogels. Chemical Engineering Journal, 2016, 301, 92-102.	12.7	34
51	Interactions between fibroin and sericin proteins from Antheraea pernyi and Bombyx mori silk fibers. Journal of Colloid and Interface Science, 2016, 478, 316-323.	9.4	33
52	Photocatalysis and self-cleaning from g-C3N4 coated cotton fabrics under sunlight irradiation. Chemical Physics Letters, 2018, 699, 146-154.	2.6	33
53	PET-RAFT facilitated 3D printable resins with multifunctional RAFT agents. Materials Chemistry Frontiers, 2021, 5, 2271-2282.	5.9	32
54	Preparation and characterization of nanocomposite films based on gum arabic, maltodextrin and polyethylene glycol reinforced with turmeric nanofiber isolated from turmeric spent. Materials Science and Engineering C, 2019, 97, 723-729.	7.3	31

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55	The key structural features governing the free radicals and catalytic activity of graphite/graphene oxide. Physical Chemistry Chemical Physics, 2020, 22, 3112-3121.	2.8	30
56	Interphase study of thermoplastic modified epoxy matrix composites: Phase behaviour around a single fibre influenced by heating rate and surface treatment. Composites Part A: Applied Science and Manufacturing, 2010, 41, 787-794.	7.6	28
57	Transparent, stretchable and high-performance triboelectric nanogenerator based on dehydration-free ionically conductive solid polymer electrode. Nano Energy, 2021, 88, 106289.	16.0	28
58	Controlling mechanical properties of 3D printed polymer composites through photoinduced reversible addition–fragmentation chain transfer (RAFT) polymerization. Polymer Chemistry, 2021, 13, 44-57.	3.9	27
59	Characterisation of pyrolysis kinetics and detailed gas species formations of engineering polymers via reactive molecular dynamics (ReaxFF). Journal of Analytical and Applied Pyrolysis, 2021, 153, 104931.	5.5	26
60	The effect of carbon nanofibres on self-healing epoxy/poly(ε-caprolactone) blends. Composites Science and Technology, 2012, 72, 1952-1959.	7.8	25
61	Surface energy of silk fibroin and mechanical properties of silk cocoon composites. RSC Advances, 2015, 5, 1640-1647.	3.6	25
62	Designing Nanostructured 3D Printed Materials by Controlling Macromolecular Architecture. Angewandte Chemie - International Edition, 2022, 61, .	13.8	25
63	Experimental and numerical perspective on the fire performance of MXene/Chitosan/Phytic acid coated flexible polyurethane foam. Scientific Reports, 2021, 11, 4684.	3.3	24
64	Soft Liquid Metal Infused Conductive Sponges. Advanced Materials Technologies, 2022, 7, .	5.8	24
65	Characterization and Analysis of Delamination Fracture and Nanocreep Properties in Carbon Epoxy Composites Manufactured by Different Processes. Journal of Composite Materials, 2006, 40, 1287-1299.	2.4	23
66	Microstructure and mechanical properties of silk from different components of the Antheraea pernyi cocoon. Materials & Design, 2015, 65, 766-771.	5.1	23
67	Effects of mechanical deformation on electric performance of rechargeable batteries embedded in load carrying composite structures. Plastics, Rubber and Composites, 2014, 43, 98-104.	2.0	22
68	Enhancing the triboelectricity of stretchable electrospun piezoelectric polyvinylidene fluoride/boron nitride nanosheets composite nanofibers. Composites Communications, 2020, 22, 100535.	6.3	22
69	Strain stiffening and positive piezoconductive effect of liquid metal/elastomer soft composites. Composites Science and Technology, 2021, 201, 108497.	7.8	22
70	N-doped reduced graphene oxide (rGO) wrapped carbon microfibers as binder-free electrodes for flexible fibre supercapacitors and sodium-ion batteries. Journal of Energy Storage, 2021, 37, 102453.	8.1	22
71	Natural and highly protective composite structures – Wild silkworm cocoons. Composites Communications, 2017, 4, 1-4.	6.3	21
72	Functionalization of Silk with In-Situ Synthesized Platinum Nanoparticles. Materials, 2018, 11, 1929.	2.9	21

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73	Optimizing twisted yarn structure for natural fiber-reinforced polymeric composites. Journal of Composite Materials, 2018, 52, 373-381.	2.4	19
74	Carbon fibre electrodes for ultra long cycle life pseudocapacitors by engineering the nano-structure of vertical graphene and manganese dioxides. Carbon, 2021, 177, 260-270.	10.3	19
75	Photoinduced synthesis of gold nanoparticle–bacterial cellulose nanocomposite and its application for in-situ detection of trace concentration of dyes in textile and paper. Cellulose, 2018, 25, 3941-3953.	4.9	16
76	Creating ionic pathways in solid-state polymer electrolyte by using PVA-coated carbon nanofibers. Composites Science and Technology, 2021, 207, 108710.	7.8	16
77	Coloured powder from coloured textile waste for fabric printing application. Cellulose, 2021, 28, 1179-1189.	4.9	15
78	Improving the gas barrier, mechanical and thermal properties of poly(vinyl alcohol) with molybdenum disulfide nanosheets. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 406-414.	2.1	14
79	Cocoon of the silkworm <i>Antheraea pernyi</i> as an example of a thermally insulating biological interface. Biointerphases, 2014, 9, 031013.	1.6	12
80	Structure–property relationships of elementary bamboo fibers. Cellulose, 2016, 23, 3521-3534.	4.9	12
81	Enhanced through-thickness thermal conductivity of epoxy with cellulose-supported boron nitride nanosheets. Polymer, 2019, 179, 121653.	3.8	12
82	Post-transition metal/polymer composites for the separation and sensing of alkali metal ions. Journal of Materials Chemistry A, 2021, 9, 19854-19864.	10.3	12
83	An Investigation towards Coupling Molecular Dynamics with Computational Fluid Dynamics for Modelling Polymer Pyrolysis. Molecules, 2022, 27, 292.	3.8	12
84	Surface Functionalization of Electrodes and Synthesis of Dual-Phase Solid Electrolytes for Structural Supercapacitors. ACS Applied Materials & Interfaces, 2022, 14, 30857-30871.	8.0	12
85	Consistent model predictions for isothermal cure kinetics investigation of high performance epoxy prepregs. Journal of Applied Polymer Science, 2008, 107, 2231-2237.	2.6	10
86	Inspection of Drop-weight Impact Damage in Woven CFRP Laminates Fabricated by Different Processes. Journal of Composite Materials, 2009, 43, 1939-1946.	2.4	10
87	Structural and material properties of a rapidly cured thermoplasticâ€ŧoughened epoxy system. Journal of Applied Polymer Science, 2009, 113, 485-491.	2.6	9
88	Palladium nanoparticle colored cotton fabric as a highly efficient catalyst for colorimetric sensing of H2O2. Cellulose, 2020, 27, 7791-7803.	4.9	9
89	Pyrolysis and combustion characterisation of HDPE/APP composites via molecular dynamics and CFD simulations. Journal of Analytical and Applied Pyrolysis, 2022, 163, 105499.	5.5	9
90	The effect of fibrous structural difference on thermal insulation properties of biological composites: Silkworm cocoons. Textile Reseach Journal, 2016, 86, 1935-1946.	2.2	7

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91	Using Carbon Nanofibre Sensors for In-situ Detection and Monitoring of Disbonds in Bonded Composite Joints. Procedia Engineering, 2017, 188, 362-368.	1.2	7
92	Induction heating for the removal of liquid metal-based implant mimics: A proof-of-concept. Applied Materials Today, 2022, 27, 101459.	4.3	7
93	Interfacial heat transfer through a natural protective fibrous architecture: a wild silkworm cocoon wall. Textile Reseach Journal, 2015, 85, 1035-1044.	2.2	6
94	Thermally mendable epoxy resin strengthened with carbon nanofibres. Composites Part A: Applied Science and Manufacturing, 2013, 55, 45-52.	7.6	5
95	Prestrained twistless flax yarn as reinforcement for polymerâ€matrix composites. Polymer Composites, 2020, 41, 930-938.	4.6	5
96	Carbonization of low thermal stability polymers at the interface of liquid metals. Carbon, 2021, 171, 938-945.	10.3	5
97	Nanophase morphology and crystallization in poly(vinylidene) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 507 2019, 68, 418-427.	Td (fluoric 3.1	le)/polydime 4
98	Bifunctional graphene oxide nanosheets for interfacially robust polymer actuators with instant solvent-induced self-folding. Polymer, 2020, 186, 122037.	3.8	4
99	Tuning the Mechanical Properties of Silkworm Silk Fibres by Thermally Induced Modification of Crystalline Nanostructure. Fibers and Polymers, 2021, 22, 373-381.	2.1	4
100	An experimental study of low velocity impact response in 2/2 twill weave composite laminates manufactured by a novel fabrication process. Journal of Materials Science, 2007, 42, 232-238.	3.7	3
101	Directional moisture transfer through a wild silbworm cocoon wall Riginterphases 2016 11 021008	16	1