

Yiu-Wing Mai

List of Publications by Year in descending order

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644
papers

41,347
citations

2832

97
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4983

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all docs

674
docs citations

674
times ranked

34869
citing authors

#	ARTICLE	IF	CITATIONS
1	Recyclability and Self-Healing of Dynamic Cross-Linked Polyimide with Mechanical/Electrical Damage. Energy and Environmental Materials, 2023, 6, .	7.3	26
2	Electrospinning Engineering Enables High-Performance Sodium-Ion Batteries. Advanced Fiber Materials, 2022, 4, 43-65.	7.9	71
3	Exceptional high-strain-rate tensile mechanical properties in a CrCoNi medium-entropy alloy. Science China Materials, 2022, 65, 811-819.	3.5	24
4	Tensile properties of 3D-printed CNT-SGF reinforced PLA composites. Composites Science and Technology, 2022, 230, 109333.	3.8	14
5	Advances on Thermally Conductive Epoxy-Based Composites as Electronic Packaging Underfill Materials—A Review. Advanced Materials, 2022, 34, e2201023.	11.1	61
6	Electrospinning-Based Strategies for Battery Materials. Advanced Energy Materials, 2021, 11, 2000845.	10.2	169
7	Functionalized N-doped hollow graphitic carbon-nanotube/carbon -nanosphere composite. Composites Communications, 2021, 23, 100578.	3.3	23
8	Glass fibres coated with flame synthesised carbon nanotubes to enhance interface properties. Composites Communications, 2021, 24, 100623.	3.3	10
9	Interlaminar toughening in carbon fiber/epoxy composites interleaved with CNT-decorated polycaprolactone nanofibers. Composites Communications, 2021, 24, 100622.	3.3	43
10	Direct observation of nanoscale dynamics of ferroelectric degradation. Nature Communications, 2021, 12, 2095.	5.8	30
11	Ultrafast Flame-Induced Pyrolysis of Poly(dimethylsiloxane) Foam Materials toward Exceptional Superhydrophobic Surfaces and Reliable Mechanical Robustness. ACS Applied Materials & Interfaces, 2021, 13, 23161-23172.	4.0	78
12	Unraveling the mechanical origin of stable solid electrolyte interphase. Joule, 2021, 5, 1860-1872.	11.7	89
13	Spider Web-Inspired Graphene Skeleton-Based High Thermal Conductivity Phase Change Nanocomposites for Battery Thermal Management. Nano-Micro Letters, 2021, 13, 180.	14.4	92
14	Research progress in electrospinning engineering for all-solid-state electrolytes of lithium metal batteries. Journal of Energy Chemistry, 2021, 61, 253-268.	7.1	52
15	Electrospinning Techniques: Electrospinning-Based Strategies for Battery Materials (Adv. Energy) Tj ETQq1 1 0.784314 rgBT ₁₀ /Overlook	10.2	10
16	A highly stretchable, super-hydrophobic strain sensor based on polydopamine and graphene reinforced nanofiber composite for human motion monitoring. Composites Part B: Engineering, 2020, 181, 107580.	5.9	182
17	Effects of selective distribution of alumina micro-particles on rheological, mechanical and thermal conductive properties of asphalt/SBS/alumina composites. Composites Science and Technology, 2020, 186, 107917.	3.8	30
18	Thermal conductivity of graphene-based polymer nanocomposites. Materials Science and Engineering Reports, 2020, 142, 100577.	14.8	188

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19	Core-shell structured polyethylene glycol functionalized graphene for energy-storage polymer dielectrics: Combined mechanical and dielectric performances. Composites Science and Technology, 2020, 199, 108341.	3.8	16
20	Flame synthesis of carbon nanotubes on glass fibre fabrics and their enhancement in electrical and thermal properties of glass fibre/epoxy composites. Composites Part B: Engineering, 2020, 198, 108249.	5.9	22
21	Tough Nature-Inspired Helicoidal Composites with Printing-Induced Voids. Cell Reports Physical Science, 2020, 1, 100109.	2.8	27
22	In-situ shear exfoliation and thermal conductivity of SBS/Graphite nanoplatelet nanocomposites. Composites Part B: Engineering, 2020, 197, 108172.	5.9	12
23	Li metal deposition and stripping in a solid-state battery via Coble creep. Nature, 2020, 578, 251-255.	13.7	333
24	Conductive graphite nanoplatelets (GNPs)/polyethersulfone (PES) composites with inter-connective porous structure for chemical vapor sensing. Composites Science and Technology, 2019, 184, 107883.	3.8	9
25	Introduction to short fibre-reinforced polymer composites. , 2019, , 1-7.		6
26	Major factors affecting the performance of short fibre-reinforced polymers. , 2019, , 33-66.		0
27	Strength of short fibre-reinforced polymers. , 2019, , 91-137.		3
28	Extrusion compounding and injection moulding. , 2019, , 9-32.		0
29	Stress transfer in short fibre-reinforced polymers. , 2019, , 67-89.		1
30	Elastic modulus of short fibre-reinforced polymers. , 2019, , 139-188.		0
31	Thermal conductivity and expansion of short fibre-reinforced polymer composites. , 2019, , 213-240.		0
32	Effect of electrospun polysulfone/cellulose nanocrystals interleaves on the interlaminar fracture toughness of carbon fiber/epoxy composites. Composites Science and Technology, 2019, 181, 107673.	3.8	54
33	Synergetic improvement of interlaminar fracture energy in carbon fiber/epoxy composites with nylon nanofiber/polycaprolactone blend interleaves. Composites Part B: Engineering, 2019, 171, 320-328.	5.9	49
34	Fiber-in-Tube Design of Co ₉ S ₈ -Carbon/Co ₉ S ₈ : Enabling Efficient Sodium Storage. Angewandte Chemie, 2019, 131, 6305-6309.	1.6	15
35	Fiber-in-Tube Design of Co ₉ S ₈ -Carbon/Co ₉ S ₈ : Enabling Efficient Sodium Storage. Angewandte Chemie - International Edition, 2019, 58, 6239-6243.	7.2	137
36	Molecular dynamics simulations of friction forces between silica nanospheres. Computational Materials Science, 2019, 162, 96-110.	1.4	3

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37	Numerical Simulation of Failure of Composite Coatings due to Thermal and Hygroscopic Stresses. Coatings, 2019, 9, 243.	1.2	16
38	<i>In situ</i> reactive self-assembly of a graphene oxide nano-coating in polymer foam materials with synergistic fire shielding properties. Journal of Materials Chemistry A, 2019, 7, 27032-27040.	5.2	78
39	Facile flame catalytic growth of carbon nanomaterials on the surface of carbon nanotubes. Applied Surface Science, 2019, 465, 23-30.	3.1	14
40	Spider-Web-Inspired Stretchable Graphene Woven Fabric for Highly Sensitive, Transparent, Wearable Strain Sensors. ACS Applied Materials & Interfaces, 2019, 11, 2282-2294.	4.0	105
41	Tunable negative permittivity in nano-carbon coated magnetic microwire polymer metacomposites. Composites Science and Technology, 2019, 171, 206-217.	3.8	89
42	High-performance epoxy/binary spherical alumina composite as underfill material for electronic packaging. Composites Part A: Applied Science and Manufacturing, 2019, 118, 67-74.	3.8	99
43	Design of mechanically stable, electrically conductive and highly hydrophobic three-dimensional graphene nanoribbon composites by modulating the interconnected network on polymer foam skeleton. Composites Science and Technology, 2019, 171, 162-170.	3.8	82
44	Fe ₃ O ₄ decorated graphene/poly(vinylidene fluoride) nanocomposites with high dielectric constant and low dielectric loss. Composites Science and Technology, 2019, 171, 152-161.	3.8	32
45	Ultrathin Sb ₂ S ₃ nanosheet anodes for exceptional pseudocapacitive contribution to multi-battery charge storage. Energy Storage Materials, 2019, 20, 36-45.	9.5	51
46	Effects of carboxylated carbon nanotubes on the phase separation behaviour and fracture-mechanical properties of an epoxy/polysulfone blend. Composites Science and Technology, 2018, 159, 180-188.	3.8	46
47	TiO ₂ nanoparticle decorated carbon nanofibers for removal of organic dyes. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 549, 205-211.	2.3	72
48	Superior flame retardancy and smoke suppression of epoxy-based composites with phosphorus/nitrogen co-doped graphene. Journal of Hazardous Materials, 2018, 346, 140-151.	6.5	173
49	Multi-functional interface tailoring for enhancing thermal conductivity, flame retardancy and dynamic mechanical property of epoxy/Al ₂ O ₃ composites. Composites Science and Technology, 2018, 160, 42-49.	3.8	107
50	4.2 Effect of Interface Strength on Metal Matrix Composites Properties. , 2018, , 22-59.		3
51	Ultralow-Carbon Nanotube-Toughened Epoxy: The Critical Role of a Double-Layer Interface. ACS Applied Materials & Interfaces, 2018, 10, 1204-1216.	4.0	42
52	Efficient Flame Detection and Early Warning Sensors on Combustible Materials Using Hierarchical Graphene Oxide/Silicone Coatings. ACS Nano, 2018, 12, 416-424.	7.3	227
53	Rational Assembly of Hollow Microporous Carbon Spheres as P Hosts for Long-Life Sodium-Ion Batteries. Advanced Energy Materials, 2018, 8, 1702267.	10.2	85
54	Epoxy nanocomposites simultaneously strengthened and toughened by hybridization with graphene oxide and block ionomer. Composites Science and Technology, 2018, 168, 363-370.	3.8	95

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55	Scalable Approach to Construct Self-Assembled Graphene-Based Films with An Ordered Structure for Thermal Management. ACS Applied Materials & Interfaces, 2018, 10, 41690-41698.	4.0	32
56	Effect of elastic modulus mismatch of epoxy/titanium dioxide coated silver nanowire composites on the performance of thermal conductivity. Composites Science and Technology, 2018, 165, 206-213.	3.8	43
57	Facile fabrication of large 3D graphene filler modified epoxy composites with improved thermal conduction and tribological performance. Carbon, 2018, 139, 1168-1177.	5.4	71
58	Graphene/Boron Nitride/Polyurethane Microlaminates for Exceptional Dielectric Properties and High Energy Densities. ACS Applied Materials & Interfaces, 2018, 10, 26641-26652.	4.0	81
59	Constructing desirable ion-conducting channels within ionic liquid-based composite polymer electrolytes by using polymeric ionic liquid-functionalized 2D mesoporous silica nanoplates. Nano Energy, 2017, 33, 110-123.	8.2	46
60	Preparation of poly(μ -caprolactone) microspheres and fibers with controllable surface morphology. Materials and Design, 2017, 117, 298-304.	3.3	31
61	J-integral for spallation of protective layer subjected to metal dusting corrosion. Materials and Design, 2017, 119, 263-269.	3.3	1
62	Recent advances in covalent functionalization of carbon nanomaterials with polymers: Strategies and perspectives. Journal of Polymer Science Part A, 2017, 55, 622-631.	2.5	49
63	Simultaneous improvement in the flame resistance and thermal conductivity of epoxy/Al ₂ O ₃ composites by incorporating polymeric flame retardant-functionalized graphene. Journal of Materials Chemistry A, 2017, 5, 13544-13556.	5.2	148
64	Polymeric ionic liquid-functionalized mesoporous silica nanoplates: a new high-performance composite polymer electrolyte for lithium batteries. Electrochimica Acta, 2017, 245, 1010-1022.	2.6	19
65	Self-Assembled Polymeric Ionic Liquid-Functionalized Cellulose Nano-Crystals: Constructing 3D Ion-Conducting Channels Within Ionic Liquid-Based Composite Polymer Electrolytes. Chemistry - A European Journal, 2017, 23, 11881-11890.	1.7	20
66	Computational Design for Scaffold Tissue Engineering. Springer Series in Biomaterials Science and Engineering, 2017, , 349-369.	0.7	6
67	Electrospun Polymer Scaffolds: Their Biomedical and Mechanical Properties. Springer Series in Biomaterials Science and Engineering, 2017, , 237-270.	0.7	1
68	Improvement of interlaminar fracture toughness in carbon fiber/epoxy composites with carbon nanotubes/polysulfone interleaves. Composites Science and Technology, 2017, 140, 8-15.	3.8	157
69	Delamination toughening of carbon fiber/epoxy laminates by hierarchical carbon nanotube-short carbon fiber interleaves. Composites Science and Technology, 2017, 140, 46-53.	3.8	112
70	Graphene/epoxy interleaves for delamination toughening and monitoring of crack damage in carbon fibre/epoxy composite laminates. Composites Science and Technology, 2017, 140, 123-133.	3.8	130
71	Critical rubber layer thickness of core-shell particles with a rigid core and a soft shell for toughening of epoxy resins without loss of elastic modulus and strength. Composites Science and Technology, 2017, 153, 253-260.	3.8	33
72	Improving thermal and flame retardant properties of epoxy resin by functionalized graphene containing phosphorous, nitrogen and silicon elements. Composites Part A: Applied Science and Manufacturing, 2017, 103, 74-83.	3.8	158

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73	A promising nanohybrid of silicon carbide nanowires scrolled by graphene oxide sheets with a synergistic effect for poly(propylene carbonate) nanocomposites. <i>Journal of Materials Chemistry A</i> , 2017, 5, 22361-22371.	5.2	25
74	Super-hydrophobic coatings based on non-solvent induced phase separation during electro-spraying. <i>Journal of Colloid and Interface Science</i> , 2017, 506, 603-612.	5.0	53
75	Magnetic, electrically conductive and lightweight graphene/iron pentacarbonyl porous films enhanced with chitosan for highly efficient broadband electromagnetic interference shielding. <i>Composites Science and Technology</i> , 2017, 151, 71-78.	3.8	58
76	Engineering Ceramic Fiber Nanostructures Through Polymer-Mediated Electrospinning. <i>Engineering Materials and Processes</i> , 2017, , 3-30.	0.2	3
77	Improvement of atomic oxygen erosion resistance of carbon fiber and carbon fiber/epoxy composite interface with a silane coupling agent. <i>Materials and Design</i> , 2016, 109, 171-178.	3.3	60
78	Nanoparticles. <i>Engineering Materials and Processes</i> , 2016, , 5-33.	0.2	0
79	Processing. <i>Engineering Materials and Processes</i> , 2016, , 35-67.	0.2	1
80	Facile One Pot Polycondensation Method to Synthesize the Crosslinked Polyethylene glycol-Based Copolymer Electrolytes. <i>Macromolecular Chemistry and Physics</i> , 2016, 217, 1607-1613.	1.1	10
81	Wear/Scratch Damage. <i>Engineering Materials and Processes</i> , 2016, , 207-226.	0.2	0
82	Effect of Dual Reactive Compatibilizers on the Formation of Co-Continuous Morphology of Low Density Polyethylene/Polyamide 6 Blends with Low Polyamide 6 Content. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 4515-4525.	1.8	25
83	In situ reduction of iron oxide with graphene for convenient synthesis of various graphene hybrids. <i>Carbon</i> , 2016, 107, 138-145.	5.4	13
84	Effect of non-covalent functionalisation on thermal and mechanical properties of graphene-polymer nanocomposites. <i>Carbon</i> , 2016, 102, 311-318.	5.4	108
85	Temperature effect on nano-rubber toughening in epoxy and epoxy/carbon fiber laminated composites. <i>Composites Part B: Engineering</i> , 2016, 95, 423-432.	5.9	40
86	Structure, rheological, thermal conductive and electrical insulating properties of high-performance hybrid epoxy/nanosilica/AgNWs nanocomposites. <i>Composites Science and Technology</i> , 2016, 128, 207-214.	3.8	95
87	Improving the electrical conductivity and interface properties of carbon fiber/epoxy composites by low temperature flame growth of carbon nanotubes. <i>RSC Advances</i> , 2016, 6, 48896-48904.	1.7	37
88	A facile approach for preparation of polystyrene/graphene nanocomposites with ultra-low percolation threshold through an electrostatic assembly process. <i>Composites Science and Technology</i> , 2016, 134, 49-56.	3.8	84
89	In-situ pull-off of ZnO nanowire from carbon fiber and improvement of interlaminar toughness of hierarchical ZnO nanowire/carbon fiber hybrid composite laminates. <i>Carbon</i> , 2016, 110, 69-78.	5.4	78
90	Flame Retardancy. <i>Engineering Materials and Processes</i> , 2016, , 185-206.	0.2	0

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91	Hollow Nanotubes of N-Doped Carbon on CoS. <i>Angewandte Chemie</i> , 2016, 128, 16063-16066.	1.6	14
92	Hollow Nanotubes of N-Doped Carbon on CoS. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15831-15834.	7.2	130
93	Decoration of defect-free graphene nanoplatelets with alumina for thermally conductive and electrically insulating epoxy composites. <i>Composites Science and Technology</i> , 2016, 137, 16-23.	3.8	110
94	Interfacial thermal conductance in multilayer graphene/phosphorene heterostructure. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 465301.	1.3	18
95	Electrospun carbon-based nanostructured electrodes for advanced energy storage – A review. <i>Energy Storage Materials</i> , 2016, 5, 58-92.	9.5	178
96	Effects of strain rate on mechanical properties of nanosilica/epoxy. <i>Composites Part B: Engineering</i> , 2016, 96, 119-124.	5.9	40
97	Silane bonded graphene aerogels with tunable functionality and reversible compressibility. <i>Carbon</i> , 2016, 107, 573-582.	5.4	83
98	Polymer Nanocomposites. <i>Engineering Materials and Processes</i> , 2016, , .	0.2	11
99	Inserting Sn Nanoparticles into the Pores of TiO ₂ – C Nanofibers by Lithiation. <i>Advanced Functional Materials</i> , 2016, 26, 376-383.	7.8	51
100	On adhesive properties of nano-silica/epoxy bonded single-lap joints. <i>Materials and Design</i> , 2016, 95, 212-218.	3.3	92
101	Ultrafast Synthesis of Multifunctional N-Doped Graphene Foam in an Ethanol Flame. <i>ACS Nano</i> , 2016, 10, 453-462.	7.3	119
102	Effect of a High Density of Stacking Faults on the Young's Modulus of GaAs Nanowires. <i>Nano Letters</i> , 2016, 16, 1911-1916.	4.5	61
103	Determination of dynamic elastic modulus of polymeric materials using vertical split Hopkinson pressure bar. <i>International Journal of Mechanical Sciences</i> , 2016, 108-109, 188-196.	3.6	56
104	Toughening of Epoxy Nanocomposites: Nano and Hybrid Effects. <i>Polymer Reviews</i> , 2016, 56, 70-112.	5.3	140
105	A simple and controllable graphene-templated approach to synthesise 2D silica-based nanomaterials using water-in-oil microemulsions. <i>Chemical Communications</i> , 2016, 52, 575-578.	2.2	17
106	Biocompatible reduced graphene oxide sheets with superior water dispersibility stabilized by cellulose nanocrystals and their polyethylene oxide composites. <i>Green Chemistry</i> , 2016, 18, 1674-1683.	4.6	67
107	Effects of thermal residual stress on interfacial properties of polyphenylene sulphide/carbon fibre (PPS/CF) composite by microbond test. <i>Journal of Materials Science</i> , 2016, 51, 334-343.	1.7	28
108	Microstructural Characterization. <i>Engineering Materials and Processes</i> , 2016, , 69-101.	0.2	0

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109	Functional Properties. Engineering Materials and Processes, 2016, , 227-261.	0.2	0
110	Applications and Outlook. Engineering Materials and Processes, 2016, , 279-297.	0.2	0
111	Thermal Properties. Engineering Materials and Processes, 2016, , 161-184.	0.2	0
112	Effects of loading misalignment and tapering angle on the measured mechanical properties of nanowires. Nanotechnology, 2015, 26, 435704.	1.3	6
113	High-performance electrospun nanostructured composite fiber anodes for lithium-ion batteries. , 2015, , 662-689.		2
114	Balanced electrical, thermal and mechanical properties of epoxy composites filled with chemically reduced graphene oxide and rubber nanoparticles. Composites Science and Technology, 2015, 121, 104-114.	3.8	109
115	An effective non-covalent grafting approach to functionalize individually dispersed reduced graphene oxide sheets with high grafting density, solubility and electrical conductivity. Nanoscale, 2015, 7, 3548-3557.	2.8	63
116	Determination of Young's Modulus of Ultrathin Nanomaterials. Nano Letters, 2015, 15, 5279-5283.	4.5	44
117	High performance composite polymer electrolytes using polymeric ionic liquid-functionalized graphene molecular brushes. Journal of Materials Chemistry A, 2015, 3, 18064-18073.	5.2	50
118	High quality barium titanate nanofibers for flexible piezoelectric device applications. Sensors and Actuators A: Physical, 2015, 233, 195-201.	2.0	68
119	Fracture resistance, thermal and electrical properties of epoxy composites containing aligned carbon nanotubes by low magnetic field. Composites Science and Technology, 2015, 114, 126-135.	3.8	108
120	On the Adhesion performance of a single electrospun fiber. Applied Physics A: Materials Science and Processing, 2015, 118, 51-56.	1.1	15
121	Effect of fiber size on structural and tensile properties of electrospun polyvinylidene fluoride fibers. Polymer Engineering and Science, 2015, 55, 1812-1817.	1.5	32
122	3D network graphene interlayer for excellent interlaminar toughness and strength in fiber reinforced composites. Carbon, 2015, 95, 978-986.	5.4	76
123	Modeling the Mechanical Properties of Functionalized Carbon Nanotubes and Their Composites: Design at the Atomic Level. Advances in Condensed Matter Physics, 2014, 2014, 1-8.	0.4	7
124	Deformation-induced phase transformation in 4H-SiC nanopillars. Acta Materialia, 2014, 80, 392-399.	3.8	16
125	High-performance epoxy/silica coated silver nanowire composites as underfill material for electronic packaging. Composites Science and Technology, 2014, 105, 80-85.	3.8	146
126	Flame synthesis of carbon nanotubes onto carbon fiber woven fabric and improvement of interlaminar toughness of composite laminates. Composites Science and Technology, 2014, 101, 159-166.	3.8	51

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127	Poly(ethylene glycol) grafted multi-walled carbon nanotubes/LiFePO ₄ composite cathodes for lithium ion batteries. <i>Journal of Power Sources</i> , 2014, 246, 260-268.	4.0	59
128	Thermodynamics at the nanoscale: A new approach to the investigation of unique physicochemical properties of nanomaterials. <i>Materials Science and Engineering Reports</i> , 2014, 79, 1-40.	14.8	133
129	Sulfur encapsulated in porous hollow CNTs@CNFs for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10126-10130.	5.2	98
130	Electrospun barium titanate/cobalt ferrite composite fibers with improved magnetoelectric performance. <i>RSC Advances</i> , 2014, 4, 55217-55223.	1.7	20
131	Interactions between crystalline nanospheres: comparisons between molecular dynamics simulations and continuum models. <i>RSC Advances</i> , 2014, 4, 34500.	1.7	20
132	Exceptional electrochemical performance of porous TiO ₂ @carbon nanofibers for lithium ion battery anodes. <i>Journal of Materials Chemistry A</i> , 2014, 2, 3875-3880.	5.2	71
133	Core/shell TiO ₂ @MnO ₂ /MnO ₂ heterostructure anodes for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 39906.	1.7	31
134	Temperature and strain-rate dependent fracture strength of graphynes. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 425301.	1.3	46
135	Monochromatic Visible Light Photoinitiator Janus-Faced Initiation and Inhibition for Storage of Colored 3D Images. <i>Journal of the American Chemical Society</i> , 2014, 136, 8855-8858.	6.6	118
136	Hollow-tunneled graphitic carbon nanofibers through Ni-diffusion-induced graphitization as high-performance anode materials. <i>Energy and Environmental Science</i> , 2014, 7, 2689-2696.	15.6	135
137	Tensile and tearing fracture properties of graphene oxide papers intercalated with carbon nanotubes. <i>Carbon</i> , 2014, 77, 481-491.	5.4	35
138	Exceptional Electrical Conductivity and Fracture Resistance of 3D Interconnected Graphene Foam/Epoxy Composites. <i>ACS Nano</i> , 2014, 8, 5774-5783.	7.3	298
139	Structure-mediated thermal transport of monolayer graphene allotropes nanoribbons. <i>Carbon</i> , 2014, 77, 416-423.	5.4	35
140	Microstructure development in electrospun carbon nanotube reinforced polyvinylidene fluoride fibers and its influence on tensile strength and dielectric permittivity. <i>Composites Science and Technology</i> , 2013, 88, 1-8.	3.8	70
141	Strengthening Brittle Semiconductor Nanowires through Stacking Faults: Insights from in Situ Mechanical Testing. <i>Nano Letters</i> , 2013, 13, 4369-4373.	4.5	45
142	Wear and scratch damage in polymer nanocomposites. , 2013, , 551-570.		1
143	Hollow Carbon-Nanotube/Carbon-Nanofiber Hybrid Anodes for Li-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2013, 135, 16280-16283.	6.6	426
144	Toughening Epoxy Thermosets with Block Ionomers: The Role of Phase Domain Size. <i>Macromolecules</i> , 2013, 46, 8190-8202.	2.2	63

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145	Core/shell rubber toughened polyamide 6: an effective way to get good balance between toughness and yield strength. <i>RSC Advances</i> , 2013, 3, 21563.	1.7	33
146	Effect of hybridization of liquid rubber and nanosilica particles on the morphology, mechanical properties, and fracture toughness of epoxy composites. <i>Journal of Materials Science</i> , 2013, 48, 3546-3556.	1.7	52
147	Anelastic Behavior in GaAs Semiconductor Nanowires. <i>Nano Letters</i> , 2013, 13, 3169-3172.	4.5	39
148	Facile chemical synthesis of nitrogen-doped graphene sheets and their electrochemical capacitance. <i>Journal of Power Sources</i> , 2013, 241, 460-466.	4.0	67
149	Phase behavior and nanomechanical mapping of block ionomer complexes. <i>Soft Matter</i> , 2013, 9, 2662.	1.2	10
150	Recent developments in the fire retardancy of polymeric materials. <i>Progress in Polymer Science</i> , 2013, 38, 1357-1387.	11.8	517
151	Size, Dimensionality, and Constituent Stoichiometry Dependence of Physicochemical Properties in Nanosized Binary Alloys. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2421-2426.	1.5	20
152	Size Effect on Curie and Ordering Temperatures of Magnetic Nanoalloys. , 2013, , 2833-2838.		0
153	Molecular Mobility and Mechanical Properties of Novel Clay/Waterborne Polyurethane Nanocomposites. <i>Advanced Science Letters</i> , 2013, 19, 524-528.	0.2	0
154	Incorporation of liquid-like multiwalled carbon nanotubes into an epoxy matrix by solvent-free processing. <i>Nanotechnology</i> , 2012, 23, 225701.	1.3	22
155	Fabrication of Highly-Aligned, Conductive, and Strong Graphene Papers Using Ultralarge Graphene Oxide Sheets. <i>ACS Nano</i> , 2012, 6, 10708-10719.	7.3	344
156	A new route to nanostructured thermosets with block ionomer complexes. <i>Soft Matter</i> , 2012, 8, 688-698.	1.2	30
157	Toughening Epoxy Thermosets with Block Ionomer Complexes: A Nanostructureâ€œMechanical Property Correlation. <i>Macromolecules</i> , 2012, 45, 3829-3840.	2.2	104
158	Exceptional electrochemical performance of freestanding electrospun carbon nanofiber anodes containing ultrafine SnOx particles. <i>Energy and Environmental Science</i> , 2012, 5, 9895.	15.6	165
159	In situ formation of hollow graphitic carbon nanospheres in electrospun amorphous carbon nanofibers for high-performance Li-based batteries. <i>Nanoscale</i> , 2012, 4, 6800.	2.8	90
160	Porous Câ€œLiFePO4â€œC composite microspheres with a hierarchical conductive architecture as a high performance cathode for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 19643.	6.7	27
161	Reinforcement of Polyether Polyurethane with Dopamine-Modified Clay: The Role of Interfacial Hydrogen Bonding. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4571-4578.	4.0	136
162	Non-covalently modified graphene sheets by imidazolium ionic liquids for multifunctional polymer nanocomposites. <i>Journal of Materials Chemistry</i> , 2012, 22, 5666.	6.7	149

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163	Cyclic fatigue crack propagation of nanoparticle modified epoxy. <i>Composites Science and Technology</i> , 2012, 72, 1530-1538.	3.8	59
164	Structural dependence of piezoelectric, dielectric and ferroelectric properties of $K_{0.5}Na_{0.5}(Nb_{1-x}^{2+}/5Cu)_3O_3$ lead-free ceramics with high Q. <i>Materials Research Bulletin</i> , 2012, 47, 4472-4477.	2.7	35
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