

Yiu-Wing Mai

List of Articles by Year in descending order

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citing authors

#	ARTICLE	IF	CITATIONS
1	Re-interpretation of the Weibull strength distribution of polycrystalline ceramics â€” characteristic strength and fracture toughness. <i>Journal of the Mechanics and Physics of Solids</i> , 2025, 196, 106021.	5.5	8
2	In situ three-roll mill exfoliation approach for fabricating asphalt/graphite nanoplatelet composites as thermal interface materials. <i>Composites Science and Technology</i> , 2024, 252, 110627.	8.7	10
3	A review on the ionic conductivity and mechanical properties of composite polymer electrolytes (CPEs) for lithium batteries: Insights from the perspective of polymer/filler composites. <i>Materials Science and Engineering Reports</i> , 2024, 160, 100815.	24.8	47
4	Recyclability and Self-Healing of Dynamic Cross-Linked Polyimide with Mechanical/Electrical Damage. <i>Energy and Environmental Materials</i> , 2023, 6, .	13.9	57
5	Formation of Head/Tail-to-Body Charged Domain Walls by Mechanical Stress. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 2313-2318.	8.0	5
6	Perspectives for multiphase mechanical metamaterials. <i>Materials Science and Engineering Reports</i> , 2023, 153, 100725.	24.8	55
7	Rational designs of mechanical metamaterials: Formulations, architectures, tessellations and prospects. <i>Materials Science and Engineering Reports</i> , 2023, 156, 100755.	24.8	97
8	Unusual thermal properties of graphene origami crease: A molecular dynamics study. <i>Green Energy and Environment</i> , 2022, 7, 86-94.	12.4	40
9	Mechanical properties and deformation behaviours of submicron-sized Cu-Al single crystals. <i>Acta Materialia</i> , 2022, 223, 117460.	8.7	64
10	Tensile properties of 3D-printed CNT-SGF reinforced PLA composites. <i>Composites Science and Technology</i> , 2022, 230, 109333.	8.7	40
11	Advances on Thermally Conductive Epoxy-Based Composites as Electronic Packaging Underfill Materialsâ€”A Review. <i>Advanced Materials</i> , 2022, 34, .	24.5	209
12	Restricted assembly of ultralow loading of graphene oxide for lightweight, mechanically flexible and flame retardant polydimethylsiloxane foam composites. <i>Composites Part B: Engineering</i> , 2022, 247, 110290.	12.8	62
13	Functionalized N-doped hollow graphitic carbon-nanotube/carbon -nanosphere composite. <i>Composites Communications</i> , 2021, 23, 100578.	6.8	28
14	Manipulating ferroelectric behaviors via electron-beam induced crystalline defects. <i>Nanoscale</i> , 2021, 13, 14330-14336.	5.0	5
15	Glass fibres coated with flame synthesised carbon nanotubes to enhance interface properties. <i>Composites Communications</i> , 2021, 24, 100623.	6.8	19
16	Interlaminar toughening in carbon fiber/epoxy composites interleaved with CNT-decorated polycaprolactone nanofibers. <i>Composites Communications</i> , 2021, 24, 100622.	6.8	69
17	Direct observation of nanoscale dynamics of ferroelectric degradation. <i>Nature Communications</i> , 2021, 12, .	13.7	56
18	Ultrafast Flame-Induced Pyrolysis of Poly(dimethylsiloxane) Foam Materials toward Exceptional Superhydrophobic Surfaces and Reliable Mechanical Robustness. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 23161-23172.	8.0	117

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19	Unraveling the mechanical origin of stable solid electrolyte interphase. <i>Joule</i> , 2021, 5, 1860-1872.	25.7	196
20	Electrospinning Engineering Enables High-Performance Sodium-Ion Batteries. <i>Advanced Fiber Materials</i> , 2021, 4, 43-65.	19.0	110
21	Spider Web-Inspired Graphene Skeleton-Based High Thermal Conductivity Phase Change Nanocomposites for Battery Thermal Management. <i>Nano-Micro Letters</i> , 2021, 13, .	30.2	168
22	Research progress in electrospinning engineering for all-solid-state electrolytes of lithium metal batteries. <i>Journal of Energy Chemistry</i> , 2021, 61, 253-268.	14.2	77
23	Exceptional high-strain-rate tensile mechanical properties in a CrCoNi medium-entropy alloy. <i>Science China Materials</i> , 2021, 65, 811-819.	6.7	63
24	A highly stretchable, super-hydrophobic strain sensor based on polydopamine and graphene reinforced nanofiber composite for human motion monitoring. <i>Composites Part B: Engineering</i> , 2020, 181, 107580.	12.8	241
25	Effects of selective distribution of alumina micro-particles on rheological, mechanical and thermal conductive properties of asphalt/SBS/alumina composites. <i>Composites Science and Technology</i> , 2020, 186, 107917.	8.7	44
26	Thermal conductivity of graphene-based polymer nanocomposites. <i>Materials Science and Engineering Reports</i> , 2020, 142, 100577.	24.8	350
27	Core-shell structured polyethylene glycol functionalized graphene for energy-storage polymer dielectrics: Combined mechanical and dielectric performances. <i>Composites Science and Technology</i> , 2020, 199, 108341.	8.7	30
28	Flame synthesis of carbon nanotubes on glass fibre fabrics and their enhancement in electrical and thermal properties of glass fibre/epoxy composites. <i>Composites Part B: Engineering</i> , 2020, 198, 108249.	12.8	32
29	Tough Nature-Inspired Helicoidal Composites with Printing-Induced Voids. <i>Cell Reports Physical Science</i> , 2020, 1, 100109.	4.9	39
30	In-situ shear exfoliation and thermal conductivity of SBS/Graphite nanoplatelet nanocomposites. <i>Composites Part B: Engineering</i> , 2020, 197, 108172.	12.8	20
31	Crease-induced targeted cutting and folding of graphene origami. <i>Carbon</i> , 2020, 165, 259-266.	10.7	24
32	Li metal deposition and stripping in a solid-state battery via Coble creep. <i>Nature</i> , 2020, 578, 251-255.	37.9	470
33	Conductive graphite nanoplatelets (GNPs)/polyethersulfone (PES) composites with inter-connective porous structure for chemical vapor sensing. <i>Composites Science and Technology</i> , 2019, 184, 107883.	8.7	11
34	Effect of electrospun polysulfone/cellulose nanocrystals interleaves on the interlaminar fracture toughness of carbon fiber/epoxy composites. <i>Composites Science and Technology</i> , 2019, 181, 107673.	8.7	67
35	Synergetic improvement of interlaminar fracture energy in carbon fiber/epoxy composites with nylon nanofiber/polycaprolactone blend interleaves. <i>Composites Part B: Engineering</i> , 2019, 171, 320-328.	12.8	72
36	Fiber-in-a-Tube Design of Co ₉ S ₈ @Carbon/Co ₉ S ₈ : Enabling Efficient Sodium Storage. <i>Angewandte Chemie</i> , 2019, 131, 6305-6309.	1.4	17

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37	Fiber-in-Tube Design of Co ₉ S ₈ -Carbon/Co ₉ S ₈ : Enabling Efficient Sodium Storage. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 6239-6243.	14.4	163
38	Molecular dynamics simulations of friction forces between silica nanospheres. <i>Computational Materials Science</i> , 2019, 162, 96-110.	3.2	5
39	Numerical Simulation of Failure of Composite Coatings due to Thermal and Hygroscopic Stresses. <i>Coatings</i> , 2019, 9, 243.	2.5	20
40	<i>In situ</i> reactive self-assembly of a graphene oxide nano-coating in polymer foam materials with synergistic fire shielding properties. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27032-27040.	9.3	103
41	Facile flame catalytic growth of carbon nanomaterials on the surface of carbon nanotubes. <i>Applied Surface Science</i> , 2019, 465, 23-30.	6.7	17
42	Spider-Web-Inspired Stretchable Graphene Woven Fabric for Highly Sensitive, Transparent, Wearable Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 2282-2294.	8.0	138
43	Tunable negative permittivity in nano-carbon coated magnetic microwire polymer metacomposites. <i>Composites Science and Technology</i> , 2019, 171, 206-217.	8.7	111
44	High-performance epoxy/binary spherical alumina composite as underfill material for electronic packaging. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 118, 67-74.	8.1	149
45	Design of mechanically stable, electrically conductive and highly hydrophobic three-dimensional graphene nanoribbon composites by modulating the interconnected network on polymer foam skeleton. <i>Composites Science and Technology</i> , 2019, 171, 162-170.	8.7	101
46	Ultrathin Sb ₂ S ₃ nanosheet anodes for exceptional pseudocapacitive contribution to multi-battery charge storage. <i>Energy Storage Materials</i> , 2019, 20, 36-45.	18.1	72
47	Effects of carboxylated carbon nanotubes on the phase separation behaviour and fracture-mechanical properties of an epoxy/polysulfone blend. <i>Composites Science and Technology</i> , 2018, 159, 180-188.	8.7	70
48	TiO ₂ nanoparticle decorated carbon nanofibers for removal of organic dyes. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 549, 205-211.	5.2	85
49	Superior flame retardancy and smoke suppression of epoxy-based composites with phosphorus/nitrogen co-doped graphene. <i>Journal of Hazardous Materials</i> , 2018, 346, 140-151.	12.5	211
50	Multi-functional interface tailoring for enhancing thermal conductivity, flame retardancy and dynamic mechanical property of epoxy/Al ₂ O ₃ composites. <i>Composites Science and Technology</i> , 2018, 160, 42-49.	8.7	137
51	Ultralow-Carbon Nanotube-Toughened Epoxy: The Critical Role of a Double-Layer Interface. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1204-1216.	8.0	52
52	Efficient Flame Detection and Early Warning Sensors on Combustible Materials Using Hierarchical Graphene Oxide/Silicone Coatings. <i>ACS Nano</i> , 2018, 12, 416-424.	15.3	296
53	Rational Assembly of Hollow Microporous Carbon Spheres as P Hosts for Long-Life Sodium-Ion Batteries. <i>Advanced Energy Materials</i> , 2018, 8, .	22.5	97
54	Epoxy nanocomposites simultaneously strengthened and toughened by hybridization with graphene oxide and block ionomer. <i>Composites Science and Technology</i> , 2018, 168, 363-370.	8.7	121

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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.	8.0	37
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.	8.7	50
57	Facile fabrication of large 3D graphene filler modified epoxy composites with improved thermal conduction and tribological performance. Carbon, 2018, 139, 1168-1177.	10.7	94
58	Graphene/Boron Nitride/Polyurethane Microlaminates for Exceptional Dielectric Properties and High Energy Densities. ACS Applied Materials & Interfaces, 2018, 10, 26641-26652.	8.0	89
59	Preparation of poly(μ -caprolactone) microspheres and fibers with controllable surface morphology. Materials and Design, 2017, 117, 298-304.	6.9	37
60	J-integral for spallation of protective layer subjected to metal dusting corrosion. Materials and Design, 2017, 119, 263-269.	6.9	1
61	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.	9.3	183
62	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.	3.4	24
63	Improvement of interlaminar fracture toughness in carbon fiber/epoxy composites with carbon nanotubes/polysulfone interleaves. Composites Science and Technology, 2017, 140, 8-15.	8.7	199
64	Delamination toughening of carbon fiber/epoxy laminates by hierarchical carbon nanotube-short carbon fiber interleaves. Composites Science and Technology, 2017, 140, 46-53.	8.7	143
65	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.	8.7	167
66	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.	8.7	47
67	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.	8.1	190
68	A promising nanohybrid of silicon carbide nanowires scrolled by graphene oxide sheets with a synergistic effect for poly(propylene carbonate) nanocomposites. Journal of Materials Chemistry A, 2017, 5, 22361-22371.	9.3	34
69	Super-hydrophobic coatings based on non-solvent induced phase separation during electro-spraying. Journal of Colloid and Interface Science, 2017, 506, 603-612.	9.9	68
70	Magnetic, electrically conductive and lightweight graphene/iron pentacarbonyl porous films enhanced with chitosan for highly efficient broadband electromagnetic interference shielding. Composites Science and Technology, 2017, 151, 71-78.	8.7	68
71	Improvement of atomic oxygen erosion resistance of carbon fiber and carbon fiber/epoxy composite interface with a silane coupling agent. Materials and Design, 2016, 109, 171-178.	6.9	77
72	Facile One Pot Polycondensation Method to Synthesize the Crosslinked Polyethylene glycol-Based Copolymer Electrolytes. Macromolecular Chemistry and Physics, 2016, 217, 1607-1613.	2.4	11

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73	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.	3.9	36
74	In situ reduction of iron oxide with graphene for convenient synthesis of various graphene hybrids. <i>Carbon</i> , 2016, 107, 138-145.	10.7	16
75	Effect of non-covalent functionalisation on thermal and mechanical properties of graphene-polymer nanocomposites. <i>Carbon</i> , 2016, 102, 311-318.	10.7	136
76	Temperature effect on nano-rubber toughening in epoxy and epoxy/carbon fiber laminated composites. <i>Composites Part B: Engineering</i> , 2016, 95, 423-432.	12.8	63
77	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.	8.7	110
78	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.	4.4	41
79	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.	8.7	96
80	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.	10.7	100
81	Hollow Nanotubes of N-Doped Carbon on CoS. <i>Angewandte Chemie</i> , 2016, 128, 16063-16066.	1.4	18
82	Hollow Nanotubes of N-Doped Carbon on CoS. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 15831-15834.	14.4	147
83	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.	8.7	127
84	Interfacial thermal conductance in multilayer graphene/phosphorene heterostructure. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 465301.	2.9	22
85	Electrospun carbon-based nanostructured electrodes for advanced energy storage – A review. <i>Energy Storage Materials</i> , 2016, 5, 58-92.	18.1	211
86	Effects of strain rate on mechanical properties of nanosilica/epoxy. <i>Composites Part B: Engineering</i> , 2016, 96, 119-124.	12.8	52
87	Silane bonded graphene aerogels with tunable functionality and reversible compressibility. <i>Carbon</i> , 2016, 107, 573-582.	10.7	91
88	Inserting Sn Nanoparticles into the Pores of TiO ₂ @C Nanofibers by Lithiation. <i>Advanced Functional Materials</i> , 2016, 26, 376-383.	17.0	53
89	On adhesive properties of nano-silica/epoxy bonded single-lap joints. <i>Materials and Design</i> , 2016, 95, 212-218.	6.9	118
90	Ultrafast Synthesis of Multifunctional N-Doped Graphene Foam in an Ethanol Flame. <i>ACS Nano</i> , 2016, 10, 453-462.	15.3	128

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91	Effect of a High Density of Stacking Faults on the Young's Modulus of GaAs Nanowires. Nano Letters, 2016, 16, 1911-1916.	8.7	71
92	Determination of dynamic elastic modulus of polymeric materials using vertical split Hopkinson pressure bar. International Journal of Mechanical Sciences, 2016, 108-109, 188-196.	8.8	80
93	A simple and controllable graphene-templated approach to synthesise 2D silica-based nanomaterials using water-in-oil microemulsions. Chemical Communications, 2016, 52, 575-578.	3.4	20
94	Biocompatible reduced graphene oxide sheets with superior water dispersibility stabilized by cellulose nanocrystals and their polyethylene oxide composites. Green Chemistry, 2016, 18, 1674-1683.	9.1	71
95	Effects of loading misalignment and tapering angle on the measured mechanical properties of nanowires. Nanotechnology, 2015, 26, 435704.	2.6	6
96	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.	8.7	127
97	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.	5.0	72
98	Determination of Young's Modulus of Ultrathin Nanomaterials. Nano Letters, 2015, 15, 5279-5283.	8.7	50
99	High performance composite polymer electrolytes using polymeric ionic liquid-functionalized graphene molecular brushes. Journal of Materials Chemistry A, 2015, 3, 18064-18073.	9.3	55
100	High quality barium titanate nanofibers for flexible piezoelectric device applications. Sensors and Actuators A: Physical, 2015, 233, 195-201.	4.5	86
101	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.	8.7	122
102	Effect of fiber size on structural and tensile properties of electrospun polyvinylidene fluoride fibers. Polymer Engineering and Science, 2015, 55, 1812-1817.	3.4	39
103	3D network graphene interlayer for excellent interlaminar toughness and strength in fiber reinforced composites. Carbon, 2015, 95, 978-986.	10.7	81
104	Effects of thermal residual stress on interfacial properties of polyphenylene sulphide/carbon fibre (PPS/CF) composite by microbond test. Journal of Materials Science, 2015, 51, 334-343.	3.4	41
105	Deformation-induced phase transformation in 4H-SiC nanopillars. Acta Materialia, 2014, 80, 392-399.	8.7	19
106	High-performance epoxy/silica coated silver nanowire composites as underfill material for electronic packaging. Composites Science and Technology, 2014, 105, 80-85.	8.7	171
107	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.	8.7	55
108	Poly(ethylene glycol) grafted multi-walled carbon nanotubes/LiFePO ₄ composite cathodes for lithium ion batteries. Journal of Power Sources, 2014, 246, 260-268.	7.9	65

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109	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.	24.8	161
110	Sulfur encapsulated in porous hollow CNTs@CNFs for high-performance lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10126-10130.	9.3	103
111	Electrospun barium titanate/cobalt ferrite composite fibers with improved magnetoelectric performance. <i>RSC Advances</i> , 2014, 4, 55217-55223.	4.4	27
112	Interactions between crystalline nanospheres: comparisons between molecular dynamics simulations and continuum models. <i>RSC Advances</i> , 2014, 4, 34500.	4.4	20
113	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.	9.3	73
114	Core/shell TiO ₂ -MnO ₂ /MnO ₂ heterostructure anodes for high-performance lithium-ion batteries. <i>RSC Advances</i> , 2014, 4, 39906.	4.4	33
115	Temperature and strain-rate dependent fracture strength of graphynes. <i>Journal Physics D: Applied Physics</i> , 2014, 47, 425301.	2.9	62
116	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.	15.0	139
117	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.	30.8	140
118	Tensile and tearing fracture properties of graphene oxide papers intercalated with carbon nanotubes. <i>Carbon</i> , 2014, 77, 481-491.	10.7	40
119	Exceptional Electrical Conductivity and Fracture Resistance of 3D Interconnected Graphene Foam/Epoxy Composites. <i>ACS Nano</i> , 2014, 8, 5774-5783.	15.3	330
120	Structure-mediated thermal transport of monolayer graphene allotropes nanoribbons. <i>Carbon</i> , 2014, 77, 416-423.	10.7	40
121	On the Adhesion performance of a single electrospun fiber. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 118, 51-56.	2.5	16
122	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.	8.7	80
123	Strengthening Brittle Semiconductor Nanowires through Stacking Faults: Insights from in Situ Mechanical Testing. <i>Nano Letters</i> , 2013, 13, 4369-4373.	8.7	48
124	Hollow Carbon-Nanotube/Carbon-Nanofiber Hybrid Anodes for Li-Ion Batteries. <i>Journal of the American Chemical Society</i> , 2013, 135, 16280-16283.	15.0	445
125	Toughening Epoxy Thermosets with Block Ionomers: The Role of Phase Domain Size. <i>Macromolecules</i> , 2013, 46, 8190-8202.	5.0	70
126	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.	4.4	37

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127	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.	3.4	58
128	Anelastic Behavior in GaAs Semiconductor Nanowires. <i>Nano Letters</i> , 2013, 13, 3169-3172.	8.7	42
129	Facile chemical synthesis of nitrogen-doped graphene sheets and their electrochemical capacitance. <i>Journal of Power Sources</i> , 2013, 241, 460-466.	7.9	71
130	Phase behavior and nanomechanical mapping of block ionomer complexes. <i>Soft Matter</i> , 2013, 9, 2662.	2.6	11
131	Recent developments in the fire retardancy of polymeric materials. <i>Progress in Polymer Science</i> , 2013, 38, 1357-1387.	25.1	637
132	Size, Dimensionality, and Constituent Stoichiometry Dependence of Physicochemical Properties in Nanosized Binary Alloys. <i>Journal of Physical Chemistry C</i> , 2013, 117, 2421-2426.	3.1	22
133	Molecular Mobility and Mechanical Properties of Novel Clay/Waterborne Polyurethane Nanocomposites. <i>Advanced Science Letters</i> , 2013, 19, 524-528.	0.1	0
134	Incorporation of liquid-like multiwalled carbon nanotubes into an epoxy matrix by solvent-free processing. <i>Nanotechnology</i> , 2012, 23, 225701.	2.6	25
135	Fabrication of Highly-Aligned, Conductive, and Strong Graphene Papers Using Ultralarge Graphene Oxide Sheets. <i>ACS Nano</i> , 2012, 6, 10708-10719.	15.3	382
136	A new route to nanostructured thermosets with block ionomer complexes. <i>Soft Matter</i> , 2012, 8, 688-698.	2.6	35
137	Toughening Epoxy Thermosets with Block Ionomer Complexes: A Nanostructureâ€œMechanical Property Correlation. <i>Macromolecules</i> , 2012, 45, 3829-3840.	5.0	112
138	Exceptional electrochemical performance of freestanding electrospun carbon nanofiber anodes containing ultrafine SnOx particles. <i>Energy and Environmental Science</i> , 2012, 5, 9895.	30.8	175
139	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.	5.0	93
140	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.	7.3	30
141	Reinforcement of Polyether Polyurethane with Dopamine-Modified Clay: The Role of Interfacial Hydrogen Bonding. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4571-4578.	8.0	151
142	Non-covalently modified graphene sheets by imidazolium ionic liquids for multifunctional polymer nanocomposites. <i>Journal of Materials Chemistry</i> , 2012, 22, 5666.	7.3	164
143	Cyclic fatigue crack propagation of nanoparticle modified epoxy. <i>Composites Science and Technology</i> , 2012, 72, 1530-1538.	8.7	66
144	Structural dependence of piezoelectric, dielectric and ferroelectric properties of K0.5Na0.5(Nb1âˆ”2/5Cu)O3 lead-free ceramics with high Q. <i>Materials Research Bulletin</i> , 2012, 47, 4472-4477.	5.3	45

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145	Urchin-like Li ₄ Ti ₅ O ₁₂ @carbon nanofiber composites for high rate performance anodes in Li-ion batteries. <i>Journal of Materials Chemistry</i> , 2012, 22, 12133.	7.3	136
146	Triple-coaxial electrospun amorphous carbon nanotubes with hollow graphitic carbon nanospheres for high-performance Li ion batteries. <i>Energy and Environmental Science</i> , 2012, 5, 7898.	30.8	200
147	Improved Tensile Strength and Ferroelectric Phase Content of Self-Assembled Polyvinylidene Fluoride Fiber Yarns. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 209-213.	4.1	44
148	Self-assembly of silver-graphene hybrid on electrospun polyurethane nanofibers as flexible transparent conductive thin films. <i>Carbon</i> , 2012, 50, 3473-3481.	10.7	55
149	The effective properties and local aggregation effect of CNT/SMP composites. <i>Composites Part B: Engineering</i> , 2012, 43, 33-38.	12.8	111
150	Creep behaviour of injection moulded polyamide 6/organoclay nanocomposites by nanoindentation and cantilever-bending. <i>Composites Part B: Engineering</i> , 2012, 43, 83-89.	12.8	25
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