

# Yuan-Qing Li

## List of Publications by Year in descending order

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125  
papers

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citations

57631

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125  
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125  
docs citations

125  
times ranked

9657  
citing authors

#	ARTICLE	IF	CITATIONS
1	Some basic aspects of polymer nanocomposites: A critical review. <i>Nano Materials Science</i> , 2019, 1, 2-30.	3.9	499
2	Enhanced Microwave Absorption Performance of Coated Carbon Nanotubes by Optimizing the Fe <sub>3</sub> O <sub>4</sub> Nanocoating Structure. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 2973-2983.	4.0	441
3	Bio-Inspired Nacre-Like Composite Films Based on Graphene with Superior Mechanical, Electrical, and Biocompatible Properties. <i>Advanced Materials</i> , 2012, 24, 3426-3431.	11.1	389
4	Carbon Aerogel from Winter Melon for Highly Efficient and Recyclable Oils and Organic Solvents Absorption. <i>ACS Sustainable Chemistry and Engineering</i> , 2014, 2, 1492-1497.	3.2	296
5	Preparation and characterization of transparent ZnO/epoxy nanocomposites with high-UV shielding efficiency. <i>Polymer</i> , 2006, 47, 2127-2132.	1.8	255
6	Growth of Metal-Metal Oxide Nanostructures on Freestanding Graphene Paper for Flexible Biosensors. <i>Advanced Functional Materials</i> , 2012, 22, 2487-2494.	7.8	246
7	From biomass to high performance solar-thermal and electric-thermal energy conversion and storage materials. <i>Journal of Materials Chemistry A</i> , 2014, 2, 7759-7765.	5.2	213
8	Graphene Foam Developed with a Novel Two-Step Technique for Low and High Strains and Pressure Sensing Applications. <i>Small</i> , 2015, 11, 2380-2385.	5.2	206
9	Highly Flexible Strain Sensor from Tissue Paper for Wearable Electronics. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 4288-4295.	3.2	204
10	Synergistic effect of hybrid carbon nanotube-graphene oxide as a nanofiller in enhancing the mechanical properties of PVA composites. <i>Journal of Materials Chemistry</i> , 2011, 21, 10844.	6.7	191
11	Multifunctional Wearable Device Based on Flexible and Conductive Carbon Sponge/Polydimethylsiloxane Composite. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 33189-33196.	4.0	179
12	Novel Graphene Foam Composite with Adjustable Sensitivity for Sensor Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 9195-9202.	4.0	177
13	Lightweight and Highly Conductive Aerogel-like Carbon from Sugarcane with Superior Mechanical and EMI Shielding Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1419-1427.	3.2	160
14	From cotton to wearable pressure sensor. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2181-2187.	5.2	159
15	A wearable strain sensor based on a carbonized nano-sponge/silicone composite for human motion detection. <i>Nanoscale</i> , 2017, 9, 6680-6685.	2.8	151
16	Growth of coral-like PtAu-MnO <sub>2</sub> binary nanocomposites on free-standing graphene paper for flexible nonenzymatic glucose sensors. <i>Biosensors and Bioelectronics</i> , 2013, 41, 417-423.	5.3	142
17	Layer-structured silver nanowire/polyaniline composite film as a high performance X-band EMI shielding material. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4193-4203.	2.7	138
18	Facile Synthesis of Highly Transparent Polymer Nanocomposites by Introduction of Core-Shell Structured Nanoparticles. <i>Chemistry of Materials</i> , 2008, 20, 2637-2643.	3.2	117

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19	Novel Silica Tube/Polyimide Composite Films with Variable Low Dielectric Constant. <i>Advanced Materials</i> , 2005, 17, 1056-1059.	11.1	115
20	Transparent and Light-Emitting Epoxy Nanocomposites Containing ZnO Quantum Dots as Encapsulating Materials for Solid State Lighting. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10553-10558.	1.5	107
21	Controlled Synthesis and Characterization of CuO Nanostructures through a Facile Hydrothermal Route in the Presence of Sodium Citrate. <i>European Journal of Inorganic Chemistry</i> , 2007, 2007, 1966-1971.	1.0	105
22	Flexible wire-shaped strain sensor from cotton thread for human health and motion detection. <i>Scientific Reports</i> , 2017, 7, 45013.	1.6	103
23	Synthesis and characterization of NiTiO <sub>3</sub> yellow nano pigment with high solar radiation reflection efficiency. <i>Powder Technology</i> , 2013, 235, 303-306.	2.1	89
24	The effect of the ultrasonication pre-treatment of graphene oxide (GO) on the mechanical properties of GO/polyvinyl alcohol composites. <i>Carbon</i> , 2013, 55, 321-327.	5.4	89
25	Highly Compressible and Sensitive Pressure Sensor under Large Strain Based on 3D Porous Reduced Graphene Oxide Fiber Fabrics in Wide Compression Strains. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 37051-37059.	4.0	74
26	Tensile and flexural properties of graphene oxide coated-short glass fiber reinforced polyethersulfone composites. <i>Composites Part B: Engineering</i> , 2016, 99, 407-415.	5.9	72
27	Graphene based architectures for electrochemical capacitors. <i>Energy Storage Materials</i> , 2016, 5, 8-32.	9.5	71
28	Investigation on the interfacial mechanical properties of hybrid graphene-carbon nanotube/polymer nanocomposites. <i>Carbon</i> , 2017, 115, 694-700.	5.4	68
29	High-Performance Structural Flexible Strain Sensors Based on Graphene-Coated Glass Fabric/Silicone Composite. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 35503-35509.	4.0	68
30	The effect of graphene oxide (GO) nanoparticles on the processing of epoxy/glass fiber composites using resin infusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 2183-2192.	1.5	66
31	Positive synergistic effect of graphene oxide/carbon nanotube hybrid coating on glass fiber/epoxy interfacial normal bond strength. <i>Composites Science and Technology</i> , 2017, 149, 294-304.	3.8	66
32	Photo-stabilization properties of transparent inorganic UV-filter/epoxy nanocomposites. <i>Composites Science and Technology</i> , 2007, 67, 3465-3471.	3.8	64
33	High-Performance Bamboo Steel Derived from Natural Bamboo. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 1431-1440.	4.0	63
34	Graphene film for thermal management: A review. <i>Nano Materials Science</i> , 2021, 3, 1-16.	3.9	59
35	From sewing thread to sensor: Nylon® fiber strain and pressure sensors. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 1083-1090.	4.0	58
36	Polyacrylamide Hydrogel Composite E-skin Fully Mimicking Human Skin. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 32084-32093.	4.0	56

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37	Highly Solar Radiation Reflective Cr <sub>2</sub> O <sub>3</sub> •3TiO <sub>2</sub> Orange Nanopigment Prepared by a Polymer-Pyrolysis Method. ACS Sustainable Chemistry and Engineering, 2014, 2, 318-321.	3.2	55
38	Carbonized polydopamine nanoparticle reinforced graphene films with superior thermal conductivity. Carbon, 2019, 149, 173-180.	5.4	55
39	Synergistic toughening of epoxy with carbon nanotubes and graphene oxide for improved long-term performance. RSC Advances, 2013, 3, 8849.	1.7	53
40	Tensile creep behavior of short-carbon-fiber reinforced polyetherimide composites. Composites Part B: Engineering, 2021, 212, 108717.	5.9	53
41	Facile synthesis of antimony-doped tin oxide nanoparticles by a polymer-pyrolysis method. Materials Research Bulletin, 2010, 45, 677-681.	2.7	51
42	Improvements in transmittance, mechanical properties and thermal stability of silica•polyimide composite films by a novel sol-gel route. Composites Science and Technology, 2007, 67, 2408-2416.	3.8	50
43	Dielectric Properties of Polyimide-Mica Hybrid Films. Macromolecular Rapid Communications, 2005, 26, 1473-1477.	2.0	47
44	A biomimetic multifunctional electronic hair sensor. Journal of Materials Chemistry A, 2019, 7, 1889-1896.	5.2	47
45	Highly stretchable CNT Fiber/PAAm hydrogel composite simultaneously serving as strain sensor and supercapacitor. Composites Part B: Engineering, 2020, 198, 108246.	5.9	47
46	Transparent and Light-Emitting Epoxy Super-Nanocomposites Containing ZnO-QDs/SiO <sub>2</sub> Nanocomposite Particles as Encapsulating Materials for Solid-State Lighting. Journal of Physical Chemistry C, 2008, 112, 18616-18622.	1.5	46
47	Non-destroyable graphene cladding on a range of textile and other fibers and fiber mats. RSC Advances, 2014, 4, 16935-16938.	1.7	46
48	Highly Electrically Conductive Nanocomposites Based on Polymer-Infused Graphene Sponges. Scientific Reports, 2014, 4, 4652.	1.6	45
49	Mechanical and tribological properties of short glass fiber and short carbon fiber reinforced polyethersulfone composites: A comparative study. Composites Communications, 2018, 8, 1-6.	3.3	45
50	Epoxy nanocomposites significantly toughened by both poly(sulfone) and graphene oxide. Composites Communications, 2019, 14, 55-60.	3.3	41
51	Significant Enhancements in the Fluorescence and Phosphorescence of ZnO Quantum Dots/SiO <sub>2</sub> Nanocomposites by Calcination. Journal of Physical Chemistry C, 2008, 112, 17397-17401.	1.5	40
52	High residual mechanical properties at elevated temperatures of carbon fiber/acetylene-functional benzoxazine composite. Composites Part A: Applied Science and Manufacturing, 2018, 112, 11-17.	3.8	40
53	Comprehensive evaluation of the piezoresistive behavior of carbon nanotube-based composite strain sensors. Composites Science and Technology, 2021, 208, 108761.	3.8	40
54	Enhanced mechanical properties at 400•°C of carbon fabric reinforced phthalonitrile composites by high temperature postcure. Composites Part B: Engineering, 2019, 166, 681-687.	5.9	39

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55	Spider-Inspired Ultrasensitive Flexible Vibration Sensor for Multifunctional Sensing. ACS Applied Materials & Interfaces, 2020, 12, 30871-30881.	4.0	39
56	Flexible pressure sensor with a tunable pressure-detecting range for various human motions. Carbon, 2021, 173, 736-743.	5.4	39
57	Multifunctional Polyurethane Composite Foam with Outstanding Anti-impact Capacity for Soft Body Armors. ACS Applied Materials & Interfaces, 2022, 14, 13778-13789.	4.0	39
58	Effectively enhanced mechanical properties of injection molded short carbon fiber reinforced polyethersulfone composites by phenol-formaldehyde resin sizing. Composites Part B: Engineering, 2018, 139, 216-226.	5.9	38
59	Mechanical, tribological and thermal properties of injection molded short carbon fiber/expanded graphite/polyetherimide composites. Composites Science and Technology, 2021, 201, 108498.	3.8	38
60	Super soft but strong E-Skin based on carbon fiber/carbon black/silicone composite: Truly mimicking tactile sensing and mechanical behavior of human skin. Composites Science and Technology, 2020, 186, 107910.	3.8	35
61	Multiscale modeling of mechanical behaviors of carbon fiber reinforced epoxy composites subjected to hygrothermal aging. Composite Structures, 2021, 256, 113098.	3.1	34
62	Bio-inspired highly flexible dual-mode electronic cilia. Journal of Materials Chemistry B, 2018, 6, 896-902.	2.9	32
63	A new analytical model for predicting the electrical conductivity of carbon nanotube nanocomposites. Composites Communications, 2021, 23, 100577.	3.3	32
64	Bioinspired Flexible and Highly Responsive Dual-Mode Strain/Magnetism Composite Sensor. ACS Applied Materials & Interfaces, 2018, 10, 11197-11203.	4.0	31
65	On the Evaluation of the Sensitivity Coefficient of Strain Sensors. Advanced Electronic Materials, 2018, 4, 1800353.	2.6	31
66	Bioinspired Color-Changeable Organogel Tactile Sensor with Excellent Overall Performance. ACS Applied Materials & Interfaces, 2020, 12, 49866-49875.	4.0	31
67	Graphene/Graphitized Polydopamine/Carbon Nanotube All-Carbon Ternary Composite Films with Improved Mechanical Properties and Through-Plane Thermal Conductivity. ACS Applied Materials & Interfaces, 2020, 12, 57391-57400.	4.0	31
68	Synthesis of nanoporous graphene oxide adsorbents by freeze-drying or microwave radiation: Characterization and hydrogen storage properties. International Journal of Hydrogen Energy, 2015, 40, 6844-6852.	3.8	30
69	Multiresponsive Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene-Based Actuators Enabled by Dual-Mechanism Synergism for Soft Robotics. ACS Applied Materials & Interfaces, 2022, 14, 21474-21485.	4.0	30
70	High overall performance transparent bamboo composite via a lignin-modification strategy. Composites Part B: Engineering, 2022, 235, 109798.	5.9	29
71	Preparation and electrical properties of Ga-doped ZnO nanoparticles by a polymer pyrolysis method. Materials Letters, 2010, 64, 1735-1737.	1.3	28
72	Preparation and characterization of transparent Al doped ZnO/epoxy composite as thermal-insulating coating. Composites Part B: Engineering, 2011, 42, 2176-2180.	5.9	28

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73	Direct ink writing of a graphene/CNT/silicone composite strain sensor with a near-zero temperature coefficient of resistance. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8226-8233.	2.7	28
74	Short carbon fiber reinforced epoxy-ionic liquid electrolyte enabled structural battery via vacuum bagging process. <i>Advanced Composites and Hybrid Materials</i> , 2022, 5, 1799-1811.	9.9	27
75	Preparation and mechanical properties of novel polyimide/T-silica hybrid films. <i>Composites Science and Technology</i> , 2007, 67, 54-60.	3.8	26
76	Fabrication and characterization of transparent ZnO@SiO <sub>2</sub> /silicone nanocomposites with tunable emission colors. <i>Composites Part B: Engineering</i> , 2011, 42, 2105-2110.	5.9	26
77	Fabrication and characterization of recyclable carbon nanotube/polyvinyl butyral composite fiber. <i>Composites Science and Technology</i> , 2011, 71, 1665-1670.	3.8	26
78	Polyimide-Surface-Modified Silica Tubes: Preparation and Cryogenic Properties. <i>Chemistry of Materials</i> , 2007, 19, 1939-1945.	3.2	25
79	Investigation of thermal expansion of PI/SiO <sub>2</sub> composite films by CCD imaging technique from ~120 to 200°C. <i>Composites Science and Technology</i> , 2007, 67, 3006-3013.	3.8	25
80	Recognition of carbon nanotube chirality by phage display. <i>RSC Advances</i> , 2012, 2, 1466-1476.	1.7	25
81	Ultratough reduced graphene oxide composite films synergistically toughened and reinforced by polydopamine wrapped carbon nanotubes. <i>Carbon</i> , 2020, 159, 422-431.	5.4	25
82	Stretchable and ultrasensitive strain sensor from carbon nanotube-based composite with significantly enhanced electrical and sensing properties by tailoring segregated conductive networks. <i>Composites Communications</i> , 2022, 29, 100987.	3.3	24
83	Nanoporous spongy graphene: Potential applications for hydrogen adsorption and selective gas separation. <i>Thin Solid Films</i> , 2015, 596, 242-249.	0.8	23
84	Significantly enhanced electrical conductivity of silver nanowire/polyurethane composites via graphene oxide as novel dispersant. <i>Composites Science and Technology</i> , 2016, 132, 57-67.	3.8	23
85	Novel Kevlar fabric composite for multifunctional soft body armor. <i>Composites Part B: Engineering</i> , 2022, 242, 110106.	5.9	23
86	Electrical anisotropy and multidimensional pressure sensor of aligned Fe <sub>3</sub> O <sub>4</sub> @silver nanowire/polyaniline composite films under an extremely low magnetic field. <i>RSC Advances</i> , 2017, 7, 4260-4268.	1.7	22
87	One-Step Synthesis of Microdome Patterns for Microstructured Pressure Sensors with Ultra-High Sensing Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 48009-48019.	4.0	22
88	Effects of 3-aminophenylacetylene on mechanical properties at elevated temperatures of carbon fiber/phthalonitrile composites. <i>Composites Communications</i> , 2020, 18, 55-61.	3.3	21
89	Largely enhanced electrical conductivity of layer-structured silver nanowire/polyimide composite films by polyaniline. <i>Composites Science and Technology</i> , 2018, 156, 144-150.	3.8	20
90	Improved bond strength, reduced porosity and enhanced mechanical properties of 3D-printed polyetherimide composites by carbon nanotubes. <i>Composites Communications</i> , 2022, 30, 101083.	3.3	20

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91	Ti <sub>3</sub> C <sub>2</sub> MXene/Bamboo Fiber/PDMS Pressure Sensor with Simultaneous Ultrawide Linear Sensing Range, Superb Environmental Stability, and Excellent Biocompatibility. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 3546-3556.	3.2	20
92	Transparent ATO/epoxy nanocomposite coating with excellent thermal insulation property. <i>Micro and Nano Letters</i> , 2012, 7, 12.	0.6	19
93	Phosphorus and bromine modified epoxy resin with enhanced cryogenic mechanical properties and liquid oxygen compatibility simultaneously. <i>Polymer Testing</i> , 2021, 94, 107051.	2.3	19
94	High-Strength Poly(ethylene oxide) Composite Electrolyte Reinforced with Glass Fiber and Ceramic Electrolyte Simultaneously for Structural Energy Storage. <i>ACS Applied Energy Materials</i> , 2021, 4, 4038-4049.	2.5	19
95	Experimental and multiscale modeling investigations of cryo-thermal cycling effects on the mechanical behaviors of carbon fiber reinforced epoxy composites. <i>Composites Part B: Engineering</i> , 2022, 230, 109534.	5.9	19
96	Effects of carbon nanotube-polydopamine hybridization on the mechanical properties of short carbon fiber/polyetherimide composites. <i>Composites Part B: Engineering</i> , 2022, 236, 109848.	5.9	19
97	Experimental and simulation investigations of the effect of hybrid GO-thermoplastic polyimide sizing on the temperature-dependent tensile behavior of short carbon fiber/polyetherimide composites. <i>Composites Science and Technology</i> , 2022, 218, 109166.	3.8	18
98	Temperature-dependent mechanical properties of polyetherimide composites reinforced by graphene oxide-coated short carbon fibers. <i>Composite Structures</i> , 2021, 270, 114075.	3.1	17
99	Tribological behavior of short carbon fiber reinforced polyetherimide composite under water lubrication conditions. <i>Composites Science and Technology</i> , 2021, 216, 109044.	3.8	16
100	Greatly decreased redshift and largely enhanced refractive index of mono-dispersed ZnO-QD/silicone nanocomposites. <i>Journal of Materials Chemistry C</i> , 2016, 4, 8663-8669.	2.7	15
101	Synergistic effects of short glass fiber/short carbon fiber hybrids on the mechanical properties of polyethersulfone composites. <i>Polymer Composites</i> , 2019, 40, E1725.	2.3	15
102	Flexible but robust Ti <sub>3</sub> C <sub>2</sub> MXene/bamboo microfibril composite paper for high-performance wearable electronics. <i>Journal of Materials Chemistry A</i> , 2021, 9, 26758-26766.	5.2	15
103	Fabrication of transparent and conductive carbon nanotube/polyvinyl butyral films by a facile solution surface dip coating method. <i>Nanoscale</i> , 2011, 3, 2469.	2.8	14
104	Mesoporous nitrogen-doped graphene aerogels with enhanced rate capability towards high performance supercapacitors. <i>Ceramics International</i> , 2017, 43, 11563-11568.	2.3	14
105	Dual-Mode Carbon Aerogel/Iron Rubber Sensor. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 8674-8680.	4.0	14
106	Modeling the synergistic electrical percolation effect of carbon nanotube/graphene/polymer composites. <i>Composites Science and Technology</i> , 2022, 225, 109496.	3.8	14
107	High performance surface-modified TiO <sub>2</sub> /silicone nanocomposite. <i>Scientific Reports</i> , 2017, 7, 5951.	1.6	13
108	Superstrong, Lightweight, and Exceptional Environmentally Stable SiO <sub>2</sub> @GO/Bamboo Composites. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 7311-7320.	4.0	13

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109	Preparation and characterization of a novel solid titania precursor. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 3339-3342.	1.5	12
110	High-Performance Fiber-Film Hybrid-Structured Wearable Strain Sensor from a Highly Robust and Conductive Carbonized Bamboo Aerogel. <i>ACS Applied Bio Materials</i> , 2020, 3, 8748-8756.	2.3	12
111	Experimental characterization and molecular dynamics simulation of thermal stability, mechanical properties and liquid oxygen compatibility of multiple epoxy systems for cryotank applications. <i>Extreme Mechanics Letters</i> , 2021, 44, 101227.	2.0	12
112	A flexible carbonized melamine foam/silicone/epoxy composite pressure sensor with temperature and voltage-adjusted piezoresistivity for ultrawide pressure detection. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9114-9120.	5.2	11
113	Experimental and numerical investigations of wear behaviors of short-carbon-fiber reinforced polyetherimide composite. <i>Composite Structures</i> , 2021, 270, 114057.	3.1	10
114	A comparative study of antioxidant-loaded carbon nanoparticles as drug delivery vehicles. <i>RSC Advances</i> , 2014, 4, 56992-56997.	1.7	9
115	Fabrication of bagel-like graphene aerogels and its application in pressure sensors. <i>Smart Materials and Structures</i> , 2019, 28, 055020.	1.8	8
116	1-Pyrenemethanol derived nanocrystal reinforced graphene films with high thermal conductivity and flexibility. <i>Nanotechnology</i> , 2020, 31, 065602.	1.3	8
117	Architectural design of flexible anisotropic piezoresistive composite for multiple-loading recognition. <i>Composites Part B: Engineering</i> , 2020, 182, 107631.	5.9	8
118	Giant piezoresistive gauge factor in vein-membrane/graphene sensors with a wide linear working range. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16957-16966.	2.7	8
119	Lithium metal structural battery developed with vacuum bagging. <i>Journal of Materials Chemistry C</i> , 2022, 10, 1887-1895.	2.7	7
120	Heterogeneous carbon/silicone composite for ultrasensitive anisotropic strain sensor with loading-direction-perception capability. <i>Composites Science and Technology</i> , 2022, 227, 109565.	3.8	7
121	Flexible and electrically robust graphene-based nanocomposite paper with hierarchical microstructures for multifunctional wearable devices. <i>Nano Materials Science</i> , 2023, 5, 319-328.	3.9	4
122	A Novel Graphene Foam for Low and High Strains and Pressure Sensing Applications. <i>MRS Advances</i> , 2016, 1, 27-32.	0.5	2
123	Fabrication of all-in-one multifunctional phage liquid crystalline fibers. <i>RSC Advances</i> , 2013, 3, 20437.	1.7	1
124	Voltage and Photo Driven Energy Storage in Graphene Based Phase Change Composite Material. <i>Springer Proceedings in Energy</i> , 2014, , 633-642.	0.2	1
125	Synergistic effect of carbon nanotube and graphene on multifunctional properties of their polymer composites. , 2015, , 527-548.		0