

List of Publications by Year in
Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

106 papers	4,925 citations	41 h-index	67 g-index
112 ext. papers	6,375 ext. citations	10.1 avg, IF	6.34 L-index

#	Paper	IF	Citations
106	Highly thermally conductive polymer composite enhanced by two-level adjustable boron nitride network with leaf venation structure. <i>Composites Science and Technology</i> , 2022 , 222, 109406	8.6	4
105	Metallic-Ion Controlled Dynamic Bonds to Co-Harvest Isomerization Energy and Bond Enthalpy for High-Energy Output of Flexible Self-Heated Textile.. <i>Advanced Science</i> , 2022 , e2201657	13.6	0
104	Broadband self-powered photoelectrochemical photodetector based on Te/Se heterostructure nanocomposites. <i>Composites Communications</i> , 2022 , 32, 101175	6.7	1
103	Three-dimensional boron nitride network/polyvinyl alcohol composite hydrogel with solid-liquid interpenetrating heat conduction network for thermal management. <i>Journal of Materials Science and Technology</i> , 2022 , 127, 183-191	9.1	0
102	Visible Light-Driven Alkyne-Grafted Ethylene-Bridged Azobenzene Chromophores for Photothermal Utilization. <i>Molecules</i> , 2022 , 27, 3296	4.8	0
101	Improved thermal conductivities of vertically aligned carbon nanotube arrays using three-dimensional carbon nanotube networks. <i>Carbon</i> , 2022 , 196, 902-912	10.4	2
100	4D-printed untethered self-propelling soft robot with tactile perception: Rolling, racing, and exploring. <i>Matter</i> , 2021 , 4, 3313-3326	12.7	10
99	Two-dimensional nanomaterials with engineered bandgap: Synthesis, properties, applications. <i>Nano Today</i> , 2021 , 37, 101059	17.9	24
98	Thermally conductive, self-healing, and elastic Polyimide@Vertically aligned carbon nanotubes composite as smart thermal interface material. <i>Carbon</i> , 2021 , 179, 348-357	10.4	34
97	Poly(N-isopropylacrylamide)-based smart hydrogels: Design, properties and applications. <i>Progress in Materials Science</i> , 2021 , 115, 100702	42.2	144
96	Light-driven bimorph soft actuators: design, fabrication, and properties. <i>Materials Horizons</i> , 2021 , 8, 728-757	14.4	37
95	Optically Triggered Synchronous Heat Release of Phase-Change Enthalpy and Photo-Thermal Energy in Phase-Change Materials at Low Temperatures. <i>Advanced Functional Materials</i> , 2021 , 31, 2008496	15.6	28
94	Photothermal storage and controllable release of a phase-change azobenzene/aluminum nitride aerogel composite. <i>Composites Communications</i> , 2021 , 23, 100575	6.7	14
93	Liquid metal-created macroporous composite hydrogels with self-healing ability and multiple sensations as artificial flexible sensors. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 875-883	13	43
92	Single Li ion conducting solid-state polymer electrolytes based on carbon quantum dots for Li-metal batteries. <i>Nano Energy</i> , 2021 , 82, 105698	17.1	22
91	Fluorinated graphene nanoribbons from unzipped single-walled carbon nanotubes for ultrahigh energy density lithium-fluorinated carbon batteries. <i>Science China Materials</i> , 2021 , 64, 1367-1377	7.1	5
90	2D molecular crystal templated organic p/n heterojunctions for high-performance ambipolar organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 5758-5764	7.1	6

89	Room-temperature phosphorescent fluorine-nitrogen co-doped carbon dots: Information encryption and anti-counterfeiting. <i>Carbon</i> , 2021 , 181, 9-15	10.4	20
88	Utilisation of photo-thermal energy and bond enthalpy based on optically triggered formation and dissociation of coordination bonds. <i>Nano Energy</i> , 2021 , 89, 106401	17.1	6
87	Highly efficient modulation of the electronic properties of organic semiconductors by surface doping with 2D molecular crystals. <i>Science China Chemistry</i> , 2020 , 63, 973-979	7.9	3
86	Highly Transparent, Self-Healable, and Adhesive Organogels for Bio-Inspired Intelligent Ionic Skins. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15657-15666	9.5	53
85	Two-dimensional gersiloxenes with tunable bandgap for photocatalytic H evolution and CO photoreduction to CO. <i>Nature Communications</i> , 2020 , 11, 1443	17.4	41
84	Two-Dimensional GeTe: Air Stability and Photocatalytic Performance for Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 37108-37115	9.5	3
83	Few-layer methyl-terminated germanene-graphene nanocomposite with high capacity for stable lithium storage. <i>Carbon</i> , 2020 , 161, 287-298	10.4	15
82	Fluorine and Nitrogen Dual-Doped Porous Carbon Nanosheet-Enabled Compact Electrode Structure for High Volumetric Energy Storage. <i>ACS Applied Energy Materials</i> , 2020 , 3, 4949-4957	6.1	19
81	Three-dimensional interconnected networks for thermally conductive polymer composites: Design, preparation, properties, and mechanisms. <i>Materials Science and Engineering Reports</i> , 2020 , 142, 100580	30.9	90
80	Self-Healing High Strength and Thermal Conductivity of 3D Graphene/PDMS Composites by the Optimization of Multiple Molecular Interactions. <i>Macromolecules</i> , 2020 , 53, 7161-7170	5.5	49
79	Alkyl-grafted azobenzene molecules for photo-induced heat storage and release via integration function of phase change and photoisomerization. <i>Composites Communications</i> , 2020 , 21, 100402	6.7	17
78	Azobenzene-based solar thermal energy storage enhanced by gold nanoparticles for rapid, optically-triggered heat release at room temperature. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 18668-18676	12.76	13
77	Solid-state high-power photo heat output of 4-((3,5-dimethoxyaniline)-diazanyl)-2-imidazole/graphene film for thermally controllable dual data encoding/reading. <i>Energy Storage Materials</i> , 2020 , 24, 662-669	19.4	18
76	Electrolyte-Solvent-Modified Alternating Copolymer as a Single-Ion Solid Polymer Electrolyte for High-Performance Lithium Metal Batteries. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 35683-35692	9.5	31
75	Graphene-based chiral liquid crystal materials for optical applications. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 2146-2171	7.1	41
74	Structural and Dimensional Transformations between Covalent Organic Frameworks via Linker Exchange. <i>Macromolecules</i> , 2019 , 52, 1257-1265	5.5	35
73	Solar Thermal Storage and Room-Temperature Fast Release Using a Uniform Flexible Azobenzene-Grafted Polynorborene Film Enhanced by Stretching. <i>Macromolecules</i> , 2019 , 52, 4222-4231	5.5	20
72	Thermal-assisted self-assembly: a self-adaptive strategy towards large-area uniaxial organic single-crystalline microribbon arrays. <i>Nanoscale</i> , 2019 , 11, 12781-12787	7.7	10

71	Reversible Modification of Nitrogen-Doped Graphene Based on Se-N Dynamic Covalent Bonds for Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24360-24366	9.5	8
70	Composite Networks: Stress Controllability in Thermal and Electrical Conductivity of 3D Elastic Graphene-Crosslinked Carbon Nanotube Sponge/Polyimide Nanocomposite (Adv. Funct. Mater. 25/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970173	15.6	4
69	Nitrogen and fluorine co-doped holey graphene hydrogel as a binder-free electrode material for flexible solid-state supercapacitors. <i>Sustainable Energy and Fuels</i> , 2019 , 3, 2237-2245	5.8	33
68	High cross-plane thermally conductive hierarchical composite using graphene-coated vertically aligned carbon nanotubes/graphite. <i>Carbon</i> , 2019 , 149, 281-289	10.4	52
67	Carbon-based functional nanomaterials: Preparation, properties and applications. <i>Composites Science and Technology</i> , 2019 , 179, 10-40	8.6	130
66	A solid-state single-ion polymer electrolyte with ultrahigh ionic conductivity for dendrite-free lithium metal batteries. <i>Energy Storage Materials</i> , 2019 , 19, 401-407	19.4	71
65	Stress Controllability in Thermal and Electrical Conductivity of 3D Elastic Graphene-Crosslinked Carbon Nanotube Sponge/Polyimide Nanocomposite. <i>Advanced Functional Materials</i> , 2019 , 29, 1901383	15.6	107
64	Frontiers in carbon dots: design, properties and applications. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 2571-2601	17.6	75
63	Efficient cycling utilization of solar-thermal energy for thermochromic displays with controllable heat output. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 97-106	13	56
62	Stress-sensitive thermally conductive elastic nanocomposite based on interconnected graphite-welded carbon nanotube sponges. <i>Carbon</i> , 2019 , 145, 378-388	10.4	34
61	Cobalt, Nitrogen-Doped Porous Carbon Nanosheet-Assembled Flowers from Metal-Coordinated Covalent Organic Polymers for Efficient Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 1384-1393	9.5	36
60	Reduced graphene oxide doped predominantly with CF groups as a superior anode material for long-life lithium-ion batteries. <i>Chemical Communications</i> , 2018 , 54, 2727-2730	5.8	26
59	Highly transparent, strong, and flexible fluorographene/fluorinated polyimide nanocomposite films with low dielectric constant. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 6378-6384	7.1	62
58	Self-Protective Room-Temperature Phosphorescence of Fluorine and Nitrogen Codoped Carbon Dots. <i>Advanced Functional Materials</i> , 2018 , 28, 1800791	15.6	206
57	Controllable and Stable Deformation of a Self-Healing Photo-Responsive Supramolecular Assembly for an Optically Actuated Manipulator Arm. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29909-29917	9.5	33
56	Unidirectional and crystalline organic semiconductor microwire arrays by solvent vapor annealing with PMMA as the assisting layer. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 12479-12483	7.1	10
55	Carbon Dots: Self-Protective Room-Temperature Phosphorescence of Fluorine and Nitrogen Codoped Carbon Dots (Adv. Funct. Mater. 37/2018). <i>Advanced Functional Materials</i> , 2018 , 28, 1870263	15.6	4
54	Azobenzene-based solar thermal fuels: design, properties, and applications. <i>Chemical Society Reviews</i> , 2018 , 47, 7339-7368	58.5	188

53	A low cost ultra-microporous carbon scaffold with confined chain-like sulfur molecules as a superior cathode for lithium-sulfur batteries. <i>Sustainable Energy and Fuels</i> , 2018 , 2, 2187-2196	5.8	12
52	Sonication-assisted liquid-phase exfoliated Bi ₂ GeTe ₃ : a two-dimensional material with high Fe sensitivity. <i>Nanoscale</i> , 2018 , 10, 15989-15997	7.7	30
51	Improving thermal conductivity in the through-thickness direction of carbon fibre/SiC composites by growing vertically aligned carbon nanotubes. <i>Carbon</i> , 2017 , 116, 84-93	10.4	76
50	Surface passivation of carbon dots with ethylene glycol and their high-sensitivity to Fe ³⁺ . <i>RSC Advances</i> , 2017 , 7, 2810-2816	3.7	50
49	Tetracarboxylated Azobenzene/Polymer Supramolecular Assemblies as High-Performance Multiresponsive Actuators. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 4066-4073	9.5	31
48	Copolymers of aniline and 2-aminoterephthalic acid as a novel cathode material for hybrid supercapacitors. <i>RSC Advances</i> , 2017 , 7, 8762-8770	3.7	7
47	Free-standing fluorine and nitrogen co-doped graphene paper as a high-performance electrode for flexible sodium-ion batteries. <i>Carbon</i> , 2017 , 116, 338-346	10.4	100
46	Controlling Heat Release from a Close-Packed Bisazobenzene-Reduced-Graphene-Oxide Assembly Film for High-Energy Solid-State Photothermal Fuels. <i>ChemSusChem</i> , 2017 , 10, 1302-1302	8.3	0
45	Two-dimensional large-scale bandgap-tunable monolayer MoS ₂ (1-x)Se _{2x} /graphene heterostructures for phototransistors. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5887-5896	7.1	24
44	The light-switching conductance of an anisotropic azobenzene-based polymer close-packed on horizontally aligned carbon nanotubes. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5068-5075	7.1	25
43	Room temperature stable helical blue phase enabled by a photo-polymerizable bent-shaped material. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 690-696	7.1	21
42	Controlling Heat Release from a Close-Packed Bisazobenzene-Reduced-Graphene-Oxide Assembly Film for High-Energy Solid-State Photothermal Fuels. <i>ChemSusChem</i> , 2017 , 10, 1395-1404	8.3	41
41	Solid-State Fluorescence of Fluorine-Modified Carbon Nanodots Aggregates Triggered by Poly(ethylene glycol). <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37981-37990	9.5	53
40	A sulfonimide-based alternating copolymer as a single-ion polymer electrolyte for high-performance lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 22519-22526	13	53
39	Toward highly thermally conductive all-carbon composites: Structure control. <i>Carbon</i> , 2016 , 109, 575-597	10.4	99
38	Thermal conducting properties of aligned carbon nanotubes and their polymer composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2016 , 91, 351-369	8.4	84
37	Enhancement of cross-plane thermal conductivity and mechanical strength via vertical aligned carbon nanotube@graphite architecture. <i>Carbon</i> , 2016 , 104, 157-168	10.4	57
36	Hydrothermal preparation of fluorinated graphene hydrogel for high-performance supercapacitors. <i>Journal of Power Sources</i> , 2016 , 312, 146-155	8.9	111

35	Large-Scale Synthesis of a Uniform Film of Bilayer MoS ₂ on Graphene for 2D Heterostructure Phototransistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 19004-11	9.5	49
34	Azobenzene/graphene hybrid for high-density solar thermal storage by optimizing molecular structure. <i>Science China Technological Sciences</i> , 2016 , 59, 1383-1390	3.5	20
33	An energy-dense and thermal-stable bis-azobenzene/hybrid templated assembly for solar thermal fuel. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 8020-8028	13	41
32	Transparent and flexible films of horizontally aligned carbon nanotube/polyimide composites with highly anisotropic mechanical, thermal, and electrical properties. <i>Carbon</i> , 2016 , 109, 131-140	10.4	48
31	Two-Dimensional Fluorinated Graphene: Synthesis, Structures, Properties and Applications. <i>Advanced Science</i> , 2016 , 3, 1500413	13.6	323
30	High-energy, stable and recycled molecular solar thermal storage materials using AZO/graphene hybrids by optimizing hydrogen bonds. <i>Nanoscale</i> , 2015 , 7, 16214-21	7.7	45
29	A supramolecular assembly of cross-linked azobenzene/polymers for a high-performance light-driven actuator. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16453-16460	13	55
28	A high energy density azobenzene/graphene hybrid: a nano-templated platform for solar thermal storage. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 11787-11795	13	74
27	Nitrogen and fluorine co-doped graphene as a high-performance anode material for lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 23095-23105	13	128
26	Hierarchical graphene oxide/polyaniline nanocomposites prepared by interfacial electrochemical polymerization for flexible solid-state supercapacitors. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2135-2143	13	101
25	Three-Dimensional Multilayer Assemblies of MoS ₂ /Reduced Graphene Oxide for High-Performance Lithium Ion Batteries. <i>Particle and Particle Systems Characterization</i> , 2015 , 32, 489-497	3.1	32
24	A layer-nanostructured assembly of PbS quantum dot/multiwalled carbon nanotube for a high-performance photoswitch. <i>Scientific Reports</i> , 2014 , 4, 3777	4.9	36
23	Preparation of sulfonated graphene/polyaniline composites in neutral solution for high-performance supercapacitors. <i>Journal of Solid State Electrochemistry</i> , 2014 , 18, 1127-1135	2.6	18
22	Solvothermally exfoliated fluorographene for high-performance lithium primary batteries. <i>Nanoscale</i> , 2014 , 6, 2634-41	7.7	127
21	Enhanced cross-plane thermal conductivity and high resilience of three-dimensional hierarchical carbon nanocoil/graphite nanocomposites. <i>RSC Advances</i> , 2014 , 4, 10090	3.7	11
20	A three-dimensional nanostructure of graphite intercalated by carbon nanotubes with high cross-plane thermal conductivity and bending strength. <i>Carbon</i> , 2014 , 77, 1054-1064	10.4	58
19	Preparation of C/Ni ₃ NiO composite nanofibers for anode materials in lithium-ion batteries. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 113, 683-692	2.6	19
18	Electropolymerization of graphene oxide/polyaniline composite for high-performance supercapacitor. <i>Electrochimica Acta</i> , 2013 , 90, 95-100	6.7	173

17	Infrared-actuated recovery of polyurethane filled by reduced graphene oxide/carbon nanotube hybrids with high energy density. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 10882-8	9.5	63
16	CoSn/carbon composite nanofibers for applications as anode in lithium-ion batteries. <i>Journal of Nanoparticle Research</i> , 2013 , 15, 1	2.3	9
15	Covalent functionalization of graphene by azobenzene with molecular hydrogen bonds for long-term solar thermal storage. <i>Scientific Reports</i> , 2013 , 3, 3260	4.9	107
14	Carbon nanotubes grown on electrospun polyacrylonitrile-based carbon nanofibers via chemical vapor deposition. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 106, 863-869	2.6	3
13	Photo-responsive carbon nanomaterials functionalized by azobenzene moieties: structures, properties and application. <i>Nanoscale</i> , 2012 , 4, 6118-34	7.7	80
12	Recent progress in the fields of tuning the band gap of quantum dots. <i>Science China Technological Sciences</i> , 2012 , 55, 903-912	3.5	14
11	A mechanically strong, flexible and conductive film based on bacterial cellulose/graphene nanocomposite. <i>Carbohydrate Polymers</i> , 2012 , 87, 644-649	10.3	244
10	Competitive adsorption and dynamics of guest molecules in 2D molecular sieves. <i>Journal of Materials Chemistry</i> , 2011 , 21, 8787		32
9	Solution-processed bulk heterojunction photovoltaic devices based on poly(2-methoxy,5-octoxy)-1,4-phenylenevinylene-multiwalled carbon nanotubes/PbSe quantum dots bilayer. <i>Applied Physics Letters</i> , 2010 , 96, 093301	3.4	7
8	Selective electroless coating of palladium nanoparticles on metallic single-walled carbon nanotube. <i>Applied Physics Letters</i> , 2010 , 97, 083101	3.4	5
7	Progress of synthesizing methods and properties of fluorinated carbon nanotubes. <i>Science China Technological Sciences</i> , 2010 , 53, 1225-1233	3.5	9
6	Recent progresses in application of functionalized graphene sheets. <i>Science China Technological Sciences</i> , 2010 , 53, 2311-2319	3.5	20
5	Organic solar cells using few-walled carbon nanotubes electrode controlled by the balance between sheet resistance and the transparency. <i>Applied Physics Letters</i> , 2009 , 94, 123302	3.4	42
4	Synthesis of photoresponsive azobenzene chromophore-modified multi-walled carbon nanotubes. <i>Carbon</i> , 2007 , 45, 2445-2448	10.4	34
3	Photoinduced anisotropic response of azobenzene chromophore functionalized multiwalled carbon nanotubes. <i>Journal of Applied Physics</i> , 2007 , 102, 053102	2.5	11
2	Soft template-assisted self-assembly: a general strategy toward two-dimensional molecular crystals for high-performance organic field-effect transistors. <i>Journal of Materials Chemistry C</i> ,	7.1	1
1	Cross-linked Single-Ion Solid Polymer Electrolytes with Alternately Distributed Lithium Sources and Ion-Conducting Segments for Lithium Metal Batteries. <i>Macromolecules</i> ,	5.5	9