Yi Huang

List of Publications by Year
in descending order

66 papers	18,574 citations	87888 38 h-index	114465 63 g-index
69 all docs	69 docs citations	69 times ranked	21605 citing authors

#	Article	IF	Citations
1	Supercapacitor Devices Based on Graphene Materials. Journal of Physical Chemistry C, 2009, 113, 13103-13107.	3.1	2,295
2	Broadband and Tunable Highâ€Performance Microwave Absorption of an Ultralight and Highly Compressible Graphene Foam. Advanced Materials, 2015, 27, 2049-2053.	21.0	1,598
3	Molecularâ€Level Dispersion of Graphene into Poly(vinyl alcohol) and Effective Reinforcement of their Nanocomposites. Advanced Functional Materials, 2009, 19, 2297-2302.	14.9	1,481
4	An Overview of the Applications of Grapheneâ€Based Materials in Supercapacitors. Small, 2012, 8, 1805-1834.	10.0	1,210
5	Electromagnetic interference shielding of graphene/epoxy composites. Carbon, 2009, 47, 922-925.	10.3	1,199
6	Superparamagnetic graphene oxideâ€“Fe3O4 nanoparticles hybrid for controlled targeted drug carriers. Journal of Materials Chemistry, 2009, 19, 2710.	6.7	963
7	High-Efficiency Loading and Controlled Release of Doxorubicin Hydrochloride on Graphene Oxide. Journal of Physical Chemistry C, 2008, 112, 17554-17558.	3.1	909
8	A high-performance supercapacitor-battery hybrid energy storage device based on graphene-enhanced electrode materials with ultrahigh energy density. Energy and Environmental Science, 2013, 6, 1623.	30.8	875
9	Room-Temperature Ferromagnetism of Graphene. Nano Letters, 2009, 9, 220-224.	9.1	595
10	The influence of single-walled carbon nanotube structure on the electromagnetic interference shielding efficiency of its epoxy composites. Carbon, 2007, 45, 1614-1621.	10.3	524
11	Multi-functionalized graphene oxide based anticancer drug-carrier with dual-targeting function and pH-sensitivity. Journal of Materials Chemistry, 2011, 21, 3448-3454.	6.7	496
12	Three-dimensionally bonded spongy graphene material with super compressive elasticity and near-zero Poissonâ€™s ratio. Nature Communications, 2015, 6, 6141.	12.8	458
13	Size-controlled synthesis of graphene oxide sheets on a large scale using chemical exfoliation. Carbon, 2009, 47, 3365-3368.	10.3	414
14	Composition and structure control of ultralight graphene foam for high-performance microwave absorption. Carbon, 2016, 105, 438-447.	10.3	400
15	Graphene-based conducting inks for direct inkjet printing of flexible conductive patterns and their applications in electric circuits and chemical sensors. Nano Research, 2011, 4, 675-684.	10.4	397
16	A Highâ€Performance Graphene Oxideâ€Doped Ion Gel as Gel Polymer Electrolyte for Allâ€Solidâ€State Supercapacitor Applications. Advanced Functional Materials, 2013, 23, 3353-3360.	14.9	356
17	Infrared-Triggered Actuators from Graphene-Based Nanocomposites. Journal of Physical Chemistry C, 2009, 113, 9921-9927.	3.1	355
18	Microwave Absorption of Single-Walled Carbon Nanotubes/Soluble Cross-Linked Polyurethane Composites. Journal of Physical Chemistry C, 2007, 111, 13696-13700.	3.1	324

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19	A hybrid material of graphene and poly (3,4-ethyldioxythiophene) with high conductivity, flexibility, and transparency. Nano Research, 2009, 2, 343-348.	10.4	320
20	Synergistically assembled MWCNT/graphene foam with highly efficient microwave absorption in both C and X bands. Carbon, 2017, 124, 506-514.	10.3	297
21	Multichannel and Repeatable Selfâ€Healing of Mechanical Enhanced Grapheneâ€Thermoplastic Polyurethane Composites. Advanced Materials, 2013, 25, 2224-2228.	21.0	280
22	Efficient and large-scale synthesis of few-layered graphene using an arc-discharge method and conductivity studies of the resulting films. Nano Research, 2010, 3, 661-669.	10.4	269
23	Ultraâ€Broadband Wideâ€Angle Terahertz Absorption Properties of 3D Graphene Foam. Advanced Functional Materials, 2018, 28, 1704363.	14.9	223
24	A Review on Metalâ€“Organic Framework-Derived Porous Carbon-Based Novel Microwave Absorption Materials. Nano-Micro Letters, 2021, 13, 56.	27.0	216
25	Grapheneâ€Based Materials toward Microwave and Terahertz Absorbing Stealth Technologies. Advanced Optical Materials, 2019, 7, 1801318.	7.3	208
26	Graphene-based Li-ion hybrid supercapacitors with ultrahigh performance. Nano Research, 2013, 6, 581-592.	10.4	204
27	Macroscopic and direct light propulsion of bulk graphene material. Nature Photonics, 2015, 9, 471-476.	31.4	192
28	Electromechanical Actuators Based on Graphene and Graphene/Fe₃O₄ Hybrid Paper. Advanced Functional Materials, 2011, 21, 3778-3784.	14.9	170
29	3D Ultralight Hollow NiCo Compound@MXene Composites for Tunable and High-Efficient Microwave Absorption. Nano-Micro Letters, 2021, 13, 206.	27.0	165
30	The recent progress of MXene-Based microwave absorption materials. Carbon, 2021, 174, 484-499.	10.3	138
31	The application of graphene based materials for actuators. Journal of Materials Chemistry, 2012, 22, 3671.	6.7	137
32	Construction of a Fishâ€like Robot Based on High Performance Graphene/PVDF Bimorph Actuation Materials. Advanced Science, 2016, 3, 1500438.	11.2	106
33	Consecutively Strong Absorption from Gigahertz to Terahertz Bands of a Monolithic Three-Dimensional Fe₃O₄/Graphene Material. ACS Applied Materials & Interfaces, 2019, 11, 1274-1282.	8.0	94
34	Compressible Highly Stable 3D Porous MXene/GO Foam with a Tunable High-Performance Stealth Property in the Terahertz Band. ACS Applied Materials & Interfaces, 2019, 11, 25369-25377.	8.0	78
35	Highly Reversible and Recyclable Absorption under Both Hydrophobic and Hydrophilic Conditions using a Reduced Bulk Graphene Oxide Material. Advanced Materials, 2016, 28, 3504-3509.	21.0	63
36	Grapheneâ€Based Composites Combining Both Excellent Terahertz Shielding and Stealth Performance. Advanced Optical Materials, 2018, 6, 1801165.	7.3	60

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37	Highly Stretchable Carbon Nanotubes/Polymer Thermoelectric Fibers. Nano Letters, 2021, 21, 1047-1055.	9.1	60
38	Annealing Temperature-Dependent Terahertz Thermalâ€“Electrical Conversion Characteristics of Three-Dimensional Microporous Graphene. ACS Applied Materials & Interfaces, 2019, 11, 6411-6420.	8.0	40
39	Hierarchical surface engineering of carbon fiber for enhanced composites interfacial properties and microwave absorption performance. Carbon, 2021, 185, 669-680.	10.3	40
40	High-Quality Ferromagnet Fe₃GeTe₂ for High-Efficiency Electromagnetic Wave Absorption and Shielding with Wideband Radar Cross Section Reduction. ACS Nano, 2022, 16, 7861-7879.	14.6	39
41	Hydrophobic and flame-retardant multifunctional foam for enhanced thermal insulation and broadband microwave absorption via a triple-continuous network of RGO/MWCNT-melamine composite. Carbon, 2022, 196, 913-922.	10.3	37
42	Active Terahertz Shielding and Absorption Based on Graphene Foam Modulated by Electric and Optical Field Excitation. Advanced Optical Materials, 2019, 7, 1900555.	7.3	33
43	Functionalized graphene oxide based on p-phenylenediamine as spacers and nitrogen dopants for high performance supercapacitors. Science Bulletin, 2014, 59, 1809-1815.	1.7	23
44	Interfacial Ï€â€“Ï€ Interactions Induced Ultralight, 300 Â°C-Stable, Wideband Graphene/Polyaramid Foam for Electromagnetic Wave Absorption in Both Gigahertz and Terahertz Bands. ACS Applied Materials & Interfaces, 2022, 14, 3218-3232.	8.0	22
45	Intrinsically stretchable conductors and interconnects for electronic applications. Materials Chemistry Frontiers, 2019, 3, 1032-1051.	5.9	21
46	Synergistically Assembled Cobalt-Telluride/Graphene Foam with High-Performance Electromagnetic Wave Absorption in Both Gigahertz and Terahertz Band Ranges. ACS Applied Materials & Interfaces, 2021, 13, 30967-30979.	8.0	20
47	Functionalization of Graphene Oxide by Twoâ€Step Alkylation. Macromolecular Chemistry and Physics, 2012, 213, 1101-1106.	2.2	19
48	High-performance electromagnetic interference shielding and thermoelectric conversion derived from multifunctional Bi2Te2.7Se0.3/MXene composites. Carbon, 2022, 196, 243-252.	10.3	18
49	Nitrene-Mediated Pâ€“N Coupling Under Iron Catalysis. CCS Chemistry, 2022, 4, 2258-2266.	7.8	17
50	The use of graphene oxide membranes for the softening of hard water. Science China Technological Sciences, 2014, 57, 284-287.	4.0	16
51	Electrostatic Actuating Doubleâ€Unit Electrocaloric Cooling Device with High Efficiency. Advanced Energy Materials, 2021, 11, 2003771.	19.5	16
52	Ionic Liquid Gating Enhanced Photothermoelectric Conversion in Three-Dimensional Microporous Graphene. ACS Applied Materials & Interfaces, 2020, 12, 28510-28519.	8.0	13
53	High-performance microwave absorption of 3D Bi2Te2.7Se0.3/Graphene foam. Carbon, 2021, 183, 702-710.	10.3	13
54	A Novel Poly(aryleneethynylene) with Tetrathiafulvalene (TTF) Side Chains: Synthesis, Selfâ€Assembly, and Electroactive Property. Macromolecular Rapid Communications, 2008, 29, 719-723.	3.9	12

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55	An Overview of Stretchable Supercapacitors Based on Carbon Nanotube and Graphene. Chinese Journal of Polymer Science (English Edition), 2020, 38, 491-505.	3.8	9
56	Highly Stretchable Shape Memory Self-Soldering Conductive Tape with Reversible Adhesion Switched by Temperature. Nano-Micro Letters, 2021, 13, 124.	27.0	8
57	Achieving multiband compatible and mechanical tuning absorber using edge topological defect-induced graphene plasmon. Carbon, 2022, 192, 1-13.	10.3	8
58	Reply to 'Do thermal effects cause the propulsion of bulk graphene material?'. Nature Photonics, 2016, 10, 139-141.	31.4	7
59	Concentrationâ€Dependent Photoluminescence Properties of Graphene Oxide. Advanced Photonics Research, 2021, 2, 2000045.	3.6	5
60	Semiconducting Oligoâ€(Aryleneethynylene)s with Coplanarity of Main Chain and Tetrathiafulvalene (TTF) Side Chains: Synthesis, Selfâ€Assembly, and Conductive Properties. Macromolecular Chemistry and Physics, 2009, 210, 1044-1051.	2.2	2
61	High energy conversion composites based on graphene material with excellent healing performances. Journal of Applied Polymer Science, 2022, 139, 51690.	2.6	2
62	Fast Photothermoelectric Response of 3D Graphene Foam in the Terahertz Range. , 2018, , .		2
63	Direct observation of widely tunable mid-infrared emission of graphene foam induced by modulated laser diode light. Carbon, 2021, 179, 486-492.	10.3	1
64	Photothermal Conversion and Fast Response Properties of 3D Graphene Foam in the Terahertz Range. , 2018, , .		0
65	Terahertz Photothermoelectric Detection Based on Three-Dimensional Microporous Graphene p-n Junction. , 2019, , .		0
66	System-level graphene foam speaker and the simulation of the thermo-acoustic process. Optics Express, 2022, 30, 23918.	3.4	0