

Huhu Cheng

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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.

81 papers	9,857 citations	44 h-index	90 g-index
90 ext. papers	11,379 ext. citations	15.6 avg, IF	6.35 L-index

#	Paper	IF	Citations
81	Nitrogen-doped graphene quantum dots with oxygen-rich functional groups. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15-8	16.4	1623
80	All-graphene core-sheath microfibers for all-solid-state, stretchable fibriform supercapacitors and wearable electronic textiles. <i>Advanced Materials</i> , 2013 , 25, 2326-31	24	912
79	Highly compression-tolerant supercapacitor based on polypyrrole-mediated graphene foam electrodes. <i>Advanced Materials</i> , 2013 , 25, 591-5	24	676
78	A versatile, ultralight, nitrogen-doped graphene framework. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11371-5	16.4	663
77	Facile fabrication of light, flexible and multifunctional graphene fibers. <i>Advanced Materials</i> , 2012 , 24, 1856-61	24	464
76	Graphene-based smart materials. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	391
75	Newly-designed complex ternary Pt/PdCu nanoboxes anchored on three-dimensional graphene framework for highly efficient ethanol oxidation. <i>Advanced Materials</i> , 2012 , 24, 5493-8	24	287
74	Textile electrodes woven by carbon nanotube-graphene hybrid fibers for flexible electrochemical capacitors. <i>Nanoscale</i> , 2013 , 5, 3428-34	7.7	274
73	A Versatile, Ultralight, Nitrogen-Doped Graphene Framework. <i>Angewandte Chemie</i> , 2012 , 124, 11533-11537	16.4	262
72	Direct Power Generation from a Graphene Oxide Film under Moisture. <i>Advanced Materials</i> , 2015 , 27, 4351-7	24	256
71	Graphene fibers with predetermined deformation as moisture-triggered actuators and robots. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10482-6	16.4	238
70	Moisture-activated torsional graphene-fiber motor. <i>Advanced Materials</i> , 2014 , 26, 2909-13	24	237
69	Highly efficient moisture-enabled electricity generation from graphene oxide frameworks. <i>Energy and Environmental Science</i> , 2016 , 9, 912-916	35.4	181
68	All-in-one graphene fiber supercapacitor. <i>Nanoscale</i> , 2014 , 6, 6448-51	7.7	174
67	Graphene fiber: a new material platform for unique applications. <i>NPG Asia Materials</i> , 2014 , 6, e113-e113	10.3	158
66	Direct solar steam generation system for clean water production. <i>Energy Storage Materials</i> , 2019 , 18, 429-446	19.4	151
65	Graphene-quantum-dot assembled nanotubes: a new platform for efficient Raman enhancement. <i>ACS Nano</i> , 2012 , 6, 2237-44	16.7	149

64	Graphene quantum dots-three-dimensional graphene composites for high-performance supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19307-13	3.6	135
63	Electric power generation via asymmetric moisturizing of graphene oxide for flexible, printable and portable electronics. <i>Energy and Environmental Science</i> , 2018 , 11, 1730-1735	35.4	115
62	One Single Graphene Oxide Film for Responsive Actuation. <i>ACS Nano</i> , 2016 , 10, 9529-9535	16.7	115
61	High throughput of clean water excluding ions, organic media, and bacteria from defect-abundant graphene aerogel under sunlight. <i>Nano Energy</i> , 2018 , 46, 415-422	17.1	111
60	Graphene microtubings: controlled fabrication and site-specific functionalization. <i>Nano Letters</i> , 2012 , 12, 5879-84	11.5	104
59	Spontaneous, Straightforward Fabrication of Partially Reduced Graphene Oxide-Polypyrrole Composite Films for Versatile Actuators. <i>ACS Nano</i> , 2016 , 10, 4735-41	16.7	101
58	Three-dimensional water evaporation on a macroporous vertically aligned graphene pillar array under one sun. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15303-15309	13	95
57	An all-cotton-derived, arbitrarily foldable, high-rate, electrochemical supercapacitor. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8042-5	3.6	91
56	Interface-mediated hygroelectric generator with an output voltage approaching 1.5 volts. <i>Nature Communications</i> , 2018 , 9, 4166	17.4	90
55	Series of in-fiber graphene supercapacitors for flexible wearable devices. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 2547-2551	13	86
54	Functionalized graphitic carbon nitride for metal-free, flexible and rewritable nonvolatile memory device via direct laser-writing. <i>Scientific Reports</i> , 2014 , 4, 5882	4.9	80
53	A Microstructured Graphene/Poly(N-isopropylacrylamide) Membrane for Intelligent Solar Water Evaporation. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16343-16347	16.4	80
52	Graphene-Based Functional Architectures: Sheets Regulation and Macrostructure Construction toward Actuators and Power Generators. <i>Accounts of Chemical Research</i> , 2017 , 50, 1663-1671	24.3	79
51	Three-dimensional graphene-polypyrrole hybrid electrochemical actuator. <i>Nanoscale</i> , 2012 , 4, 7563-8	7.7	79
50	Solution-Processed Ultraelastic and Strong Air-Bubbled Graphene Foams. <i>Small</i> , 2016 , 12, 3229-34	11	71
49	A Graphene Fibriform Responsor for Sensing Heat, Humidity, and Mechanical Changes. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 14951-5	16.4	70
48	A General and Extremely Simple Remote Approach toward Graphene Bulks with In Situ Multifunctionalization. <i>Advanced Materials</i> , 2016 , 28, 3305-12	24	67
47	Self-Healing Graphene Oxide Based Functional Architectures Triggered by Moisture. <i>Advanced Functional Materials</i> , 2017 , 27, 1703096	15.6	66

46	A rationally-designed synergetic polypyrrole/graphene bilayer actuator. <i>Journal of Materials Chemistry</i> , 2012 , 22, 4015		62
45	Spontaneous power source in ambient air of a well-directionally reduced graphene oxide bulk. <i>Energy and Environmental Science</i> , 2018 , 11, 2839-2845	35.4	58
44	Highly Efficient Clean Water Production from Contaminated Air with a Wide Humidity Range. <i>Advanced Materials</i> , 2020 , 32, e1905875	24	58
43	Rollable, Stretchable, and Reconfigurable Graphene Hygroelectric Generators. <i>Advanced Materials</i> , 2019 , 31, e1805705	24	57
42	Highly Efficient Moisture-Triggered Nanogenerator Based on Graphene Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 38170-38175	9.5	54
41	All-region-applicable, continuous power supply of graphene oxide composite. <i>Energy and Environmental Science</i> , 2019 , 12, 1848-1856	35.4	53
40	Flexible in-plane graphene oxide moisture-electric converter for touchless interactive panel. <i>Nano Energy</i> , 2018 , 45, 37-43	17.1	53
39	Ternary Pd ₂ /PtFe networks supported by 3D graphene for efficient and durable electrooxidation of formic acid. <i>Chemical Communications</i> , 2012 , 48, 11865-7	5.8	47
38	Bilayer of polyelectrolyte films for spontaneous power generation in air up to an integrated 1,000 V output. <i>Nature Nanotechnology</i> , 2021 , 16, 811-819	28.7	44
37	Intelligent multiple-liquid evaporation power generation platform using distinctive Jaboticaba-like carbon nanosphere@TiO ₂ nanowires. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 6766-6772	13	40
36	Direct electrochemistry and electrocatalysis of horseradish peroxidase immobilized in graphene oxide/Nafion nanocomposite film. <i>Electrochimica Acta</i> , 2012 , 65, 122-126	6.7	39
35	Moist-electric generation. <i>Nanoscale</i> , 2019 , 11, 23083-23091	7.7	35
34	Maximization of Spatial Charge Density: An Approach to Ultrahigh Energy Density of Capacitive Charge Storage. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 14541-14549	16.4	34
33	Functional microspheres of graphene quantum dots. <i>Nanotechnology</i> , 2012 , 23, 255605	3.4	33
32	Uniquely arranged graphene-on-graphene structure as a binder-free anode for high-performance lithium-ion batteries. <i>Small</i> , 2014 , 10, 5035-41	11	30
31	Preparation of multifunctional microchannel-network graphene foams. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16786-16792	13	27
30	A versatile, superelastic polystyrene/graphene capsule-like framework. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10118-10123	13	24
29	Transparent, self-healing, arbitrary tailorable moist-electric film generator. <i>Nano Energy</i> , 2020 , 67, 104238	17.1	24

28	Functional graphene springs for responsive actuation. <i>Nanoscale</i> , 2014 , 6, 11052-6	7.7	22
27	Reduced Graphene Oxide-Based Spectrally Selective Absorber with an Extremely Low Thermal Emittance and High Solar Absorptance. <i>Advanced Science</i> , 2020 , 7, 1903125	13.6	21
26	Graphene Fibers with Predetermined Deformation as Moisture-Triggered Actuators and Robots. <i>Angewandte Chemie</i> , 2013 , 125, 10676-10680	3.6	21
25	Janus-interface engineering boosting solar steam towards high-efficiency water collection. <i>Energy and Environmental Science</i> ,	35.4	21
24	Emerging Materials for Water-Enabled Electricity Generation 2021 , 3, 193-209		18
23	A respiration-detective graphene oxide/lithium battery. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 19154-19159	19.15	16
22	An all-in-one and scalable carbon fibre-based evaporator by using the weaving craft for high-efficiency and stable solar desalination. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 10945-10952	13	15
21	Maximization of Spatial Charge Density: An Approach to Ultrahigh Energy Density of Capacitive Charge Storage. <i>Angewandte Chemie</i> , 2020 , 132, 14649-14657	3.6	14
20	Carbon nanotube/nanopipe composite vertical arrays for enhanced electrochemical capacitance. <i>Carbon</i> , 2013 , 64, 507-515	10.4	13
19	Graphene Oxide Assemblies for Sustainable Clean-Water Harvesting and Green-Electricity Generation. <i>Accounts of Materials Research</i> , 2021 , 2, 97-107	7.5	10
18	A Graphene Fibriform Responzor for Sensing Heat, Humidity, and Mechanical Changes. <i>Angewandte Chemie</i> , 2015 , 127, 15164-15168	3.6	9
17	Sunlight-coordinated high-performance Moisture Power in Natural Condition.. <i>Advanced Materials</i> , 2021 , e2103897	24	9
16	Moisture adsorption-desorption full cycle power generation.. <i>Nature Communications</i> , 2022 , 13, 2524	17.4	9
15	A Cascade Battery: Coupling Two Sequential Electrochemical Reactions in a Single Battery. <i>Advanced Materials</i> , 2021 , 33, e2105480	24	7
14	Enabling fast-charging selenium-based aqueous batteries via conversion reaction with copper ions.. <i>Nature Communications</i> , 2022 , 13, 1863	17.4	6
13	An intelligent film actuator with multi-level deformation behaviour. <i>Nanoscale Horizons</i> , 2020 , 5, 1226-1233	12.28	5
12	Interface-enhanced distillation beyond tradition based on well-arranged graphene membrane. <i>Science China Materials</i> , 2020 , 63, 1948-1956	7.1	5
11	A Microstructured Graphene/Poly(N-isopropylacrylamide) Membrane for Intelligent Solar Water Evaporation. <i>Angewandte Chemie</i> , 2018 , 130, 16581-16585	3.6	5

10	Mechanism of Nitrogen-Doped TiC Quantum Dots for Free-Radical Scavenging and the Ultrasensitive HO Detection Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 42442-42450	8.5	5
9	Textile-based moisture power generator with dual asymmetric structure and high flexibility for wearable applications. <i>Nano Energy</i> , 2022 , 107017	17.1	4
8	Highly defective, doping-free graphene framework: A rapid one-step formation avenue. <i>Journal of Power Sources</i> , 2021 , 497, 229881	8.9	2
7	Custom-Built Graphene Acoustic-Absorbing Aerogel for Audio Signal Recognition. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100227	4.6	2
6	Progress in 3D-Graphene Assemblies Preparation for Solar-Thermal Steam Generation and Water Treatment. <i>Wuli Huaxue Xuebao/ Acta Physico - Chimica Sinica</i> , 2021 , 2101020-0	3.8	2
5	Graphene Ionogel Ultra-Fast Filter Supercapacitor with 4V Workable Window and 150 °C Operable Temperature.. <i>Small</i> , 2022 , e2200916	11	2
4	Innentitelbild: A Versatile, Ultralight, Nitrogen-Doped Graphene Framework (Angew. Chem. 45/2012). <i>Angewandte Chemie</i> , 2012 , 124, 11336-11336	3.6	1
3	Hygroelectric Generators: Rollable, Stretchable, and Reconfigurable Graphene Hygroelectric Generators (Adv. Mater. 2/2019). <i>Advanced Materials</i> , 2019 , 31, 1970013	24	1
2	The promising solar-powered water purification based on graphene functional architectures. <i>EcoMat</i> ,	9.4	1
1	Titelbild: A Microstructured Graphene/Poly(N-isopropylacrylamide) Membrane for Intelligent Solar Water Evaporation (Angew. Chem. 50/2018). <i>Angewandte Chemie</i> , 2018 , 130, 16471-16471	3.6	