

Chuangang Hu

List of Publications by Citations

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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.

101 papers	10,901 citations	54 h-index	104 g-index
107 ext. papers	12,296 ext. citations	12.5 avg, IF	6.86 L-index

#	Paper	IF	Citations
101	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
100	Highly compression-tolerant supercapacitor based on polypyrrole-mediated graphene foam electrodes. <i>Advanced Materials</i> , 2013 , 25, 591-5	24	676
99	A versatile, ultralight, nitrogen-doped graphene framework. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 11371-5	16.4	663
98	Multifunctional Carbon-Based Metal-Free Electrocatalysts for Simultaneous Oxygen Reduction, Oxygen Evolution, and Hydrogen Evolution. <i>Advanced Materials</i> , 2017 , 29, 1604942	24	510
97	Carbon-Based Metal-Free Catalysts for Electrocatalysis beyond the ORR. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 11736-58	16.4	458
96	A Graphitic-C ₃ N ₄ "Seaweed" Architecture for Enhanced Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 11433-7	16.4	365
95	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
94	3D graphene-Fe ₃ O ₄ nanocomposites with high-performance microwave absorption. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 13038-43	3.6	281
93	Textile electrodes woven by carbon nanotube-graphene hybrid fibers for flexible electrochemical capacitors. <i>Nanoscale</i> , 2013 , 5, 3428-34	7.7	274
92	A Versatile, Ultralight, Nitrogen-Doped Graphene Framework. <i>Angewandte Chemie</i> , 2012 , 124, 11533-11537	16.4	262
91	Graphene fibers with predetermined deformation as moisture-triggered actuators and robots. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10482-6	16.4	238
90	Doping of Carbon Materials for Metal-Free Electrocatalysis. <i>Advanced Materials</i> , 2019 , 31, e1804672	24	223
89	Tailored graphene systems for unconventional applications in energy conversion and storage devices. <i>Energy and Environmental Science</i> , 2015 , 8, 31-54	35.4	211
88	Functional graphene nanomesh foam. <i>Energy and Environmental Science</i> , 2014 , 7, 1913	35.4	192
87	MnO ₂ -modified hierarchical graphene fiber electrochemical supercapacitor. <i>Journal of Power Sources</i> , 2014 , 247, 32-39	8.9	184
86	One-step preparation of iodine-doped graphitic carbon nitride nanosheets as efficient photocatalysts for visible light water splitting. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 4612-4619	13	182
85	Large scale production of biomass-derived N-doped porous carbon spheres for oxygen reduction and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3317	13	179

84	Spinning fabrication of graphene/polypyrrole composite fibers for all-solid-state, flexible fibriform supercapacitors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 12355	13	172
83	Graphene fiber: a new material platform for unique applications. <i>NPG Asia Materials</i> , 2014 , 6, e113-e113	10.3	158
82	Highly nitrogen-doped carbon capsules: scalable preparation and high-performance applications in fuel cells and lithium ion batteries. <i>Nanoscale</i> , 2013 , 5, 2726-33	7.7	158
81	High-Density Monolith of N-Doped Holey Graphene for Ultrahigh Volumetric Capacity of Li-Ion Batteries. <i>Advanced Energy Materials</i> , 2016 , 6, 1502100	21.8	142
80	Spontaneous reduction and assembly of graphene oxide into three-dimensional graphene network on arbitrary conductive substrates. <i>Scientific Reports</i> , 2013 , 3, 2065	4.9	140
79	Graphene quantum dots-three-dimensional graphene composites for high-performance supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 19307-13	3.6	135
78	Facile production of ultrathin graphitic carbon nitride nanoplatelets for efficient visible-light water splitting. <i>Nano Research</i> , 2015 , 8, 1718-1728	10	131
77	Large-scale spinning assembly of neat, morphology-defined, graphene-based hollow fibers. <i>ACS Nano</i> , 2013 , 7, 2406-12	16.7	119
76	Carbon-Based Metal-Free Catalysts for Energy Storage and Environmental Remediation. <i>Advanced Materials</i> , 2019 , 31, e1806128	24	118
75	A green one-arrow-two-hawks strategy for nitrogen-doped carbon dots as fluorescent ink and oxygen reduction electrocatalysts. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6320	13	118
74	Small-sized PdCu nanocapsules on 3D graphene for high-performance ethanol oxidation. <i>Nanoscale</i> , 2014 , 6, 2768-75	7.7	118
73	Carbon-Based Metal-Free Electrocatalysis for Energy Conversion, Energy Storage, and Environmental Protection. <i>Electrochemical Energy Reviews</i> , 2018 , 1, 84-112	29.3	109
72	A Large-Area, Flexible, and Flame-Retardant Graphene Paper. <i>Advanced Functional Materials</i> , 2016 , 26, 1470-1476	15.6	105
71	Scalable Preparation of Multifunctional Fire-Retardant Ultralight Graphene Foams. <i>ACS Nano</i> , 2016 , 10, 1325-32	16.7	105
70	Graphene microtubings: controlled fabrication and site-specific functionalization. <i>Nano Letters</i> , 2012 , 12, 5879-84	11.5	104
69	Decoration of graphene network with metal-organic frameworks for enhanced electrochemical capacitive behavior. <i>Carbon</i> , 2014 , 78, 231-242	10.4	103
68	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
67	Functionalization of graphene materials by heteroatom-doping for energy conversion and storage. <i>Progress in Natural Science: Materials International</i> , 2018 , 28, 121-132	3.6	100

66	An all-cotton-derived, arbitrarily foldable, high-rate, electrochemical supercapacitor. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 8042-5	3.6	91
65	High-Performance Li-CO ₂ Batteries Based on Metal-Free Carbon Quantum Dot/Holey Graphene Composite Catalysts. <i>Advanced Functional Materials</i> , 2018 , 28, 1804630	15.6	91
64	Three-dimensional macroporous NiCo(2)O(4) sheets as a non-noble catalyst for efficient oxygen reduction reactions. <i>Chemistry - A European Journal</i> , 2013 , 19, 14271-8	4.8	90
63	Carbon-Defect-Driven Electroless Deposition of Pt Atomic Clusters for Highly Efficient Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2020 , 142, 5594-5601	16.4	87
62	Heteroatom-doped carbon catalysts for zinc-air batteries: progress, mechanism, and opportunities. <i>Energy and Environmental Science</i> , 2020 , 13, 4536-4563	35.4	83
61	Three-dimensional graphene-polypyrrole hybrid electrochemical actuator. <i>Nanoscale</i> , 2012 , 4, 7563-8	7.7	79
60	Ten years of carbon-based metal-free electrocatalysts 2019 , 1, 19-31		76
59	Designing nitrogen-enriched echinus-like carbon capsules for highly efficient oxygen reduction reaction and lithium ion storage. <i>Nanoscale</i> , 2014 , 6, 8002-9	7.7	74
58	Monoatomic-thick graphitic carbon nitride dots on graphene sheets as an efficient catalyst in the oxygen reduction reaction. <i>Nanoscale</i> , 2015 , 7, 3035-42	7.7	74
57	A Graphitic-C ₃ N ₄ Seaweed-Like Architecture for Enhanced Hydrogen Evolution. <i>Angewandte Chemie</i> , 2015 , 127, 11595-11599	3.6	73
56	High-Performance, Long-Life, Rechargeable Li-CO Batteries based on a 3D Holey Graphene Cathode Implanted with Single Iron Atoms. <i>Advanced Materials</i> , 2020 , 32, e1907436	24	71
55	Earth-abundant carbon catalysts for renewable generation of clean energy from sunlight and water. <i>Nano Energy</i> , 2017 , 41, 367-376	17.1	69
54	A powerful approach to functional graphene hybrids for high performance energy-related applications. <i>Energy and Environmental Science</i> , 2014 , 7, 3699-3708	35.4	68
53	Preparation of high performance Pd catalysts supported on untreated multi-walled carbon nanotubes for formic acid oxidation. <i>Electrochimica Acta</i> , 2010 , 55, 6036-6041	6.7	68
52	Branched Graphene Nanocapsules for Anode Material of Lithium-Ion Batteries. <i>Chemistry of Materials</i> , 2015 , 27, 5253-5260	9.6	67
51	A General and Extremely Simple Remote Approach toward Graphene Bulks with In Situ Multifunctionalization. <i>Advanced Materials</i> , 2016 , 28, 3305-12	24	67
50	Vapor-Activated Power Generation on Conductive Polymer. <i>Advanced Functional Materials</i> , 2016 , 26, 8784-8792	15.6	64
49	Facile synthesis of hollow palladium/copper alloyed nanocubes for formic acid oxidation. <i>Chemical Communications</i> , 2011 , 47, 8581-3	5.8	59

48	Direct electrochemistry and electrocatalysis of glucose oxidase on three-dimensional interpenetrating, porous graphene modified electrode. <i>Electrochimica Acta</i> , 2013 , 98, 48-53	6.7	54
47	Chronic interfacing with the autonomic nervous system using carbon nanotube (CNT) yarn electrodes. <i>Scientific Reports</i> , 2017 , 7, 11723	4.9	53
46	Flexible and wearable graphene/polypyrrole fibers towards multifunctional actuator applications. <i>Electrochemistry Communications</i> , 2013 , 35, 49-52	5.1	52
45	High-efficiency palladium catalysts supported on ppy-modified C60 for formic acid oxidation. <i>Chemical Communications</i> , 2011 , 47, 1752-4	5.8	51
44	Carbon Nanomaterials for Energy and Biorelated Catalysis: Recent Advances and Looking Forward. <i>ACS Central Science</i> , 2019 , 5, 389-408	16.8	50
43	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
42	High-Performance K-CO Batteries Based on Metal-Free Carbon Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3470-3474	16.4	47
41	Kohlenstoffbasierte Metallfreie Katalysatoren für die Elektrokatalyse jenseits der ORR. <i>Angewandte Chemie</i> , 2016 , 128, 11910-11933	3.6	47
40	Spontaneous formation of Cu ₂ O-g-C ₃ N ₄ core-shell nanowires for photocurrent and humidity responses. <i>Nanoscale</i> , 2015 , 7, 9694-702	7.7	44
39	High-Performance Li-CO ₂ Batteries from Free-Standing, Binder-Free, Bifunctional Three-Dimensional Carbon Catalysts. <i>ACS Energy Letters</i> , 2020 , 5, 916-921	20.1	43
38	An ultra-long life, high-performance, flexible Li-CO ₂ battery based on multifunctional carbon electrocatalysts. <i>Nano Energy</i> , 2020 , 71, 104595	17.1	41
37	Graphene-winged carbon nanotubes as high-performance lithium-ion batteries anode with super-long cycle life. <i>Journal of Power Sources</i> , 2016 , 305, 106-114	8.9	41
36	Functionalized carbon nanotubes and graphene-based materials for energy storage. <i>Chemical Communications</i> , 2016 , 52, 14350-14360	5.8	41
35	Solvothermal synthesis and characterization of PdRh alloy hollow nanosphere catalysts for formic acid oxidation. <i>Catalysis Communications</i> , 2010 , 11, 919-922	3.2	39
34	Highly dispersed Pd nanoparticles supported on 1,10-phenanthroline-functionalized multi-walled carbon nanotubes for electrooxidation of formic acid. <i>Journal of Power Sources</i> , 2011 , 196, 6232-6237	8.9	38
33	Preparation of highly dispersed Pt-SnO _x nanoparticles supported on multi-walled carbon nanotubes for methanol oxidation. <i>Applied Surface Science</i> , 2011 , 257, 7968-7974	6.7	35
32	One-pot Synthesis of Nitrogen and Phosphorus Co-doped Graphene and Its Use as High-performance Electrocatalyst for Oxygen Reduction Reaction. <i>Chemistry - an Asian Journal</i> , 2015 , 10, 2609-14	4.5	32
31	Graphitic C ₃ N ₄ -Pt nanohybrids supported on a graphene network for highly efficient methanol oxidation. <i>Science China Materials</i> , 2015 , 58, 21-27	7.1	30

30	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
29	Additive-free fabrication of spherical hollow palladium/copper alloyed nanostructures for fuel cell application. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4461-4	9.5	30
28	Graphdiyne with tunable activity towards hydrogen evolution reaction. <i>Nano Energy</i> , 2019 , 63, 103874	17.1	29
27	Preparation of multifunctional microchannel-network graphene foams. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 16786-16792	13	27
26	High-efficiency carbon-supported platinum catalysts stabilized with sodium citrate for methanol oxidation. <i>Journal of Power Sources</i> , 2010 , 195, 2653-2658	8.9	25
25	Carbon-based metal-free electrocatalysts: from oxygen reduction to multifunctional electrocatalysis. <i>Chemical Society Reviews</i> , 2021 , 50, 11785-11843	58.5	24
24	Multifunctional carbon-based metal-free catalysts for advanced energy conversion and storage. <i>Cell Reports Physical Science</i> , 2021 , 2, 100328	6.1	24
23	Supramolecular quantum dots as biodegradable nano-probes for upconversion-enabled bioimaging. <i>Chemical Communications</i> , 2015 , 51, 13201-4	5.8	23
22	Microporous N,P-Codoped Graphitic Nanosheets as an Efficient Electrocatalyst for Oxygen Reduction in Whole pH Range for Energy Conversion and Biosensing Dissolved Oxygen. <i>Chemistry - A European Journal</i> , 2018 , 24, 18487-18493	4.8	23
21	Graphene Fibers with Predetermined Deformation as Moisture-Triggered Actuators and Robots. <i>Angewandte Chemie</i> , 2013 , 125, 10676-10680	3.6	21
20	A dually spontaneous reduction and assembly strategy for hybrid capsules of graphene quantum dots with platinum/copper nanoparticles for enhanced oxygen reduction reaction. <i>Carbon</i> , 2014 , 74, 170-179	10.4	20
19	Topological Defect-Rich Carbon as a Metal-Free Cathode Catalyst for High-Performance Li-CO ₂ Batteries. <i>Advanced Energy Materials</i> , 2021 , 11, 2101390	21.8	17
18	A facile method for preparation of high performance Pt catalyst supported on multi-wall carbon nanotubes for methanol electrooxidation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2011 , 176, 1467-1473	3.1	15
17	Carbon nanotube/nanopipe composite vertical arrays for enhanced electrochemical capacitance. <i>Carbon</i> , 2013 , 64, 507-515	10.4	13
16	Boron, nitrogen co-doped carbon with abundant mesopores for efficient CO ₂ electroreduction. <i>Applied Catalysis B: Environmental</i> , 2021 , 298, 120543	21.8	13
15	Re-shaping graphene hydrogels for effectively enhancing actuation responses. <i>Nanoscale</i> , 2015 , 7, 12372-8	7.8	11
14	An Imperata Cylindrical Flowers-Shaped Porous Graphene Microelectrode for Direct Electrochemistry of Glucose Oxidase. <i>Journal of the Electrochemical Society</i> , 2015 , 162, B138-B144	3.9	11
13	N, P, and S tri-doped holey carbon as an efficient electrocatalyst for oxygen reduction in whole pH range for fuel cell and zinc-air batteries. <i>Carbon</i> , 2021 , 179, 365-376	10.4	11

12	Pt1-Pd3Co1 nanoparticles supported on multi-walled carbon nanotubes as a high performance electrocatalyst for methanol oxidation. <i>Electrochemistry Communications</i> , 2011 , 13, 886-889	5.1	10
11	Earth-abundant metal-free carbon-based electrocatalysts for Zn-air batteries to power electrochemical generation of H ₂ O ₂ for in-situ wastewater treatment. <i>Chemical Engineering Journal</i> , 2021 , 416, 128338	14.7	8
10	Separation performance of graphene oxide as stationary phase for capillary gas chromatography. <i>Chinese Chemical Letters</i> , 2015 , 26, 47-49	8.1	7
9	High-Performance K ₂ O ₂ Batteries Based on Metal-Free Carbon Electrocatalysts. <i>Angewandte Chemie</i> , 2020 , 132, 3498-3502	3.6	5
8	Synthesis and characterization of Pd catalysts supported on carbon microspheres for formic acid oxidation. <i>Russian Journal of Electrochemistry</i> , 2013 , 49, 577-582	1.2	3
7	Understanding of catalytic ROS generation from defect-rich graphene quantum-dots for therapeutic effects in tumor microenvironment. <i>Journal of Nanobiotechnology</i> , 2021 , 19, 340	9.4	2
6	Large-scale production of holey carbon nanosheets implanted with atomically dispersed Fe sites for boosting oxygen reduction electrocatalysis. <i>Nano Research</i> , 1	10	2
5	Innentitelbild: A Versatile, Ultralight, Nitrogen-Doped Graphene Framework (Angew. Chem. 45/2012). <i>Angewandte Chemie</i> , 2012 , 124, 11336-11336	3.6	1
4	Boosting Li-CO ₂ battery performances by creating holey structure on CNT cathodes. <i>Electrochimica Acta</i> , 2022 , 417, 140310	6.7	1
3	High efficiency palladium catalysts supported on multi-wall carbon nanotubes synthesized with 1,3-bis(diphenylphosphino) propane for ethanol oxidation. <i>Russian Journal of Electrochemistry</i> , 2013 , 49, 1181-1187	1.2	0
2	Carbon-Based, Metal-Free Catalysts for Metal-Air Batteries 2018 , 555-596		0
1	Topological Defect-Rich Carbon as a Metal-Free Cathode Catalyst for High-Performance Li-CO ₂ Batteries (Adv. Energy Mater. 30/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170120	21.8	