

Chang Liu

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56
papers

2,127
citations

22
h-index

45
g-index

61
ext. papers

2,697
ext. citations

11.5
avg, IF

5.1
L-index

#	Paper	IF	Citations
56	Vertically Aligned Carbon Nanotubes Grown on Graphene Paper as Electrodes in Lithium-Ion Batteries and Dye-Sensitized Solar Cells. <i>Advanced Energy Materials</i> , 2011 , 1, 486-490	21.8	279
55	Flexible layer-structured BiTe thermoelectric on a carbon nanotube scaffold. <i>Nature Materials</i> , 2019 , 18, 62-68	27	188
54	Unsaturated edge-anchored Ni single atoms on porous microwave exfoliated graphene oxide for electrochemical CO ₂ . <i>Applied Catalysis B: Environmental</i> , 2019 , 243, 294-303	21.8	168
53	Single-wall carbon nanotube network enabled ultrahigh sulfur-content electrodes for high-performance lithium-sulfur batteries. <i>Nano Energy</i> , 2017 , 42, 205-214	17.1	140
52	Heteroatom-Doped Carbon Nanotube and Graphene-Based Electrocatalysts for Oxygen Reduction Reaction. <i>Small</i> , 2017 , 13, 1702002	11	138
51	Ultrahigh-performance transparent conductive films of carbon-welded isolated single-wall carbon nanotubes. <i>Science Advances</i> , 2018 , 4, eaap9264	14.3	111
50	Secondary-Atom-Assisted Synthesis of Single Iron Atoms Anchored on N-Doped Carbon Nanowires for Oxygen Reduction Reaction. <i>ACS Catalysis</i> , 2019 , 9, 5929-5934	13.1	98
49	Carbon nanotube encapsulated in nitrogen and phosphorus co-doped carbon as a bifunctional electrocatalyst for oxygen reduction and evolution reactions. <i>Carbon</i> , 2018 , 139, 156-163	10.4	77
48	A flexible cotton-derived carbon sponge for high-performance capacitive deionization. <i>Carbon</i> , 2016 , 101, 1-8	10.4	71
47	Hierarchically porous Fe-N-doped carbon nanotubes as efficient electrocatalyst for oxygen reduction. <i>Carbon</i> , 2016 , 109, 632-639	10.4	64
46	A nitrogen-doped mesoporous carbon containing an embedded network of carbon nanotubes as a highly efficient catalyst for the oxygen reduction reaction. <i>Nanoscale</i> , 2015 , 7, 19201-6	7.7	51
45	Selective removal of metallic single-walled carbon nanotubes by combined in situ and post-synthesis oxidation. <i>Carbon</i> , 2010 , 48, 2941-2947	10.4	46
44	Carbon nanotube-linked hollow carbon nanospheres doped with iron and nitrogen as single-atom catalysts for the oxygen reduction reaction in acidic solutions. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 14478-14482	13	40
43	A MnO ₂ nanosheet/single-wall carbon nanotube hybrid fiber for wearable solid-state supercapacitors. <i>Carbon</i> , 2018 , 140, 634-643	10.4	39
42	A Freestanding Single-Wall Carbon Nanotube Film Decorated with N-Doped Carbon-Encapsulated Ni Nanoparticles as a Bifunctional Electrocatalyst for Overall Water Splitting. <i>Advanced Science</i> , 2019 , 6, 1802177	13.6	38
41	Electrochemically substituted metal phthalocyanines, e-MPc (M = Co, Ni), as highly active and selective catalysts for CO ₂ reduction. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1370-1375	13	34
40	Identification of active sites in nitrogen and sulfur co-doped carbon-based oxygen reduction catalysts. <i>Carbon</i> , 2019 , 147, 303-311	10.4	31

39	Carbon nanotube/silicon heterojunctions for photovoltaic applications. <i>Nano Materials Science</i> , 2019 , 1, 156-172	10.2	30
38	Carbon nanotubes prepared by anodic aluminum oxide template method. <i>Science Bulletin</i> , 2012 , 57, 187-204		30
37	Small-bundle single-wall carbon nanotubes for high-efficiency silicon heterojunction solar cells. <i>Nano Energy</i> , 2018 , 50, 521-527	17.1	28
36	Monolayer carbon-encapsulated Mo-doped Ni nanoparticles anchored on single-wall carbon nanotube film for total water splitting. <i>Applied Catalysis B: Environmental</i> , 2020 , 269, 118823	21.8	24
35	Carbon-encapsulated NiO nanoparticle decorated single-walled carbon nanotube thin films for binderless flexible electrodes of supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 24813-24819 ¹³		23
34	Highly Dispersive Cerium Atoms on Carbon Nanowires as Oxygen Reduction Reaction Electrocatalysts for Zn-Air Batteries. <i>Nano Letters</i> , 2021 , 21, 4508-4515	11.5	22
33	Vertically aligned carbon nanotube arrays as a thermal interface material. <i>APL Materials</i> , 2019 , 7, 020902 ^{5,7}	5.7	21
32	Fluorination-assisted preparation of self-supporting single-atom Fe-N-doped single-wall carbon nanotube film as bifunctional oxygen electrode for rechargeable Zn-Air batteries. <i>Applied Catalysis B: Environmental</i> , 2021 , 294, 120239	21.8	21
31	Growth of metal-catalyst-free nitrogen-doped metallic single-wall carbon nanotubes. <i>Nanoscale</i> , 2014 , 6, 12065-70	7.7	20
30	MXene-Carbon Nanotube Hybrid Membrane for Robust Recovery of Au from Trace-Level Solution. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43032-43041	9.5	19
29	Precise Identification of the Active Phase of Cobalt Catalyst for Carbon Nanotube Growth by Transmission Electron Microscopy. <i>ACS Nano</i> , 2020 ,	16.7	18
28	Growth of double-walled carbon nanotubes from silicon oxide nanoparticles. <i>Carbon</i> , 2013 , 56, 167-172	10.4	16
27	High-efficiency and stable silicon heterojunction solar cells with lightly fluorinated single-wall carbon nanotube films. <i>Nano Energy</i> , 2020 , 69, 104442	17.1	16
26	Surface-restrained growth of vertically aligned carbon nanotube arrays with excellent thermal transport performance. <i>Nanoscale</i> , 2017 , 9, 8213-8219	7.7	15
25	Clean, fast and scalable transfer of ultrathin/patterned vertically-aligned carbon nanotube arrays. <i>Carbon</i> , 2018 , 133, 275-282	10.4	15
24	The effect of carbon support on the oxygen reduction activity and durability of single-atom iron catalyts. <i>MRS Communications</i> , 2018 , 8, 1158-1166	2.7	15
23	Controlled synthesis of quasi-one-dimensional boron nitride nanostructures. <i>Journal of Materials Research</i> , 2007 , 22, 2809-2816	2.5	14
22	A Platelet Graphitic Nanofiber-Carbon Nanotube Hybrid for Efficient Oxygen Evolution Reaction. <i>ChemCatChem</i> , 2020 , 12, 360-365	5.2	14

21	A flexible thermoelectric device based on a Bi ₂ Te ₃ -carbon nanotube hybrid. <i>Journal of Materials Science and Technology</i> , 2020 , 58, 80-85	9.1	12
20	Applications of carbon nanotubes and graphene produced by chemical vapor deposition. <i>MRS Bulletin</i> , 2017 , 42, 825-833	3.2	12
19	De-bundling of single-wall carbon nanotubes induced by an electric field during arc discharge synthesis. <i>Carbon</i> , 2014 , 74, 370-373	10.4	11
18	Oriented outperforms disorder: Thickness-independent mass transport for lithium-sulfur batteries. <i>Carbon</i> , 2019 , 154, 90-97	10.4	10
17	Carbon fiber-promoted activation of catalyst for efficient growth of single-walled carbon nanotubes. <i>Carbon</i> , 2020 , 156, 410-415	10.4	10
16	Iron silicide-catalyzed growth of single-walled carbon nanotubes with a narrow diameter distribution. <i>Carbon</i> , 2019 , 149, 139-143	10.4	9
15	Selective growth of semiconducting single-wall carbon nanotubes using SiC as a catalyst. <i>Carbon</i> , 2018 , 135, 195-201	10.4	9
14	Decoupling phonon and carrier scattering at carbon nanotube/Bi ₂ Te ₃ interfaces for improved thermoelectric performance. <i>Carbon</i> , 2020 , 170, 191-198	10.4	9
13	Transparent and flexible hydrogen sensor based on semiconducting single-wall carbon nanotube networks. <i>Carbon</i> , 2019 , 151, 156-159	10.4	8
12	Observations of novel carbon nanotubes with multiple hollow cores. <i>Carbon</i> , 2003 , 41, 2477-2480	10.4	8
11	Preparation of metallic single-wall carbon nanotubes. <i>Carbon</i> , 2019 , 147, 187-198	10.4	8
10	Semiconductor nanochannels in metallic carbon nanotubes by thermomechanical chirality alteration.. <i>Science</i> , 2021 , 374, 1616-1620	33.3	8
9	Growth of tadpole-like carbon nanotubes from TiO ₂ nanoparticles. <i>Carbon</i> , 2013 , 55, 253-259	10.4	7
8	Synthesis of high quality nitrogen-doped single-wall carbon nanotubes. <i>Science China Materials</i> , 2015 , 58, 603-610	7.1	6
7	Controlled One-pot Synthesis of Nickel Single Atoms Embedded in Carbon Nanotube and Graphene Supports with High Loading. <i>ChemNanoMat</i> , 2020 , 6, 1063-1074	3.5	6
6	Temperature-dependent selective nucleation of single-walled carbon nanotubes from stabilized catalyst nanoparticles. <i>Chemical Engineering Journal</i> , 2021 , 431, 133487	14.7	5
5	A Flexible and Infrared-Transparent Bi ₂ Te ₃ -Carbon Nanotube Thermoelectric Hybrid for both Active and Passive Cooling. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 3008-3016	4	5
4	Ultrahigh thermal stability of carbon encapsulated Cu nanograin on a carbon nanotube scaffold. <i>Carbon</i> , 2021 , 172, 712-719	10.4	2

3	Aerosol Jet Printing of Graphene and Carbon Nanotube Patterns on Realistically Rugged Substrates.. <i>ACS Omega</i> , 2021 , 6, 34301-34313	3.9	2
2	The importance of H ₂ in the controlled growth of semiconducting single-wall carbon nanotubes. <i>Journal of Materials Science and Technology</i> , 2020 , 54, 105-111	9.1	1
1	High-throughput screening and machine learning for the efficient growth of high-quality single-wall carbon nanotubes. <i>Nano Research</i> ,1	10	1