

Peng-Xiang Hou

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.

80
papers

6,076
citations

34
h-index

77
g-index

89
ext. papers

6,941
ext. citations

12.5
avg, IF

5.72
L-index

#	Paper	IF	Citations
80	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
79	Dual-Phasic Carbon with Co Single Atoms and Nanoparticles as a Bifunctional Oxygen Electrocatalyst for Rechargeable Zn-Air Batteries. <i>Advanced Functional Materials</i> , 2021 , 31, 2103360	15.6	24
78	Air-stable room-temperature photodetector based on large-diameter small-bundle single-wall carbon nanotube films. <i>Journal of Materials Science and Technology</i> , 2021 , 73, 205-209	9.1	1
77	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
76	Aerosol Jet Printing of Graphene and Carbon Nanotube Patterns on Realistically Rugged Substrates.. <i>ACS Omega</i> , 2021 , 6, 34301-34313	3.9	2
75	Semiconductor nanochannels in metallic carbon nanotubes by thermomechanical chirality alteration.. <i>Science</i> , 2021 , 374, 1616-1620	33.3	8
74	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
73	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
72	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
71	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
70	Transparent and flexible hydrogen sensor based on semiconducting single-wall carbon nanotube networks. <i>Carbon</i> , 2019 , 151, 156-159	10.4	8
69	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
68	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
67	Vertically aligned carbon nanotube arrays as a thermal interface material. <i>APL Materials</i> , 2019 , 7, 020902	5.7	21
66	High-performance single-wall carbon nanotube transparent conductive films. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2447-2462	9.1	24
65	Nitrogen-Doped Reduced Graphene Oxide Hydrogel Achieved via a One-Step Hydrothermal Process. <i>ChemNanoMat</i> , 2019 , 5, 1144-1151	3.5	3
64	Preparation of metallic single-wall carbon nanotubes. <i>Carbon</i> , 2019 , 147, 187-198	10.4	8

63	Flexible layer-structured BiTe thermoelectric on a carbon nanotube scaffold. <i>Nature Materials</i> , 2019 , 18, 62-68	27	188
62	High-Throughput Fabrication of Flexible and Transparent All-Carbon Nanotube Electronics. <i>Advanced Science</i> , 2018 , 5, 1700965	13.6	26
61	N-doped carbon nanotubes containing a high concentration of single iron atoms for efficient oxygen reduction. <i>NPG Asia Materials</i> , 2018 , 10, e461-e461	10.3	72
60	Selective growth of semiconducting single-wall carbon nanotubes using SiC as a catalyst. <i>Carbon</i> , 2018 , 135, 195-201	10.4	9
59	Ultrahigh-performance transparent conductive films of carbon-welded isolated single-wall carbon nanotubes. <i>Science Advances</i> , 2018 , 4, eaap9264	14.3	111
58	Clean, fast and scalable transfer of ultrathin/patterned vertically-aligned carbon nanotube arrays. <i>Carbon</i> , 2018 , 133, 275-282	10.4	15
57	The effect of carbon support on the oxygen reduction activity and durability of single-atom iron catalysts. <i>MRS Communications</i> , 2018 , 8, 1158-1166	2.7	15
56	Small-bundle single-wall carbon nanotubes for high-efficiency silicon heterojunction solar cells. <i>Nano Energy</i> , 2018 , 50, 521-527	17.1	28
55	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
54	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
53	Continuous Fabrication of Meter-Scale Single-Wall Carbon Nanotube Films and their Use in Flexible and Transparent Integrated Circuits. <i>Advanced Materials</i> , 2018 , 30, e1802057	24	42
52	A carbon nanotube non-volatile memory device using a photoresist gate dielectric. <i>Carbon</i> , 2017 , 124, 700-707	10.4	5
51	Surface-restrained growth of vertically aligned carbon nanotube arrays with excellent thermal transport performance. <i>Nanoscale</i> , 2017 , 9, 8213-8219	7.7	15
50	Selective Growth of Metal-Free Metallic and Semiconducting Single-Wall Carbon Nanotubes. <i>Advanced Materials</i> , 2017 , 29, 1605719	24	14
49	Heteroatom-Doped Carbon Nanotube and Graphene-Based Electrocatalysts for Oxygen Reduction Reaction. <i>Small</i> , 2017 , 13, 1702002	11	138
48	Applications of carbon nanotubes and graphene produced by chemical vapor deposition. <i>MRS Bulletin</i> , 2017 , 42, 825-833	3.2	12
47	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
46	Hierarchically porous Fe-N-doped carbon nanotubes as efficient electrocatalyst for oxygen reduction. <i>Carbon</i> , 2016 , 109, 632-639	10.4	64

45	A 3D bi-functional porous N-doped carbon microtube sponge electrocatalyst for oxygen reduction and oxygen evolution reactions. <i>Energy and Environmental Science</i> , 2016 , 9, 3079-3084	35.4	212
44	Toward More Reliable Lithium-Sulfur Batteries: An All-Graphene Cathode Structure. <i>ACS Nano</i> , 2016 , 10, 8676-82	16.7	212
43	Growth of semiconducting single-wall carbon nanotubes with a narrow band-gap distribution. <i>Nature Communications</i> , 2016 , 7, 11160	17.4	62
42	High Reversible Lithium Storage Capacity and Structural Changes of Fe ₂ O ₃ Nanoparticles Confined inside Carbon Nanotubes. <i>Advanced Energy Materials</i> , 2016 , 6, 1501755	21.8	95
41	A flexible cotton-derived carbon sponge for high-performance capacitive deionization. <i>Carbon</i> , 2016 , 101, 1-8	10.4	71
40	Epitaxial growth of single-wall carbon nanotubes. <i>Carbon</i> , 2016 , 102, 181-197	10.4	26
39	Efficient adsorption of organic dyes on a flexible single-wall carbon nanotube film. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 1191-1194	13	43
38	Synthesis and Electrochemical Lithium Storage Behavior of Carbon Nanotubes Filled with Iron Sulfide Nanoparticles. <i>Advanced Science</i> , 2016 , 3, 1600113	13.6	31
37	Amorphization and Directional Crystallization of Metals Confined in Carbon Nanotubes Investigated by in Situ Transmission Electron Microscopy. <i>Nano Letters</i> , 2015 , 15, 4922-7	11.5	11
36	Lithiation of silicon nanoparticles confined in carbon nanotubes. <i>ACS Nano</i> , 2015 , 9, 5063-71	16.7	91
35	Synthesis of high quality nitrogen-doped single-wall carbon nanotubes. <i>Science China Materials</i> , 2015 , 58, 603-610	7.1	6
34	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
33	Honeycomb-like single-wall carbon nanotube networks. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 3308-3311	13	2
32	Double-wall carbon nanotube transparent conductive films with excellent performance. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 1159-1164	13	32
31	Growth of metal-catalyst-free nitrogen-doped metallic single-wall carbon nanotubes. <i>Nanoscale</i> , 2014 , 6, 12065-70	7.7	20
30	Structural changes in iron oxide and gold catalysts during nucleation of carbon nanotubes studied by in situ transmission electron microscopy. <i>ACS Nano</i> , 2014 , 8, 292-301	16.7	42
29	In Situ TEM Observations on the Sulfur-Assisted Catalytic Growth of Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry Letters</i> , 2014 , 5, 1427-32	6.4	22
28	Preparation of metallic single-wall carbon nanotubes by selective etching. <i>ACS Nano</i> , 2014 , 8, 7156-62	16.7	66

27	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
26	High-quality, highly concentrated semiconducting single-wall carbon nanotubes for use in field effect transistors and biosensors. <i>ACS Nano</i> , 2013 , 7, 6831-9	16.7	80
25	Growth of a cup-stacked carbon nanotube carpet with a superhydrophobic surface. <i>New Carbon Materials</i> , 2013 , 28, 295-299	4.4	7
24	Growth of double-walled carbon nanotubes from silicon oxide nanoparticles. <i>Carbon</i> , 2013 , 56, 167-172	10.4	16
23	Synthesis of coaxial nanocables of single-walled carbon nanotubes sheathed with amorphous silicon oxide. <i>New Carbon Materials</i> , 2013 , 28, 8-13	4.4	2
22	Growth of tadpole-like carbon nanotubes from TiO ₂ nanoparticles. <i>Carbon</i> , 2013 , 55, 253-259	10.4	7
21	A nanosized Fe ₂ O ₃ decorated single-walled carbon nanotube membrane as a high-performance flexible anode for lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17942		143
20	Enrichment of semiconducting single-walled carbon nanotubes by carbothermic reaction for use in all-nanotube field effect transistors. <i>ACS Nano</i> , 2012 , 6, 9657-61	16.7	27
19	Improved electrochemical performance of Fe ₂ O ₃ nanoparticles confined in carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2012 , 22, 13756		128
18	Heteroepitaxial growth of single-walled carbon nanotubes from boron nitride. <i>Scientific Reports</i> , 2012 , 2, 971	4.9	14
17	A flexible nanostructured sulphur-carbon nanotube cathode with high rate performance for Li-S batteries. <i>Energy and Environmental Science</i> , 2012 , 5, 8901	35.4	422
16	Template synthesis of ultra-thin and short carbon nanotubes with two open ends. <i>Journal of Materials Chemistry</i> , 2012 , 22, 15221		15
15	Bulk synthesis of large diameter semiconducting single-walled carbon nanotubes by oxygen-assisted floating catalyst chemical vapor deposition. <i>Journal of the American Chemical Society</i> , 2011 , 133, 5232-5	16.4	118
14	Synthesis and field emission property of carbon nanotubes with sharp tips. <i>New Carbon Materials</i> , 2011 , 26, 52-56	4.4	17
13	Carbon nanotube-clamped metal atomic chain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9055-9	11.5	34
12	Preparation and electrochemical property of Fe ₂ O ₃ nanoparticles-filled carbon nanotubes. <i>Chemical Communications</i> , 2010 , 46, 8576-8	5.8	108
11	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
10	Self-Assembled Free-Standing Graphite Oxide Membrane. <i>Advanced Materials</i> , 2009 , 21, 3007-3011	24	788

9	Investigation of the ion storage/transfer behavior in an electrical double-layer capacitor by using ordered microporous carbons as model materials. <i>Chemistry - A European Journal</i> , 2009 , 15, 5355-63	4.8	133
8	A possible bucky bowl-like structure of zeolite templated carbon. <i>Carbon</i> , 2009 , 47, 1220-1230	10.4	203
7	High-Pressure Hydrogen Storage in Zeolite-Templated Carbon. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3189-3196	3.8	150
6	Low-temperature exfoliated graphenes: vacuum-promoted exfoliation and electrochemical energy storage. <i>ACS Nano</i> , 2009 , 3, 3730-6	16.7	633
5	Purification of carbon nanotubes. <i>Carbon</i> , 2008 , 46, 2003-2025	10.4	570
4	Controlled filling of Permalloy into one-end-opened carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2007 , 17, 986-991		34
3	Densification of ordered microporous carbons and controlling their micropore size by hot-pressing. <i>Carbon</i> , 2007 , 45, 2011-2016	10.4	43
2	Bulk Storage Capacity of Hydrogen in Purified Multiwalled Carbon Nanotubes. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 963-966	3.4	56
1	Synthesis of Carbon Nanotubes by Floating Catalyst Chemical Vapor Deposition and Their Applications. <i>Advanced Functional Materials</i> , 2108541	15.6	3