

Hua Jiang

List of Publications by Year in descending order

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papers

1,833
citations

257101

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276539

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docs citations

65
times ranked

2986
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrochemical Activation of Single-Walled Carbon Nanotubes with Pseudo-Atomic-Scale Platinum for the Hydrogen Evolution Reaction. ACS Catalysis, 2017, 7, 3121-3130.	5.5	279
2	Tailoring the diameter of single-walled carbon nanotubes for optical applications. Nano Research, 2011, 4, 807-815.	5.8	76
3	Growth of semiconducting single-wall carbon nanotubes with a narrow band-gap distribution. Nature Communications, 2016, 7, 11160.	5.8	75
4	Growth modes and chiral selectivity of single-walled carbon nanotubes. Nanoscale, 2018, 10, 6744-6750.	2.8	67
5	Maghemite nanoparticles decorated on carbon nanotubes as efficient electrocatalysts for the oxygen evolution reaction. Journal of Materials Chemistry A, 2016, 4, 5216-5222.	5.2	65
6	Catalyst Support Effect on the Activity and Durability of Magnetic Nanoparticles: toward Design of Advanced Electrocatalyst for Full Water Splitting. ACS Applied Materials & Interfaces, 2018, 10, 31300-31311.	4.0	64
7	Growth Mechanism of Single-Walled Carbon Nanotubes on Iron-Copper Catalyst and Chirality Studies by Electron Diffraction. Chemistry of Materials, 2012, 24, 1796-1801.	3.2	63
8	Growth Termination and Multiple Nucleation of Single-Wall Carbon Nanotubes Evidenced by <i>in Situ</i> Transmission Electron Microscopy. ACS Nano, 2017, 11, 4483-4493.	7.3	60
9	Direct Synthesis of Colorful Single-Walled Carbon Nanotube Thin Films. Journal of the American Chemical Society, 2018, 140, 9797-9800.	6.6	59
10	Nanowire network-based multifunctional all-optical logic gates. Science Advances, 2018, 4, eaar7954.	4.7	51
11	Low temperature growth of SWNTs on a nickel catalyst by thermal chemical vapor deposition. Nano Research, 2011, 4, 334-342.	5.8	50
12	Nitrogen-Doped Single-Walled Carbon Nanotube Thin Films Exhibiting Anomalous Sheet Resistances. Chemistry of Materials, 2011, 23, 2201-2208.	3.2	43
13	Highly Luminescent Gold Nanocluster Frameworks. Advanced Optical Materials, 2019, 7, 1900620.	3.6	42
14	Growth kinetics of single-walled carbon nanotubes with a (2 <i>n</i> , <i>n</i>) chirality selection. Science Advances, 2019, 5, eaav9668.	4.7	42
15	Dry Functionalization and Doping of Single-Walled Carbon Nanotubes by Ozone. Journal of Physical Chemistry C, 2015, 119, 27821-27828.	1.5	34
16	Validity of Measuring Metallic and Semiconducting Single-Walled Carbon Nanotube Fractions by Quantitative Raman Spectroscopy. Analytical Chemistry, 2018, 90, 2517-2525.	3.2	34
17	Electrochemical Detection of Oxycodone and Its Main Metabolites with Nafion-Coated Single-Walled Carbon Nanotube Electrodes. Analytical Chemistry, 2020, 92, 8218-8227.	3.2	31
18	A Novel Method for Continuous Synthesis of ZnO Tetrapods. Journal of Physical Chemistry C, 2015, 119, 16366-16373.	1.5	30

#	ARTICLE	IF	CITATIONS
19	Protective capping and surface passivation of III-V nanowires by atomic layer deposition. AIP Advances, 2016, 6, .	0.6	29
20	High-performance transparent conducting films of long single-walled carbon nanotubes synthesized from toluene alone. Nano Research, 2020, 13, 112-120.	5.8	29
21	Single-Walled Carbon Nanotube Network Electrodes for the Detection of Fentanyl Citrate. ACS Applied Nano Materials, 2020, 3, 1203-1212.	2.4	28
22	Structural Characteristics of Natural-Gas-Vehicle-Aged Oxidation Catalyst. Topics in Catalysis, 2013, 56, 576-585.	1.3	27
23	Insights into chirality distributions of single-walled carbon nanotubes grown on different Co _x Mg _{1-x} O solid solutions. Journal of Materials Chemistry A, 2014, 2, 5883-5889.	5.2	26
24	Investigation of plasmonic gold-silica core-shell nanoparticle stability in dye-sensitized solar cell applications. Journal of Colloid and Interface Science, 2014, 427, 54-61.	5.0	24
25	Large-Diameter Carbon Nanotube Transparent Conductor Overcoming Performance-Yield Tradeoff. Advanced Functional Materials, 2022, 32, 2103397.	7.8	24
26	Orbital and spin magnetic moments of transforming one-dimensional iron inside metallic and semiconducting carbon nanotubes. Physical Review B, 2013, 87, .	1.1	23
27	Tailorable second-harmonic generation from an individual nanowire using spatially phase-shaped beams. Laser and Photonics Reviews, 2017, 11, 1600175.	4.4	23
28	Gas phase synthesis of metallic and bimetallic catalyst nanoparticles by rod-to-tube type spark discharge generator. Journal of Aerosol Science, 2018, 123, 208-218.	1.8	23
29	Temperature Dependent Raman Spectra of Carbon Nanobuds. Journal of Physical Chemistry C, 2010, 114, 13540-13545.	1.5	22
30	Application-Specific Catalyst Layers: Pt-Containing Carbon Nanofibers for Hydrogen Peroxide Detection. ACS Omega, 2017, 2, 496-507.	1.6	21
31	Reuse of LiCoO ₂ Electrodes Collected from Spent Li-Ion Batteries after Electrochemical Re-Lithiation of the Electrode. ChemSusChem, 2021, 14, 2434-2444.	3.6	21
32	Nitrogen-doped SWCNT synthesis using ammonia and carbon monoxide. Physica Status Solidi (B): Basic Research, 2010, 247, 2726-2729.	0.7	19
33	Atomic-Scale Deformations at the Interface of a Mixed-Dimensional van der Waals Heterostructure. ACS Nano, 2018, 12, 8512-8519.	7.3	19
34	Colors of Single-Wall Carbon Nanotubes. Advanced Materials, 2021, 33, e2006395.	11.1	18
35	Understanding the Stabilizing Effects of Nanoscale Metal Oxide and Metal Oxide Coatings on Lithium-Ion Battery Positive Electrode Materials. ACS Applied Materials & Interfaces, 2021, 13, 42773-42790.	4.0	18
36	Can Single-Walled Carbon Nanotube Diameter Be Defined by Catalyst Particle Diameter?. Journal of Physical Chemistry C, 2019, 123, 30305-30317.	1.5	17

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37	Selective Covalent Functionalization of Carbon Nanobuds. <i>Chemistry of Materials</i> , 2010, 22, 4347-4349.	3.2	16
38	A reference material of single-walled carbon nanotubes: quantitative chirality assessment using optical absorption spectroscopy. <i>RSC Advances</i> , 2015, 5, 102974-102980.	1.7	15
39	Hydrodeoxygenation of Levulinic Acid Dimers on a Zirconia-Supported Ruthenium Catalyst. <i>Catalysts</i> , 2020, 10, 200.	1.6	12
40	III-V nanowires on black silicon and low-temperature growth of self-catalyzed rectangular InAs NWs. <i>Scientific Reports</i> , 2018, 8, 6410.	1.6	11
41	Hybrid Low-Dimensional Carbon Allotropes Formed in Gas Phase. <i>Advanced Functional Materials</i> , 2020, 30, 2005016.	7.8	11
42	High-resolution crystal structure of a 20-kDa superfluorinated gold nanocluster. <i>Nature Communications</i> , 2022, 13, 2607.	5.8	10
43	Thermal conductivity suppression in GaAs-AlAs core-shell nanowire arrays. <i>Nanoscale</i> , 2019, 11, 20507-20513.	2.8	9
44	A structure and activity relationship for single-walled carbon nanotube growth confirmed by <i>in situ</i> observations and modeling. <i>Nanoscale</i> , 2020, 12, 21923-21931.	2.8	9
45	GaAs nanowires grown on Al-doped ZnO buffer layer. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	8
46	Direct observation of nanowire growth and decomposition. <i>Scientific Reports</i> , 2017, 7, 12310.	1.6	8
47	Influence of different synthesis approach on doping behavior of silver nanoparticles onto the iron oxide-silica coreshell surfaces. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	7
48	A semi-grand canonical kinetic Monte Carlo study of single-walled carbon nanotube growth. <i>AIP Advances</i> , 2021, 11, .	0.6	6
49	Molybdenum Disulfide/Double-Wall Carbon Nanotube Mixed-Dimensional Heterostructures. <i>Advanced Materials Interfaces</i> , 2022, 9, .	1.9	6
50	Effect of Electrochemical Oxidation on Physicochemical Properties of Fe-Containing Single-Walled Carbon Nanotubes. <i>ChemElectroChem</i> , 2020, 7, 4136-4143.	1.7	4
51	Direct GaAs Nanowire Growth and Monolithic Light-Emitting Diode Fabrication on Flexible Plastic Substrates. <i>Advanced Photonics Research</i> , 2022, 3, .	1.7	4
52	Preparation of amino acid nanoparticles at varying saturation conditions in an aerosol flow reactor. <i>Journal of Nanoparticle Research</i> , 2012, 14, 1.	0.8	3
53	Minimizing structural deformation of gold nanorods in plasmon-enhanced dye-sensitized solar cells. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	3
54	Thermoelectric Characteristics of InAs Nanowire Networks Directly Grown on Flexible Plastic Substrates. <i>ACS Applied Energy Materials</i> , 0, , .	2.5	3

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55	Carbon Nanotubes: Colors of Single-Wall Carbon Nanotubes (Adv. Mater. 8/2021). Advanced Materials, 2021, 33, 2170060.	11.1	1
56	Can single-walled carbon nanotube diameter be defined by catalyst particle diameter?. Journal of Physical Chemistry C, 2019, 123, .	1.5	1
57	InSb Nanowire Direct Growth on Plastic for Monolithic Flexible Device Fabrication. ACS Applied Electronic Materials, 2022, 4, 539-545.	2.0	1
58	In-Situ Measurements of Single Walled Carbon Nanotube Growth Reveal the Structures of Active and Inactive Catalyst Nanoparticles. Microscopy and Microanalysis, 2019, 25, 1452-1453.	0.2	0