

Hua Jiang

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.

108
papers

6,334
citations

44
h-index

78
g-index

108
ext. papers

6,910
ext. citations

8.3
avg, IF

5.38
L-index

#	Paper	IF	Citations
108	Hydrogen Evolution in Alkaline Medium on Intratube and Surface Decorated PtRu Catalyst. <i>Applied Catalysis B: Environmental</i> , 2022 , 121541	21.8	0
107	Aerosol synthesis of single-walled carbon nanotubes by tuning feeding flow configuration for transparent conducting films. <i>Diamond and Related Materials</i> , 2021 , 108716	3.5	2
106	Designing of low Pt electrocatalyst through immobilization on metal@C support for efficient hydrogen evolution reaction in acidic media. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 896, 115076	4.1	4
105	Rapid industrial scale synthesis of robust carbon nanotube network electrodes for electroanalysis. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 896, 115255	4.1	1
104	Electrochemical Detection of Oxycodone and Its Main Metabolites with Nafion-Coated Single-Walled Carbon Nanotube Electrodes. <i>Analytical Chemistry</i> , 2020 , 92, 8218-8227	7.8	17
103	Single-Walled Carbon Nanotube Network Electrodes for the Detection of Fentanyl Citrate. <i>ACS Applied Nano Materials</i> , 2020 , 3, 1203-1212	5.6	11
102	High-performance transparent conducting films of long single-walled carbon nanotubes synthesized from toluene alone. <i>Nano Research</i> , 2020 , 13, 112-120	10	13
101	Effect of Electrochemical Oxidation on Physicochemical Properties of Fe-Containing Single-Walled Carbon Nanotubes. <i>ChemElectroChem</i> , 2020 , 7, 4136-4143	4.3	2
100	Systematic investigation of the catalyst composition effects on single-walled carbon nanotubes synthesis in floating-catalyst CVD. <i>Carbon</i> , 2019 , 149, 318-327	10.4	27
99	A robust CoxMg1-xO catalyst for predominantly growing (6, 5) single-walled carbon nanotubes. <i>Carbon</i> , 2019 , 153, 389-395	10.4	14
98	Roles of sulfur in floating-catalyst CVD growth of single-walled carbon nanotubes for transparent conductive film applications. <i>Chemical Engineering Journal</i> , 2019 , 378, 122010	14.7	11
97	Growth kinetics of single-walled carbon nanotubes with a (2,) chirality selection. <i>Science Advances</i> , 2019 , 5, eaav9668	14.3	32
96	Can Single-Walled Carbon Nanotube Diameter Be Defined by Catalyst Particle Diameter?. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 30305-30317	3.8	9
95	Floating catalyst CVD synthesis of single walled carbon nanotubes from ethylene for high performance transparent electrodes. <i>Nanoscale</i> , 2018 , 10, 9752-9759	7.7	47
94	High temperature growth of single-walled carbon nanotubes with a narrow chirality distribution by tip-growth mode. <i>Chemical Engineering Journal</i> , 2018 , 341, 344-350	14.7	14
93	Growth modes and chiral selectivity of single-walled carbon nanotubes. <i>Nanoscale</i> , 2018 , 10, 6744-6750	7.7	44
92	Direct Synthesis of Colorful Single-Walled Carbon Nanotube Thin Films. <i>Journal of the American Chemical Society</i> , 2018 , 140, 9797-9800	16.4	40

91	Catalyst Support Effect on the Activity and Durability of Magnetic Nanoparticles: toward Design of Advanced Electrocatalyst for Full Water Splitting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31300-31314	8.5	45
90	Anchoring effect of Ni ²⁺ in stabilizing reduced metallic particles for growing single-walled carbon nanotubes. <i>Carbon</i> , 2018 , 128, 249-256	10.4	25
89	Growth Termination and Multiple Nucleation of Single-Wall Carbon Nanotubes Evidenced by in Situ Transmission Electron Microscopy. <i>ACS Nano</i> , 2017 , 11, 4483-4493	16.7	39
88	Electrochemical Activation of Single-Walled Carbon Nanotubes with Pseudo-Atomic-Scale Platinum for the Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2017 , 7, 3121-3130	13.1	216
87	Direct observation of nanowire growth and decomposition. <i>Scientific Reports</i> , 2017 , 7, 12310	4.9	5
86	Highly conductive and transparent single-walled carbon nanotube thin films from ethanol by floating catalyst chemical vapor deposition. <i>Nanoscale</i> , 2017 , 9, 17601-17609	7.7	34
85	Linking growth mode to lengths of single-walled carbon nanotubes. <i>Carbon</i> , 2017 , 113, 231-236	10.4	58
84	Environmental transmission electron microscopy investigations of Pt-Fe ₂ O ₃ nanoparticles for nucleating carbon nanotubes. <i>Carbon</i> , 2016 , 110, 243-248	10.4	22
83	Single-walled carbon nanotubes coated with ZnO by atomic layer deposition. <i>Nanotechnology</i> , 2016 , 27, 485709	3.4	6
82	FeTiO based catalyst for large-chiral-angle single-walled carbon nanotube growth. <i>Carbon</i> , 2016 , 107, 865-871	10.4	11
81	Highly individual SWCNTs for high performance thin film electronics. <i>Carbon</i> , 2016 , 103, 228-234	10.4	55
80	Maghemite nanoparticles decorated on carbon nanotubes as efficient electrocatalysts for the oxygen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5216-5222	13	55
79	Chiral-selective growth of single-walled carbon nanotubes on Fe-based catalysts using CO as carbon source. <i>Carbon</i> , 2016 , 108, 521-528	10.4	43
78	Key roles of carbon solubility in single-walled carbon nanotube nucleation and growth. <i>Nanoscale</i> , 2015 , 7, 20284-9	7.7	23
77	Dry Functionalization and Doping of Single-Walled Carbon Nanotubes by Ozone. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 27821-27828	3.8	29
76	Single-shell carbon-encapsulated iron nanoparticles: synthesis and high electrocatalytic activity for hydrogen evolution reaction. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 4535-8	16.4	238
75	Insights into chirality distributions of single-walled carbon nanotubes grown on different Co _x Mg _{1-x} O solid solutions. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5883-5889	13	22
74	Coronene encapsulation in single-walled carbon nanotubes: stacked columns, peapods, and nanoribbons. <i>ChemPhysChem</i> , 2014 , 15, 1660-5	3.2	24

73	Hybrid carbon source for single-walled carbon nanotube synthesis by aerosol CVD method. <i>Carbon</i> , 2014 , 78, 130-136	10.4	44
72	Aerosol feeding of catalyst precursor for CNT synthesis and highly conductive and transparent film fabrication. <i>Chemical Engineering Journal</i> , 2014 , 255, 134-140	14.7	51
71	In situ study of noncatalytic metal oxide nanowire growth. <i>Nano Letters</i> , 2014 , 14, 5810-3	11.5	48
70	Improvement of the mechanical properties of single-walled carbon nanotube networks by carbon plasma coatings. <i>Carbon</i> , 2013 , 53, 50-61	10.4	10
69	Reinforcing randomly oriented transparent freestanding single-walled carbon nanotube films. <i>Carbon</i> , 2013 , 62, 513-516	10.4	3
68	Synergistic effects in FeCu bimetallic catalyst for low temperature growth of single-walled carbon nanotubes. <i>Carbon</i> , 2013 , 52, 590-594	10.4	25
67	Chirality-dependent reactivity of individual single-walled carbon nanotubes. <i>Small</i> , 2013 , 9, 1379-86	11	33
66	Chiral-selective growth of single-walled carbon nanotubes on lattice-mismatched epitaxial cobalt nanoparticles. <i>Scientific Reports</i> , 2013 , 3, 1460	4.9	149
65	Performance and early applications of a versatile double aberration-corrected JEOL-2200FS FEG TEM/STEM at Aalto University. <i>Micron</i> , 2012 , 43, 545-550	2.3	12
64	Direct synthesis of high-quality single-walled carbon nanotubes by the physical nucleation of iron nanoparticles in an atmospheric pressure carbon monoxide flow. <i>Carbon</i> , 2012 , 50, 5343-5345	10.4	4
63	Diameter and chiral angle distribution dependencies on the carbon precursors in surface-grown single-walled carbon nanotubes. <i>Nanoscale</i> , 2012 , 4, 7394-8	7.7	48
62	Heteroepitaxial growth of single-walled carbon nanotubes from boron nitride. <i>Scientific Reports</i> , 2012 , 2, 971	4.9	14
61	Synthesis of ZnO tetrapods for flexible and transparent UV sensors. <i>Nanotechnology</i> , 2012 , 23, 095502	3.4	36
60	Growth Mechanism of Single-Walled Carbon Nanotubes on Iron-Copper Catalyst and Chirality Studies by Electron Diffraction. <i>Chemistry of Materials</i> , 2012 , 24, 1796-1801	9.6	59
59	Hydrogen-Driven Collapse of C60 Inside Single-Walled Carbon Nanotubes. <i>Angewandte Chemie</i> , 2012 , 124, 4511-4515	3.6	0
58	Hydrogen-driven collapse of C60 inside single-walled carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4435-9	16.4	7
57	Blue, green and red emissive silver nanoclusters formed in organic solvents. <i>Nanoscale</i> , 2012 , 4, 4434-7	7.7	82
56	Chiral-selective growth of single-walled carbon nanotubes on stainless steel wires. <i>Carbon</i> , 2012 , 50, 4294-4297	10.4	27

55	Nitrogen-Doped Single-Walled Carbon Nanotube Thin Films Exhibiting Anomalous Sheet Resistances. <i>Chemistry of Materials</i> , 2011 , 23, 2201-2208	9.6	41
54	Controlled Synthesis of Single-Walled Carbon Nanotubes in an Aerosol Reactor. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7309-7318	3.8	30
53	Synthesis of graphene nanoribbons encapsulated in single-walled carbon nanotubes. <i>Nano Letters</i> , 2011 , 11, 4352-6	11.5	148
52	Hydrogenation, purification, and unzipping of carbon nanotubes by reaction with molecular hydrogen: road to graphene nanoribbons. <i>ACS Nano</i> , 2011 , 5, 5132-40	16.7	97
51	Low temperature growth of SWNTs on a nickel catalyst by thermal chemical vapor deposition. <i>Nano Research</i> , 2011 , 4, 334-342	10	39
50	Tailoring the diameter of single-walled carbon nanotubes for optical applications. <i>Nano Research</i> , 2011 , 4, 807-815	10	67
49	Selective growth of SWNTs on partially reduced monometallic cobalt catalyst. <i>Chemical Communications</i> , 2011 , 47, 1219-21	5.8	59
48	The use of NH ₃ to promote the production of large-diameter single-walled carbon nanotubes with a narrow (n,m) distribution. <i>Journal of the American Chemical Society</i> , 2011 , 133, 1224-7	16.4	70
47	Growth of single-walled carbon nanotubes with controlled diameters and lengths by an aerosol method. <i>Carbon</i> , 2011 , 49, 4636-4643	10.4	47
46	Temperature Dependent Raman Spectra of Carbon Nanobuds. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13540-13545	3.8	20
45	Analysis of the Size Distribution of Single-Walled Carbon Nanotubes Using Optical Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 1143-1148	6.4	51
44	Selective Covalent Functionalization of Carbon Nanobuds. <i>Chemistry of Materials</i> , 2010 , 22, 4347-4349	9.6	13
43	Predominant (6,5) single-walled carbon nanotube growth on a copper-promoted iron catalyst. <i>Journal of the American Chemical Society</i> , 2010 , 132, 13994-6	16.4	148
42	Aerosol-synthesized SWCNT networks with tunable conductivity and transparency by a dry transfer technique. <i>Nano Letters</i> , 2010 , 10, 4349-55	11.5	315
41	Synthesis of copolymer-stabilized silver nanoparticles for coating materials. <i>Colloid and Polymer Science</i> , 2010 , 288, 543-553	2.4	30
40	Enhanced emission of silver nanoclusters through quantitative phase transfer. <i>ChemPhysChem</i> , 2010 , 11, 3100-4	3.2	37
39	Interfacial engineering by proteins: exfoliation and functionalization of graphene by hydrophobins. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4946-9	16.4	146
38	Mechanistic investigations of single-walled carbon nanotube synthesis by ferrocene vapor decomposition in carbon monoxide. <i>Carbon</i> , 2010 , 48, 380-388	10.4	70

37	Nitrogen-doped SWCNT synthesis using ammonia and carbon monoxide. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2726-2729	1.3	15
36	Color tunability and electrochemiluminescence of silver nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2122-5	16.4	333
35	Simple and rapid synthesis of β -Fe ₂ O ₃ nanowires under ambient conditions. <i>Nano Research</i> , 2009 , 2, 373-379	10	191
34	High quality SWCNT synthesis in the presence of NH ₃ using a vertical flow aerosol reactor. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2507-2510	1.3	14
33	CVD synthesis and radial deformations of large diameter single-walled CNTs. <i>Current Applied Physics</i> , 2009 , 9, 301-305	2.6	24
32	Synthesis of boron nitride multi-walled nanotubes by laser ablation technique. <i>Laser Physics</i> , 2009 , 19, 1198-1200	1.2	19
31	Incremental Variation in the Number of Carbon Nanotube Walls with Growth Temperature. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 2212-2218	3.8	22
30	A novel method for metal oxide nanowire synthesis. <i>Nanotechnology</i> , 2009 , 20, 165603	3.4	99
29	Mechanistic investigation of ZnO nanowire growth. <i>Applied Physics Letters</i> , 2009 , 95, 183114	3.4	34
28	Synthesis and characterization of copper sulfide nanocrystallites with low sintering temperatures. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3200		50
27	Combined Raman spectroscopy and transmission electron microscopy studies of a NanoBud structure. <i>Journal of the American Chemical Society</i> , 2008 , 130, 7188-9	16.4	34
26	Charging of Aerosol Products during Ferrocene Vapor Decomposition in N ₂ and CO Atmospheres. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 5762-5769	3.8	22
25	CVD Synthesis of Hierarchical 3D MWCNT/Carbon-Fiber Nanostructures. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-7	3.2	13
24	The local study of a nanoBud structure. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2047-2050	1.3	12
23	Controlled hybrid nanostructures through protein-mediated noncovalent functionalization of carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6446-9	16.4	65
22	Controlled Hybrid Nanostructures through Protein-Mediated Noncovalent Functionalization of Carbon Nanotubes. <i>Angewandte Chemie</i> , 2007 , 119, 6566-6569	3.6	9
21	Investigations of NanoBud formation. <i>Chemical Physics Letters</i> , 2007 , 446, 109-114	2.5	88
20	Unambiguous atomic structural determination of single-walled carbon nanotubes by electron diffraction. <i>Carbon</i> , 2007 , 45, 662-667	10.4	76

19	A novel hybrid carbon material. <i>Nature Nanotechnology</i> , 2007 , 2, 156-61	28.7	326
18	Studies on mechanism of single-walled carbon nanotube formation. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 1233-46	1.3	53
17	Robust Bessel-function-based method for determination of the (n,m) indices of single-walled carbon nanotubes by electron diffraction. <i>Physical Review B</i> , 2006 , 74,	3.3	21
16	Spontaneous Charging of Single-Walled Carbon Nanotubes: A Novel Strategy for the Selective Substrate Deposition of Individual Tubes at Ambient Temperature. <i>Chemistry of Materials</i> , 2006 , 18, 5052-5057 ¹⁹	9.6	19
15	Optical properties of thermally responsive amphiphilic gold nanoparticles protected with polymers. <i>Langmuir</i> , 2006 , 22, 794-801	4	66
14	Single-walled carbon nanotube charging during bundling process in the gas phase. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3234-3237	1.3	8
13	Effect of CO ₂ and H ₂ O on the synthesis of single-walled CNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3087-3090	1.3	3
12	Novel catalyst particle production method for CVD growth of single- and double-walled carbon nanotubes. <i>Carbon</i> , 2006 , 44, 1604-1608	10.4	16
11	Spontaneous charging of single-walled carbon nanotubes in the gas phase. <i>Carbon</i> , 2006 , 44, 2099-2101	10.4	6
10	An essential role of CO ₂ and H ₂ O during single-walled CNT synthesis from carbon monoxide. <i>Chemical Physics Letters</i> , 2006 , 417, 179-184	2.5	128
9	Single-walled carbon nanotube synthesis using ferrocene and iron pentacarbonyl in a laminar flow reactor. <i>Chemical Engineering Science</i> , 2006 , 61, 4393-4402	4.4	234
8	Carbon nanotube synthesis from alcohols by a novel aerosol method. <i>Journal of Nanoparticle Research</i> , 2006 , 8, 465-475	2.3	49
7	Amphiphilic Gold Nanoparticles Grafted with Poly(N-isopropylacrylamide) and Polystyrene. <i>Macromolecules</i> , 2005 , 38, 2918-2926	5.5	143
6	On-line detection of single-walled carbon nanotube formation during aerosol synthesis methods. <i>Carbon</i> , 2005 , 43, 2066-2074	10.4	74
5	Correlation between catalyst particle and single-walled carbon nanotube diameters. <i>Carbon</i> , 2005 , 43, 2251-2257	10.4	204
4	A novel aerosol method for single walled carbon nanotube synthesis. <i>Chemical Physics Letters</i> , 2005 , 402, 227-232	2.5	114
3	Synthesis of Gold Nanoparticles Grafted with a Thermoresponsive Polymer by Surface-Induced Reversible-Addition-Fragmentation Chain-Transfer Polymerization. <i>Langmuir</i> , 2003 , 19, 3499-3504	4	266
2	Preparation of Poly(N-isopropylacrylamide)-Monolayer-Protected Gold Clusters: Synthesis Methods, Core Size, and Thickness of Monolayer. <i>Macromolecules</i> , 2003 , 36, 4526-4533	5.5	162

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