

Hua Jiang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/11995712/hua-jiang-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Color tunability and electrochemiluminescence of silver nanoclusters. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2122-5	16.4	333
107	A novel hybrid carbon material. <i>Nature Nanotechnology</i> , 2007 , 2, 156-61	28.7	326
106	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
105	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
104	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
103	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
102	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
101	Correlation between catalyst particle and single-walled carbon nanotube diameters. <i>Carbon</i> , 2005 , 43, 2251-2257	10.4	204
100	Simple and rapid synthesis of Fe ₂ O ₃ nanowires under ambient conditions. <i>Nano Research</i> , 2009 , 2, 373-379	10	191
99	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
98	Chiral-selective growth of single-walled carbon nanotubes on lattice-mismatched epitaxial cobalt nanoparticles. <i>Scientific Reports</i> , 2013 , 3, 1460	4.9	149
97	Synthesis of graphene nanoribbons encapsulated in single-walled carbon nanotubes. <i>Nano Letters</i> , 2011 , 11, 4352-6	11.5	148
96	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
95	Interfacial engineering by proteins: exfoliation and functionalization of graphene by hydrophobins. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 4946-9	16.4	146
94	Amphiphilic Gold Nanoparticles Grafted with Poly(N-isopropylacrylamide) and Polystyrene. <i>Macromolecules</i> , 2005 , 38, 2918-2926	5.5	143
93	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
92	A novel aerosol method for single walled carbon nanotube synthesis. <i>Chemical Physics Letters</i> , 2005 , 402, 227-232	2.5	114

91	A novel method for metal oxide nanowire synthesis. <i>Nanotechnology</i> , 2009 , 20, 165603	3.4	99
90	Hydrogenation, purification, and unzipping of carbon nanotubes by reaction with molecular hydrogen: road to graphane nanoribbons. <i>ACS Nano</i> , 2011 , 5, 5132-40	16.7	97
89	Investigations of NanoBud formation. <i>Chemical Physics Letters</i> , 2007 , 446, 109-114	2.5	88
88	Blue, green and red emissive silver nanoclusters formed in organic solvents. <i>Nanoscale</i> , 2012 , 4, 4434-7	7.7	82
87	Unambiguous atomic structural determination of single-walled carbon nanotubes by electron diffraction. <i>Carbon</i> , 2007 , 45, 662-667	10.4	76
86	On-line detection of single-walled carbon nanotube formation during aerosol synthesis methods. <i>Carbon</i> , 2005 , 43, 2066-2074	10.4	74
85	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
84	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
83	Tailoring the diameter of single-walled carbon nanotubes for optical applications. <i>Nano Research</i> , 2011 , 4, 807-815	10	67
82	Optical properties of thermally responsive amphiphilic gold nanoparticles protected with polymers. <i>Langmuir</i> , 2006 , 22, 794-801	4	66
81	Controlled hybrid nanostructures through protein-mediated noncovalent functionalization of carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 6446-9	16.4	65
80	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
79	Selective growth of SWNTs on partially reduced monometallic cobalt catalyst. <i>Chemical Communications</i> , 2011 , 47, 1219-21	5.8	59
78	Linking growth mode to lengths of single-walled carbon nanotubes. <i>Carbon</i> , 2017 , 113, 231-236	10.4	58
77	Highly individual SWCNTs for high performance thin film electronics. <i>Carbon</i> , 2016 , 103, 228-234	10.4	55
76	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
75	Studies on mechanism of single-walled carbon nanotube formation. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 1233-46	1.3	53
74	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

73	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
72	Synthesis and characterization of copper sulfide nanocrystallites with low sintering temperatures. <i>Journal of Materials Chemistry</i> , 2008 , 18, 3200		50
71	Carbon nanotube synthesis from alcohols by a novel aerosol method. <i>Journal of Nanoparticle Research</i> , 2006 , 8, 465-475	2.3	49
70	In situ study of noncatalytic metal oxide nanowire growth. <i>Nano Letters</i> , 2014 , 14, 5810-3	11.5	48
69	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
68	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
67	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
66	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
65	Growth modes and chiral selectivity of single-walled carbon nanotubes. <i>Nanoscale</i> , 2018 , 10, 6744-6750	7.7	44
64	Hybrid carbon source for single-walled carbon nanotube synthesis by aerosol CVD method. <i>Carbon</i> , 2014 , 78, 130-136	10.4	44
63	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
62	Nitrogen-Doped Single-Walled Carbon Nanotube Thin Films Exhibiting Anomalous Sheet Resistances. <i>Chemistry of Materials</i> , 2011 , 23, 2201-2208	9.6	41
61	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
60	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
59	Low temperature growth of SWNTs on a nickel catalyst by thermal chemical vapor deposition. <i>Nano Research</i> , 2011 , 4, 334-342	10	39
58	Enhanced emission of silver nanoclusters through quantitative phase transfer. <i>ChemPhysChem</i> , 2010 , 11, 3100-4	3.2	37
57	Synthesis of ZnO tetrapods for flexible and transparent UV sensors. <i>Nanotechnology</i> , 2012 , 23, 095502	3.4	36
56	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

55	Mechanistic investigation of ZnO nanowire growth. <i>Applied Physics Letters</i> , 2009 , 95, 183114	3.4	34
54	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
53	Chirality-dependent reactivity of individual single-walled carbon nanotubes. <i>Small</i> , 2013 , 9, 1379-86	11	33
52	Growth kinetics of single-walled carbon nanotubes with a (2,) chirality selection. <i>Science Advances</i> , 2019 , 5, eaav9668	14.3	32
51	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
50	Synthesis of copolymer-stabilized silver nanoparticles for coating materials. <i>Colloid and Polymer Science</i> , 2010 , 288, 543-553	2.4	30
49	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
48	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
47	Chiral-selective growth of single-walled carbon nanotubes on stainless steel wires. <i>Carbon</i> , 2012 , 50, 4294-4297	10.4	27
46	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
45	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
44	Coronene encapsulation in single-walled carbon nanotubes: stacked columns, peapods, and nanoribbons. <i>ChemPhysChem</i> , 2014 , 15, 1660-5	3.2	24
43	CVD synthesis and radial deformations of large diameter single-walled CNTs. <i>Current Applied Physics</i> , 2009 , 9, 301-305	2.6	24
42	Key roles of carbon solubility in single-walled carbon nanotube nucleation and growth. <i>Nanoscale</i> , 2015 , 7, 20284-9	7.7	23
41	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
40	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
39	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
38	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

37	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
36	Temperature Dependent Raman Spectra of Carbon Nanobuds. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 13540-13545	3.8	20
35	Synthesis of boron nitride multi-walled nanotubes by laser ablation technique. <i>Laser Physics</i> , 2009 , 19, 1198-1200	1.2	19
34	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
33	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
32	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
31	Nitrogen-doped SWCNT synthesis using ammonia and carbon monoxide. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2726-2729	1.3	15
30	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
29	A robust CoxMg1-xO catalyst for predominantly growing (6, 5) single-walled carbon nanotubes. <i>Carbon</i> , 2019 , 153, 389-395	10.4	14
28	Heteroepitaxial growth of single-walled carbon nanotubes from boron nitride. <i>Scientific Reports</i> , 2012 , 2, 971	4.9	14
27	High quality SWCNT synthesis in the presence of NH3 using a vertical flow aerosol reactor. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2507-2510	1.3	14
26	Selective Covalent Functionalization of Carbon Nanobuds. <i>Chemistry of Materials</i> , 2010 , 22, 4347-4349	9.6	13
25	CVD Synthesis of Hierarchical 3D MWCNT/Carbon-Fiber Nanostructures. <i>Journal of Nanomaterials</i> , 2008 , 2008, 1-7	3.2	13
24	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
23	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
22	The local study of a nanoBud structure. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2047-2050	1.3	12
21	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
20	FeTiO based catalyst for large-chiral-angle single-walled carbon nanotube growth. <i>Carbon</i> , 2016 , 107, 865-871	10.4	11

19	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
18	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
17	Controlled Hybrid Nanostructures through Protein-Mediated Noncovalent Functionalization of Carbon Nanotubes. <i>Angewandte Chemie</i> , 2007 , 119, 6566-6569	3.6	9
16	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
15	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
14	Hydrogen-driven collapse of C60 inside single-walled carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 4435-9	16.4	7
13	Single-walled carbon nanotubes coated with ZnO by atomic layer deposition. <i>Nanotechnology</i> , 2016 , 27, 485709	3.4	6
12	Spontaneous charging of single-walled carbon nanotubes in the gas phase. <i>Carbon</i> , 2006 , 44, 2099-2101	10.4	6
11	Direct observation of nanowire growth and decomposition. <i>Scientific Reports</i> , 2017 , 7, 12310	4.9	5
10	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
9	Large-Diameter Carbon Nanotube Transparent Conductor Overcoming Performance Field Tradeoff. <i>Advanced Functional Materials</i> , 2013 , 23, 2103397	15.6	4
8	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
7	Reinforcing randomly oriented transparent freestanding single-walled carbon nanotube films. <i>Carbon</i> , 2013 , 62, 513-516	10.4	3
6	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
5	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
4	Effect of Electrochemical Oxidation on Physicochemical Properties of Fe-Containing Single-Walled Carbon Nanotubes. <i>ChemElectroChem</i> , 2020 , 7, 4136-4143	4.3	2
3	Rapid industrial scale synthesis of robust carbon nanotube network electrodes for electroanalysis. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 896, 115255	4.1	1
2	Hydrogen-Driven Collapse of C60 Inside Single-Walled Carbon Nanotubes. <i>Angewandte Chemie</i> , 2012 , 124, 4511-4515	3.6	0

- 1 Hydrogen Evolution in Alkaline Medium on Intratube and Surface Decorated PtRu Catalyst. *Applied Catalysis B: Environmental*, **2022**, 121541 21.8 ○