Huaping Liu

List of Publications by Year
in descending order

47 papers	2,315 citations	335018 20 h-index	211087 45 g-index
49 all docs	49 docs citations	49 times ranked	2876 citing authors

#	Article	IF	Citations
1	Highâ€Efficiency Separation of Nearâ€Zigzag Singleâ€Chirality Carbon Nanotubes by Gel Chromatography. Physica Status Solidi (B): Basic Research, 2025, 262, .	1.5	0
2	Photoresist Removal by an Aluminum Protective Layer to Improve the Performance of Carbon Nanotube Thin-Film Transistors. ACS Applied Nano Materials, 2025, 8, 486-494.	5.4	0
3	Surfactant Micelleâ€Driven Highâ€Efficiency and Highâ€Resolution Length Separation of Carbon Nanotubes for Electronic Applications. Small, 2024, 20, .	11.6	0
4	An efficient approach toward production of near-zigzag single-chirality carbon nanotubes. Science Advances, 2024, 10, .	11.3	2
5	Length-Dependent Enantioselectivity of Carbon Nanotubes by Gel Chromatography. ACS Nano, 2023, 17, 8393-8402.	15.4	5
6	Preparing high-concentration individualized carbon nanotubes for industrial separation of multiple single-chirality species. Nature Communications, 2023, 14, .	14.1	15
7	Temperature-dependent selective nucleation of single-walled carbon nanotubes from stabilized catalyst nanoparticles. Chemical Engineering Journal, 2022, 431, 133487.	11.9	18
8	Separation of Metallic and Semiconducting Single-Wall Carbon Nanotubes Using Sodium Hyodeoxycholate Surfactant. Journal of Physical Chemistry C, 2022, 126, 3787-3795.	3.2	19
9	Recent Advances in Structure Separation of Singleâ€Wall Carbon Nanotubes and Their Application in Optics, Electronics, and Optoelectronics. Advanced Science, 2022, 9, .	12.8	66
10	Use of Ambipolar Dual-Gate Carbon Nanotube Field-Effect Transistor to Configure Exclusive-OR Gate. ACS Omega, 2022, 7, 8819-8823.	4.4	3
11	Floating Gate Carbon Nanotube Dual-Gate Field-Effect Transistor for Reconfigurable AND/OR Logic Gates. ACS Applied Electronic Materials, 2022, 4, 1684-1691.	4.7	14
12	Bulk growth and separation of single-walled carbon nanotubes from rhenium catalyst. Nano Research, 2022, 15, 5775-5780.	8.5	5
13	Electronic Type and Diameter Dependence of the Intersubband Plasmons of Singleâ€Wall Carbon Nanotubes. Advanced Functional Materials, 2022, 32, .	17.1	7
14	Preparation of isolated semiconducting single-wall carbon nanotubes by oxygen-assisted floating catalyst chemical vapor deposition. Chemical Engineering Journal, 2022, 450, 137861.	11.9	10
15	Simultaneously enhanced tenacity, rupture work, and thermal conductivity of carbon nanotube fibers by raising effective tube portion. Science Advances, 2022, 8, .	11.3	20
16	Submilligram-scale separation of near-zigzag single-chirality carbon nanotubes by temperature controlling a binary surfactant system. Science Advances, 2021, 7, .	11.3	43
17	Photoluminescence Quantum Yield of Single-Wall Carbon Nanotubes Corrected for the Photon Reabsorption Effect. Nano Letters, 2020, 20, 410-417.	8.8	33
18	Quantitative analysis of the intertube coupling effect on the photoluminescence characteristics of distinct (n, m) carbon nanotubes dispersed in solution. Nano Research, 2020, 13, 1149-1155.	8.5	4

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19	Quantum-Memory-Enabled Ultrafast Optical Switching in Carbon Nanotubes. ACS Photonics, 2020, 7, 1382-1387.	7.0	13
20	Ultrafast wafer-scale assembly of uniform and highly dense semiconducting carbon nanotube films for optoelectronics. Carbon, 2020, 163, 370-378.	10.4	18
21	Quantitative analysis of the effect of reabsorption on the Raman spectroscopy of distinct (<i>n</i>,) Tj ETQq1 1 0.784314 rgBT /Overlo	2.6	5
22	Mass Production of High-Purity Semiconducting Carbon Nanotubes by Hydrochloric Acid Assisted Gel Chromatography. ACS Applied Nano Materials, 2019, 2, 343-350.	5.4	18
23	Improving Luttinger-liquid plasmons in carbon nanotubes by chemical doping. Nanoscale, 2018, 10, 6288-6293.	5.1	7
24	Detecting and Tuning the Interactions between Surfactants and Carbon Nanotubes for Their Highâ€Efficiency Structure Separation. Advanced Materials Interfaces, 2018, 5, .	4.2	43
25	Microcavity-Controlled Chirality-Sorted Carbon Nanotube Film Infrared Light Emitters. ACS Photonics, 2017, 4, 435-442.	7.0	17
26	Carbon nanotube-based three-dimensional monolithic optoelectronic integrated system. Nature Communications, 2017, 8, .	14.1	69
27	High-performance and compact-designed flexible thermoelectric modules enabled by a reticulate carbon nanotube architecture. Nature Communications, 2017, 8, .	14.1	287
28	Asymmetric Light Excitation for Photodetectors Based on Nanoscale Semiconductors. ACS Nano, 2017, 11, 549-557.	15.4	11
29	Electrically driven monolithic subwavelength plasmonic interconnect circuits. Science Advances, 2017, 3, .	11.3	38
30	Structure Sorting of Largeâ€Diameter Carbon Nanotubes by NaOH Tuning the Interactions between Nanotubes and Gel. Advanced Functional Materials, 2017, 27, .	17.1	28
31	Recent progress on the structure separation of single-wall carbon nanotubes. Nanotechnology, 2017, 28, 452001.	2.7	24
32	Ultrahighâ€Powerâ€Factor Carbon Nanotubes and an Ingenious Strategy for Thermoelectric Performance Evaluation. Small, 2016, 12, 3407-3414.	11.6	77
33	Microcavity-Integrated Carbon Nanotube Photodetectors. ACS Nano, 2016, 10, 6963-6971.	15.4	37
34	Epidermal Supercapacitor with High Performance. Advanced Functional Materials, 2016, 26, 8178-8184.	17.1	57
35	Solid state carbon nanotube device for controllable trion electroluminescence emission. Nanoscale, 2016, 8, 6761-6769.	5.1	20
36	Exciton splitting in semiconducting carbon nanotubes in ultrahigh magnetic fields above 300 T. Physical Review B, 2015, 91, .	3.2	6

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37	Optical visualization and polarized light absorption of the single-wall carbon nanotube to verify intrinsic thermal applications. Light: Science and Applications, 2015, 4, e318-e318.	16.0	46
38	Ethanol-assisted gel chromatography for single-chirality separation of carbon nanotubes. Nanoscale, 2015, 7, 16273-16281.	5.1	15
39	Temperature dependent Raman spectra of isolated suspended single-walled carbon nanotubes. Nanoscale, 2014, 6, 3949-3953.	5.1	34
40	Optical Isomer Separation of Single-Chirality Carbon Nanotubes Using Gel Column Chromatography. Nano Letters, 2014, 14, 6237-6243.	8.8	69
41	Ultrafast Generation of Fundamental and Multiple-Order Phonon Excitations in Highly Enriched (6,5) Single-Wall Carbon Nanotubes. Nano Letters, 2014, 14, 1426-1432.	8.8	31
42	Relative Ordering between Bright and Dark Excitons in Single-walled Carbon Nanotubes. Scientific Reports, 2014, 4, .	3.7	13
43	High-Efficiency Single-Chirality Separation of Carbon Nanotubes Using Temperature-Controlled Gel Chromatography. Nano Letters, 2013, 13, 1996-2003.	8.8	151
44	Exciton-phonon bound complex in single-walled carbon nanotubes revealed by high-field magneto-optical spectroscopy. Applied Physics Letters, 2013, 103, 233101.	3.2	5
45	Large-scale single-chirality separation of single-wall carbon nanotubes by simple gel chromatography. Nature Communications, 2011, 2, .	14.1	788
46	Oneâ€step separation of highâ€purity (6,5) carbon nanotubes by multicolumn gel chromatography. Physica Status Solidi (B): Basic Research, 2011, 248, 2524-2527.	1.5	26
47	Diameter-Selective Metal/Semiconductor Separation of Single-wall Carbon Nanotubes by Agarose Gel. Journal of Physical Chemistry C, 2010, 114, 9270-9276.	3.2	95