Ming Zheng

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79 8,849 39 94 g-index

95 9,833 14 6.11 L-index

#	Paper	IF	Citations
79	DNA-assisted dispersion and separation of carbon nanotubes. <i>Nature Materials</i> , 2003 , 2, 338-42	27	2321
78	Structure-based carbon nanotube sorting by sequence-dependent DNA assembly. <i>Science</i> , 2003 , 302, 1545-8	33.3	1399
77	DNA sequence motifs for structure-specific recognition and separation of carbon nanotubes. <i>Nature</i> , 2009 , 460, 250-3	50.4	882
76	Solution redox chemistry of carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2004 , 126, 156	4 9 6.4	276
75	Spontaneous partition of carbon nanotubes in polymer-modified aqueous phases. <i>Journal of the American Chemical Society</i> , 2013 , 135, 6822-5	16.4	244
74	High-resolution length sorting and purification of DNA-wrapped carbon nanotubes by size-exclusion chromatography. <i>Analytical Chemistry</i> , 2005 , 77, 6225-8	7.8	215
73	Enrichment of single chirality carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 6084-5	16.4	205
72	Understanding the Nature of the DNA-Assisted Separation of Single-Walled Carbon Nanotubes Using Fluorescence and Raman Spectroscopy. <i>Nano Letters</i> , 2004 , 4, 543-550	11.5	175
71	Isolation of specific small-diameter single-wall carbon nanotube species via aqueous two-phase extraction. <i>Advanced Materials</i> , 2014 , 26, 2800-4	24	174
70	Chirality-controlled synthesis of single-wall carbon nanotubes using vapour-phase epitaxy. <i>Nature Communications</i> , 2012 , 3, 1199	17.4	137
69	Chirality Pure Carbon Nanotubes: Growth, Sorting, and Characterization. <i>Chemical Reviews</i> , 2020 , 120, 2693-2758	68.1	128
68	A DNA-based approach to the carbon nanotube sorting problem. <i>Nano Research</i> , 2008 , 1, 185-194	10	127
67	DNA-controlled partition of carbon nanotubes in polymer aqueous two-phase systems. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10383-92	16.4	124
66	Theory of structure-based carbon nanotube separations by ion-exchange chromatography of DNA/CNT hybrids. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 2559-66	3.4	124
65	Chirality-Controlled Synthesis and Applications of Single-Wall Carbon Nanotubes. <i>ACS Nano</i> , 2017 , 11, 31-53	16.7	120
64	Differentiating Left- and Right-Handed Carbon Nanotubes by DNA. <i>Journal of the American Chemical Society</i> , 2016 , 138, 16677-16685	16.4	120
63	Racemic single-walled carbon nanotubes exhibit circular dichroism when wrapped with DNA. <i>Journal of the American Chemical Society</i> , 2006 , 128, 9004-5	16.4	118

(2013-2007)

62	Fluorescence efficiency of individual carbon nanotubes. <i>Nano Letters</i> , 2007 , 7, 3698-703	11.5	111
61	Isolation of >1 nm Diameter Single-Wall Carbon Nanotube Species Using Aqueous Two-Phase Extraction. <i>ACS Nano</i> , 2015 , 9, 5377-90	16.7	104
60	Recognition ability of DNA for carbon nanotubes correlates with their binding affinity. <i>Langmuir</i> , 2011 , 27, 8282-93	4	74
59	Redox sorting of carbon nanotubes. <i>Nano Letters</i> , 2015 , 15, 1642-6	11.5	73
58	Evolution of DNA sequences toward recognition of metallic armchair carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12998-3001	16.4	71
57	Analyzing surfactant structures on length and chirality resolved (6,5) single-wall carbon nanotubes by analytical ultracentrifugation. <i>ACS Nano</i> , 2013 , 7, 3373-87	16.7	68
56	Chirality-dependent vapor-phase epitaxial growth and termination of single-wall carbon nanotubes. <i>Nano Letters</i> , 2013 , 13, 4416-21	11.5	67
55	Chiral index dependence of the G+ and G- Raman modes in semiconducting carbon nanotubes. <i>ACS Nano</i> , 2012 , 6, 904-11	16.7	66
54	DNA-directed nanofabrication of high-performance carbon nanotube field-effect transistors. <i>Science</i> , 2020 , 368, 878-881	33.3	56
53	Optical characterizations and electronic devices of nearly pure (10,5) single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2009 , 131, 2454-5	16.4	56
52	Molecular-crowding-induced clustering of DNA-wrapped carbon nanotubes for facile length fractionation. <i>ACS Nano</i> , 2011 , 5, 8258-66	16.7	54
51	Label-Free and Ultrasensitive Electrochemical DNA Biosensor Based on Urchinlike Carbon Nanotube-Gold Nanoparticle Nanoclusters. <i>Analytical Chemistry</i> , 2020 , 92, 4780-4787	7.8	52
50	A scanning probe microscopy based assay for single-walled carbon nanotube metallicity. <i>Nano Letters</i> , 2009 , 9, 1668-72	11.5	49
49	Sorting Carbon Nanotubes. <i>Topics in Current Chemistry</i> , 2017 , 375, 13	7.2	48
48	An optical nanoreporter of endolysosomal lipid accumulation reveals enduring effects of diet on hepatic macrophages in vivo. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	47
47	Narrow-band single-photon emission through selective aryl functionalization of zigzag carbon nanotubes. <i>Nature Chemistry</i> , 2018 , 10, 1089-1095	17.6	47
46	Precise pitch-scaling of carbon nanotube arrays within three-dimensional DNA nanotrenches. <i>Science</i> , 2020 , 368, 874-877	33.3	46
45	Fundamental optical processes in armchair carbon nanotubes. <i>Nanoscale</i> , 2013 , 5, 1411-39	7.7	46

44	Violation of the condon approximation in semiconducting carbon nanotubes. ACS Nano, 2011, 5, 5233-4	1 16.7	45
43	Separation of Specific Single-Enantiomer Single-Wall Carbon Nanotubes in the Large-Diameter Regime. <i>ACS Nano</i> , 2020 , 14, 948-963	16.7	44
42	Photoinduced charge transfer mediated by DNA-wrapped carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7702-3	16.4	43
41	High-resolution length fractionation of surfactant-dispersed carbon nanotubes. <i>Analytical Chemistry</i> , 2013 , 85, 1382-8	7.8	42
40	Single-step total fractionation of single-wall carbon nanotubes by countercurrent chromatography. <i>Analytical Chemistry</i> , 2014 , 86, 3980-4	7.8	38
39	Intensity Ratio of Resonant Raman Modes for (n,m) Enriched Semiconducting Carbon Nanotubes. <i>ACS Nano</i> , 2016 , 10, 5252-9	16.7	35
38	Directed Assembly of Single Wall Carbon Nanotube Field Effect Transistors. ACS Nano, 2016, 10, 2975-8	116.7	34
37	Measurement of Electrostatic Properties of DNA-Carbon Nanotube Hybrids by Capillary Electrophoresis. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13616-13621	3.8	33
36	A Low Energy Route to DNA-Wrapped Carbon Nanotubes via Replacement of Bile Salt Surfactants. <i>Analytical Chemistry</i> , 2017 , 89, 10496-10503	7.8	30
35	Protective roles of single-wall carbon nanotubes in ultrasonication-induced DNA base damage. <i>Small</i> , 2013 , 9, 205-8	11	30
34	Directed Assembly of End-Functionalized Single Wall Carbon Nanotube Segments. <i>Nano Letters</i> , 2015 , 15, 6547-52	11.5	29
33	A facile and low-cost length sorting of single-wall carbon nanotubes by precipitation and applications for thin-film transistors. <i>Nanoscale</i> , 2016 , 8, 3467-73	7.7	29
32	Organizing End-Site-Specific SWCNTs in Specific Loci Using DNA. <i>Journal of the American Chemical Society</i> , 2019 , 141, 11923-11928	16.4	27
31	Mapping Structure-Property Relationships of Organic Color Centers. <i>CheM</i> , 2018 , 4, 2180-2191	16.2	26
30	Controlled formation of carbon nanotube junctions via linker-induced assembly in aqueous solution. <i>Journal of the American Chemical Society</i> , 2013 , 135, 8440-3	16.4	26
29	Solution-Processable Carbon Nanoelectrodes for Single-Molecule Investigations. <i>Journal of the American Chemical Society</i> , 2016 , 138, 2905-8	16.4	22
28	Toward Complete Resolution of DNA/Carbon Nanotube Hybrids by Aqueous Two-Phase Systems. Journal of the American Chemical Society, 2019 , 141, 20177-20186	16.4	21
27	Asymmetric excitation profiles in the resonance Raman response of armchair carbon nanotubes. <i>Physical Review B</i> , 2015 , 91,	3.3	20

26	Concentration measurement of length-fractionated colloidal single-wall carbon nanotubes. <i>Analytical Chemistry</i> , 2012 , 84, 8733-9	7.8	19
25	Quantum interference between the third and fourth exciton states in semiconducting carbon nanotubes using resonance Raman spectroscopy. <i>Physical Review Letters</i> , 2012 , 108, 117404	7.4	19
24	Learning to predict single-wall carbon nanotube-recognition DNA sequences. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	18
23	Site-Specific One-to-One Click Coupling of Single Proteins to Individual Carbon Nanotubes: A Single-Molecule Approach. <i>Journal of the American Chemical Society</i> , 2017 , 139, 17834-17840	16.4	18
22	Carbon Nanotube-Quantum Dot Nanohybrids: Coupling with Single-Particle Control in Aqueous Solution. <i>Small</i> , 2017 , 13, 1603042	11	16
21	Characterizing the Effect of Salt and Surfactant Concentration on the Counterion Atmosphere around Surfactant Stabilized SWCNTs Using Analytical Ultracentrifugation. <i>Langmuir</i> , 2016 , 32, 3926-36	4	16
20	Preparation and separation of DNA-wrapped carbon nanotubes. <i>Current Protocols in Chemical Biology</i> , 2015 , 7, 43-51	1.8	14
19	Mod(n-m,3) Dependence of Defect-State Emission Bands in Aryl-Functionalized Carbon Nanotubes. <i>Nano Letters</i> , 2019 , 19, 8503-8509	11.5	12
18	Pathway-Dependent Structures of DNA-Wrapped Carbon Nanotubes: Direct Sonication vs Surfactant/DNA Exchange. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 9045-9055	3.8	12
17	Quantification of DNA/SWCNT Solvation Differences by Aqueous Two-Phase Separation. <i>Langmuir</i> , 2018 , 34, 1834-1843	4	11
16	Re-growth of single-walled carbon nanotube by hot-wall and cold-wall chemical vapor deposition. <i>Carbon</i> , 2015 , 95, 497-502	10.4	10
15	A perception-based nanosensor platform to detect cancer biomarkers. <i>Science Advances</i> , 2021 , 7, eabj0	8 5.2 .3	10
14	Alkane Encapsulation Induces Strain in Small-Diameter Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11577-11585	3.8	9
13	Energetic Basis of Single-Wall Carbon Nanotube Enantiomer Recognition by Single-Stranded DNA. Journal of Physical Chemistry C, 2017 , 121, 17479-17487	3.8	9
12	Hidden Fine Structure of Quantum Defects Revealed by Single Carbon Nanotube Magneto-Photoluminescence. <i>ACS Nano</i> , 2020 , 14, 3451-3460	16.7	8
11	Two-color spectroscopy of UV excited ssDNA complex with a single-wall nanotube photoluminescence probe: Fast relaxation by nucleobase autoionization mechanism. <i>Nano Research</i> , 2016 , 9, 571-583	10	7
10	Beyond Color: The New Carbon Ink. <i>Advanced Materials</i> , 2021 , 33, e2005890	24	6
9	Detection of ovarian cancer via the spectral fingerprinting of quantum-defect-modified carbon nanotubes in serum by machine learning <i>Nature Biomedical Engineering</i> , 2022 ,	19	6

8	Structure-Defined DNA-Carbon Nanotube Hybrids and Their Applications. <i>ECS Transactions</i> , 2018 , 85, 511-517	1	5
7	Diameter dependence of TO phonon frequencies and the Kohn anomaly in armchair single-wall carbon nanotubes. <i>Physical Review B</i> , 2014 , 90,	3.3	4
6	Single-Chirality Near-Infrared Carbon Nanotube Sub-Cellular Imaging and FRET Probes. <i>Nano Letters</i> , 2021 , 21, 6441-6448	11.5	4
5	Broadening of van Hove Singularities Measured by Photoemission Spectroscopy of Single- and Mixed-Chirality Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26683-266	94 ⁸	3
4	Sorting Carbon Nanotubes. <i>Topics in Current Chemistry Collections</i> , 2019 , 129-164	1.8	2
3	Band structure dependent electronic localization in macroscopic films of single-chirality single-wall carbon nanotubes. <i>Carbon</i> , 2021 , 183, 774-779	10.4	2
2	Optical Detection of Stereoselective Interactions with DNA-Wrapped Single-Wall Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	1
1	Developing Ovarian Cancer Sensors Using Molecular Perceptron. <i>ECS Meeting Abstracts</i> , 2021 , MA2021-01, 538-538	Ο	