

Takeshi Tanaka

List of Publications by Year in descending order

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94
papers

4,198
citations

159358

30
h-index

123241

61
g-index

94
all docs

94
docs citations

94
times ranked

3971
citing authors

#	ARTICLE	IF	CITATIONS
1	Empirical formulation of broadband complex refractive index spectra of single-chirality carbon nanotube assembly. <i>Nanophotonics</i> , 2022, 11, 1011-1020.	2.9	7
2	Direct Electron Transfer Between Single-Walled Carbon Nanotube and Fructose Dehydrogenase. <i>IEEE Nanotechnology Magazine</i> , 2021, 20, 610-618.	1.1	2
3	Band structure dependent electronic localization in macroscopic films of single-chirality single-wall carbon nanotubes. <i>Carbon</i> , 2021, 183, 774-779.	5.4	5
4	Cold-induced Conversion of Connective Tissue Skeleton in Brown Adipose Tissues. <i>Acta Histochemica Et Cytochemica</i> , 2021, 54, 131-141.	0.8	2
5	Directly crosslinked dextran gels for SWCNT separation. <i>Carbon</i> , 2020, 156, 422-429.	5.4	8
6	Photoluminescence Quantum Yield of Single-Wall Carbon Nanotubes Corrected for the Photon Reabsorption Effect. <i>Nano Letters</i> , 2020, 20, 410-417.	4.5	33
7	Electrochemical determination of uric acid in urine and serum with uricase/carbon nanotube /carboxymethylcellulose electrode. <i>Analytical Biochemistry</i> , 2020, 590, 113533.	1.1	56
8	Xylose-Insensitive Direct Electron Transfer Biosensor Strip With Single-Walled Carbon Nanotubes and Novel Fungal Flavin Adenine Dinucleotide Glucose Dehydrogenase. <i>IEEE Sensors Journal</i> , 2020, 20, 12522-12529.	2.4	5
9	Automatic Sorting of Single-Chirality Single-Wall Carbon Nanotubes Using Hydrophobic Cholates: Implications for Multicolor Near-Infrared Optical Technologies. <i>ACS Applied Nano Materials</i> , 2020, 3, 11289-11297.	2.4	31
10	Filling control of n-type and p-type dopant molecules in single-wall carbon nanotubes. <i>Applied Physics Express</i> , 2020, 13, 065003.	1.1	1
11	Cascade Reaction-Based Chemiresistive Array for Ethylene Sensing. <i>ACS Sensors</i> , 2020, 5, 1405-1410.	4.0	17
12	Sustained photodynamic effect of single chirality-enriched single-walled carbon nanotubes. <i>Carbon</i> , 2020, 161, 718-725.	5.4	14
13	Quantitative analysis of the effect of reabsorption on the Raman spectroscopy of distinct ($\langle n \rangle$) Tj ETQq1 1 0.784314 rgBT /Over 1.3 5		
14	Polyaromatic Nanotweezers on Semiconducting Carbon Nanotubes for the Growth and Interfacing of Lead Halide Perovskite Crystal Grains in Solar Cells. <i>Chemistry of Materials</i> , 2020, 32, 5125-5133.	3.2	45
15	Ultrafast photoinduced mechanical distortion of carbon nanotubes via electronic excitation. , 2020, , .		0
16	Diameter dependence of single-walled carbon nanotubes with flavin adenine dinucleotide glucose dehydrogenase for direct electron transfer bioanodes. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 051015.	0.8	3
17	Ultrafast Vibrational Energy Transfer from Photoexcited Carbon Nanotubes to Proteins. <i>EPJ Web of Conferences</i> , 2019, 205, 05009.	0.1	0
18	Oxidative Stress of Carbon Nanotubes on Proteins Is Mediated by Metals Originating from the Catalyst Remains. <i>ACS Nano</i> , 2019, 13, 1805-1816.	7.3	9

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19	Semiconducting carbon nanotubes as crystal growth templates and grain bridges in perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12987-12992.	5.2	57
20	Photoluminescence Intensity Fluctuations and Temperature-Dependent Decay Dynamics of Individual Carbon Nanotube sp^3 Defects. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1423-1430.	2.1	23
21	Fate of Carbon Nanotubes Locally Implanted in Mice Evaluated by Near-Infrared Fluorescence Imaging: Implications for Tissue Regeneration. <i>ACS Applied Nano Materials</i> , 2019, 2, 1382-1390.	2.4	10
22	High-yield and high-throughput single-chirality enantiomer separation of single-wall carbon nanotubes. <i>Carbon</i> , 2018, 132, 1-7.	5.4	34
23	Facile synthesis of guar gum gel for the separation of metallic and semiconducting single-wall carbon nanotubes. <i>Carbon</i> , 2018, 129, 745-749.	5.4	13
24	Fasting-dependent Vascular Permeability Enhancement in Brown Adipose Tissues Evidenced by Using Carbon Nanotubes as Fluorescent Probes. <i>Scientific Reports</i> , 2018, 8, 14446.	1.6	17
25	Suppression of single-wall carbon nanotube redox reaction by adsorbed proteins. <i>Applied Physics Express</i> , 2018, 11, 075101.	1.1	5
26	Direct Proof of a Defect-Modulated Gap Transition in Semiconducting Nanotubes. <i>Nano Letters</i> , 2018, 18, 3920-3925.	4.5	13
27	Disulfide bond formation of thiols by using carbon nanotubes. <i>Nanoscale</i> , 2017, 9, 5389-5393.	2.8	12
28	Near-Infrared Photoluminescent Carbon Nanotubes for Imaging of Brown Fat. <i>Scientific Reports</i> , 2017, 7, 44760.	1.6	71
29	Determination of Enantiomeric Purity of Single-Wall Carbon Nanotubes Using Flavin Mononucleotide. <i>Journal of the American Chemical Society</i> , 2017, 139, 16068-16071.	6.6	31
30	High-Efficiency Separation of (6,5) Carbon Nanotubes by Stepwise Elution Gel Chromatography. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700279.	0.7	11
31	Carbon Nanotubes Facilitate Oxidation of Cysteine Residues of Proteins. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5216-5221.	2.1	8
32	Metallic versus Semiconducting SWCNT Chemiresistors: A Case for Separated SWCNTs Wrapped by a Metallosupramolecular Polymer. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 38062-38067.	4.0	39
33	Amperometric Detection of Sub-ppm Formaldehyde Using Single-Walled Carbon Nanotubes and Hydroxylamines: A Referenced Chemiresistive System. <i>ACS Sensors</i> , 2017, 2, 1405-1409.	4.0	37
34	Diameter-Selective Separation of Semiconducting Single-Walled Carbon Nanotubes in Large Diameter Range. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1700294.	0.7	10
35	Tunable room-temperature single-photon emission at telecom wavelengths from sp^3 defects in carbon nanotubes. <i>Nature Photonics</i> , 2017, 11, 577-582.	15.6	235
36	Vibrational energy transfer from photoexcited carbon nanotubes to proteins observed by coherent phonon spectroscopy. <i>Applied Physics Express</i> , 2017, 10, 125101.	1.1	3

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37	Origin of the Surfactant-Dependent Redox Chemistry of Single-Wall Carbon Nanotubes. <i>ChemNanoMat</i> , 2016, 2, 911-920.	1.5	16
38	Industrial-scale separation of high-purity single-chirality single-wall carbon nanotubes for biological imaging. <i>Nature Communications</i> , 2016, 7, 12056.	5.8	188
39	Arginine Suppresses the Adsorption of Lysozyme onto Single-wall Carbon Nanotubes. <i>Chemistry Letters</i> , 2016, 45, 952-954.	0.7	7
40	Experimental determination of excitonic band structures of single-walled carbon nanotubes using circular dichroism spectra. <i>Nature Communications</i> , 2016, 7, 12899.	5.8	104
41	Single-Chirality Separation and Optical Properties of (5,4) Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10705-10710.	1.5	36
42	Liquid Chromatographic Analysis of the Interaction between Amino Acids and Aromatic Surfaces Using Single-Wall Carbon Nanotubes. <i>Langmuir</i> , 2015, 31, 8923-8929.	1.6	17
43	Solubilization of Single-Walled Carbon Nanotubes Using a Peptide Aptamer in Water below the Critical Micelle Concentration. <i>Langmuir</i> , 2015, 31, 3482-3488.	1.6	17
44	Simultaneous Chirality and Enantiomer Separation of Metallic Single-Wall Carbon Nanotubes by Gel Column Chromatography. <i>Analytical Chemistry</i> , 2015, 87, 9467-9472.	3.2	35
45	Arginine Side Chains as a Dispersant for Individual Single-Wall Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2014, 20, 4922-4930.	1.7	34
46	Optical Isomer Separation of Single-Chirality Carbon Nanotubes Using Gel Column Chromatography. <i>Nano Letters</i> , 2014, 14, 6237-6243.	4.5	69
47	Atomic Force Microscopic Study of Chitinase Binding onto Chitin and Cellulose Surfaces. <i>Biomacromolecules</i> , 2014, 15, 1074-1077.	2.6	12
48	Industrial Single-Structure Separation of Single-Wall Carbon Nanotubes by Multicolumn Gel Chromatography. , 2014, , 49-56.		0
49	pH- and Solute-Dependent Adsorption of Single-Wall Carbon Nanotubes onto Hydrogels: Mechanistic Insights into the Metal/Semiconductor Separation. <i>ACS Nano</i> , 2013, 7, 10285-10295.	7.3	74
50	In vitro selection of peptide aptamers with affinity to single-wall carbon nanotubes using a ribosome display. <i>Biotechnology Letters</i> , 2013, 35, 39-45.	1.1	17
51	High-Efficiency Single-Chirality Separation of Carbon Nanotubes Using Temperature-Controlled Gel Chromatography. <i>Nano Letters</i> , 2013, 13, 1996-2003.	4.5	146
52	Effects of Surfactants on the Electronic Transport Properties of Thin-Film Transistors of Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 11744-11749.	1.5	42
53	Fabrication of Homogeneous Thin Films of Semiconductor-Enriched Single-Wall Carbon Nanotubes for Uniform-Quality Transistors by Using Immersion Coating. <i>Applied Physics Express</i> , 2013, 6, 105103.	1.1	2
54	Coherent monochromatic phonons in highly purified semiconducting single-wall carbon nanotubes. <i>Applied Physics Letters</i> , 2013, 102, 222109.	1.5	1

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55	Separation of carbon nanotubes (CNTs) by the separation method for biomolecules. <i>Synthesiology</i> , 2013, 6, 75-83.	0.2	1
56	Separation of carbon nanotubes (CNTs) by the separation method for biomolecules. <i>Synthesiology</i> , 2013, 6, 75-83.	0.2	0
57	Thermodynamic Determination of the Metal/Semiconductor Separation of Carbon Nanotubes Using Hydrogels. <i>ACS Nano</i> , 2012, 6, 10195-10205.	7.3	53
58	Synthesis of novel thiophene-phenylene oligomer derivatives with a dibenzothiophene-5,5-dioxide core for use in organic solar cells. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2648-2651.	0.7	12
59	Purification of Single-Wall Carbon Nanotubes by Controlling the Adsorbability onto Agarose Gels Using Deoxycholate. <i>Journal of Physical Chemistry C</i> , 2012, 116, 9816-9823.	1.5	28
60	Electrochemical behavior of metallic and semiconducting single-wall carbon nanotubes for electric double-layer capacitor. <i>Carbon</i> , 2012, 50, 1422-1424.	5.4	40
61	Adsorbability of Single-Wall Carbon Nanotubes onto Agarose Gels Affects the Quality of the Metal/Semiconductor Separation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 21723-21729.	1.5	23
62	Binding ability of chitinase onto cellulose: an atomic force microscopy study. <i>Polymer Journal</i> , 2011, 43, 742-744.	1.3	6
63	Discovery of Surfactants for Metal/Semiconductor Separation of Single-Wall Carbon Nanotubes via High-Throughput Screening. <i>Journal of the American Chemical Society</i> , 2011, 133, 17610-17613.	6.6	42
64	Large-scale single-chirality separation of single-wall carbon nanotubes by simple gel chromatography. <i>Nature Communications</i> , 2011, 2, 309.	5.8	762
65	From metal/semiconductor separation to single-chirality separation of single-wall carbon nanotubes using gel. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 301-306.	1.2	49
66	One-step separation of high-purity (6,5) carbon nanotubes by multicolumn gel chromatography. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2524-2527.	0.7	24
67	High performance thin-film transistors using moderately aligned semiconducting single-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2692-2696.	0.7	13
68	Embedding of single-wall carbon nanotubes into nanopores of porous alumina by electrophoresis. <i>Microelectronic Engineering</i> , 2010, 87, 1516-1518.	1.1	3
69	Metal/semiconductor separation of single-wall carbon nanotubes by selective adsorption and desorption for agarose gel. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2867-2870.	0.7	25
70	Sorting single-wall carbon nanotubes combining gel chromatography and density-gradient ultracentrifugation. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2746-2749.	0.7	6
71	Site-selective deposition of single-wall carbon nanotubes by patterning self-assembled monolayer for application to thin-film transistors. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2750-2753.	0.7	12
72	Diameter-selective desorption of semiconducting single-wall carbon nanotubes from agarose gel. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 2649-2652.	0.7	3

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73	Diameter-Selective Metal/Semiconductor Separation of Single-wall Carbon Nanotubes by Agarose Gel. <i>Journal of Physical Chemistry C</i> , 2010, 114, 9270-9276.	1.5	97
74	Effective Separation of Carbon Nanotubes and Metal Particles from Pristine Raw Soot by Ultracentrifugation. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 015004.	0.8	14
75	Mass separation of metallic and semiconducting single-wall carbon nanotubes using agarose gel. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2490-2493.	0.7	23
76	PERIPUTOS: Purity evaluated by Raman intensity of pristine and ultracentrifuged topping of single-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2728-2731.	0.7	11
77	Thin-film transistors fabricated from semiconductor-enriched single-wall carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2009, 246, 2849-2852.	0.7	3
78	Continuous Separation of Metallic and Semiconducting Carbon Nanotubes Using Agarose Gel. <i>Applied Physics Express</i> , 2009, 2, 125002.	1.1	119
79	Simple and Scalable Gel-Based Separation of Metallic and Semiconducting Carbon Nanotubes. <i>Nano Letters</i> , 2009, 9, 1497-1500.	4.5	307
80	Colors of carbon nanotubes. <i>Diamond and Related Materials</i> , 2009, 18, 935-939.	1.8	16
81	Interaction Force of Chitin-Binding Domains onto Chitin Surface. <i>Biomacromolecules</i> , 2008, 9, 2126-2131.	2.6	26
82	Expression Profiles and Physiological Roles of Two Types of Prefoldins from the Hyperthermophilic Archaeon <i>Thermococcus kodakaraensis</i> . <i>Journal of Molecular Biology</i> , 2008, 382, 298-311.	2.0	25
83	Diameter Analysis of Rebundled Single-Wall Carbon Nanotubes Using X-ray Diffraction: Verification of Chirality Assignment Based on Optical Spectra. <i>Journal of Physical Chemistry C</i> , 2008, 112, 15997-16001.	1.5	31
84	Characterization of MobR, the 3-Hydroxybenzoate-responsive Transcriptional Regulator for the 3-Hydroxybenzoate Hydroxylase Gene of <i>Comamonas testosteroni</i> KH122-3s. <i>Journal of Molecular Biology</i> , 2006, 364, 863-877.	2.0	19
85	Characterization of a Novel Glucosamine-6-Phosphate Deaminase from a Hyperthermophilic Archaeon. <i>Journal of Bacteriology</i> , 2005, 187, 7038-7044.	1.0	25
86	Concerted Action of Diacetylchitobiose Deacetylase and Exo- β -D-glucosaminidase in a Novel Chitinolytic Pathway in the Hyperthermophilic Archaeon <i>Thermococcus kodakaraensis</i> KOD1. <i>Journal of Biological Chemistry</i> , 2004, 279, 30021-30027.	1.6	78
87	Characterization of an Exo- β -D-Glucosaminidase Involved in a Novel Chitinolytic Pathway from the Hyperthermophilic Archaeon <i>Thermococcus kodakaraensis</i> KOD1. <i>Journal of Bacteriology</i> , 2003, 185, 5175-5181.	1.0	97
88	Tk-PTP, protein tyrosine/serine phosphatase from hyperthermophilic archaeon <i>Thermococcus kodakaraensis</i> KOD1: enzymatic characteristics and identification of its substrate proteins. <i>Biochemical and Biophysical Research Communications</i> , 2002, 295, 508-514.	1.0	21
89	Different Cleavage Specificities of the Dual Catalytic Domains in Chitinase from the Hyperthermophilic Archaeon <i>Thermococcus kodakaraensis</i> KOD1. <i>Journal of Biological Chemistry</i> , 2001, 276, 35629-35635.	1.6	89
90	Gene analysis and enzymatic properties of thermostable β -glycosidase from <i>Pyrococcus kodakaraensis</i> KOD1. <i>Journal of Bioscience and Bioengineering</i> , 1999, 88, 130-135.	1.1	26

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91	A Unique Chitinase with Dual Active Sites and Triple Substrate Binding Sites from the Hyperthermophilic Archaeon <i>Pyrococcus kodakaraensis</i> KOD1. Applied and Environmental Microbiology, 1999, 65, 5338-5344.	1.4	154
92	High-Yield Separation of Metallic and Semiconducting Single-Wall Carbon Nanotubes by Agarose Gel Electrophoresis. Applied Physics Express, 0, 1, 114001.	1.1	169
93	Performance Enhancement of Thin-Film Transistors by Using High-Purity Semiconducting Single-Wall Carbon Nanotubes. Applied Physics Express, 0, 2, 071601.	1.1	33
94	Non-volatile Resistance Switching using Single-Wall Carbon Nanotube Encapsulating Fullerene Molecules. Applied Physics Express, 0, 2, 035008.	1.1	24