

# Hiromichi Kataura

## List of Articles by Year in descending order

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16189

citing authors

#	ARTICLE	IF	CITATIONS
1	Iptycene-Assisted Alignment of Chirality-Sorted SWCNTs for Field-Effect Transistors. ACS Applied Nano Materials, 2025, 8, 944-951.	5.3	2
2	Coalescence of carbon nanotubes while preserving the chiral angles. Nature Communications, 2025, 16, .	13.7	9
3	Actuator-Driven, Purge-Free Formaldehyde Gas Sensor Based on Single-Walled Carbon Nanotubes. Nanomaterials, 2025, 15, 962.	4.0	0
4	Birefringent optical responses of single-chirality carbon nanotube membranes. Carbon, 2024, 218, 118720.	10.7	8
5	Bright NIR-II fluorescence from biocompatible gel-coated carbon nanotubes for in vivo imaging. Carbon, 2024, 218, 118728.	10.7	28
6	Carrier Doping in Semiconducting Carbon Nanotubes with Fluorosumanenes. Journal of Physical Chemistry C, 2024, 128, 17668-17673.	3.1	1
7	Coenzyme corona formation on carbon nanotubes leads to disruption of the redox balance in metabolic reactions. Nanoscale, 2023, 15, 2340-2353.	5.0	2
8	Chirality-dependent electrical transport properties of carbon nanotubes obtained by experimental measurement. Nature Communications, 2023, 14, .	13.7	65
9	Selective Detection of Toxic C1 Chemicals Using a Hydroxylamine-Based Chemiresistive Sensor Array. ACS Sensors, 2023, 8, 1585-1592.	8.5	9
10	Prompt and effective purification for thin single wall carbon nanotubes by dry process using ferric chloride. Carbon, 2023, 213, 118207.	10.7	6
11	Near-Infrared Photoluminescence of Carbon Nanotubes Powered by Biochemical Reactions of Luciferin/Luciferase. Journal of Physical Chemistry Letters, 2023, 14, 5955-5959.	4.2	5
12	Solubilization of Carbon Nanobelts in Aqueous Solutions: Optical and Colloidal Properties. Nano Letters, 2023, 23, 11167-11173.	8.7	4
13	Empirical formulation of broadband complex refractive index spectra of single-chirality carbon nanotube assembly. Nanophotonics, 2022, 11, 1011-1020.	6.2	18
14	Separation of Metallic and Semiconducting Single-Wall Carbon Nanotubes Using Sodium Hyodeoxycholate Surfactant. Journal of Physical Chemistry C, 2022, 126, 3787-3795.	3.1	21
15	Electronic Type and Diameter Dependence of the Intersubband Plasmons of Single-Wall Carbon Nanotubes. Advanced Functional Materials, 2022, 32, .	17.0	10
16	Photoluminescence of metallic single-walled carbon nanotubes: Role of interband and intraband transitions. Physical Review B, 2022, 106, .	3.4	3
17	Fabricating one-dimensional van der Waals heterostructures on chirality-sorted single-walled carbon nanotubes. Carbon, 2022, 199, 407-414.	10.7	13
18	Low-Voltage Operable and Strain-Insensitive Stretchable All-Carbon Nanotube Integrated Circuits with Local Strain Suppression Layer. Advanced Electronic Materials, 2021, 7, .	4.9	16

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19	Toward Confined Carbyne with Tailored Properties. <i>Nano Letters</i> , 2021, 21, 1096-1101.	8.7	50
20	Zeolite-supported synthesis, solution dispersion, and optical characterizations of single-walled carbon nanotubes wrapped by boron nitride nanotubes. <i>Journal of Applied Physics</i> , 2021, 129, .	2.0	10
21	Submilligram-scale separation of near-zigzag single-chirality carbon nanotubes by temperature controlling a binary surfactant system. <i>Science Advances</i> , 2021, 7, .	10.9	53
22	Low-voltage carbon nanotube complementary electronics using chemical doping to tune the threshold voltage. <i>Applied Physics Express</i> , 2021, 14, 045002.	2.1	13
23	Carbon nanotube-dependent synthesis of armchair graphene nanoribbons. <i>Nano Research</i> , 2021, 15, 1709-1714.	8.6	17
24	Band structure dependent electronic localization in macroscopic films of single-chirality single-wall carbon nanotubes. <i>Carbon</i> , 2021, 183, 774-779.	10.7	10
25	Cold-induced Conversion of Connective Tissue Skeleton in Brown Adipose Tissues. <i>Acta Histochemica Et Cytochemica</i> , 2021, 54, 131-141.	1.6	4
26	Directly crosslinked dextran gels for SWCNT separation. <i>Carbon</i> , 2020, 156, 422-429.	10.7	10
27	Photoluminescence Quantum Yield of Single-Wall Carbon Nanotubes Corrected for the Photon Reabsorption Effect. <i>Nano Letters</i> , 2020, 20, 410-417.	8.7	47
28	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.	5.3	42
29	Quantitative analysis of the intertube coupling effect on the photoluminescence characteristics of distinct (n, m) carbon nanotubes dispersed in solution. <i>Nano Research</i> , 2020, 13, 1149-1155.	8.6	8
30	Quantum-Memory-Enabled Ultrafast Optical Switching in Carbon Nanotubes. <i>ACS Photonics</i> , 2020, 7, 1382-1387.	6.0	15
31	Filling control of n-type and p-type dopant molecules in single-wall carbon nanotubes. <i>Applied Physics Express</i> , 2020, 13, 065003.	2.1	2
32	Cascade Reaction-Based Chemiresistive Array for Ethylene Sensing. <i>ACS Sensors</i> , 2020, 5, 1405-1410.	8.5	24
33	Ultrafast wafer-scale assembly of uniform and highly dense semiconducting carbon nanotube films for optoelectronics. <i>Carbon</i> , 2020, 163, 370-378.	10.7	24
34	Sustained photodynamic effect of single chirality-enriched single-walled carbon nanotubes. <i>Carbon</i> , 2020, 161, 718-725.	10.7	20
35	Quantitative analysis of the effect of reabsorption on the Raman spectroscopy of distinct (n, m) carbon nanotubes. <i>Analytical Methods</i> , 2020, 12, 2376-2384.	2.5	5
36	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.	6.7	52

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37	Brighter near-IR emission of single-walled carbon nanotubes modified with a cross-linked polymer coating. <i>Chemical Communications</i> , 2019, 55, 6854-6857.	3.4	13
38	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.	9.3	72
39	Photoluminescence Intensity Fluctuations and Temperature-Dependent Decay Dynamics of Individual Carbon Nanotube sp <sup>3</sup> Defects. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 1423-1430.	4.2	25
40	Mass Production of High-Purity Semiconducting Carbon Nanotubes by Hydrochloric Acid Assisted Gel Chromatography. <i>ACS Applied Nano Materials</i> , 2019, 2, 343-350.	5.3	23
41	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.	5.3	15
42	High-yield and high-throughput single-chirality enantiomer separation of single-wall carbon nanotubes. <i>Carbon</i> , 2018, 132, 1-7.	10.7	50
43	Facile synthesis of guar gum gel for the separation of metallic and semiconducting single-wall carbon nanotubes. <i>Carbon</i> , 2018, 129, 745-749.	10.7	15
44	Detecting and Tuning the Interactions between Surfactants and Carbon Nanotubes for Their High-Efficiency Structure Separation. <i>Advanced Materials Interfaces</i> , 2018, 5, .	4.0	49
45	Fasting-dependent Vascular Permeability Enhancement in Brown Adipose Tissues Evidenced by Using Carbon Nanotubes as Fluorescent Probes. <i>Scientific Reports</i> , 2018, 8, .	3.4	19
46	Narrow-band single-photon emission through selective aryl functionalization of zigzag carbon nanotubes. <i>Nature Chemistry</i> , 2018, 10, 1089-1095.	18.8	95
47	Extended-conjugation $\pi$ -electron systems in carbon nanotubes. <i>Scientific Reports</i> , 2018, 8, .	3.4	33
48	Direct Proof of a Defect-Modulated Gap Transition in Semiconducting Nanotubes. <i>Nano Letters</i> , 2018, 18, 3920-3925.	8.7	15
49	e-beam irradiation effects on IR absorption bands in single-walled carbon nanotubes. <i>Solid State Communications</i> , 2017, 250, 119-122.	2.3	4
50	Near-Infrared Photoluminescent Carbon Nanotubes for Imaging of Brown Fat. <i>Scientific Reports</i> , 2017, 7, .	3.4	83
51	Determination of Enantiomeric Purity of Single-Wall Carbon Nanotubes Using Flavin Mononucleotide. <i>Journal of the American Chemical Society</i> , 2017, 139, 16068-16071.	15.0	40
52	High-Efficiency Separation of (6,5) Carbon Nanotubes by Stepwise Elution Gel Chromatography. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, .	1.5	13
53	Carbon Nanotubes Facilitate Oxidation of Cysteine Residues of Proteins. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 5216-5221.	4.2	9
54	Metallic versus Semiconducting SWCNT Chemiresistors: A Case for Separated SWCNTs Wrapped by a Metallosupramolecular Polymer. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 38062-38067.	8.0	45

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55	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.	8.5	51
56	Structure Sorting of Large-Diameter Carbon Nanotubes by NaOH Tuning the Interactions between Nanotubes and Gel. <i>Advanced Functional Materials</i> , 2017, 27, .	17.0	36
57	Diameter-Selective Separation of Semiconducting Single-Walled Carbon Nanotubes in Large Diameter Range. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, .	1.5	12
58	Tunable room-temperature single-photon emission at telecom wavelengths from sp <sup>3</sup> defects in carbon nanotubes. <i>Nature Photonics</i> , 2017, 11, 577-582.	29.0	290
59	A 104-week pulmonary toxicity assessment of long and short single-wall carbon nanotubes after a single intratracheal instillation in rats. <i>Inhalation Toxicology</i> , 2017, 29, 471-482.	2.0	24
60	Length effects of single-walled carbon nanotubes on pulmonary toxicity after intratracheal instillation in rats. <i>Journal of Toxicological Sciences</i> , 2017, 42, 367-378.	1.5	21
61	Inverted Bulk-Heterojunction Solar Cells on a PEDOT:PSS-Coated PEN Substrate with PFN as a Cathode Buffer Layer. <i>IEICE Transactions on Electronics</i> , 2016, E99.C, 555-558.	0.4	2
62	Characteristics and improvement of wideband wavelength-tunable narrow-linewidth source by spectral compression in quasi-dispersion-increasing comb-profile fiber. <i>Optics Express</i> , 2016, 24, 23403.	3.0	12
63	Self-assembled oleamide layer applied for cathode buffer layer of bulk heterojunction solar cells based on PTB7:PC71BM. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 02BF02.	1.9	2
64	Origin of the Surfactant-Dependent Redox Chemistry of Single-Wall Carbon Nanotubes. <i>ChemNanoMat</i> , 2016, 2, 911-920.	2.5	22
65	Industrial-scale separation of high-purity single-chirality single-wall carbon nanotubes for biological imaging. <i>Nature Communications</i> , 2016, 7, .	13.7	222
66	Experimental determination of excitonic band structures of single-walled carbon nanotubes using circular dichroism spectra. <i>Nature Communications</i> , 2016, 7, .	13.7	130
67	Single-Chirality Separation and Optical Properties of (5,4) Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 10705-10710.	3.1	40
68	Performance Improvement of PTB7:PC<sub>71</sub>BM Bulk Heterojunction Solar Cells by Adding Multiple Surfactants. <i>IEICE Transactions on Electronics</i> , 2016, E99.C, 551-554.	0.4	0
69	Exciton splitting in semiconducting carbon nanotubes in ultrahigh magnetic fields above 300 T. <i>Physical Review B</i> , 2015, 91, .	3.4	6
70	Highly Conductive DMSO-Treated PEDOT:PSS Electrodes Applied to Flexible Organic Solar Cells. <i>IEICE Transactions on Electronics</i> , 2015, E98.C, 411-421.	0.4	11
71	Dynamics of a Dispersion-Managed Passively Mode-Locked Er-Doped Fiber Laser Using Single Wall Carbon Nanotubes. <i>Photonics</i> , 2015, 2, 808-824.	1.7	21
72	Solution-Processed NiO Layers for PTB7: PC71BM Organic Solar Cells. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 620, 38-44.	1.2	2

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73	Bulk Heterojunction Solar Cells with Ternary Mixed PTB7:PCDTBT:PC71BM Active Layers. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 620, 45-52.	1.2	2
74	Improvement of bulk heterojunction organic solar cells based on PTB7:PC61BM with small amounts of P3HT. <i>Japanese Journal of Applied Physics</i> , 2015, 54, 04DK09.	1.9	13
75	Experimental analysis of coherent supercontinuum generation and ultrashort pulse generation using cross-correlation frequency resolved optical gating (X-FROG). <i>Journal of the Optical Society of America B: Optical Physics</i> , 2015, 32, 400.	1.8	8
76	Simultaneous Chirality and Enantiomer Separation of Metallic Single-Wall Carbon Nanotubes by Gel Column Chromatography. <i>Analytical Chemistry</i> , 2015, 87, 9467-9472.	6.5	42
77	Bulk heterojunction organic solar cells fabricated using the push coating technique. <i>Journal of the Chinese Advanced Materials Society</i> , 2015, 3, 1-8.	0.5	7
78	Bulk-Heterojunction Organic Solar Cells Based on Phenylene-Thiophene Oligomer and Phenyl-C61-Butyric-Acid Methyl Ester. <i>IEICE Transactions on Electronics</i> , 2014, E97.C, 405-408.	0.4	2
79	Flexible PTB7:PC71BM bulk heterojunction solar cells with a LiF buffer layer. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 02BE05.	1.9	22
80	Supercontinuum generation for ultrahigh-resolution optical coherence tomography at wavelength of 0.8 $\mu\text{m}$ using carbon nanotube fiber laser and similariton amplifier. <i>Applied Physics Express</i> , 2014, 7, 122703.	2.1	10
81	Giant Seebeck coefficient in semiconducting single-wall carbon nanotube film. <i>Applied Physics Express</i> , 2014, 7, 025103.	2.1	228
82	Performance improvement of flexible bulk heterojunction solar cells using PTB7:PC71BM by optimizing spin coating and drying processes. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 02BE04.	1.9	12
83	Development of a high power supercontinuum source in the 17 $\mu\text{m}$ wavelength region for highly penetrative ultrahigh-resolution optical coherence tomography. <i>Biomedical Optics Express</i> , 2014, 5, 932.	2.8	99
84	Conformational Analysis of Single Perfluoroalkyl Chains by Single-Molecule Real-Time Transmission Electron Microscopic Imaging. <i>Journal of the American Chemical Society</i> , 2014, 136, 466-473.	15.0	31
85	Arginine Side Chains as a Dispersant for Individual Single-Wall Carbon Nanotubes. <i>Chemistry - A European Journal</i> , 2014, 20, 4922-4930.	3.4	37
86	Effective Nondestructive Purification of Single-Walled Carbon Nanotubes Based on High-Speed Centrifugation with a Photochemically Removable Dispersant. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5013-5019.	3.1	25
87	Real-Time Spectroscopy of Single-Walled Carbon Nanotubes for Negative Time Delays by Using a Few-Cycle Pulse Laser. <i>Journal of Physical Chemistry C</i> , 2014, 118, 3285-3294.	3.1	8
88	Optical Isomer Separation of Single-Chirality Carbon Nanotubes Using Gel Column Chromatography. <i>Nano Letters</i> , 2014, 14, 6237-6243.	8.7	81
89	Ultrafast Generation of Fundamental and Multiple-Order Phonon Excitations in Highly Enriched (6,5) Single-Wall Carbon Nanotubes. <i>Nano Letters</i> , 2014, 14, 1426-1432.	8.7	32
90	Air-stable high-efficiency solar cells with dry-transferred single-walled carbon nanotube films. <i>Journal of Materials Chemistry A</i> , 2014, 2, 11311-11318.	9.3	69

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91	Chirality fingerprinting and geometrical determination of single-walled carbon nanotubes: Analysis of fine structure of X-ray diffraction pattern. <i>Carbon</i> , 2014, 75, 299-306.	10.7	14
92	Relative Ordering between Bright and Dark Excitons in Single-walled Carbon Nanotubes. <i>Scientific Reports</i> , 2014, 4, .	3.4	14
93	Self-Assembled Microhoneycomb Network of Single-Walled Carbon Nanotubes for Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 2571-2576.	4.2	51
94	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.	15.3	78
95	Internal charge transfer in metallicity sorted ferrocene filled carbon nanotube hybrids. <i>Carbon</i> , 2013, 59, 237-245.	10.7	40
96	Band-edge exciton states in a single-walled carbon nanotube revealed by magneto-optical spectroscopy in ultrahigh magnetic fields. <i>Physical Review B</i> , 2013, 87, .	3.4	9
97	Survey of exciton-phonon sidebands by magneto-optical spectroscopy using highly specified (6,5) single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2013, 103, .	3.0	7
98	Intra- and inter-tube exciton relaxation dynamics in high purity semiconducting and metallic single-walled carbon nanotubes. <i>European Physical Journal B</i> , 2013, 86, .	1.6	2
99	Coherent phonon generation in semiconducting single-walled carbon nanotubes using a few-cycle pulse laser. <i>Journal of Luminescence</i> , 2013, 133, 157-161.	3.5	0
100	Electronic relaxation and coherent phonon dynamics in semiconducting single-walled carbon nanotubes with several chiralities. <i>Physical Review B</i> , 2013, 88, .	3.4	17
101	Inkjet printing of aligned single-walled carbon-nanotube thin films. <i>Applied Physics Letters</i> , 2013, 102, .	3.0	30
102	High-Efficiency Single-Chirality Separation of Carbon Nanotubes Using Temperature-Controlled Gel Chromatography. <i>Nano Letters</i> , 2013, 13, 1996-2003.	8.7	168
103	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.	3.1	45
104	Growth of carbon nanotubes via twisted graphene nanoribbons. <i>Nature Communications</i> , 2013, 4, .	13.7	97
105	Bulk-Heterojunction Solar Cells Based on Mixed Donors of P3HT and Phenylene-Thiophene Oligomer Derivative. <i>ECS Transactions</i> , 2013, 58, 3-10.	0.4	0
106	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.	2.1	2
107	Semi Transparent Electrode of Au Nano Mesh on Flexible Substrates Fabricated by Transfer Printing Using Self-Organized Porous Polymer Mold. <i>ECS Transactions</i> , 2013, 58, 89-96.	0.4	0
108	Orbital and spin magnetic moments of transforming one-dimensional iron inside metallic and semiconducting carbon nanotubes. <i>Physical Review B</i> , 2013, 87, .	3.4	25

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109	Exciton-phonon bound complex in single-walled carbon nanotubes revealed by high-field magneto-optical spectroscopy. <i>Applied Physics Letters</i> , 2013, 103, .	3.0	5
110	From a one-dimensional crystal to a one-dimensional liquid: A comprehensive dynamical study of C60peapods. <i>Physical Review B</i> , 2013, 87, .	3.4	6
111	In situ X-ray diffraction observation of two-step fullerene coalescence in carbon peapods. <i>Europhysics Letters</i> , 2013, 103, 66002.	1.8	2
112	Flexible Organic Solar Cells Based on Spin-Coated Blend Films of a Phenylene-Thiophene Oligomer Derivative and PCBM. <i>Molecular Crystals and Liquid Crystals</i> , 2013, 578, 78-87.	1.2	9
113	Flexible PTB7:PC70BM Bulk-Heterojunction Solar Cells with LiF Cathode Buffer Layer. <i>ECS Transactions</i> , 2013, 58, 39-48.	0.4	0
114	<sup>13</sup> C-NMR Shift of Highly Concentrated Metallic and Semiconducting Single-Walled Carbon Nanotubes. <i>Journal of the Physical Society of Japan</i> , 2013, 82, 015001.	2.1	1
115	Environmental stability of ferrocene filled in purely metallic single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 2599-2604.	1.5	6
116	Separation of carbon nanotubes (CNTs) by the separation method for biomolecules. <i>Synthesiology</i> , 2013, 6, 75-83.	0.0	1
117	Separation of carbon nanotubes (CNTs) by the separation method for biomolecules. <i>Synthesiology</i> , 2013, 6, 75-83.	0.0	0
118	Translational Dynamics of One-Dimensional Fullerene Chains Encapsulated Inside Single-Walled Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012, 20, 395-400.	2.0	0
119	Power scaling of dispersion-managed Er-doped ultrashort pulse fiber laser with single wall carbon nanotubes. <i>Optics Letters</i> , 2012, 37, 5079.	3.0	27
120	Continuous Electron Doping of Single-Walled Carbon Nanotube Films Using Inkjet Technique. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FD18.	1.9	8
121	Progressive melting in confined one-dimensional C60chains. <i>Physical Review B</i> , 2012, 86, .	3.4	8
122	Novel Phenylene- $\theta$ -Thiophene Oligomer Derivatives with Dibenzothiophene 5,5-Dioxide Core: Synthesis, Characterization, and Applications in Organic Solar Cells. <i>Chemistry Letters</i> , 2012, 41, 363-365.	1.1	17
123	Thermodynamic Determination of the Metal/Semiconductor Separation of Carbon Nanotubes Using Hydrogels. <i>ACS Nano</i> , 2012, 6, 10195-10205.	15.3	54
124	Orbital and spin magnetic moments of ferrocene encapsulated in metallicity sorted single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2424-2427.	1.5	4
125	In situ filling of metallic single-walled carbon nanotubes with ferrocene molecules. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2408-2411.	1.5	19
126	Magnetic phase transition for defect induced electron spins from fully metal- $\theta$ -semiconductor separated SWCNTs. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2562-2567.	1.5	5

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127	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.	1.5	13
128	Ferromagnetic decoration in metal-semiconductor separated and ferrocene functionalized single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2012, 249, 2323-2327.	1.5	5
129	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.	3.1	30
130	Single Chirality Extraction of Single-Wall Carbon Nanotubes for the Encapsulation of Organic Molecules. <i>Journal of the American Chemical Society</i> , 2012, 134, 9545-9548.	15.0	59
131	Indirect exchange interaction in fully metal-semiconductor separated single-walled carbon nanotubes revealed by electron spin resonance. <i>Physical Review B</i> , 2012, 86, .	3.4	11
132	Continuous Electron Doping of Single-Walled Carbon Nanotube Films Using Inkjet Technique. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 06FD18.	1.9	3
133	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.	3.1	24
134	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.	15.0	45
135	High-Efficiency Separation of Single-Wall Carbon Nanotubes by Self-Generated Density Gradient Ultracentrifugation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 1752-1756.	3.1	41
136	Dispersion-managed, high-power, Er-doped ultrashort-pulse fiber laser using carbon-nanotube polyimide film. <i>Optics Express</i> , 2011, 19, 21874.	3.0	58
137	Large-scale single-chirality separation of single-wall carbon nanotubes by simple gel chromatography. <i>Nature Communications</i> , 2011, 2, .	13.7	843
138	Diameter dependence of phase relaxation time and third-order nonlinear susceptibilities in semiconducting single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2011, 109, .	2.0	4
139	Absorption spectra of high purity metallic and semiconducting single-walled carbon nanotube thin films in a wide energy region. <i>Solid State Communications</i> , 2011, 151, 1696-1699.	2.3	23
140	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.	2.0	49
141	High resolution X-ray absorption on metallicity selected C 60 peapods, single, and double walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2544-2547.	1.5	1
142	On the purification of CVD grown boron doped single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2011, 248, 2504-2507.	1.5	9
143	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.	1.5	28
144	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.	1.5	14

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145	Electrochromic Carbon Electrodes: Controllable Visible Color Changes in Metallic Single-Wall Carbon Nanotubes. <i>Advanced Materials</i> , 2011, 23, 2811-2814.	24.5	64
146	Photoinduced Dispersibility Tuning of Carbon Nanotubes by a Water-Soluble Stilbene as a Dispersant. <i>Advanced Materials</i> , 2011, 23, 3922-3925.	24.5	32
147	Coaxially Stacked Coronene Columns inside Single-Walled Carbon Nanotubes. <i>Angewandte Chemie</i> , 2011, 123, 4955-4959.	1.4	23
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