Hiromichi Kataura

List of Publications by Year in Descending Order

413 papers	18,249 citations	68 h-index	120 g-index
434 ext. papers	19,718 ext. citations	4.9 avg, IF	6.36 L-index

#	Paper	IF	Citations
413	Separation of Metallic and Semiconducting Single-Wall Carbon Nanotubes Using Sodium Hyodeoxycholate Surfactant. *Journal of Physical Chemistry C*, **2022**, 126, 3787-3795	3.8	3
412	Electronic Type and Diameter Dependence of the Intersubband Plasmons of Single-Wall Carbon Nanotubes. *Advanced Functional Materials*, **2022**, 32, 2107489	15.6	2
411	Cold-induced Conversion of Connective Tissue Skeleton in Brown Adipose Tissues. *Acta Histochemica Et Cytochemica*, **2021**, 54, 131-141	1.9	1
410	Low-Voltage Operable and Strain-Insensitive Stretchable All-Carbon Nanotube Integrated Circuits with Local Strain Suppression Layer. *Advanced Electronic Materials*, **2021**, 7, 2000674	6.4	5
409	Toward Confined Carbyne with Tailored Properties. *Nano Letters*, **2021**, 21, 1096-1101	11.5	15
408	Zeolite-supported synthesis, solution dispersion, and optical characterizations of single-walled carbon nanotubes wrapped by boron nitride nanotubes. *Journal of Applied Physics*, **2021**, 129, 015101	2.5	1
407	Submilligram-scale separation of near-zigzag single-chirality carbon nanotubes by temperature controlling a binary surfactant system. *Science Advances*, **2021**, 7,	14.3	15
406	Low-voltage carbon nanotube complementary electronics using chemical doping to tune the threshold voltage. *Applied Physics Express*, **2021**, 14, 045002	2.4	2
405	Band structure dependent electronic localization in macroscopic films of single-chirality single-wall carbon nanotubes. *Carbon*, **2021**, 183, 774-779	10.4	2
404	Automatic Sorting of Single-Chirality Single-Wall Carbon Nanotubes Using Hydrophobic Cholates: Implications for Multicolor Near-Infrared Optical Technologies. *ACS Applied Nano Materials*, **2020**, 3, 11289-11297	5.6	9
403	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	10	1
402	Quantum-Memory-Enabled Ultrafast Optical Switching in Carbon Nanotubes. *ACS Photonics*, **2020**, 7, 1382-1387	6.3	4
401	Filling control of n-type and p-type dopant molecules in single-wall carbon nanotubes. *Applied Physics Express*, **2020**, 13, 065003	2.4	1
400	Cascade Reaction-Based Chemiresistive Array for Ethylene Sensing. *ACS Sensors*, **2020**, 5, 1405-1410	9.2	6
399	Ultrafast wafer-scale assembly of uniform and highly dense semiconducting carbon nanotube films for optoelectronics. *Carbon*, **2020**, 163, 370-378	10.4	4
398	Sustained photodynamic effect of single chirality-enriched single-walled carbon nanotubes. *Carbon*, **2020**, 161, 718-725	10.4	10
397	Quantitative analysis of the effect of reabsorption on the Raman spectroscopy of distinct (,) carbon nanotubes. *Analytical Methods*, **2020**, 12, 2376-2384	3.2	3

396	Polyaromatic Nanotweezers on Semiconducting Carbon Nanotubes for the Growth and Interfacing of Lead Halide Perovskite Crystal Grains in Solar Cells. *Chemistry of Materials*, **2020**, 32, 5125-5133	9.6	29
395	Photoluminescence Quantum Yield of Single-Wall Carbon Nanotubes Corrected for the Photon Reabsorption Effect. *Nano Letters*, **2020**, 20, 410-417	11.5	15
394	Directly crosslinked dextran gels for SWCNT separation. *Carbon*, **2020**, 156, 422-429	10.4	6
393	Oxidative Stress of Carbon Nanotubes on Proteins Is Mediated by Metals Originating from the Catalyst Remains. *ACS Nano*, **2019**, 13, 1805-1816	16.7	8
392	Brighter near-IR emission of single-walled carbon nanotubes modified with a cross-linked polymer coating. *Chemical Communications*, **2019**, 55, 6854-6857	5.8	6
391	Semiconducting carbon nanotubes as crystal growth templates and grain bridges in perovskite solar cells. *Journal of Materials Chemistry A*, **2019**, 7, 12987-12992	13	44
390	Photoluminescence Intensity Fluctuations and Temperature-Dependent Decay Dynamics of Individual Carbon Nanotube sp Defects. *Journal of Physical Chemistry Letters*, **2019**, 10, 1423-1430	6.4	13
389	Fate of Carbon Nanotubes Locally Implanted in Mice Evaluated by Near-Infrared Fluorescence Imaging: Implications for Tissue Regeneration. *ACS Applied Nano Materials*, **2019**, 2, 1382-1390	5.6	7
388	Mass Production of High-Purity Semiconducting Carbon Nanotubes by Hydrochloric Acid Assisted Gel Chromatography. *ACS Applied Nano Materials*, **2019**, 2, 343-350	5.6	12
387	High-yield and high-throughput single-chirality enantiomer separation of single-wall carbon nanotubes. *Carbon*, **2018**, 132, 1-7	10.4	21
386	Facile synthesis of guar gum gel for the separation of metallic and semiconducting single-wall carbon nanotubes. *Carbon*, **2018**, 129, 745-749	10.4	10
385	Detecting and Tuning the Interactions between Surfactants and Carbon Nanotubes for Their High-Efficiency Structure Separation. *Advanced Materials Interfaces*, **2018**, 5, 1700727	4.6	27
384	Fasting-dependent Vascular Permeability Enhancement in Brown Adipose Tissues Evidenced by Using Carbon Nanotubes as Fluorescent Probes. *Scientific Reports*, **2018**, 8, 14446	4.9	13
383	Narrow-band single-photon emission through selective aryl functionalization of zigzag carbon nanotubes. *Nature Chemistry*, **2018**, 10, 1089-1095	17.6	47
382	Extended-conjugation electron systems in carbon nanotubes. *Scientific Reports*, **2018**, 8, 8098	4.9	12
381	Direct Proof of a Defect-Modulated Gap Transition in Semiconducting Nanotubes. *Nano Letters*, **2018**, 18, 3920-3925	11.5	11
380	e-beam irradiation effects on IR absorption bands in single-walled carbon nanotubes. *Solid State Communications*, **2017**, 250, 119-122	1.6	3
379	Near-Infrared Photoluminescent Carbon Nanotubes for Imaging of Brown Fat. *Scientific Reports*, **2017**, 7, 44760	4.9	55

378	Determination of Enantiomeric Purity of Single-Wall Carbon Nanotubes Using Flavin Mononucleotide. *Journal of the American Chemical Society*, **2017**, 139, 16068-16071	16.4	23
377	High-Efficiency Separation of (6,5) Carbon Nanotubes by Stepwise Elution Gel Chromatography. *Physica Status Solidi (B): Basic Research*, **2017**, 254, 1700279	1.3	8
376	Carbon Nanotubes Facilitate Oxidation of Cysteine Residues of Proteins. *Journal of Physical Chemistry Letters*, **2017**, 8, 5216-5221	6.4	6
375	Metallic versus Semiconducting SWCNT Chemiresistors: A Case for Separated SWCNTs Wrapped by a Metallosupramolecular Polymer. *ACS Applied Materials & Interfaces*, **2017**, 9, 38062-38067	9.5	28
374	Amperometric Detection of Sub-ppm Formaldehyde Using Single-Walled Carbon Nanotubes and Hydroxylamines: A Referenced Chemiresistive System. *ACS Sensors*, **2017**, 2, 1405-1409	9.2	26
373	Length effects of single-walled carbon nanotubes on pulmonary toxicity after intratracheal instillation in rats. *Journal of Toxicological Sciences*, **2017**, 42, 367-378	1.9	15
372	Structure Sorting of Large-Diameter Carbon Nanotubes by NaOH Tuning the Interactions between Nanotubes and Gel. *Advanced Functional Materials*, **2017**, 27, 1700278	15.6	17
371	Diameter-Selective Separation of Semiconducting Single-Walled Carbon Nanotubes in Large Diameter Range. *Physica Status Solidi (B): Basic Research*, **2017**, 254, 1700294	1.3	9
370	Tunable room-temperature single-photon emission at telecom wavelengths from sp3 defects in carbon nanotubes. *Nature Photonics*, **2017**, 11, 577-582	33.9	166
369	A 104-week pulmonary toxicity assessment of long and short single-wall carbon nanotubes after a single intratracheal instillation in rats. *Inhalation Toxicology*, **2017**, 29, 471-482	2.7	13
368	Industrial-scale separation of high-purity single-chirality single-wall carbon nanotubes for biological imaging. *Nature Communications*, **2016**, 7, 12056	17.4	141
367	Experimental determination of excitonic band structures of single-walled carbon nanotubes using circular dichroism spectra. *Nature Communications*, **2016**, 7, 12899	17.4	76
366	Single-Chirality Separation and Optical Properties of (5,4) Single-Wall Carbon Nanotubes. *Journal of Physical Chemistry C*, **2016**, 120, 10705-10710	3.8	27
365	Performance Improvement of PTB7:PC71BM Bulk Heterojunction Solar Cells by Adding Multiple Surfactants. *IEICE Transactions on Electronics*, **2016**, E99.C, 551-554	0.4	
364	Inverted Bulk-Heterojunction Solar Cells on a PEDOT:PSS-Coated PEN Substrate with PFN as a Cathode Buffer Layer. *IEICE Transactions on Electronics*, **2016**, E99.C, 555-558	0.4	
363	Characteristics and improvement of wideband wavelength-tunable narrow-linewidth source by spectral compression in quasi-dispersion-increasing comb-profile fiber. *Optics Express*, **2016**, 24, 23403-23418	3.3	7
362	Semitransparent Inverted Organic Solar Cells Using an Oxide/metal/oxide Transparent Anode. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2016**, 29, 547-551	0.7	3
361	Self-assembled oleamide layer applied for cathode buffer layer of bulk heterojunction solar cells based on PTB7:PC71BM. *Japanese Journal of Applied Physics*, **2016**, 55, 02BF02	1.4	1

360	Origin of the Surfactant-Dependent Redox Chemistry of Single-Wall Carbon Nanotubes. *ChemNanoMat*, **2016**, 2, 911-920	3.5	12
359	Improvement of bulk heterojunction organic solar cells based on PTB7:PC61BM with small amounts of P3HT. *Japanese Journal of Applied Physics*, **2015**, 54, 04DK09	1.4	12
358	Metallization of single-wall carbon nanotube thin films induced by gas phase iodination. *Carbon*, **2015**, 94, 768-774	10.4	34
357	Experimental analysis of coherent supercontinuum generation and ultrashort pulse generation using cross-correlation frequency resolved optical gating (X-FROG). *Journal of the Optical Society of America B: Optical Physics*, **2015**, 32, 400	1.7	7
356	Simultaneous chirality and enantiomer separation of metallic single-wall carbon nanotubes by gel column chromatography. *Analytical Chemistry*, **2015**, 87, 9467-72	7.8	28
355	Bulk heterojunction organic solar cells fabricated using the push coating technique. *Journal of the Chinese Advanced Materials Society*, **2015**, 3, 1-8		7
354	Exciton splitting in semiconducting carbon nanotubes in ultrahigh magnetic fields above 300 T. *Physical Review B*, **2015**, 91,	3.3	5
353	Bulk-heterojunction Solar Cells Based on Ternary Blend Active Layers of PTB7, PC61BM, and PC71BM. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2015**, 28, 377-383	0.7	
352	Highly Conductive DMSO-Treated PEDOT:PSS Electrodes Applied to Flexible Organic Solar Cells. *IEICE Transactions on Electronics*, **2015**, E98.C, 411-421	0.4	10
351	Dynamics of a Dispersion-Managed Passively Mode-Locked Er-Doped Fiber Laser Using Single Wall Carbon Nanotubes. *Photonics*, **2015**, 2, 808-824	2.2	10
350	Solution-Processed NiO Layers for PTB7: PC71BM Organic Solar Cells. *Molecular Crystals and Liquid Crystals*, **2015**, 620, 38-44	0.5	2
349	Bulk Heterojunction Solar Cells with Ternary Mixed PTB7:PCDTBT:PC71BM Active Layers. *Molecular Crystals and Liquid Crystals*, **2015**, 620, 45-52	0.5	2
348	Relative ordering between bright and dark excitons in single-walled carbon nanotubes. *Scientific Reports*, **2014**, 4, 6999	4.9	9
347	Conformational analysis of single perfluoroalkyl chains by single-molecule real-time transmission electron microscopic imaging. *Journal of the American Chemical Society*, **2014**, 136, 466-73	16.4	22
346	Arginine side chains as a dispersant for individual single-wall carbon nanotubes. *Chemistry - A European Journal*, **2014**, 20, 4922-30	4.8	29
345	Effective Nondestructive Purification of Single-Walled Carbon Nanotubes Based on High-Speed Centrifugation with a Photochemically Removable Dispersant. *Journal of Physical Chemistry C*, **2014**, 118, 5013-5019	3.8	17
344	Real-Time Spectroscopy of Single-Walled Carbon Nanotubes for Negative Time Delays by Using a Few-Cycle Pulse Laser. *Journal of Physical Chemistry C*, **2014**, 118, 3285-3294	3.8	5
343	Optical isomer separation of single-chirality carbon nanotubes using gel column chromatography. *Nano Letters*, **2014**, 14, 6237-43	11.5	57

342	Ultrafast generation of fundamental and multiple-order phonon excitations in highly enriched (6,5) single-wall carbon nanotubes. *Nano Letters*, **2014**, 14, 1426-32	11.5	25
341	Application of highly conductive DMSO-treated PEDOT:PSS electrodes to flexible organic solar cells **2014**,		3
340	Air-stable high-efficiency solar cells with dry-transferred single-walled carbon nanotube films. *Journal of Materials Chemistry A*, **2014**, 2, 11311-11318	13	59
339	Chirality fingerprinting and geometrical determination of single-walled carbon nanotubes: Analysis of fine structure of X-ray diffraction pattern. *Carbon*, **2014**, 75, 299-306	10.4	9
338	Semitransparent Gold-Meshed Electrode Fabricated by Transfer Printing Using Self-Organized Microporous Polymer Mold. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2014**, 27, 249-253	0.7	
337	Organic Solar Cells Based on PTB7:PC71BM with Cs2CO3 as a Cathode Buffer Layer. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2014**, 27, 577-581	0.7	2
336	Organic Solar Cells Based on Ternary Blend Active Layer of Two Donors PTB7, P3HT and Accepter PC61BM. *Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]*, **2014**, 27, 569-575	0.7	5
335	Carbon Nanotubes: Hydrogen Storage **2014**, 706-714		
334	Bulk-Heterojunction Organic Solar Cells Based on Phenylene-Thiophene Oligomer and Phenyl-C61-Butyric-Acid Methyl Ester. *IEICE Transactions on Electronics*, **2014**, E97.C, 405-408	0.4	2
333	Flexible PTB7:PC71BM bulk heterojunction solar cells with a LiF buffer layer. *Japanese Journal of Applied Physics*, **2014**, 53, 02BE05	1.4	20
332	Supercontinuum generation for ultrahigh-resolution optical coherence tomography at wavelength of 0.8 μm using carbon nanotube fiber laser and similariton amplifier. *Applied Physics Express*, **2014**, 7, 122703	2.4	8
331	Giant Seebeck coefficient in semiconducting single-wall carbon nanotube film. *Applied Physics Express*, **2014**, 7, 025103	2.4	170
330	Performance improvement of flexible bulk heterojunction solar cells using PTB7:PC71BM by optimizing spin coating and drying processes. *Japanese Journal of Applied Physics*, **2014**, 53, 02BE04	1.4	12
329	Development of a high power supercontinuum source in the 1.7 μm wavelength region for highly penetrative ultrahigh-resolution optical coherence tomography. *Biomedical Optics Express*, **2014**, 5, 932-43	3.5	60
328	Industrial Single-Structure Separation of Single-Wall Carbon Nanotubes by Multicolumn Gel Chromatography **2014**, 49-56		
327	Self-Assembled Microhoneycomb Network of Single-Walled Carbon Nanotubes for Solar Cells. *Journal of Physical Chemistry Letters*, **2013**, 4, 2571-2576	6.4	46
326	pH- and solute-dependent adsorption of single-wall carbon nanotubes onto hydrogels: mechanistic insights into the metal/semiconductor separation. *ACS Nano*, **2013**, 7, 10285-95	16.7	62
325	Internal charge transfer in metallicity sorted ferrocene filled carbon nanotube hybrids. *Carbon*, **2013**, 59, 237-245	10.4	27

324	Band-edge exciton states in a single-walled carbon nanotube revealed by magneto-optical spectroscopy in ultrahigh magnetic fields. *Physical Review B*, **2013**, 87,	3.3	9
323	Survey of exciton-phonon sidebands by magneto-optical spectroscopy using highly specified (6,5) single-walled carbon nanotubes. *Applied Physics Letters*, **2013**, 103, 021117	3.4	6
322	Intra- and inter-tube exciton relaxation dynamics in high purity semiconducting and metallic single-walled carbon nanotubes. *European Physical Journal B*, **2013**, 86, 1	1.2	2
321	Optical frequency comb using dispersion managed Er-doped ultrashort pulse fiber laser using carbon nanotube polyimide film **2013**,		1
320	Coherent phonon generation in semiconducting single-walled carbon nanotubes using a few-cycle pulse laser. *Journal of Luminescence*, **2013**, 133, 157-161	3.8	
319	Electronic relaxation and coherent phonon dynamics in semiconducting single-walled carbon nanotubes with several chiralities. *Physical Review B*, **2013**, 88,	3.3	14
318	Separation of carbon nanotubes (CNTs) by the separation method for biomolecules. *Synthesiology*, **2013**, 6, 75-83	0.1	
317	Inkjet printing of aligned single-walled carbon-nanotube thin films. *Applied Physics Letters*, **2013**, 102, 143107	3.4	23
316	High-efficiency single-chirality separation of carbon nanotubes using temperature-controlled gel chromatography. *Nano Letters*, **2013**, 13, 1996-2003	11.5	124
315	Effects of Surfactants on the Electronic Transport Properties of Thin-Film Transistors of Single-Wall Carbon Nanotubes. *Journal of Physical Chemistry C*, **2013**, 117, 11744-11749	3.8	38
314	Growth of carbon nanotubes via twisted graphene nanoribbons. *Nature Communications*, **2013**, 4, 2548	17.4	77
313	Bulk-Heterojunction Solar Cells Based on Poly(3-hexylthiophene) and (6,6)-phenyl-C61-butyric-acid Methyl Ester on Polyethylene Terephthalate Substrates. *Key Engineering Materials*, **2013**, 538, 3-6	0.4	
312	Fabrication of Homogeneous Thin Films of Semiconductor-Enriched Single-Wall Carbon Nanotubes for Uniform-Quality Transistors by Using Immersion Coating. *Applied Physics Express*, **2013**, 6, 105103	2.4	2
311	Semi Transparent Electrode of Au Nano Mesh on Flexible Substrates Fabricated by Transfer Printing Using Self-Organized Porous Polymer Mold. *ECS Transactions*, **2013**, 58, 89-96	1	
310	Orbital and spin magnetic moments of transforming one-dimensional iron inside metallic and semiconducting carbon nanotubes. *Physical Review B*, **2013**, 87,	3.3	19
309	Exciton-phonon bound complex in single-walled carbon nanotubes revealed by high-field magneto-optical spectroscopy. *Applied Physics Letters*, **2013**, 103, 233101	3.4	5
308	From a one-dimensional crystal to a one-dimensional liquid: A comprehensive dynamical study of C60 peapods. *Physical Review B*, **2013**, 87,	3.3	4
307	In situ X-ray diffraction observation of two-step fullerene coalescence in carbon peapods. *Europhysics Letters*, **2013**, 103, 66002	1.6	2

306	Flexible Organic Solar Cells Based on Spin-Coated Blend Films of a Phenylene-Thiophene Oligomer Derivative and PCBM. *Molecular Crystals and Liquid Crystals*, **2013**, 578, 78-87	0.5	9
305	13C-NMR Shift of Highly Concentrated Metallic and Semiconducting Single-Walled Carbon Nanotubes. *Journal of the Physical Society of Japan*, **2013**, 82, 015001	1.5	0
304	Environmental stability of ferrocene filled in purely metallic single-walled carbon nanotubes. *Physica Status Solidi (B): Basic Research*, **2013**, 250, 2599-2604	1.3	5
303	Separation of carbon nanotubes (CNTs) by the separation method for biomolecules. *Synthesiology*, **2013**, 6, 75-83	0.2	
302	Novel Phenylene–Thiophene Oligomer Derivatives with Dibenzothiophene 5,5-Dioxide Core: Synthesis, Characterization, and Applications in Organic Solar Cells. *Chemistry Letters*, **2012**, 41, 363-365	1.7	15
301	Thermodynamic determination of the metal/semiconductor separation of carbon nanotubes using hydrogels. *ACS Nano*, **2012**, 6, 10195-205	16.7	48
300	Orbital and spin magnetic moments of ferrocene encapsulated in metallicity sorted single-walled carbon nanotubes. *Physica Status Solidi (B): Basic Research*, **2012**, 249, 2424-2427	1.3	2
299	In situ filling of metallic single-walled carbon nanotubes with ferrocene molecules. *Physica Status Solidi (B): Basic Research*, **2012**, 249, 2408-2411	1.3	14
298	Magnetic phase transition for defect induced electron spins from fully metal–semiconductor separated SWCNTs. *Physica Status Solidi (B): Basic Research*, **2012**, 249, 2562-2567	1.3	5
297	Synthesis of novel thiophene-phenylene oligomer derivatives with a dibenzothiophene-5,5-dioxide core for use in organic solar cells. *Physica Status Solidi (B): Basic Research*, **2012**, 249, 2648-2651	1.3	11
296	Ferromagnetic decoration in metal–semiconductor separated and ferrocene functionalized single-walled carbon nanotubes. *Physica Status Solidi (B): Basic Research*, **2012**, 249, 2323-2327	1.3	4
295	Purification of Single-Wall Carbon Nanotubes by Controlling the Adsorbability onto Agarose Gels Using Deoxycholate. *Journal of Physical Chemistry C*, **2012**, 116, 9816-9823	3.8	25
294	Single chirality extraction of single-wall carbon nanotubes for the encapsulation of organic molecules. *Journal of the American Chemical Society*, **2012**, 134, 9545-8	16.4	45
293	Indirect exchange interaction in fully metal-semiconductor separated single-walled carbon nanotubes revealed by electron spin resonance. *Physical Review B*, **2012**, 86,	3.3	10
292	Electrochemical behavior of metallic and semiconducting single-wall carbon nanotubes for electric double-layer capacitor. *Carbon*, **2012**, 50, 1422-1424	10.4	35
291	Translational Dynamics of One-Dimensional Fullerene Chains Encapsulated Inside Single-Walled Carbon Nanotubes. *Fullerenes Nanotubes and Carbon Nanostructures*, **2012**, 20, 395-400	1.8	
290	Power scaling of dispersion-managed Er-doped ultrashort pulse fiber laser with single wall carbon nanotubes. *Optics Letters*, **2012**, 37, 5079-81	3	21
289	Continuous Electron Doping of Single-Walled Carbon Nanotube Films Using Inkjet Technique. *Japanese Journal of Applied Physics*, **2012**, 51, 06FD18	1.4	5

288	Progressive melting in confined one-dimensional C60 chains. *Physical Review B*, **2012**, 86,	3.3	8
287	Continuous Electron Doping of Single-Walled Carbon Nanotube Films Using Inkjet Technique. *Japanese Journal of Applied Physics*, **2012**, 51, 06FD18	1.4	1
286	Adsorbability of Single-Wall Carbon Nanotubes onto Agarose Gels Affects the Quality of the Metal/Semiconductor Separation. *Journal of Physical Chemistry C*, **2011**, 115, 21723-21729	3.8	21
285	Discovery of surfactants for metal/semiconductor separation of single-wall carbon nanotubes via high-throughput screening. *Journal of the American Chemical Society*, **2011**, 133, 17610-3	16.4	38
284	High-Efficiency Separation of Single-Wall Carbon Nanotubes by Self-Generated Density Gradient Ultracentrifugation. *Journal of Physical Chemistry C*, **2011**, 115, 1752-1756	3.8	36
283	Dispersion-managed, high-power, Er-doped ultrashort-pulse fiber laser using carbon-nanotube polyimide film. *Optics Express*, **2011**, 19, 21874-9	3.3	43
282	Large-scale single-chirality separation of single-wall carbon nanotubes by simple gel chromatography. *Nature Communications*, **2011**, 2, 309	17.4	661
281	Diameter dependence of phase relaxation time and third-order nonlinear susceptibilities in semiconducting single-walled carbon nanotubes. *Journal of Applied Physics*, **2011**, 109, 113508	2.5	4
280	Optical Frequency Comb Using Polarization Maintaining Er-doped Ultrashort Pulse Fiber Laser with Carbon-Nanotube Polyimide Film **2011**,		2
279	Absorption spectra of high purity metallic and semiconducting single-walled carbon nanotube thin films in a wide energy region. *Solid State Communications*, **2011**, 151, 1696-1699	1.6	17
278	From metal/semiconductor separation to single-chirality separation of single-wall carbon nanotubes using gel. *Physica Status Solidi - Rapid Research Letters*, **2011**, 5, 301-306	2.5	44
277	High resolution X-ray absorption on metallicity selected C60 peapods, single-, and double walled carbon nanotubes. *Physica Status Solidi (B): Basic Research*, **2011**, 248, 2544-2547	1.3	1
276	On the purification of CVD grown boron doped single-walled carbon nanotubes. *Physica Status Solidi (B): Basic Research*, **2011**, 248, 2504-2507	1.3	6
275	One-step separation of high-purity (6,5) carbon nanotubes by multicolumn gel chromatography. *Physica Status Solidi (B): Basic Research*, **2011**, 248, 2524-2527	1.3	20
274	High performance thin-film transistors using moderately aligned semiconducting single-wall carbon nanotubes. *Physica Status Solidi (B): Basic Research*, **2011**, 248, 2692-2696	1.3	9
273	Electrochromic carbon electrodes: controllable visible color changes in metallic single-wall carbon nanotubes. *Advanced Materials*, **2011**, 23, 2811-4	24	49
272	Photoinduced dispersibility tuning of carbon nanotubes by a water-soluble stilbene as a dispersant. *Advanced Materials*, **2011**, 23, 3922-5	24	26
271	Coaxially Stacked Coronene Columns inside Single-Walled Carbon Nanotubes. *Angewandte Chemie*, **2011**, 123, 4955-4959	3.6	17

270	Coaxially stacked coronene columns inside single-walled carbon nanotubes. *Angewandte Chemie - International Edition*, **2011**, 50, 4853-7	16.4	87
269	Embedding carbon nanotube–epoxy resin complex into porous alumina for efficiently heat-sinked saturable absorbers. *Microelectronic Engineering*, **2011**, 88, 2304-2307	2.5	1
268	Inkjet Printing of Carbon Nanotube Complementary Inverters. *Applied Physics Express*, **2011**, 4, 105101	2.4	15
267	Disentanglement of the unoccupied electronic structure in metallic and semiconducting C60 peapods. *Physical Review B*, **2011**, 83,	3.3	7
266	Purity and Defect Characterization of Single-Wall Carbon Nanotubes Using Raman Spectroscopy. *Journal of Nanomaterials*, **2011**, 2011, 1-7	3.2	56
265	Inkjet printing of single-walled carbon nanotube thin-film transistors patterned by surface modification. *Applied Physics Letters*, **2011**, 99, 183106	3.4	36
264	Confined water inside single-walled carbon nanotubes: global phase diagram and effect of finite length. *Journal of Chemical Physics*, **2011**, 134, 244501	3.9	112
263	Analysis of the reactivity and selectivity of fullerene dimerization reactions at the atomic level. *Nature Chemistry*, **2010**, 2, 117-24	17.6	115
262	One-Dimensional Oxygen and Helical Oxygen Nanotubes inside Carbon Nanotubes. *Journal of the Physical Society of Japan*, **2010**, 79, 023601	1.5	14
261	Intrinsic magnetoresistance of single-walled carbon nanotubes probed by a noncontact method. *Physical Review Letters*, **2010**, 104, 016803	7.4	12
260	Low-Voltage Operation of Ink-Jet-Printed Single-Walled Carbon Nanotube Thin Film Transistors. *Japanese Journal of Applied Physics*, **2010**, 49, 02BD09	1.4	17
259	Transport mechanisms in metallic and semiconducting single-wall carbon nanotube networks. *ACS Nano*, **2010**, 4, 4027-32	16.7	140
258	Diameter-Selective Metal/Semiconductor Separation of Single-wall Carbon Nanotubes by Agarose Gel. *Journal of Physical Chemistry C*, **2010**, 114, 9270-9276	3.8	84
257	Influence of Aromatic Environments on the Physical Properties of β-Carotene. *Journal of Physical Chemistry C*, **2010**, 114, 2524-2530	3.8	11
256	Ultralow-repetition-rate, high-energy, polarization-maintaining, Er-doped, ultrashort-pulse fiber laser using single-wall-carbon-nanotube saturable absorber. *Optics Express*, **2010**, 18, 20673-80	3.3	35
255	Combined experimental and ab initio study of the electronic structure of narrow-diameter single-wall carbon nanotubes with predominant (6,4),(6,5) chirality. *Physical Review B*, **2010**, 82,	3.3	17
254	Anisotropic transport in graphene on SiC substrate with periodic nanofacets. *Applied Physics Letters* , **2010**, 96, 062111	3.4	27
253	Global Phase Diagram of Water Confined on the Nanometer Scale. *Journal of the Physical Society of Japan*, **2010**, 79, 083802	1.5	9

252	Bright Luminescence and Exciton Energy Transfer in Polymer-Wrapped Single-Walled Carbon Nanotube Bundles. *Journal of Physical Chemistry Letters*, **2010**, 1, 3243-3248	6.4	22
251	An X-ray absorption approach to mixed and metallicity-sorted single-walled carbon nanotubes. *Journal of Materials Science*, **2010**, 45, 5318-5322	4.3	8
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