Hiromichi Kataura

List of Publications by Citations

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	Optical properties of single-wall carbon nanotubes. *Synthetic Metals*, **1999**, 103, 2555-2558	3.6	2028
412	Large-scale single-chirality separation of single-wall carbon nanotubes by simple gel chromatography. *Nature Communications*, **2011**, 2, 309	17.4	661
411	Stable and controlled amphoteric doping by encapsulation of organic molecules inside carbon nanotubes. *Nature Materials*, **2003**, 2, 683-8	27	472
410	Direct observation of Tomonaga-Luttinger-liquid state in carbon nanotubes at low temperatures. *Nature*, **2003**, 426, 540-4	50.4	422
409	Diameter control of single-walled carbon nanotubes. *Carbon*, **2000**, 38, 1691-1697	10.4	277
408	Simple and scalable gel-based separation of metallic and semiconducting carbon nanotubes. *Nano Letters*, **2009**, 9, 1497-500	11.5	272
407	Gas adsorption in the inside and outside of single-walled carbon nanotubes. *Chemical Physics Letters*, **2001**, 336, 205-211	2.5	269
406	High-yield fullerene encapsulation in single-wall carbon nanotubes. *Synthetic Metals*, **2001**, 121, 1195-1196	3.6	249
405	Ordered water inside carbon nanotubes: formation of pentagonal to octagonal ice-nanotubes. *Chemical Physics Letters*, **2005**, 401, 534-538	2.5	245
404	Determination of SWCNT diameters from the Raman response of the radial breathing mode. *European Physical Journal B*, **2001**, 22, 307-320	1.2	231
403	Amphoteric doping of single-wall carbon-nanotube thin films as probed by optical absorption spectroscopy. *Physical Review B*, **1999**, 60, 13339-13342	3.3	221
402	Optical properties of fullerene and non-fullerene peapods. *Applied Physics A: Materials Science and Processing*, **2002**, 74, 349-354	2.6	208
401	Phase Transition in Confined Water Inside Carbon Nanotubes. *Journal of the Physical Society of Japan*, **2002**, 71, 2863-2866	1.5	201
400	Tunable carbon nanotube thin-film transistors produced exclusively via inkjet printing. *Advanced Materials*, **2010**, 22, 3981-6	24	179
399	Highly Stabilized -Carotene in Carbon Nanotubes. *Advanced Materials*, **2006**, 18, 437-441	24	177
398	Giant Seebeck coefficient in semiconducting single-wall carbon nanotube film. *Applied Physics Express*, **2014**, 7, 025103	2.4	170
397	Tunable room-temperature single-photon emission at telecom wavelengths from sp3 defects in carbon nanotubes. *Nature Photonics*, **2017**, 11, 577-582	33.9	166

396	Selective oxidation of semiconducting single-wall carbon nanotubes by hydrogen peroxide. *Journal of Physical Chemistry B*, **2006**, 110, 25-9	3.4	166
395	A Catalytic Reaction Inside a Single-Walled Carbon Nanotube. *Advanced Materials*, **2008**, 20, 1443-1449	24	159
394	Detailed analysis of the mean diameter and diameter distribution of single-wall carbon nanotubes from their optical response. *Physical Review B*, **2002**, 66,	3.3	155
393	Ultrashort pulse-generation by saturable absorber mirrors based on polymer-embedded carbon nanotubes. *Optics Express*, **2005**, 13, 8025-31	3.3	151
392	High-Yield Separation of Metallic and Semiconducting Single-Wall Carbon Nanotubes by Agarose Gel Electrophoresis. *Applied Physics Express*, **2008**, 1, 114001	2.4	149
391	Unusual high degree of unperturbed environment in the interior of single-wall carbon nanotubes. *Physical Review Letters*, **2003**, 90, 225501	7.4	147
390	Water-filled single-wall carbon nanotubes as molecular nanovalves. *Nature Materials*, **2007**, 6, 135-41	27	143
389	Industrial-scale separation of high-purity single-chirality single-wall carbon nanotubes for biological imaging. *Nature Communications*, **2016**, 7, 12056	17.4	141
388	Transport mechanisms in metallic and semiconducting single-wall carbon nanotube networks. *ACS Nano*, **2010**, 4, 4027-32	16.7	140
387	Visualizing and identifying single atoms using electron energy-loss spectroscopy with low accelerating voltage. *Nature Chemistry*, **2009**, 1, 415-8	17.6	138
386	Thermal expansion of single-walled carbon nanotube (SWNT) bundles: X-ray diffraction studies. *Physical Review B*, **2001**, 64,	3.3	138
385	Electrochemical tuning of electronic states in single-wall carbon nanotubes studied by in situ absorption spectroscopy and ac resistance. *Applied Physics Letters*, **2001**, 78, 3433-3435	3.4	134
384	Metallic polymers of C(60) inside single-walled carbon nanotubes. *Physical Review Letters*, **2001**, 87, 267401	7.4	125
383	High-efficiency single-chirality separation of carbon nanotubes using temperature-controlled gel chromatography. *Nano Letters*, **2013**, 13, 1996-2003	11.5	124
382	Optical and Conductive Characteristics of Metallic Single-Wall Carbon Nanotubes with Three Basic Colors; Cyan, Magenta, and Yellow. *Applied Physics Express*, **2008**, 1, 034003	2.4	124
381	Transition from a Tomonaga-Luttinger liquid to a fermi liquid in potassium-intercalated bundles of single-wall carbon nanotubes. *Physical Review Letters*, **2004**, 93, 096805	7.4	124
380	Analysis of the reactivity and selectivity of fullerene dimerization reactions at the atomic level. *Nature Chemistry*, **2010**, 2, 117-24	17.6	115
379	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

378	Photosensitive function of encapsulated dye in carbon nanotubes. *Journal of the American Chemical Society*, **2007**, 129, 4992-7	16.4	111
377	All-polarization-maintaining Er-doped ultrashort-pulse fiber laser using carbon nanotube saturable absorber. *Optics Express*, **2008**, 16, 9429-35	3.3	110
376	Structure changes of single-wall carbon nanotubes and single-wall carbon nanohorns caused by heat treatment. *Carbon*, **2003**, 41, 1273-1280	10.4	110
375	Sub-200-fs pulsed erbium-doped fiber laser using a carbon nanotube-polyvinylalcohol mode locker. *Applied Physics Letters*, **2006**, 88, 051118	3.4	108
374	Continuous Separation of Metallic and Semiconducting Carbon Nanotubes Using Agarose Gel. *Applied Physics Express*, **2009**, 2, 125002	2.4	103
373	Radial breathing modes of multiwalled carbon nanotubes. *Chemical Physics Letters*, **2002**, 361, 169-174	2.5	99
372	Photoconductivity in Semiconducting Single-Walled Carbon Nanotubes. *Japanese Journal of Applied Physics*, **2001**, 40, L1229-L1231	1.4	99
371	Dispersion of Single-Walled Carbon Nanotube Bundles in Nonaqueous Solution. *Journal of Physical Chemistry B*, **2004**, 108, 18395-18397	3.4	98
370	Filling factors, structural, and electronic properties of C60 molecules in single-wall carbon nanotubes. *Physical Review B*, **2002**, 65,	3.3	98
369	Structural transformation from single-wall to double-wall carbon nanotube bundles. *Physical Review B*, **2003**, 68,	3.3	95
368	Hydrogen storage in single-walled carbon nanotube bundles and peapods. *Chemical Physics Letters*, **2002**, 358, 213-218	2.5	90
367	Coaxially stacked coronene columns inside single-walled carbon nanotubes. *Angewandte Chemie - International Edition*, **2011**, 50, 4853-7	16.4	87
366	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
365	Dielectric properties of water inside single-walled carbon nanotubes. *ACS Nano*, **2009**, 3, 1279-87	16.7	84
364	Encapsulated and hollow closed-cage structures of WS2 and MoS2 prepared by laser ablation at 450□1050□C. *Chemical Physics Letters*, **2001**, 340, 242-248	2.5	83
363	Coulomb effects on the fundamental optical transition in semiconducting single-walled carbon nanotubes: Divergent behavior in the small-diameter limit. *Physical Review B*, **2002**, 65,	3.3	83
362	Control of Carrier Density by a Solution Method in Carbon-Nanotube Devices. *Advanced Materials*, **2005**, 17, 2430-2434	24	82
361	Optical Evaluation of the Metal-to-Semiconductor Ratio of Single-Wall Carbon Nanotubes. *Journal of Physical Chemistry C*, **2008**, 112, 13187-13191	3.8	80

360	Atomic structure and electronic properties of single-wall carbon nanotubes probed by scanning tunneling microscope at room temperature. *Applied Physics Letters*, **1998**, 73, 3839-3841	3.4	79
359	Raman Spectroscopy of Size-Selected Linear Polyyne Molecules C2nH2 (n = 4□) Encapsulated in Single-Wall Carbon Nanotubes. *Journal of Physical Chemistry C*, **2007**, 111, 5178-5183	3.8	78
358	Carbon Nanotube-Poly(vinylalcohol) Nanocomposite Film Devices: Applications for Femtosecond Fiber Laser Mode Lockers and Optical Amplifier Noise Suppressors. *Japanese Journal of Applied Physics*, **2005**, 44, 1621-1625	1.4	78
357	Growth of carbon nanotubes via twisted graphene nanoribbons. *Nature Communications*, **2013**, 4, 2548	17.4	77
356	Experimental determination of excitonic band structures of single-walled carbon nanotubes using circular dichroism spectra. *Nature Communications*, **2016**, 7, 12899	17.4	76
355	Highly Stabilized Conductivity of Metallic Single Wall Carbon Nanotube Thin Films. *Journal of Physical Chemistry C*, **2008**, 112, 3591-3596	3.8	76
354	Diameter Enlargement of HiPco Single-Wall Carbon Nanotubes by Heat Treatment. *Nano Letters*, **2001**, 1, 487-489	11.5	76
353	Imaging the dynamic behaviour of individual retinal chromophores confined inside carbon nanotubes. *Nature Nanotechnology*, **2007**, 2, 422-5	28.7	74
352	Anisotropic optical properties of mechanically aligned single-walled carbon nanotubes in polymer. *Applied Physics A: Materials Science and Processing*, **2004**, 78, 1117-1120	2.6	73
351	Polarization measurements in tip-enhanced Raman spectroscopy applied to single-walled carbon nanotubes. *Chemical Physics Letters*, **2005**, 410, 136-141	2.5	73
350	Multiple splitting of G-band modes from individual multiwalled carbon nanotubes. *Applied Physics Letters*, **2002**, 81, 2550-2552	3.4	73
349	Helicity and packing of single-walled carbon nanotubes studied by electron nanodiffraction. *Chemical Physics Letters*, **1997**, 268, 101-106	2.5	72
348	Fine tuning the charge transfer in carbon nanotubes via the interconversion of encapsulated molecules. *Physical Review B*, **2008**, 77,	3.3	70
347	Pressure dependence of the optical absorption spectra of single-walled carbon nanotube films. *Physical Review B*, **2000**, 62, 1643-1646	3.3	69
346	Electron energy-loss spectroscopy of electron states in isolated carbon nanostructures. *Physical Review B*, **2001**, 63,	3.3	68
345	Dynamics of carbon nanotube growth from fullerenes. *Nano Letters*, **2007**, 7, 2428-34	11.5	67
344	Single-walled carbon nanotube aggregates for solution-processed field effect transistors. *Chemical Physics Letters*, **2004**, 394, 110-113	2.5	67
343	Light-harvesting function of □carotene inside carbon nanotubes. *Physical Review B*, **2006**, 74,	3.3	66

342	Electrochemical Tuning of Electronic Structure of C60 and C70 Fullerene Peapods: In Situ Visible Near-Infrared and Raman Study. *Journal of Physical Chemistry B*, **2003**, 107, 7666-7675	3.4	66
341	Near-Infrared Saturable Absorption of Single-Wall Carbon Nanotubes Prepared by Laser Ablation Method. *Japanese Journal of Applied Physics*, **2003**, 42, L494-L496	1.4	66
340	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
339	Disentanglement of the electronic properties of metallicity-selected single-walled carbon nanotubes. *Physical Review B*, **2009**, 80,	3.3	62
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337	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
336	Chiral-angle distribution for separated single-walled carbon nanotubes. *Nano Letters*, **2008**, 8, 3151-4	11.5	60
335	Electronic properties of FeCl3-intercalated single-wall carbon nanotubes. *Physical Review B*, **2004**, 70,	3.3	60
334	Quasicontinuous electron and hole doping of C60 peapods. *Physical Review B*, **2003**, 67,	3.3	60
333	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
332	Screening the missing electron: nanochemistry in action. *Physical Review Letters*, **2009**, 102, 046804	7.4	58
331	Fluorination of open- and closed-end single-walled carbon nanotubes. *Physical Chemistry Chemical Physics*, **2004**, 6, 1769	3.6	58
330	Pressure screening in the interior of primary shells in double-wall carbon nanotubes. *Physical Review B*, **2005**, 71,	3.3	58
329	Electrochemical switching of the Peierls-like transition in metallic single-walled carbon nanotubes. *Physical Review B*, **2005**, 72,	3.3	58
328	Optical isomer separation of single-chirality carbon nanotubes using gel column chromatography. *Nano Letters*, **2014**, 14, 6237-43	11.5	57
327	In situ Vis–NIR and Raman spectroelectrochemistry at fullerene peapods. *Chemical Physics Letters*, **2002**, 361, 79-85	2.5	57
326	Purity and Defect Characterization of Single-Wall Carbon Nanotubes Using Raman Spectroscopy. *Journal of Nanomaterials*, **2011**, 2011, 1-7	3.2	56
325	Electrochemical tuning of electronic structure of carbon nanotubes and fullerene peapods. *Carbon*, **2004**, 42, 1011-1019	10.4	56

324	Near-Infrared Photoluminescent Carbon Nanotubes for Imaging of Brown Fat. *Scientific Reports*, **2017**, 7, 44760	4.9	55
323	Doping mechanism in single-wall carbon nanotubes studied by optical absorption. *Synthetic Metals*, **2000**, 115, 283-287	3.6	55
322	Unraveling van Hove singularities in x-ray absorption response of single-wall carbon nanotubes. *Physical Review B*, **2007**, 75,	3.3	54
321	Chirality-Dependent Combustion of Single-Walled Carbon Nanotubes. *Journal of Physical Chemistry C*, **2007**, 111, 9671-9677	3.8	53
320	Anisotropic saturable absorption of single-wall carbon nanotubes aligned in polyvinyl alcohol. *Chemical Physics Letters*, **2005**, 405, 288-293	2.5	53
319	Separations of Metallic and Semiconducting Carbon Nanotubes by Using Sucrose as a Gradient Medium. *Journal of Physical Chemistry C*, **2008**, 112, 18889-18894	3.8	51
318	Anomaly of X-ray Diffraction Profile in Single-Walled Carbon Nanotubes. *Japanese Journal of Applied Physics*, **1999**, 38, L668-L670	1.4	51
317	Helical superstructures of fullerene peapods and empty single-walled carbon nanotubes formed in water. *Journal of Physical Chemistry B*, **2005**, 109, 13076-82	3.4	50
316	Electrochromic carbon electrodes: controllable visible color changes in metallic single-wall carbon nanotubes. *Advanced Materials*, **2011**, 23, 2811-4	24	49
315	Water dynamics inside single-wall carbon nanotubes: NMR observations. *Physical Review B*, **2006**, 74,	3.3	49
314	Thermodynamic determination of the metal/semiconductor separation of carbon nanotubes using hydrogels. *ACS Nano*, **2012**, 6, 10195-205	16.7	48
313	Magnetic field dependence of the spin-12 and spin-1 Kondo effects in a quantum dot. *Physical Review B*, **2007**, 76,	3.3	47
312	On the diffraction pattern of C (mathsf{_{60}}) peapods. *European Physical Journal B*, **2004**, 42, 31-45	1.2	47
311	Interaction between concentric tubes in DWCNTs. *European Physical Journal B*, **2004**, 42, 345-350	1.2	47
310	High-yield production of single-wall carbon nanotubes in nitrogen gas. *Chemical Physics Letters*, **2003**, 372, 45-50	2.5	47
309	Narrow-band single-photon emission through selective aryl functionalization of zigzag carbon nanotubes. *Nature Chemistry*, **2018**, 10, 1089-1095	17.6	47
308	Self-Assembled Microhoneycomb Network of Single-Walled Carbon Nanotubes for Solar Cells. *Journal of Physical Chemistry Letters*, **2013**, 4, 2571-2576	6.4	46
307	Electronic and mechanical coupling between guest and host in carbon peapods. *Physical Review B*, **2004**, 69,	3.3	46

306	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
305	Photoconductivity of single-wall carbon nanotube films. *Carbon*, **2004**, 42, 919-922	10.4	45
304	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
303	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
302	XRD and TEM study of high pressure treated single-walled carbon nanotubes and C60-peapods. *Carbon*, **2005**, 43, 37-45	10.4	44
301	Dispersion-managed, high-power, Er-doped ultrashort-pulse fiber laser using carbon-nanotube polyimide film. *Optics Express*, **2011**, 19, 21874-9	3.3	43
300	Polarization-maintaining, high-energy, wavelength-tunable, Er-doped ultrashort pulse fiber laser using carbon-nanotube polyimide film. *Optics Express*, **2009**, 17, 20233-41	3.3	43
299	Optical Properties and Raman Spectroscopy of Carbon Nanotubes **2001**, 213-247		43
298	Formation of Thin Single-Wall Carbon Nanotubes by Laser Vaporization of Rh/Pd-Graphite Composite Rod. *Japanese Journal of Applied Physics*, **1998**, 37, L616-L618	1.4	43
297	Catalyst and chirality dependent growth of carbon nanotubes determined through nano-test tube chemistry. *Advanced Materials*, **2010**, 22, 3685-9	24	42
296	Optical Characterization of Double-Wall Carbon Nanotubes: Evidence for Inner Tube Shielding. *Journal of Physical Chemistry C*, **2008**, 112, 11194-11198	3.8	42
295	Characteristic Raman spectra of multiwalled carbon nanotubes. *Physica B: Condensed Matter*, **2002**, 323, 265-266	2.8	42
294	Time period for the growth of single-wall carbon nanotubes in the laser ablation process: evidence from gas dynamic studies and time resolved imaging. *Chemical Physics Letters*, **2000**, 332, 467-473	2.5	42
293	Absorption spectroscopy of single-wall carbon nanotubes: effects of chemical and electrochemical doping. *Synthetic Metals*, **2001**, 121, 1201-1202	3.6	42
292	Photoemission and inverse photoemission study of the electronic structure of C60 fullerenes encapsulated in single-walled carbon nanotubes. *Physical Review B*, **2006**, 73,	3.3	41
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290	Pressure-polymerization of C60 molecules in a carbon nanotube. *Chemical Physics Letters*, **2006**, 418, 260-263	2.5	39
289	Analysis of the concentration of C60 fullerenes in single wall carbon nanotubes. *Applied Physics A: Materials Science and Processing*, **2003**, 76, 449-456	2.6	39

288	Diameter selective reaction processes of single-wall carbon nanotubes. *Physical Review B*, **2005**, 71,	3.3	39
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285	Ultrasensitive detection of DNA molecules with high on/off single-walled carbon nanotube network. *Advanced Materials*, **2010**, 22, 4867-71	24	38
284	Optical properties of semiconducting and metallic single wall carbon nanotubes: effects of doping and high pressure. *Synthetic Metals*, **2001**, 116, 405-409	3.6	38
283	X-Ray Photoemission Spectroscopy of Nd2-xCexCuO4-yand La2-xSrxCuO4. *Japanese Journal of Applied Physics*, **1989**, 28, L1952-L1954	1.4	38
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281	Ultrafast relaxation dynamics of photoexcited states in semiconducting single-walled carbon nanotubes. *Physica B: Condensed Matter*, **2002**, 323, 237-238	2.8	37
280	Multiwalled carbon nanotubes prepared by hydrogen arc. *Diamond and Related Materials*, **2000**, 9, 847-851	3.5	37
279	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
278	Inkjet printing of single-walled carbon nanotube thin-film transistors patterned by surface modification. *Applied Physics Letters*, **2011**, 99, 183106	3.4	36
277	IR-extended photoluminescence mapping of single-wall and double-wall carbon nanotubes. *Journal of Physical Chemistry B*, **2006**, 110, 17420-4	3.4	36
276	Electrochemical behavior of metallic and semiconducting single-wall carbon nanotubes for electric double-layer capacitor. *Carbon*, **2012**, 50, 1422-1424	10.4	35
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274	C70Molecular Stumbling inside Single-Walled Carbon Nanotubes. *Journal of the Physical Society of Japan*, **2003**, 72, 45-48	1.5	35
273	Metallization of single-wall carbon nanotube thin films induced by gas phase iodination. *Carbon*, **2015**, 94, 768-774	10.4	34
272	How confinement affects the dynamics of c60 in carbon nanopeapods. *Physical Review Letters*, **2008**, 101, 065507	7.4	34
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269	Gate capacitance in electrochemical transistor of single-walled carbon nanotube. *Applied Physics Letters*, **2006**, 88, 073104	3.4	32
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265	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
264	Arginine side chains as a dispersant for individual single-wall carbon nanotubes. *Chemistry - A European Journal*, **2014**, 20, 4922-30	4.8	29
263	Performance Enhancement of Thin-Film Transistors by Using High-Purity Semiconducting Single-Wall Carbon Nanotubes. *Applied Physics Express*, **2009**, 2, 071601	2.4	29
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260	Simultaneous chirality and enantiomer separation of metallic single-wall carbon nanotubes by gel column chromatography. *Analytical Chemistry*, **2015**, 87, 9467-72	7.8	28
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258	Growth of single-walled carbon nanotubes from the condensed phase. *Chemical Physics Letters*, **2001**, 349, 383-388	2.5	28
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256	Internal charge transfer in metallicity sorted ferrocene filled carbon nanotube hybrids. *Carbon*, **2013**, 59, 237-245	10.4	27
255	Anisotropic transport in graphene on SiC substrate with periodic nanofacets. *Applied Physics Letters* , **2010**, 96, 062111	3.4	27
254	Highly rotational C60 dynamics inside single-walled carbon nanotubes: NMR observations. *Physical Review B*, **2008**, 77,	3.3	27
253	Solution-Processed Single-Walled Carbon Nanotube Transistors with High Mobility and Large On/Off Ratio. *Japanese Journal of Applied Physics*, **2006**, 45, 6524-6527	1.4	27

252	Structural evolutions of carbon nano-peapods under electron microscopic observation. *Chemical Physics Letters*, **2004**, 390, 462-466	2.5	27
251	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
250	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
249	Photoinduced dispersibility tuning of carbon nanotubes by a water-soluble stilbene as a dispersant. *Advanced Materials*, **2011**, 23, 3922-5	24	26
248	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
247	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
246	Double-wall carbon nanotubes under pressure: Probing the response of individual tubes and their intratube correlation. *Physical Review B*, **2005**, 72,	3.3	25
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244	Structural properties of carbon peapods under extreme conditions studied using in situ x-ray diffraction. *Physical Review B*, **2006**, 74,	3.3	24
243	Stretching of carbon-carbon bonds in a 0.7nm diameter carbon nanotube studied by electron diffraction. *Physical Review B*, **2004**, 70,	3.3	24
242	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
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239	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
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