Riichiro Saito

List of Publications by Year in Descending Order

397 papers	42,648 citations	85 h-index	203 g-index
419 ext. papers	46,066 ext. citations	4.8 avg, IF	7.35 L-index

#	Paper	IF	Citations
397	Complex Raman Tensor in Helicity-Changing Raman Spectra of Black Phosphorus under Circularly Polarized Light.. *Journal of Physical Chemistry Letters*, **2022**, 1241-1248	6.4	0
396	Enhanced thermoelectric performance by van Hove singularities in the density of states of type-II nodal-line semimetals. *Physical Review B*, **2022**, 105,	3.3	1
395	Resonance-Enhanced Excitation of Interlayer Vibrations in Atomically Thin Black Phosphorus. *Nano Letters*, **2021**, 21, 4809-4815	11.5	2
394	The Origin of Quantum Effects in Low-Dimensional Thermoelectric Materials. *Advanced Quantum Technologies*, **2021**, 4, 2000115	4.3	1
393	Perspective of C60 and Nanotube Research. *Materia Japan*, **2021**, 60, 147-150	0.1	1
392	Switching Behavior of a Heterostructure Based on Periodically Doped Graphene Nanoribbon. *Physical Review Applied*, **2021**, 16,	4.3	14
391	Selection rule for Raman spectra of two-dimensional materials using circularly-polarized vortex light. *Physical Chemistry Chemical Physics*, **2021**, 23, 17271-17278	3.6	1
390	Raman spectroscopy for carbon nanotube applications. *Journal of Applied Physics*, **2021**, 129, 021102	2.5	51
389	Step-like conductance of a silicene pseudospin junction. *Journal of Physics Condensed Matter*, **2020**, 32, 425301	1.8	
388	Scaling law for strain dependence of Raman spectra in transition-metal dichalcogenides. *Journal of Raman Spectroscopy*, **2020**, 51, 1353-1361	2.3	3
387	Scaling Laws in Synchronization of Metronomic Oscillatory Systems. *Journal of the Physical Society of Japan*, **2020**, 89, 054002	1.5	
386	Independent degrees of freedom in two-dimensional materials. *Physical Review B*, **2020**, 101,	3.3	35
385	Confinement Effect in Thermoelectric Properties of TwoDimensional Materials. *MRS Advances*, **2020**, 5, 469-479	0.7	2
384	Anomalous phonon-mode dependence in polarized Raman spectroscopy of the topological Weyl semimetal TaP. *Physical Review B*, **2020**, 101,	3.3	3
383	Circular dichroism and Faraday and Kerr rotation in two-dimensional materials with intrinsic Hall conductivities. *Physical Review B*, **2020**, 101,	3.3	1
382	Anisotropic Fano resonance in the Weyl semimetal candidate LaAlSi. *Physical Review B*, **2020**, 102,	3.3	6
381	Strain effect on circularly polarized electroluminescence in transition metal dichalcogenides. *Physical Review Research*, **2020**, 2,	3.9	57

380	First-principles study of mechanical, electronic and optical properties of Janus structure in transition metal dichalcogenides. *Applied Surface Science*, **2020**, 526, 146730	6.7	22
379	Surface plasmons in graphene and carbon nanotubes. *Carbon*, **2020**, 167, 455-474	10.4	16
378	Anionic redox in a-(Mo3S11)n polymer cathode for all-solid-state Li-ion battery. *Electrochimica Acta*, **2020**, 332, 135218	6.7	6
377	Intersubband Plasmon Observation in Electrochemically Gated Carbon Nanotube Films. *ACS Applied Electronic Materials*, **2020**, 2, 195-203	4	8
376	Origin of the Flat Band in Heavily Cs-Doped Graphene. *ACS Nano*, **2020**, 14, 1055-1069	16.7	14
375	Characterization of Excitonic Nature in Raman Spectra Using Circularly Polarized Light. *ACS Nano*, **2020**, 14, 10527-10535	16.7	15
374	Circular dichroism of doped carbon nanotubes. *Journal of Applied Physics*, **2020**, 128, 164301	2.5	2
373	Temperature-dependent optical constants of monolayer [Formula: see text], [Formula: see text], [Formula: see text], and [Formula: see text]: spectroscopic ellipsometry and first-principles calculations. *Scientific Reports*, **2020**, 10, 15282	4.9	18
372	Tunable circular dichroism and valley polarization in the modified Haldane model. *Physical Review B* , **2019**, 99,	3.3	9
371	To Be Positive or Not to Be Positive: That Is the Question of Magnetoresistance. *JPSJ News and Comments*, **2019**, 16, 03	0.1	
370	Designing high-performance thermoelectrics in two-dimensional tetradymites. *Nano Energy*, **2019**, 58, 743-749	17.1	15
369	Intersubband plasmon excitations in doped carbon nanotubes. *Physical Review B*, **2019**, 99,	3.3	15
368	Non-vertical optical transition in near-field enhanced spectroscopy of graphene. *Journal of Physics Condensed Matter*, **2019**, 31, 265701	1.8	4
367	Planar rotation of electric field induced by edge-plasmon in a graphene nanoribbon. *Physical Review B*, **2019**, 100,	3.3	3
366	New two-dimensional phase of tin chalcogenides: Candidates for high-performance thermoelectric materials. *Physical Review Materials*, **2019**, 3,	3.2	26
365	Resonance Raman Spectroscopy of Graphene and Carbon Nanotubes. *World Scientific Series on Carbon Nanoscience*, **2019**, 113-142	0.5	0
364	Thermoelectric Properties of Carbon Nanotubes. *Energies*, **2019**, 12, 4561	3.1	22
363	Simultaneous Anionic and Cationic Redox in the Mo3S11 Polymer Electrode of a Sodium-Ion Battery. *Journal of Physical Chemistry C*, **2019**, 123, 30856-30862	3.8	4

362	Double Resonance Raman Spectroscopy of Two-Dimensional Materials. *Springer Series in Materials Science*, **2019**, 131-162	0.9	
361	Thermoelectric performance of monolayer InSe improved by convergence of multivalley bands. *Journal of Applied Physics*, **2019**, 125, 082502	2.5	23
360	Ballistic and Diffusive Thermal Conductivity of Graphene. *Physical Review Applied*, **2018**, 9,	4.3	12
359	Universal Curve of Optimum Thermoelectric Figures of Merit for Bulk and Low-Dimensional Semiconductors. *Physical Review Applied*, **2018**, 9,	4.3	12
358	Spontaneous antiferromagnetic order and strain effect on electronic properties of graphyne. *Carbon*, **2018**, 131, 223-228	10.4	13
357	Significant enhancement of light absorption in undoped graphene using dielectric multilayer system. *Applied Physics Letters*, **2018**, 112, 073101	3.4	16
356	Two-dimensional MoS2 electromechanical actuators. *Journal Physics D: Applied Physics*, **2018**, 51, 075306	3	34
355	Origin of band bending at domain boundaries of MoS2: First-principles study. *Japanese Journal of Applied Physics*, **2018**, 57, 04FP09	1.4	1
354	Energy Band Gap Dependence of Valley Polarization of the Hexagonal Lattice. *Journal of the Physical Society of Japan*, **2018**, 87, 024710	1.5	9
353	Interplay of valley selection and helicity exchange of light in Raman scattering for graphene and MoS2. *Physical Review B*, **2018**, 97,	3.3	17
352	Deep-ultraviolet Raman scattering spectroscopy of monolayer WS. *Scientific Reports*, **2018**, 8, 11398	4.9	9
351	Understanding Interlayer Coupling in TMD-hBN Heterostructure by Raman Spectroscopy. *IEEE Transactions on Electron Devices*, **2018**, 65, 4059-4067	2.9	18
350	Quantum Description of Surface Plasmon Excitation by Light in Graphene. *Physica Status Solidi (B): Basic Research*, **2018**, 255, 1800181	1.3	3
349	Perfect Circular Dichroism in the Haldane Model. *Journal of the Physical Society of Japan*, **2018**, 87, 063708	1.5	10
348	Atomic Layer Materials with Moir structure. *Vacuum and Surface Science*, **2018**, 61, 703-703	0	
347	Enhancement of the Electric Field and Diminishment of the Group Velocity of Light in Dielectric Multilayer Systems: A General Description. *Physical Review Applied*, **2018**, 10,	4.3	3
346	Inversion domain boundaries in MoSe layers.. *RSC Advances*, **2018**, 8, 33391-33397	3.7	7
345	Resonance Raman Spectrum of Doped Epitaxial Graphene at the Lifshitz Transition. *Nano Letters*, **2018**, 18, 6045-6056	11.5	7

344	Conservation law of angular momentum in helicity-dependent Raman and Rayleigh scattering. *Physical Review B*, **2018**, 97,	3.3	12
343	Selective coherent phonon-mode generation in single-wall carbon nanotubes. *Journal of Physics Condensed Matter*, **2017**, 29, 055302	1.8	2
342	Sensitive Phonon-Based Probe for Structure Identification of 1TRMoTe. *Journal of the American Chemical Society*, **2017**, 139, 8396-8399	16.4	30
341	Charge-induced electrochemical actuation of armchair carbon nanotube bundles. *Carbon*, **2017**, 118, 278-284	10.4	10
340	Electronic and Optical Properties of Single Wall Carbon Nanotubes. *Topics in Current Chemistry*, **2017**, 375, 7	7.2	12
339	Stability and electronic properties of two-dimensional indium iodide. *Physical Review B*, **2017**, 95,	3.3	7
338	Giant Terahertz-Wave Absorption by Monolayer Graphene in a Total Internal Reflection Geometry. *ACS Photonics*, **2017**, 4, 121-126	6.3	24
337	Three-dimensional carbon Archimedean lattices for high-performance electromechanical actuators. *Carbon*, **2017**, 125, 472-479	10.4	11
336	Hidden symmetries in N-layer dielectric stacks. *Journal of Physics Condensed Matter*, **2017**, 29, 455303	1.8	5
335	Raman Excitation Profile of the G-band Enhancement in Twisted Bilayer Graphene. *Brazilian Journal of Physics*, **2017**, 47, 589-593	1.2	8
334	Two-dimensional InSe as a potential thermoelectric material. *Applied Physics Letters*, **2017**, 111, 092107	3.4	69
333	Circular dichroism of single-wall carbon nanotubes. *Physical Review B*, **2017**, 95,	3.3	18
332	First-principles study on interlayer state in alkali and alkaline earth metal atoms intercalated bilayer graphene. *Surface Science*, **2017**, 665, 1-9	1.8	14
331	Negative Refraction in Weyl Semimetals. *Journal of the Physical Society of Japan*, **2017**, 86, 104703	1.5	9
330	Quantum interference on electron scattering in graphene by carbon impurities in underlying h-BN. *Physical Review B*, **2017**, 95,	3.3	5
329	Two-phonon Absorption Spectra in the Layered Honeycomb Compound □RuCl3. *Journal of the Physical Society of Japan*, **2017**, 86, 123709	1.5	8
328	Size effect in thermoelectric power factor of nondegenerate and degenerate low-dimensional semiconductors. *Materials Today: Proceedings*, **2017**, 4, 12368-12373	1.4	7
327	Phonon-assisted indirect transitions in angle-resolved photoemission spectra of graphite and graphene. *Physical Review B*, **2016**, 94,	3.3	9

326	In-Plane Optical Anisotropy of Layered Gallium Telluride. *ACS Nano*, **2016**, 10, 8964-72	16.7	140
325	Multiple electronic Raman scatterings in a single metallic carbon nanotube. *Physical Review B*, **2016**, 93,	3.3	9
324	Raman spectroscopy of transition metal dichalcogenides. *Journal of Physics Condensed Matter*, **2016** , 28, 353002	1.8	114
323	Angular momentum and topology in semiconducting single-wall carbon nanotubes. *Physical Review B*, **2016**, 93,	3.3	20
322	Quantum Effects in the Thermoelectric Power Factor of Low-Dimensional Semiconductors. *Physical Review Letters*, **2016**, 117, 036602	7.4	77
321	Experimental determination of excitonic band structures of single-walled carbon nanotubes using circular dichroism spectra. *Nature Communications*, **2016**, 7, 12899	17.4	76
320	Intrinsic strength and failure behaviors of ultra-small single-walled carbon nanotubes. *Computational Materials Science*, **2016**, 114, 167-171	3.2	13
319	Anisotropic Electron-Photon and Electron-Phonon Interactions in Black Phosphorus. *Nano Letters*, **2016**, 16, 2260-7	11.5	266
318	Broadband transverse electric surface wave in silicene. *Applied Physics Letters*, **2016**, 109, 063103	3.4	6
317	Laser energy dependence of valley polarization in transition-metal dichalcogenides. *Physical Review B*, **2016**, 94,	3.3	16
316	Absorption of THz electromagnetic wave in two mono-layers of graphene. *Journal Physics D: Applied Physics*, **2016**, 49, 195306	3	8
315	Understanding the interactions between lithium polysulfides and N-doped graphene using density functional theory calculations. *Nano Energy*, **2016**, 25, 203-210	17.1	274
314	Fermi energy dependence of first- and second-order Raman spectra in graphene: Kohn anomaly and quantum interference effect. *Physical Review B*, **2016**, 94,	3.3	17
313	Anomalous lattice vibrations of monolayer MoS2 probed by ultraviolet Raman scattering. *Physical Chemistry Chemical Physics*, **2015**, 17, 14561-8	3.6	31
312	Origin of van Hove singularities in twisted bilayer graphene. *Carbon*, **2015**, 90, 138-145	10.4	23
311	Fermi energy-dependence of electromagnetic wave absorption in graphene. *Applied Physics Express* , **2015**, 8, 055102	2.4	17
310	Double resonance Raman modes in monolayer and few-layer MoTe2. *Physical Review B*, **2015**, 91,	3.3	76
309	Large-Area Synthesis of High-Quality Uniform Few-Layer MoTe2. *Journal of the American Chemical Society*, **2015**, 137, 11892-5	16.4	248

308	Deep-ultraviolet Raman scattering studies of monolayer graphene thin films. *Carbon*, **2015**, 81, 807-813	10.4	23
307	Diameter dependence of thermoelectric power of semiconducting carbon nanotubes. *Physical Review B*, **2015**, 92,	3.3	82
306	Photon energy dependence of angle-resolved photoemission spectroscopy in graphene. *Physical Review B*, **2015**, 92,	3.3	6
305	Valley coupling in finite-length metallic single-wall carbon nanotubes. *Physical Review B*, **2015**, 91,	3.3	17
304	Ultraviolet Raman spectroscopy of graphene and transition-metal dichalcogenides. *Physica Status Solidi (B): Basic Research*, **2015**, 252, 2363-2374	1.3	12
303	Origin of coherent G-band phonon spectra in single-wall carbon nanotubes. *Physical Review B*, **2015**, 91,	3.3	6
302	Optical Properties of Carbon Nanotubes **2014**, 77-98		2
301	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
300	Breit-Wigner-Fano line shapes in Raman spectra of graphene. *Physical Review B*, **2014**, 90,	3.3	43
299	Disorder-induced double resonant Raman process in graphene. *Physical Review B*, **2014**, 90,	3.3	13
298	Evidence for structural phase transitions and large effective band gaps in quasi-metallic ultra-clean suspended carbon nanotubes. *Nano Research*, **2013**, 6, 736-744	10	5
297	Dramatic increase in the Raman signal of functional groups on carbon nanotube surfaces. *Carbon*, **2013**, 56, 235-242	10.4	8
296	Strong magnetophonon resonance induced triple G-mode splitting in graphene on graphite probed by micromagneto Raman spectroscopy. *Physical Review B*, **2013**, 88,	3.3	16
295	Gate modulated Raman spectroscopy of graphene and carbon nanotubes. *Solid State Communications*, **2013**, 175-176, 18-34	1.6	30
294	Electronic Raman scattering and the Fano resonance in metallic carbon nanotubes. *Physical Review B*, **2013**, 88,	3.3	24
293	Coherent phonons in carbon nanotubes and graphene. *Chemical Physics*, **2013**, 413, 55-80	2.3	23
292	Direct real-time monitoring of stage transitions in graphite intercalation compounds. *ACS Nano*, **2013**, 7, 2773-80	16.7	121
291	Fano resonance in Raman scattering of graphene. *Carbon*, **2013**, 61, 373-378	10.4	29

290	Theory of coherent phonons in carbon nanotubes and graphene nanoribbons. *Journal of Physics Condensed Matter*, **2013**, 25, 144201	1.8	24
289	Excitonic effects on coherent phonon dynamics in single-wall carbon nanotubes. *Physical Review B*, **2013**, 88,	3.3	2
288	Using gate-modulated Raman scattering and electron-phonon interactions to probe single-layer graphene: A different approach to assign phonon combination modes. *Physical Review B*, **2012**, 86,	3.3	17
287	Effect of domain boundaries on the Raman spectra of mechanically strained graphene. *ACS Nano*, **2012**, 6, 10229-38	16.7	65
286	Phonon self-energy corrections to nonzero wave-vector phonon modes in single-layer graphene. *Physical Review Letters*, **2012**, 109, 046801	7.4	33
285	Observation of layer-breathing mode vibrations in few-layer graphene through combination Raman scattering. *Nano Letters*, **2012**, 12, 5539-44	11.5	134
284	Using the GRRaman cross-section to understand the phonon dynamics in bilayer graphene systems. *Nano Letters*, **2012**, 12, 2883-7	11.5	13
283	Effect of 13C isotope doping on the optical phonon modes in graphene: Localization and Raman spectroscopy. *Physical Review B*, **2012**, 85,	3.3	27
282	Raman spectroscopy of boron-doped single-layer graphene. *ACS Nano*, **2012**, 6, 6293-300	16.7	209
281	Reversible formation of ammonium persulfate/sulfuric acid graphite intercalation compounds and their peculiar Raman spectra. *ACS Nano*, **2012**, 6, 7842-9	16.7	75
280	Zone folding effect in Raman G-band intensity of twisted bilayer graphene. *Physical Review B*, **2012**, 86,	3.3	67
279	Luminescence properties of individual empty and water-filled single-walled carbon nanotubes. *ACS Nano*, **2012**, 6, 2649-55	16.7	63
278	Polarization dependence of x-ray absorption spectra in graphene. *Physical Review B*, **2012**, 85,	3.3	13
277	Asymmetric velocities of Dirac particles and Vernier spectrum in metallic single-wall carbon nanotubes. *Physical Review B*, **2012**, 85,	3.3	10
276	Coherent radial-breathing-like phonons in graphene nanoribbons. *Physical Review B*, **2012**, 85,	3.3	14
275	Unraveling the interlayer-related phonon self-energy renormalization in bilayer graphene. *Scientific Reports*, **2012**, 2, 1017	4.9	16
274	Raman characterization of ABA- and ABC-stacked trilayer graphene. *ACS Nano*, **2011**, 5, 8760-8	16.7	153
273	Raman Spectroscopy of Graphene Edges **2011**, 91-103		3

272	Observation of electronic Raman scattering in metallic carbon nanotubes. *Physical Review Letters*, **2011**, 107, 157401	7.4	41
271	Raman spectra of out-of-plane phonons in bilayer graphene. *Physical Review B*, **2011**, 84,	3.3	53
270	Tunneling time of an optical pulse in a photonic bandgap. *Journal of the Optical Society of America B: Optical Physics*, **2011**, 28, 2537	1.7	6
269	Second-order overtone and combination Raman modes of graphene layers in the range of 1690-2150 cm(-1). *ACS Nano*, **2011**, 5, 1600-5	16.7	120
268	**2011**,		359
267	First Principles Calculations of the Electronic Structure of ZrN Allotropes. *Journal of the Physical Society of Japan*, **2011**, 80, 114707	1.5	1
266	Raman spectroscopy of graphene and carbon nanotubes. *Advances in Physics*, **2011**, 60, 413-550	18.4	634
265	Raman Spectroscopy: Characterization of Edges, Defects, and the Fermi Energy of Graphene and sp2 Carbons. *Nanoscience and Technology*, **2011**, 15-55	0.6	3
264	Chirality dependence of coherent phonon amplitudes in single-wall carbon nanotubes. *Physical Review B*, **2011**, 84,	3.3	9
263	The sp2 Nanocarbons: Prototypes for Nanoscience and Nanotechnology **2011**, 1-15		2
262	Theory of Excitons in Carbon Nanotubes **2011**, 223-250		
261	Tight-Binding Method for Calculating Raman Spectra **2011**, 251-276		
260	Dispersive G?-Band and Higher-Order Processes: The Double Resonance Process **2011**, 277-298		3
259	Disorder Effects in the Raman Spectra of sp2 Carbons **2011**, 299-325		1
258	Summary of Raman Spectroscopy on sp2 Nanocarbons **2011**, 327-334		3
257	Electrons in sp2 Nanocarbons **2011**, 17-51		1
256	Vibrations in sp2 Nanocarbons **2011**, 53-72		
255	Raman Spectroscopy: From Graphite to sp2 Nanocarbons **2011**, 73-101		1

254	Quantum Description of Raman Scattering **2011**, 103-119		1
253	Symmetry Aspects and Selection Rules: Group Theory **2011**, 121-158		
252	The G-band and Time-Independent Perturbations **2011**, 159-177		1
251	The G-Band and the Time-Dependent Perturbations **2011**, 179-198		2
250	Resonance Raman Scattering: Experimental Observations of the Radial Breathing Mode **2011**, 199-222		2
249	Polar interface-induced improvement in high photocatalytic hydrogen evolution over ZnO□dS heterostructures. *Energy and Environmental Science*, **2011**, 4, 3976	35.4	133
248	Resonant Raman spectroscopy on enriched 13C carbon nanotubes. *Carbon*, **2011**, 49, 4719-4723	10.4	24
247	Fermi level dependent optical transition energy in metallic single-walled carbon nanotubes. *Carbon*, **2011**, 49, 4774-4780	10.4	12
246	Vibrational and NMR properties of polyynes. *Carbon*, **2011**, 49, 3340-3345	10.4	10
245	D band Raman intensity calculation in armchair edged graphene nanoribbons. *Physical Review B*, **2011**, 83,	3.3	13
244	Excitonic Effects on Raman Intensity of Single Wall Carbon Nanotubes. *E-Journal of Surface Science and Nanotechnology*, **2010**, 8, 358-361	0.7	
243	Confinement of Excitons for the Lowest Optical Transition Energies of Single Wall Carbon Nanotubes. *E-Journal of Surface Science and Nanotechnology*, **2010**, 8, 367-371	0.7	
242	Torsional instability of chiral carbon nanotubes. *Physical Review B*, **2010**, 81,	3.3	31
241	Calibrating the single-wall carbon nanotube resonance Raman intensity by high resolution transmission electron microscopy for a spectroscopy-based diameter distribution determination. *Applied Physics Letters*, **2010**, 96, 051910	3.4	18
240	Soliton trap in strained graphene nanoribbons. *New Journal of Physics*, **2010**, 12, 103015	2.9	15
239	Raman and fluorescence spectroscopic studies of a DNA-dispersed double-walled carbon nanotube solution. *ACS Nano*, **2010**, 4, 1060-6	16.7	24
238	Raman spectra of graphene ribbons. *Journal of Physics Condensed Matter*, **2010**, 22, 334203	1.8	35
237	Triangle defect states of hexagonal boron nitride atomic layer: Density functional theory calculations. *Physical Review B*, **2010**, 81,	3.3	56

236	Perspectives on carbon nanotubes and graphene Raman spectroscopy. *Nano Letters*, **2010**, 10, 751-8	11.5	2389
235	The fermi level dependent electronic properties of the smallest (2,2) carbon nanotube. *Nano Letters*, **2010**, 10, 3290-6	11.5	8
234	Characterizing Graphene, Graphite, and Carbon Nanotubes by Raman Spectroscopy. *Annual Review of Condensed Matter Physics*, **2010**, 1, 89-108	19.7	454
233	Dielectric constant model for environmental effects on the exciton energies of single wall carbon nanotubes. *Applied Physics Letters*, **2010**, 97, 091905	3.4	70
232	Synthesis of bandgap-controlled semiconducting single-walled carbon nanotubes. *ACS Nano*, **2010**, 4, 1012-8	16.7	49
231	Defect characterization in graphene and carbon nanotubes using Raman spectroscopy. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2010**, 368, 5355-77	3	472
230	Edge phonon state of mono- and few-layer graphene nanoribbons observed by surface and interference co-enhanced Raman spectroscopy. *Physical Review B*, **2010**, 81,	3.3	65
229	Identifying the Orientation of Edge of Graphene Using G Band Raman Spectra. *Journal of the Physical Society of Japan*, **2010**, 79, 044603	1.5	39
228	Resonance Raman spectroscopy of the radial breathing modes in carbon nanotubes. *Physica E: Low-Dimensional Systems and Nanostructures*, **2010**, 42, 1251-1261	3	95
227	Kohn anomaly in Raman spectroscopy of single wall carbon nanotubes. *Physica E: Low-Dimensional Systems and Nanostructures*, **2010**, 42, 2005-2015	3	28
226	Excitonic effects on radial breathing mode intensity of single wall carbon nanotubes. *Chemical Physics Letters*, **2010**, 497, 94-98	2.5	24
225	Chirality dependence of the dielectric constant for the excitonic transition energy of single-wall carbon nanotubes. *Physica Status Solidi (B): Basic Research*, **2010**, 247, 2847-2850	1.3	1
224	Kohn anomalies in graphene nanoribbons. *Physical Review B*, **2009**, 80,	3.3	42
223	Strong and stable photoluminescence from the semiconducting inner tubes within double walled carbon nanotubes. *Applied Physics Letters*, **2009**, 94, 083106	3.4	30
222	Resonant coherent phonon spectroscopy of single-walled carbon nanotubes. *Physical Review B*, **2009**, 79,	3.3	35
221	Diameter dependence of the dielectric constant for the excitonic transition energy of single-wall carbon nanotubes. *Physical Review Letters*, **2009**, 103, 146802	7.4	47
220	Spin–Orbit Interaction in Single Wall Carbon Nanotubes: Symmetry Adapted Tight-Binding Calculation and Effective Model Analysis. *Journal of the Physical Society of Japan*, **2009**, 78, 074707	1.5	99
219	Edge States of Zigzag Boron Nitride Nanoribbons. *Journal of the Physical Society of Japan*, **2009**, 78, 074713	1.5	26

218	Exciton energy calculations for single wall carbon nanotubes. *Physica Status Solidi (B): Basic Research*, **2009**, 246, 2581-2585	1.3	4
217	A possible buckybowl-like structure of zeolite templated carbon. *Carbon*, **2009**, 47, 1220-1230	10.4	203
216	G? band Raman spectra of single, double and triple layer graphene. *Carbon*, **2009**, 47, 1303-1310	10.4	288
215	Surface and interference coenhanced Raman scattering of graphene. *ACS Nano*, **2009**, 3, 933-9	16.7	81
214	Fermi energy dependence of the G-band resonance Raman spectra of single-wall carbon nanotubes. *Physical Review B*, **2009**, 80,	3.3	44
213	Electrochemical charging of individual single-walled carbon nanotubes. *ACS Nano*, **2009**, 3, 2320-8	16.7	49
212	Softening of the radial breathing mode in metallic carbon nanotubes. *Physical Review Letters*, **2009**, 102, 126804	7.4	44
211	Tight-binding description of the quasiparticle dispersion of graphite and few-layer graphene. *Physical Review B*, **2008**, 78,	3.3	209
210	Chirality-dependent frequency shift of radial breathing mode in metallic carbon nanotubes. *Physical Review B*, **2008**, 78,	3.3	32
209	Coherent phonon anisotropy in aligned single-walled carbon nanotubes. *Nano Letters*, **2008**, 8, 3102-8	11.5	50
208	Pseudospin and Deformation-Induced Gauge Field in Graphene. *Progress of Theoretical Physics Supplement*, **2008**, 176, 253-278		87
207	Magnetism as a Mass Term of the Edge States in Graphene. *Journal of the Physical Society of Japan*, **2008**, 77, 054703	1.5	18
206	Relation between peak structures of loss functions of single double-walled carbon nanotubes and interband transition energies. *Journal of Electron Microscopy*, **2008**, 57, 129-32		4
205	Curvature-induced optical phonon frequency shift in metallic carbon nanotubes. *Physical Review B*, **2008**, 77,	3.3	52
204	Aharanov-Bohm effect for the edge states of zigzag carbon nanotubes. *Physical Review B*, **2008**, 77,	3.3	6
203	Resonant Raman scattering of the smallest single-walled carbon nanotubes. *Physical Review Letters* , **2008**, 101, 047402	7.4	50
202	Raman spectroscopy of double-walled carbon nanotubes treated with H2SO4. *Physical Review B*, **2007**, 76,	3.3	34
201	Discontinuity in the family pattern of single-wall carbon nanotubes. *Physical Review B*, **2007**, 76,	3.3	71

200	Local density of states at zigzag edges of carbon nanotubes and graphene. *Physical Review B*, **2007**, 75,	3.3	28
199	Excitonic States and Resonance Raman Spectroscopy of Single-Wall Carbon Nanotubes. *Topics in Applied Physics*, **2007**, 251-286	0.5	8
198	Exciton-photon, exciton-phonon matrix elements, and resonant Raman intensity of single-wall carbon nanotubes. *Physical Review B*, **2007**, 75,	3.3	81
197	Charge transport in carbon nanotubes: quantum effects of electron-phonon coupling. *Journal of Physics Condensed Matter*, **2007**, 19, 183203	1.8	28
196	Chirality dependence of many body effects of single wall carbon nanotubes. *Vibrational Spectroscopy*, **2007**, 45, 89-94	2.1	13
195	Dependence of exciton transition energy of single-walled carbon nanotubes on surrounding dielectric materials. *Chemical Physics Letters*, **2007**, 442, 394-399	2.5	93
194	Finite length effects in DNA-wrapped carbon nanotubes. *Chemical Physics Letters*, **2007**, 443, 328-332	2.5	7
193	Raman scattering from one-dimensional carbon systems. *Physica E: Low-Dimensional Systems and Nanostructures*, **2007**, 37, 81-87	3	10
192	Exciton photophysics of carbon nanotubes. *Annual Review of Physical Chemistry*, **2007**, 58, 719-47	15.7	177
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