

Riichiro Saito

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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	Physical Properties of Carbon Nanotubes 1998 ,		3720
396	Raman spectroscopy of carbon nanotubes. <i>Physics Reports</i> , 2005 , 409, 47-99	27.7	3238
395	Studying disorder in graphite-based systems by Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 1276-91	3.6	3172
394	Perspectives on carbon nanotubes and graphene Raman spectroscopy. <i>Nano Letters</i> , 2010 , 10, 751-8	11.5	2389
393	Electronic structure of chiral graphene tubules. <i>Applied Physics Letters</i> , 1992 , 60, 2204-2206	3.4	2314
392	Structural (n, m) determination of isolated single-wall carbon nanotubes by resonant Raman scattering. <i>Physical Review Letters</i> , 2001 , 86, 1118-21	7.4	1247
391	Raman spectroscopy on isolated single wall carbon nanotubes. <i>Carbon</i> , 2002 , 40, 2043-2061	10.4	1166
390	Electronic structure of graphene tubules based on C60. <i>Physical Review B</i> , 1992 , 46, 1804-1811	3.3	1126
389	Physics of carbon nanotubes. <i>Carbon</i> , 1995 , 33, 883-891	10.4	918
388	Characterizing carbon nanotube samples with resonance Raman scattering. <i>New Journal of Physics</i> , 2003 , 5, 139-139	2.9	788
387	Raman spectroscopy of graphene and carbon nanotubes. <i>Advances in Physics</i> , 2011 , 60, 413-550	18.4	634
386	Berry's Phase and Absence of Back Scattering in Carbon Nanotubes. <i>Journal of the Physical Society of Japan</i> , 1998 , 67, 2857-2862	1.5	616
385	Trigonal warping effect of carbon nanotubes. <i>Physical Review B</i> , 2000 , 61, 2981-2990	3.3	552
384	Raman intensity of single-wall carbon nanotubes. <i>Physical Review B</i> , 1998 , 57, 4145-4153	3.3	494
383	Defect characterization in graphene and carbon nanotubes using Raman spectroscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 5355-77	3	472
382	Characterizing Graphene, Graphite, and Carbon Nanotubes by Raman Spectroscopy. <i>Annual Review of Condensed Matter Physics</i> , 2010 , 1, 89-108	19.7	454
381	Origin of the Breit-Wigner-Fano lineshape of the tangential G-band feature of metallic carbon nanotubes. <i>Physical Review B</i> , 2001 , 63,	3.3	441

380	Probing phonon dispersion relations of graphite by double resonance Raman scattering. <i>Physical Review Letters</i> , 2002 , 88, 027401	7.4	438
379	Carbon fibers based on C60 and their symmetry. <i>Physical Review B</i> , 1992 , 45, 6234-6242	3.3	426
378	G-band resonant Raman study of 62 isolated single-wall carbon nanotubes. <i>Physical Review B</i> , 2002 , 65,	3.3	389
377	Anomalous potential barrier of double-wall carbon nanotube. <i>Chemical Physics Letters</i> , 2001 , 348, 187-193	3.5	362
376	2011 ,		359
375	Polarized raman study of aligned multiwalled carbon nanotubes. <i>Physical Review Letters</i> , 2000 , 84, 1820-7	7.4	310
374	G? band Raman spectra of single, double and triple layer graphene. <i>Carbon</i> , 2009 , 47, 1303-1310	10.4	288
373	Large-scale separation of metallic and semiconducting single-walled carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2005 , 127, 10287-90	16.4	284
372	Electronic structure of double-layer graphene tubules. <i>Journal of Applied Physics</i> , 1993 , 73, 494-500	2.5	278
371	Tunneling conductance of connected carbon nanotubes. <i>Physical Review B</i> , 1996 , 53, 2044-2050	3.3	276
370	Understanding the interactions between lithium polysulfides and N-doped graphene using density functional theory calculations. <i>Nano Energy</i> , 2016 , 25, 203-210	17.1	274
369	Anisotropic Electron-Photon and Electron-Phonon Interactions in Black Phosphorus. <i>Nano Letters</i> , 2016 , 16, 2260-7	11.5	266
368	Polarized absorption spectra of single-walled 4 Å carbon nanotubes aligned in channels of an AlPO(4)-5 single crystal. <i>Physical Review Letters</i> , 2001 , 87, 127401	7.4	263
367	Large-Area Synthesis of High-Quality Uniform Few-Layer MoTe ₂ . <i>Journal of the American Chemical Society</i> , 2015 , 137, 11892-5	16.4	248
366	Inhomogeneous optical absorption around the K point in graphite and carbon nanotubes. <i>Physical Review B</i> , 2003 , 67,	3.3	239
365	Single nanotube Raman spectroscopy. <i>Accounts of Chemical Research</i> , 2002 , 35, 1070-8	24.3	216
364	Raman spectroscopy of boron-doped single-layer graphene. <i>ACS Nano</i> , 2012 , 6, 6293-300	16.7	209
363	Tight-binding description of the quasiparticle dispersion of graphite and few-layer graphene. <i>Physical Review B</i> , 2008 , 78,	3.3	209

362	Resonance Raman spectroscopy (n,m)-dependent effects in small-diameter single-wall carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	208
361	Double resonance Raman spectroscopy of single-wall carbon nanotubes. <i>New Journal of Physics</i> , 2003 , 5, 157-157	2.9	205
360	A possible buckyball-like structure of zeolite templated carbon. <i>Carbon</i> , 2009 , 47, 1220-1230	10.4	203
359	Dual Raman features of double coaxial carbon nanotubes with N-doped and B-doped multiwalls. <i>Nano Letters</i> , 2005 , 5, 2465-9	11.5	203
358	Chirality dependence of exciton effects in single-wall carbon nanotubes: Tight-binding model. <i>Physical Review B</i> , 2007 , 75,	3.3	197
357	Polarized raman study of single-wall semiconducting carbon nanotubes. <i>Physical Review Letters</i> , 2000 , 85, 2617-20	7.4	196
356	D-band Raman intensity of graphitic materials as a function of laser energy and crystallite size. <i>Chemical Physics Letters</i> , 2006 , 427, 117-121	2.5	187
355	Exciton photophysics of carbon nanotubes. <i>Annual Review of Physical Chemistry</i> , 2007 , 58, 719-47	15.7	177
354	Anisotropy of the Raman spectra of nanographite ribbons. <i>Physical Review Letters</i> , 2004 , 93, 047403	7.4	177
353	Linewidth of the Raman features of individual single-wall carbon nanotubes. <i>Physical Review B</i> , 2002 , 66,	3.3	172
352	Family behavior of the optical transition energies in single-wall carbon nanotubes of smaller diameters. <i>Applied Physics Letters</i> , 2004 , 85, 5703-5705	3.4	169
351	Nanowires and nanotubes. <i>Materials Science and Engineering C</i> , 2003 , 23, 129-140	8.3	167
350	Raman characterization of ABA- and ABC-stacked trilayer graphene. <i>ACS Nano</i> , 2011 , 5, 8760-8	16.7	153
349	Quantifying carbon-nanotube species with resonance Raman scattering. <i>Physical Review B</i> , 2005 , 72,	3.3	145
348	In-Plane Optical Anisotropy of Layered Gallium Telluride. <i>ACS Nano</i> , 2016 , 10, 8964-72	16.7	140
347	Electron-phonon matrix elements in single-wall carbon nanotubes. <i>Physical Review B</i> , 2005 , 72,	3.3	138
346	Stokes and anti-Stokes double resonance Raman scattering in two-dimensional graphite. <i>Physical Review B</i> , 2002 , 66,	3.3	137
345	Photoluminescence intensity of single-wall carbon nanotubes. <i>Carbon</i> , 2006 , 44, 873-879	10.4	136

344	Observation of layer-breathing mode vibrations in few-layer graphene through combination Raman scattering. <i>Nano Letters</i> , 2012 , 12, 5539-44	11.5	134
343	Polar interface-induced improvement in high photocatalytic hydrogen evolution over ZnO/TiO ₂ heterostructures. <i>Energy and Environmental Science</i> , 2011 , 4, 3976	35.4	133
342	Electrochemical Er doping of porous silicon and its room-temperature luminescence at ~1.54 eV. <i>Applied Physics Letters</i> , 1994 , 65, 983-985	3.4	133
341	Raman spectroscopy for probing chemically/physically induced phenomena in carbon nanotubes. <i>Nanotechnology</i> , 2003 , 14, 1130-1139	3.4	131
340	Aharonov-Bohm spectral features and coherence lengths in carbon nanotubes. <i>Physical Review B</i> , 2000 , 62, 16092-16099	3.3	129
339	Joint density of electronic states for one isolated single-wall carbon nanotube studied by resonant Raman scattering. <i>Physical Review B</i> , 2001 , 63,	3.3	128
338	Stabilization mechanism of edge states in graphene. <i>Applied Physics Letters</i> , 2006 , 88, 113110	3.4	127
337	Optical characterization of DNA-wrapped carbon nanotube hybrids. <i>Chemical Physics Letters</i> , 2004 , 397, 296-301	2.5	122
336	Direct real-time monitoring of stage transitions in graphite intercalation compounds. <i>ACS Nano</i> , 2013 , 7, 2773-80	16.7	121
335	Second-order overtone and combination Raman modes of graphene layers in the range of 1690-2150 cm ⁻¹ . <i>ACS Nano</i> , 2011 , 5, 1600-5	16.7	120
334	Raman spectroscopy of transition metal dichalcogenides. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 353002	1.8	114
333	Gauge Field for Edge State in Graphene. <i>Journal of the Physical Society of Japan</i> , 2006 , 75, 074713	1.5	114
332	Determination of nanotubes properties by Raman spectroscopy. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2311-36	3	113
331	Polarized resonant Raman study of isolated single-wall carbon nanotubes: Symmetry selection rules, dipolar and multipolar antenna effects. <i>Physical Review B</i> , 2002 , 65,	3.3	113
330	Resonance Raman spectra of carbon nanotubes by cross-polarized light. <i>Physical Review Letters</i> , 2003 , 90, 107403	7.4	112
329	Chirality-dependent G-band Raman intensity of carbon nanotubes. <i>Physical Review B</i> , 2001 , 64,	3.3	110
328	C60-related tubules. <i>Solid State Communications</i> , 1992 , 84, 201-205	1.6	109
327	Second-order harmonic and combination modes in graphite, single-wall carbon nanotube bundles, and isolated single-wall carbon nanotubes. <i>Physical Review B</i> , 2002 , 66,	3.3	108

326	The concept of cutting lines in carbon nanotube science. <i>Journal of Nanoscience and Nanotechnology</i> , 2003 , 3, 431-58	1.3	106
325	Topological defects in large fullerenes. <i>Chemical Physics Letters</i> , 1992 , 195, 537-542	2.5	106
324	Phonon-assisted excitonic recombination channels observed in DNA-wrapped carbon nanotubes using photoluminescence spectroscopy. <i>Physical Review Letters</i> , 2005 , 94, 127402	7.4	104
323	Origin of the 2450cm ⁻¹ Raman bands in HOPG, single-wall and double-wall carbon nanotubes. <i>Carbon</i> , 2005 , 43, 1049-1054	10.4	101
322	Diameter dependence of the Raman D-band in isolated single-wall carbon nanotubes. <i>Physical Review B</i> , 2001 , 64,	3.3	101
321	Spin-Orbit Interaction in Single Wall Carbon Nanotubes: Symmetry Adapted Tight-Binding Calculation and Effective Model Analysis. <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 074707	1.5	99
320	Radial breathing modes of multiwalled carbon nanotubes. <i>Chemical Physics Letters</i> , 2002 , 361, 169-174	2.5	99
319	Resonance Raman spectroscopy of the radial breathing modes in carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 1251-1261	3	95
318	Optical absorption matrix elements in single-wall carbon nanotubes. <i>Carbon</i> , 2004 , 42, 3169-3176	10.4	94
317	Dependence of exciton transition energy of single-walled carbon nanotubes on surrounding dielectric materials. <i>Chemical Physics Letters</i> , 2007 , 442, 394-399	2.5	93
316	Infrared-active vibrational modes of single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2005 , 95, 157402	7.4	92
315	Stokes and anti-Stokes Raman spectra of small-diameter isolated carbon nanotubes. <i>Physical Review B</i> , 2004 , 69,	3.3	91
314	Determination of two-dimensional phonon dispersion relation of graphite by Raman spectroscopy. <i>Physical Review B</i> , 2002 , 65,	3.3	91
313	Pseudospin and Deformation-Induced Gauge Field in Graphene. <i>Progress of Theoretical Physics Supplement</i> , 2008 , 176, 253-278		87
312	Finite-size effect on the Raman spectra of carbon nanotubes. <i>Physical Review B</i> , 1999 , 59, 2388-2392	3.3	85
311	Competing spring constant versus double resonance effects on the properties of dispersive modes in isolated single-wall carbon nanotubes. <i>Physical Review B</i> , 2003 , 67,	3.3	84
310	Diameter dependence of thermoelectric power of semiconducting carbon nanotubes. <i>Physical Review B</i> , 2015 , 92,	3.3	82
309	Surface and interference coenhanced Raman scattering of graphene. <i>ACS Nano</i> , 2009 , 3, 933-9	16.7	81

308	Exciton-photon, exciton-phonon matrix elements, and resonant Raman intensity of single-wall carbon nanotubes. <i>Physical Review B</i> , 2007 , 75,	3.3	81
307	Electronic structure and growth mechanism of carbon tubules. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1993 , 19, 185-191	3.1	81
306	Magnetoresistance of carbon nanotubes: from molecular to mesoscopic fingerprints. <i>Physical Review Letters</i> , 2001 , 87, 246803	7.4	80
305	Electronic transition energy E_{ii} for an isolated (n,m) single-wall carbon nanotube obtained by anti-Stokes/Stokes resonant Raman intensity ratio. <i>Physical Review B</i> , 2001 , 63,	3.3	78
304	Quantum Effects in the Thermoelectric Power Factor of Low-Dimensional Semiconductors. <i>Physical Review Letters</i> , 2016 , 117, 036602	7.4	77
303	Double resonance Raman modes in monolayer and few-layer MoTe ₂ . <i>Physical Review B</i> , 2015 , 91,	3.3	76
302	Experimental determination of excitonic band structures of single-walled carbon nanotubes using circular dichroism spectra. <i>Nature Communications</i> , 2016 , 7, 12899	17.4	76
301	Reversible formation of ammonium persulfate/sulfuric acid graphite intercalation compounds and their peculiar Raman spectra. <i>ACS Nano</i> , 2012 , 6, 7842-9	16.7	75
300	Resonance Raman study of linear carbon chains formed by the heat treatment of double-wall carbon nanotubes. <i>Physical Review B</i> , 2006 , 73,	3.3	73
299	Intensity of the resonance Raman excitation spectra of single-wall carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	73
298	Multiple splitting of G-band modes from individual multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , 2002 , 81, 2550-2552	3.4	73
297	Quantum dephasing in carbon nanotubes due to electron-phonon coupling. <i>Physical Review Letters</i> , 2005 , 95, 076803	7.4	72
296	Magnetic energy bands of carbon nanotubes. <i>Physical Review B</i> , 1994 , 50, 14698-14701	3.3	72
295	Discontinuity in the family pattern of single-wall carbon nanotubes. <i>Physical Review B</i> , 2007 , 76,	3.3	71
294	Anomalous two-peak G'-band Raman effect in one isolated single-wall carbon nanotube. <i>Physical Review B</i> , 2002 , 65,	3.3	71
293	Dielectric constant model for environmental effects on the exciton energies of single wall carbon nanotubes. <i>Applied Physics Letters</i> , 2010 , 97, 091905	3.4	70
292	Interband optical transitions in left- and right-handed single-wall carbon nanotubes. <i>Physical Review B</i> , 2004 , 69,	3.3	70
291	Two-dimensional InSe as a potential thermoelectric material. <i>Applied Physics Letters</i> , 2017 , 111, 092107	3.4	69

290	Zone folding effect in Raman G-band intensity of twisted bilayer graphene. <i>Physical Review B</i> , 2012 , 86,	3.3	67
289	Nanotube coalescence-inducing mode: a novel vibrational mode in carbon systems. <i>Small</i> , 2006 , 2, 1031-61	6.1	66
288	Effect of domain boundaries on the Raman spectra of mechanically strained graphene. <i>ACS Nano</i> , 2012 , 6, 10229-38	16.7	65
287	Edge phonon state of mono- and few-layer graphene nanoribbons observed by surface and interference co-enhanced Raman spectroscopy. <i>Physical Review B</i> , 2010 , 81,	3.3	65
286	Luminescence properties of individual empty and water-filled single-walled carbon nanotubes. <i>ACS Nano</i> , 2012 , 6, 2649-55	16.7	63
285	Formation of general fullerenes by their projection on a honeycomb lattice. <i>Physical Review B</i> , 1992 , 45, 13834-13836	3.3	63
284	Dependence of Raman spectra G? band intensity on metallicity of single-wall carbon nanotubes. <i>Physical Review B</i> , 2007 , 76,	3.3	62
283	Raman spectroscopy on one isolated carbon nanotube. <i>Physica B: Condensed Matter</i> , 2002 , 323, 15-20	2.8	61
282	Dispersive Raman spectra observed in graphite and single wall carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2002 , 323, 100-106	2.8	61
281	Electron-phonon interaction and relaxation time in graphite. <i>Chemical Physics Letters</i> , 2004 , 392, 383-389	2.5	59
280	Local Energy Gap in Deformed Carbon Nanotubes 2005 , 113, 463-480		58
279	Strain-induced interference effects on the resonance Raman cross section of carbon nanotubes. <i>Physical Review Letters</i> , 2005 , 95, 217403	7.4	58
278	Strain effect on circularly polarized electroluminescence in transition metal dichalcogenides. <i>Physical Review Research</i> , 2020 , 2,	3.9	57
277	Triangle defect states of hexagonal boron nitride atomic layer: Density functional theory calculations. <i>Physical Review B</i> , 2010 , 81,	3.3	56
276	Excess Li ions in a small graphite cluster. <i>Journal of Materials Research</i> , 1997 , 12, 1367-1375	2.5	55
275	One-dimensional character of combination modes in the resonance Raman scattering of carbon nanotubes. <i>Physical Review Letters</i> , 2004 , 93, 087401	7.4	55
274	Electron-phonon coupling mechanism in two-dimensional graphite and single-wall carbon nanotubes. <i>Physical Review B</i> , 2007 , 75,	3.3	54
273	Raman spectra of out-of-plane phonons in bilayer graphene. <i>Physical Review B</i> , 2011 , 84,	3.3	53

272	Photoexcited electron relaxation processes in single-wall carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	53
271	Curvature-induced optical phonon frequency shift in metallic carbon nanotubes. <i>Physical Review B</i> , 2008 , 77,	3.3	52
270	Phonon trigonal warping effect in graphite and carbon nanotubes. <i>Physical Review Letters</i> , 2003 , 90, 027403	7.4	52
269	Raman spectroscopy for carbon nanotube applications. <i>Journal of Applied Physics</i> , 2021 , 129, 021102	2.5	51
268	Coherent phonon anisotropy in aligned single-walled carbon nanotubes. <i>Nano Letters</i> , 2008 , 8, 3102-8	11.5	50
267	Resonant Raman scattering of the smallest single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2008 , 101, 047402	7.4	50
266	Synthesis of bandgap-controlled semiconducting single-walled carbon nanotubes. <i>ACS Nano</i> , 2010 , 4, 1012-8	16.7	49
265	Electrochemical charging of individual single-walled carbon nanotubes. <i>ACS Nano</i> , 2009 , 3, 2320-8	16.7	49
264	Steplike dispersion of the intermediate-frequency Raman modes in semiconducting and metallic carbon nanotubes. <i>Physical Review B</i> , 2005 , 72,	3.3	49
263	Theory of Superconductivity of Carbon Nanotubes and Graphene. <i>Journal of the Physical Society of Japan</i> , 2007 , 76, 033702	1.5	48
262	Diameter dependence of the dielectric constant for the excitonic transition energy of single-wall carbon nanotubes. <i>Physical Review Letters</i> , 2009 , 103, 146802	7.4	47
261	Carbon nanotube population analysis from Raman and photoluminescence intensities. <i>Applied Physics Letters</i> , 2006 , 88, 023109	3.4	46
260	Probing the electronic trigonal warping effect in individual single-wall carbon nanotubes using phonon spectra. <i>Chemical Physics Letters</i> , 2002 , 354, 62-68	2.5	46
259	Cutting lines near the Fermi energy of single-wall carbon nanotubes. <i>Physical Review B</i> , 2005 , 72,	3.3	46
258	Single- and double-resonance Raman G-band processes in carbon nanotubes. <i>Physical Review B</i> , 2004 , 69,	3.3	45
257	Fermi energy dependence of the G-band resonance Raman spectra of single-wall carbon nanotubes. <i>Physical Review B</i> , 2009 , 80,	3.3	44
256	Softening of the radial breathing mode in metallic carbon nanotubes. <i>Physical Review Letters</i> , 2009 , 102, 126804	7.4	44
255	Resonance Raman scattering studies in Br ₂ -adsorbed double-wall carbon nanotubes. <i>Physical Review B</i> , 2006 , 73,	3.3	44

254	Breit-Wigner-Fano line shapes in Raman spectra of graphene. <i>Physical Review B</i> , 2014 , 90,	3.3	43
253	Resonance Raman study of polyynes encapsulated in single-wall carbon nanotubes. <i>Physical Review B</i> , 2007 , 76,	3.3	43
252	Optical absorption of graphite and single-wall carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2004 , 78, 1099-1105	2.6	43
251	Effect of quantized electronic states on the dispersive Raman features in individual single-wall carbon nanotubes. <i>Physical Review B</i> , 2001 , 65,	3.3	43
250	Optical Properties and Raman Spectroscopy of Carbon Nanotubes 2001 , 213-247		43
249	Kohn anomalies in graphene nanoribbons. <i>Physical Review B</i> , 2009 , 80,	3.3	42
248	Characteristic Raman spectra of multiwalled carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2002 , 323, 265-266	2.8	42
247	Effects of magnetic field and disorder on the electronic properties of carbon nanotubes. <i>Physical Review B</i> , 1999 , 59, 5242-5246	3.3	42
246	Observation of electronic Raman scattering in metallic carbon nanotubes. <i>Physical Review Letters</i> , 2011 , 107, 157401	7.4	41
245	Spin-polaron pairing and high-temperature superconductivity. <i>Solid State Communications</i> , 1988 , 67, 363-367	1.6	41
244	Electronic structure of fluorine doped graphite nanoclusters. <i>Journal of Physics and Chemistry of Solids</i> , 1999 , 60, 715-721	3.9	40
243	Orbital susceptibility of higher-stage graphite intercalation compounds. <i>Physical Review B</i> , 1986 , 33, 7218-7227	3.3	40
242	Identifying the Orientation of Edge of Graphene Using G Band Raman Spectra. <i>Journal of the Physical Society of Japan</i> , 2010 , 79, 044603	1.5	39
241	Length characterization of DNA-wrapped carbon nanotubes using Raman spectroscopy. <i>Applied Physics Letters</i> , 2007 , 90, 131109	3.4	38
240	Independent degrees of freedom in two-dimensional materials. <i>Physical Review B</i> , 2020 , 101,	3.3	35
239	Raman spectra of graphene ribbons. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 334203	1.8	35
238	Resonant coherent phonon spectroscopy of single-walled carbon nanotubes. <i>Physical Review B</i> , 2009 , 79,	3.3	35
237	Carbon Nanotube Photophysics. <i>MRS Bulletin</i> , 2004 , 29, 276-280	3.2	35

236	A universal distribution function of relaxation in amorphous materials. <i>Solid State Communications</i> , 1987 , 63, 625-627	1.6	35
235	Two-dimensional MoS2 electromechanical actuators. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 075306	3	34
234	Raman spectroscopy of double-walled carbon nanotubes treated with H2SO4. <i>Physical Review B</i> , 2007 , 76,	3.3	34
233	Raman studies on 0.4 nm diameter single wall carbon nanotubes. <i>Chemical Physics Letters</i> , 2002 , 351, 27-34	2.5	34
232	Phonon self-energy corrections to nonzero wave-vector phonon modes in single-layer graphene. <i>Physical Review Letters</i> , 2012 , 109, 046801	7.4	33
231	Photoluminescence and population analysis of single-walled carbon nanotubes produced by CVD and pulsed-laser vaporization methods. <i>Chemical Physics Letters</i> , 2006 , 420, 286-290	2.5	33
230	Science and applications of single-nanotube Raman spectroscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2003 , 3, 19-37	1.3	33
229	Chirality-dependent frequency shift of radial breathing mode in metallic carbon nanotubes. <i>Physical Review B</i> , 2008 , 78,	3.3	32
228	Raman characterization of electronic transition energies of metallic single-wall carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	32
227	Anomalous lattice vibrations of monolayer MoS2 probed by ultraviolet Raman scattering. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 14561-8	3.6	31
226	Torsional instability of chiral carbon nanotubes. <i>Physical Review B</i> , 2010 , 81,	3.3	31
225	Sensitive Phonon-Based Probe for Structure Identification of 1TRMoTe. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8396-8399	16.4	30
224	Gate modulated Raman spectroscopy of graphene and carbon nanotubes. <i>Solid State Communications</i> , 2013 , 175-176, 18-34	1.6	30
223	Strong and stable photoluminescence from the semiconducting inner tubes within double walled carbon nanotubes. <i>Applied Physics Letters</i> , 2009 , 94, 083106	3.4	30
222	Fano resonance in Raman scattering of graphene. <i>Carbon</i> , 2013 , 61, 373-378	10.4	29
221	Raman resonance window of single-wall carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	29
220	Kohn anomaly in Raman spectroscopy of single wall carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 2005-2015	3	28
219	Local density of states at zigzag edges of carbon nanotubes and graphene. <i>Physical Review B</i> , 2007 , 75,	3.3	28

218	Charge transport in carbon nanotubes: quantum effects of electron-phonon coupling. <i>Journal of Physics Condensed Matter</i> , 2007 , 19, 183203	1.8	28
217	Controlling edge states of zigzag carbon nanotubes by the Aharonov-Bohm flux. <i>Physical Review B</i> , 2005 , 71,	3.3	28
216	Effect of ¹³ C isotope doping on the optical phonon modes in graphene: Localization and Raman spectroscopy. <i>Physical Review B</i> , 2012 , 85,	3.3	27
215	Phonon-assisted exciton relaxation dynamics for a (6,5)-enriched DNA-wrapped single-walled carbon nanotube sample. <i>Physical Review B</i> , 2005 , 72,	3.3	27
214	Edge States of Zigzag Boron Nitride Nanoribbons. <i>Journal of the Physical Society of Japan</i> , 2009 , 78, 074713	1.3	26
213	A Raman probe for selective wrapping of single-walled carbon nanotubes by DNA. <i>Nanotechnology</i> , 2007 , 18, 405706	3.4	26
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