

# Riichiro Saito

## List of Publications by Year in descending order

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396  
papers

49,252  
citations

3325

91  
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205  
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419  
all docs

419  
docs citations

419  
times ranked

36269  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gene F. Dresselhaus (1929–2021) - A Tribute from the Carbon journal. Carbon, 2022, 187, 488-492.	5.4	0
2	Complex Raman Tensor in Helicity-Changing Raman Spectra of Black Phosphorus under Circularly Polarized Light. Journal of Physical Chemistry Letters, 2022, 13, 1241-1248.	2.1	4
3	Enhanced thermoelectric performance by van Hove singularities in the density of states of type-II nodal-line semimetals. Physical Review B, 2022, 105, .	1.1	7
4	First-principles calculations of double resonance Raman spectra for monolayer $\text{MoTe}_2$ . Physical Review B, 2022, 105, .	1.1	2
5	Exploring unusual temperature-dependent optical properties of graphite single crystal by spectroscopic ellipsometry. Carbon, 2022, 197, 485-493.	5.4	2
6	The Origin of Quantum Effects in Low-Dimensional Thermoelectric Materials. Advanced Quantum Technologies, 2021, 4, .	1.8	14
7	Perspective of $\text{C}_{60}$ and Nanotube Research. Materia Japan, 2021, 60, 147-150.	0.1	1
8	Effective impedance of two-dimensional metal with retardation effect. Journal of Physics Condensed Matter, 2021, 33, 185302.	0.7	0
9	Resonance-Enhanced Excitation of Interlayer Vibrations in Atomically Thin Black Phosphorus. Nano Letters, 2021, 21, 4809-4815.	4.5	8
10	Spin current generation by edge plasmons in graphene ribbons. Physical Review B, 2021, 103, .	1.1	5
11	Magnetizations and de Haas-van Alphen oscillations in massive Dirac fermions. Physical Review B, 2021, 103, .	1.1	2
12	Switching Behavior of a Heterostructure Based on Periodically Doped Graphene Nanoribbon. Physical Review Applied, 2021, 16, .	1.5	55
13	Selection rule for Raman spectra of two-dimensional materials using circularly-polarized vortex light. Physical Chemistry Chemical Physics, 2021, 23, 17271-17278.	1.3	4
14	Raman spectroscopy for carbon nanotube applications. Journal of Applied Physics, 2021, 129, .	1.1	212
15	Anionic redox in a-( $\text{Mo}_3\text{S}_{11}$ ) <sub>n</sub> polymer cathode for all-solid-state Li-ion battery. Electrochimica Acta, 2020, 332, 135218.	2.6	11
16	Intersubband Plasmon Observation in Electrochemically Gated Carbon Nanotube Films. ACS Applied Electronic Materials, 2020, 2, 195-203.	2.0	14
17	Origin of the Flat Band in Heavily Cs-Doped Graphene. ACS Nano, 2020, 14, 1055-1069.	7.3	28
18	Characterization of Excitonic Nature in Raman Spectra Using Circularly Polarized Light. ACS Nano, 2020, 14, 10527-10535.	7.3	21

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19	Circular dichroism of doped carbon nanotubes. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	6
20	Temperature-dependent optical constants of monolayer $\text{MoS}_2$ , $\text{MoSe}_2$ , $\text{WS}_2$ , and $\text{WSe}_2$ : spectroscopic ellipsometry and first-principles calculations. <i>Scientific Reports</i> , 2020, 10, 15282.	1.6	52
21	Step-like conductance of a silicene pseudospin junction. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 425301.	0.7	0
22	Scaling law for strain dependence of Raman spectra in transition-metal dichalcogenides. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1353-1361.	1.2	13
23	Scaling Laws in Synchronization of Metronomic Oscillatory Systems. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 054002.	0.7	0
24	Independent degrees of freedom in two-dimensional materials. <i>Physical Review B</i> , 2020, 101, .	1.1	65
25	Confinement Effect in Thermoelectric Properties of Two-dimensional Materials. <i>MRS Advances</i> , 2020, 5, 469-479.	0.5	16
26	Anomalous phonon-mode dependence in polarized Raman spectroscopy of the topological Weyl semimetal TaP. <i>Physical Review B</i> , 2020, 101, .	1.1	8
27	Circular dichroism and Faraday and Kerr rotation in two-dimensional materials with intrinsic Hall conductivities. <i>Physical Review B</i> , 2020, 101, .	1.1	10
28	First-principles study of mechanical, electronic and optical properties of Janus structure in transition metal dichalcogenides. <i>Applied Surface Science</i> , 2020, 526, 146730.	3.1	46
29	Surface plasmons in graphene and carbon nanotubes. <i>Carbon</i> , 2020, 167, 455-474.	5.4	36
30	Anisotropic Fano resonance in the Weyl semimetal candidate LaAlSi. <i>Physical Review B</i> , 2020, 102, .	1.1	16
31	Strain effect on circularly polarized electroluminescence in transition metal dichalcogenides. <i>Physical Review Research</i> , 2020, 2, .	1.3	113
32	Non-vertical optical transition in near-field enhanced spectroscopy of graphene. <i>Journal of Physics Condensed Matter</i> , 2019, 31, 265701.	0.7	7
33	Planar rotation of electric field induced by edge-plasmon in a graphene nanoribbon. <i>Physical Review B</i> , 2019, 100, .	1.1	8
34	Tunable circular dichroism and valley polarization in the modified Haldane model. <i>Physical Review B</i> , 2019, 99, .	1.1	13
35	To Be Positive or Not to Be Positive: That Is the Question of Magnetoresistance. <i>JPSJ News and Comments</i> , 2019, 16, 03.	0.2	0
36	Designing high-performance thermoelectrics in two-dimensional tetradymites. <i>Nano Energy</i> , 2019, 58, 743-749.	8.2	50

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37	Intersubband plasmon excitations in doped carbon nanotubes. <i>Physical Review B</i> , 2019, 99, .	1.1	20
38	Thermoelectric Properties of Carbon Nanotubes. <i>Energies</i> , 2019, 12, 4561.	1.6	52
39	Simultaneous Anionic and Cationic Redox in the $\text{MoS}_3/\text{S}_{11}$ Polymer Electrode of a Sodium-Ion Battery. <i>Journal of Physical Chemistry C</i> , 2019, 123, 30856-30862.	1.5	9
40	Double Resonance Raman Spectroscopy of Two-Dimensional Materials. <i>Springer Series in Materials Science</i> , 2019, , 131-162.	0.4	0
41	Thermoelectric performance of monolayer InSe improved by convergence of multivalley bands. <i>Journal of Applied Physics</i> , 2019, 125, .	1.1	47
42	New two-dimensional phase of tin chalcogenides: Candidates for high-performance thermoelectric materials. <i>Physical Review Materials</i> , 2019, 3, .	0.9	44
43	Resonance Raman Spectroscopy of Graphene and Carbon Nanotubes. <i>World Scientific Series on Carbon Nanoscience</i> , 2019, , 113-142.	0.1	1
44	Ballistic and Diffusive Thermal Conductivity of Graphene. <i>Physical Review Applied</i> , 2018, 9, .	1.5	24
45	Universal Curve of Optimum Thermoelectric Figures of Merit for Bulk and Low-Dimensional Semiconductors. <i>Physical Review Applied</i> , 2018, 9, .	1.5	15
46	Spontaneous antiferromagnetic order and strain effect on electronic properties of $\hat{1}\pm$ -graphyne. <i>Carbon</i> , 2018, 131, 223-228.	5.4	19
47	Significant enhancement of light absorption in undoped graphene using dielectric multilayer system. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	21
48	Two-dimensional $\text{MoS}_2$ electromechanical actuators. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 075306.	1.3	71
49	Origin of band bending at domain boundaries of $\text{MoS}_2$ : First-principles study. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 04FP09.	0.8	1
50	Energy Band Gap Dependence of Valley Polarization of the Hexagonal Lattice. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 024710.	0.7	11
51	Interplay of valley selection and helicity exchange of light in Raman scattering for graphene and $\text{MoS}_2$ . <i>Physical Review B</i> , 2018, 97, .	1.1	27
52	Enhancement of the Electric Field and Diminishment of the Group Velocity of Light in Dielectric Multilayer Systems: A General Description. <i>Physical Review Applied</i> , 2018, 10, .	1.5	4
53	Inversion domain boundaries in $\text{MoSe}_2$ layers. <i>RSC Advances</i> , 2018, 8, 33391-33397.	1.7	9
54	Resonance Raman Spectrum of Doped Epitaxial Graphene at the Lifshitz Transition. <i>Nano Letters</i> , 2018, 18, 6045-6056.	4.5	16

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55	Conservation law of angular momentum in helicity-dependent Raman and Rayleigh scattering. <i>Physical Review B</i> , 2018, 97, .	1.1	31
56	Deep-ultraviolet Raman scattering spectroscopy of monolayer WS <sub>2</sub> . <i>Scientific Reports</i> , 2018, 8, 11398.	1.6	15
57	Understanding Interlayer Coupling in TMD-hBN Heterostructure by Raman Spectroscopy. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 4059-4067.	1.6	26
58	Quantum Description of Surface Plasmon Excitation by Light in Graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2018, 255, 1800181.	0.7	4
59	Perfect Circular Dichroism in the Haldane Model. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 063708.	0.7	11
60	Atomic Layer Materials with Moiré Structure. <i>Vacuum and Surface Science</i> , 2018, 61, 703-703.	0.0	0
61	Selective coherent phonon-mode generation in single-wall carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 055302.	0.7	3
62	Sensitive Phonon-Based Probe for Structure Identification of 1Tâ€² MoTe <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2017, 139, 8396-8399.	6.6	46
63	Charge-induced electrochemical actuation of armchair carbon nanotube bundles. <i>Carbon</i> , 2017, 118, 278-284.	5.4	12
64	Electronic and Optical Properties of Single Wall Carbon Nanotubes. <i>Topics in Current Chemistry</i> , 2017, 375, 7.	3.0	15
65	Stability and electronic properties of two-dimensional indium iodide. <i>Physical Review B</i> , 2017, 95, .	1.1	10
66	Giant Terahertz-Wave Absorption by Monolayer Graphene in a Total Internal Reflection Geometry. <i>ACS Photonics</i> , 2017, 4, 121-126.	3.2	52
67	Three-dimensional carbon Archimedean lattices for high-performance electromechanical actuators. <i>Carbon</i> , 2017, 125, 472-479.	5.4	12
68	Hidden symmetries in <i>N</i> -layer dielectric stacks. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 455303.	0.7	7
69	Raman Excitation Profile of the G-band Enhancement in Twisted Bilayer Graphene. <i>Brazilian Journal of Physics</i> , 2017, 47, 589-593.	0.7	9
70	Two-dimensional InSe as a potential thermoelectric material. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	111
71	Circular dichroism of single-wall carbon nanotubes. <i>Physical Review B</i> , 2017, 95, .	1.1	24
72	First-principles study on interlayer state in alkali and alkaline earth metal atoms intercalated bilayer graphene. <i>Surface Science</i> , 2017, 665, 1-9.	0.8	19

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73	Negative Refraction in Weyl Semimetals. Journal of the Physical Society of Japan, 2017, 86, 104703.	0.7	13
74	Quantum interference on electron scattering in graphene by carbon impurities in underlying $\text{hBN}$ . Physical Review B, 2017, 95, .	1.1	6
75	Two-phonon Absorption Spectra in the Layered Honeycomb Compound $\text{RuCl}_3$ . Journal of the Physical Society of Japan, 2017, 86, 123709.	0.7	12
76	Size effect in thermoelectric power factor of nondegenerate and degenerate low-dimensional semiconductors. Materials Today: Proceedings, 2017, 4, 12368-12373.	0.9	9
77	Broadband transverse electric surface wave in silicene. Applied Physics Letters, 2016, 109, .	1.5	13
78	Laser energy dependence of valley polarization in transition-metal dichalcogenides. Physical Review B, 2016, 94, .	1.1	18
79	Absorption of THz electromagnetic wave in two mono-layers of graphene. Journal Physics D: Applied Physics, 2016, 49, 195306.	1.3	11
80	Understanding the interactions between lithium polysulfides and N-doped graphene using density functional theory calculations. Nano Energy, 2016, 25, 203-210.	8.2	347
81	Fermi energy dependence of first- and second-order Raman spectra in graphene: Kohn anomaly and quantum interference effect. Physical Review B, 2016, 94, .	1.1	27
82	Phonon-assisted indirect transitions in angle-resolved photoemission spectra of graphite and graphene. Physical Review B, 2016, 94, .	1.1	9
83	In-Plane Optical Anisotropy of Layered Gallium Telluride. ACS Nano, 2016, 10, 8964-8972.	7.3	179
84	Multiple electronic Raman scatterings in a single metallic carbon nanotube. Physical Review B, 2016, 93, .	1.1	11
85	Raman spectroscopy of transition metal dichalcogenides. Journal of Physics Condensed Matter, 2016, 28, 353002.	0.7	168
86	Angular momentum and topology in semiconducting single-wall carbon nanotubes. Physical Review B, 2016, 93, .	1.1	24
87	Quantum Effects in the Thermoelectric Power Factor of Low-Dimensional Semiconductors. Physical Review Letters, 2016, 117, 036602.	2.9	110
88	Experimental determination of excitonic band structures of single-walled carbon nanotubes using circular dichroism spectra. Nature Communications, 2016, 7, 12899.	5.8	104
89	Intrinsic strength and failure behaviors of ultra-small single-walled carbon nanotubes. Computational Materials Science, 2016, 114, 167-171.	1.4	16
90	Anisotropic Electron-Photon and Electron-Phonon Interactions in Black Phosphorus. Nano Letters, 2016, 16, 2260-2267.	4.5	328

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91	Diameter dependence of thermoelectric power of semiconducting carbon nanotubes. Physical Review B, 2015, 92, .	1.1	102
92	Photon energy dependence of angle-resolved photoemission spectroscopy in graphene. Physical Review B, 2015, 92, .	1.1	12
93	Valley coupling in finite-length metallic single-wall carbon nanotubes. Physical Review B, 2015, 91, .	1.1	18
94	Ultraviolet Raman spectroscopy of graphene and transition-metal dichalcogenides. Physica Status Solidi (B): Basic Research, 2015, 252, 2363-2374.	0.7	14
95	Origin of coherent $G$ -band phonon spectra in single-wall carbon nanotubes. Physical Review B, 2015, 91, .	1.1	6
96	Anomalous lattice vibrations of monolayer $\text{MoS}_2$ probed by ultraviolet Raman scattering. Physical Chemistry Chemical Physics, 2015, 17, 14561-14568.	1.3	36
97	Origin of van Hove singularities in twisted bilayer graphene. Carbon, 2015, 90, 138-145.	5.4	33
98	Fermi energy-dependence of electromagnetic wave absorption in graphene. Applied Physics Express, 2015, 8, 055102.	1.1	20
99	Double resonance Raman modes in monolayer and few-layer $\text{MoTe}_2$ . Physical Review B, 2015, 91, .	1.1	99
100	Large-Area Synthesis of High-Quality Uniform Few-Layer $\text{MoTe}_2$ . Journal of the American Chemical Society, 2015, 137, 11892-11895.	6.6	302
101	Deep-ultraviolet Raman scattering studies of monolayer graphene thin films. Carbon, 2015, 81, 807-813.	5.4	28
102	Breit-Wigner-Fano line shapes in Raman spectra of graphene. Physical Review B, 2014, 90, .	1.1	67
103	Disorder-induced double resonant Raman process in graphene. Physical Review B, 2014, 90, .	1.1	15
104	Optical Properties of Carbon Nanotubes. , 2014, , 77-98.		4
105	Ultrafast Generation of Fundamental and Multiple-Order Phonon Excitations in Highly Enriched (6,5) Single-Wall Carbon Nanotubes. Nano Letters, 2014, 14, 1426-1432.	4.5	31
106	Coherent phonons in carbon based nanostructures. Proceedings of SPIE, 2014, , .	0.8	0
107	Evidence for structural phase transitions and large effective band gaps in quasi-metallic ultra-clean suspended carbon nanotubes. Nano Research, 2013, 6, 736-744.	5.8	5
108	Dramatic increase in the Raman signal of functional groups on carbon nanotube surfaces. Carbon, 2013, 56, 235-242.	5.4	9

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109	Strong magnetophonon resonance induced triple G-mode splitting in graphene on graphite probed by micromagneto Raman spectroscopy. <i>Physical Review B</i> , 2013, 88, .	1.1	17
110	Gate modulated Raman spectroscopy of graphene and carbon nanotubes. <i>Solid State Communications</i> , 2013, 175-176, 18-34.	0.9	38
111	Electronic Raman scattering and the Fano resonance in metallic carbon nanotubes. <i>Physical Review B</i> , 2013, 88, .	1.1	26
112	Coherent phonons in carbon nanotubes and graphene. <i>Chemical Physics</i> , 2013, 413, 55-80.	0.9	33
113	Direct Real-Time Monitoring of Stage Transitions in Graphite Intercalation Compounds. <i>ACS Nano</i> , 2013, 7, 2773-2780.	7.3	153
114	Fano resonance in Raman scattering of graphene. <i>Carbon</i> , 2013, 61, 373-378.	5.4	34
115	Theory of coherent phonons in carbon nanotubes and graphene nanoribbons. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 144201.	0.7	30
116	Excitonic effects on coherent phonon dynamics in single-wall carbon nanotubes. <i>Physical Review B</i> , 2013, 88, .	1.1	4
117	Asymmetric velocities of Dirac particles and Vernier spectrum in metallic single-wall carbon nanotubes. <i>Physical Review B</i> , 2012, 85, .	1.1	12
118	Coherent radial-breathing-like phonons in graphene nanoribbons. <i>Physical Review B</i> , 2012, 85, .	1.1	16
119	Unraveling the interlayer-related phonon self-energy renormalization in bilayer graphene. <i>Scientific Reports</i> , 2012, 2, 1017.	1.6	16
120	Using gate-modulated Raman scattering and electron-phonon interactions to probe single-layer graphene: A different approach to assign phonon combination modes. <i>Physical Review B</i> , 2012, 86, .	1.1	20
121	Effect of Domain Boundaries on the Raman Spectra of Mechanically Strained Graphene. <i>ACS Nano</i> , 2012, 6, 10229-10238.	7.3	73
122	Phonon Self-Energy Corrections to Nonzero Wave-Vector Phonon Modes in Single-Layer Graphene. <i>Physical Review Letters</i> , 2012, 109, 046801.	2.9	35
123	Observation of Layer-Breathing Mode Vibrations in Few-Layer Graphene through Combination Raman Scattering. <i>Nano Letters</i> , 2012, 12, 5539-5544.	4.5	151
124	Using the $G_{13}$ Raman Cross-Section To Understand the Phonon Dynamics in Bilayer Graphene Systems. <i>Nano Letters</i> , 2012, 12, 2883-2887.	4.5	14
125	Effect of $^{13}C$ isotope doping on the optical phonon modes in graphene: Localization and Raman spectroscopy. <i>Physical Review B</i> , 2012, 85, .	1.1	33
126	Raman Spectroscopy of Boron-Doped Single-Layer Graphene. <i>ACS Nano</i> , 2012, 6, 6293-6300.	7.3	245



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127	Reversible Formation of Ammonium Persulfate/Sulfuric Acid Graphite Intercalation Compounds and Their Peculiar Raman Spectra. ACS Nano, 2012, 6, 7842-7849.	7.3	95
128	Zone folding effect in Raman $G$ -band intensity of twisted bilayer graphene. Physical Review B, 2012, 86, .	1.1	79
129	Luminescence Properties of Individual Empty and Water-Filled Single-Walled Carbon Nanotubes. ACS Nano, 2012, 6, 2649-2655.	7.3	66
130	Polarization dependence of x-ray absorption spectra in graphene. Physical Review B, 2012, 85, .	1.1	15
131	Polar interface-induced improvement in high photocatalytic hydrogen evolution over ZnO/CdS heterostructures. Energy and Environmental Science, 2011, 4, 3976.	15.6	147
132	Raman Characterization of ABA- and ABC-Stacked Trilayer Graphene. ACS Nano, 2011, 5, 8760-8768.	7.3	184
133	Raman Spectroscopy of Graphene Edges. , 2011, , 91-103.		4
134	Observation of Electronic Raman Scattering in Metallic Carbon Nanotubes. Physical Review Letters, 2011, 107, 157401.	2.9	44
135	Raman spectra of out-of-plane phonons in bilayer graphene. Physical Review B, 2011, 84, .	1.1	55
136	Tunneling time of an optical pulse in a photonic bandgap. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2537.	0.9	7
137	Second-Order Overtone and Combination Raman Modes of Graphene Layers in the Range of 1690~2150 $\text{cm}^{-1}$ . ACS Nano, 2011, 5, 1600-1605.	7.3	140
138	First Principles Calculations of the Electronic Structure of ZrN Allotropes. Journal of the Physical Society of Japan, 2011, 80, 114707.	0.7	3
139	Raman spectroscopy of graphene and carbon nanotubes. Advances in Physics, 2011, 60, 413-550.	35.9	797
140	Raman Spectroscopy: Characterization of Edges, Defects, and the Fermi Energy of Graphene and $sp^2$ Carbons. Nanoscience and Technology, 2011, , 15-55.	1.5	5
141	Chirality dependence of coherent phonon amplitudes in single-wall carbon nanotubes. Physical Review B, 2011, 84, .	1.1	13
142	Resonant Raman spectroscopy on enriched $^{13}\text{C}$ carbon nanotubes. Carbon, 2011, 49, 4719-4723.	5.4	25
143	Fermi level dependent optical transition energy in metallic single-walled carbon nanotubes. Carbon, 2011, 49, 4774-4780.	5.4	14
144	Vibrational and NMR properties of polyynes. Carbon, 2011, 49, 3340-3345.	5.4	11

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145	$\langle \text{mml:mrow} \langle \text{mml:mi} \text{D} \rangle \rangle$ band Raman intensity calculation in armchair edged graphene nanoribbons. Physical Review B, 2011, 83, .	1.1	14
146	Defect characterization in graphene and carbon nanotubes using Raman spectroscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 5355-5377.	1.6	571
147	Edge phonon state of mono- and few-layer graphene nanoribbons observed by surface and interference co-enhanced Raman spectroscopy. Physical Review B, 2010, 81, .	1.1	77
148	Identifying the Orientation of Edge of Graphene Using G Band Raman Spectra. Journal of the Physical Society of Japan, 2010, 79, 044603.	0.7	43
149	Resonance Raman spectroscopy of the radial breathing modes in carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1251-1261.	1.3	110
150	Kohn anomaly in Raman spectroscopy of single wall carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2005-2015.	1.3	30
151	Excitonic effects on radial breathing mode intensity of single wall carbon nanotubes. Chemical Physics Letters, 2010, 497, 94-98.	1.2	28
152	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.	0.7	1
153	Excitonic Effects on Raman Intensity of Single Wall Carbon Nanotubes. E-Journal of Surface Science and Nanotechnology, 2010, 8, 358-361.	0.1	0
154	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.	0.1	0
155	Torsional instability of chiral carbon nanotubes. Physical Review B, 2010, 81, .	1.1	32
156	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, .	1.5	21
157	Diameter Dependence of Dielectric Constant for the Excitonic Transition Energy of Single-Wall Carbon Nanotubes. , 2010, , .		0
158	Soliton trap in strained graphene nanoribbons. New Journal of Physics, 2010, 12, 103015.	1.2	18
159	Raman and Fluorescence Spectroscopic Studies of a DNA-Dispersed Double-Walled Carbon Nanotube Solution. ACS Nano, 2010, 4, 1060-1066.	7.3	25
160	Raman spectra of graphene ribbons. Journal of Physics Condensed Matter, 2010, 22, 334203.	0.7	43
161	Triangle defect states of hexagonal boron nitride atomic layer: Density functional theory calculations. Physical Review B, 2010, 81, .	1.1	60
162	Perspectives on Carbon Nanotubes and Graphene Raman Spectroscopy. Nano Letters, 2010, 10, 751-758.	4.5	2,784



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181	Chirality-dependent frequency shift of radial breathing mode in metallic carbon nanotubes. <i>Physical Review B</i> , 2008, 78, .	1.1	35
182	Coherent Phonon Anisotropy in Aligned Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2008, 8, 3102-3108.	4.5	51
183	Pseudospin and Deformation-Induced Gauge Field in Graphene. <i>Progress of Theoretical Physics Supplement</i> , 2008, 176, 253-278.	0.2	104
184	Magnetism as a Mass Term of the Edge States in Graphene. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 054703.	0.7	18
185	Relation between peak structures of loss functions of single double-walled carbon nanotubes and interband transition energies. <i>Journal of Electron Microscopy</i> , 2008, 57, 129-132.	0.9	4
186	Curvature-induced optical phonon frequency shift in metallic carbon nanotubes. <i>Physical Review B</i> , 2008, 77, .	1.1	54
187	Aharonov-Bohm effect for the edge states of zigzag carbon nanotubes. <i>Physical Review B</i> , 2008, 77, .	1.1	6
188	Resonant Raman Scattering of the Smallest Single-Walled Carbon Nanotubes. <i>Physical Review Letters</i> , 2008, 101, 047402.	2.9	53
189	Theory of Superconductivity of Carbon Nanotubes and Graphene. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 033702.	0.7	52
190	Length characterization of DNA-wrapped carbon nanotubes using Raman spectroscopy. <i>Applied Physics Letters</i> , 2007, 90, 131109.	1.5	42
191	Resonance Raman study of polyynes encapsulated in single-wall carbon nanotubes. <i>Physical Review B</i> , 2007, 76, .	1.1	51
192	Chirality dependence of exciton effects in single-wall carbon nanotubes: Tight-binding model. <i>Physical Review B</i> , 2007, 75, .	1.1	208
193	A Raman probe for selective wrapping of single-walled carbon nanotubes by DNA. <i>Nanotechnology</i> , 2007, 18, 405706.	1.3	27
194	Dependence of Raman spectra $\langle G \rangle^2$ band intensity on metallicity of single-wall carbon nanotubes. <i>Physical Review B</i> , 2007, 76, .	1.1	67
195	$H_2SO_4$ Physical Review B, 2007, 76, .	1.1	34
196	Discontinuity in the family pattern of single-wall carbon nanotubes. <i>Physical Review B</i> , 2007, 76, .	1.1	78
197	Local density of states at zigzag edges of carbon nanotubes and graphene. <i>Physical Review B</i> , 2007, 75, .	1.1	31
198	Excitonic States and Resonance Raman Spectroscopy of Single-Wall Carbon Nanotubes. <i>Topics in Applied Physics</i> , 2007, , 251-286.	0.4	9

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200	Charge transport in carbon nanotubes: quantum effects of electron-phonon coupling. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 183203.	0.7	33
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