Riichiro Saito

List of Publications by Year
in descending order

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396 papers	49,252 citations	3325 91 h-index	2027 205 g-index
419 all docs	419 docs citations	419 times ranked	36269 citing authors

#	Article	IF	Citations
1	Studying disorder in graphite-based systems by Raman spectroscopy. Physical Chemistry Chemical Physics, 2007, 9, 1276-1290.	1.3	3,775
2	Raman spectroscopy of carbon nanotubes. Physics Reports, 2005, 409, 47-99.	10.3	3,709
3	Perspectives on Carbon Nanotubes and Graphene Raman Spectroscopy. Nano Letters, 2010, 10, 751-758.	4.5	2,784
4	Electronic structure of chiral graphene tubules. Applied Physics Letters, 1992, 60, 2204-2206.	1.5	2,581
5	Structural (n,m) Determination of Isolated Single-Wall Carbon Nanotubes by Resonant Raman Scattering. Physical Review Letters, 2001, 86, 1118-1121.	2.9	1,405
6	Raman spectroscopy on isolated single wall carbon nanotubes. Carbon, 2002, 40, 2043-2061.	5.4	1,288
7	Electronic structure of graphene tubules based onC60. Physical Review B, 1992, 46, 1804-1811.	1.1	1,252
8	Physics of carbon nanotubes. Carbon, 1995, 33, 883-891.	5.4	1,099
9	Characterizing carbon nanotube samples with resonance Raman scattering. New Journal of Physics, 2003, 5, 139-139.	1.2	883
10	Raman spectroscopy of graphene and carbon nanotubes. Advances in Physics, 2011, 60, 413-550.	35.9	797
11	Berry's Phase and Absence of Back Scattering in Carbon Nanotubes. Journal of the Physical Society of Japan, 1998, 67, 2857-2862.	0.7	689
12	Trigonal warping effect of carbon nanotubes. Physical Review B, 2000, 61, 2981-2990.	1.1	633
13	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
14	Raman intensity of single-wall carbon nanotubes. Physical Review B, 1998, 57, 4145-4153.	1.1	547
15	Characterizing Graphene, Graphite, and Carbon Nanotubes by Raman Spectroscopy. Annual Review of Condensed Matter Physics, 2010, 1, 89-108.	5.2	533
16	Probing Phonon Dispersion Relations of Graphite by Double Resonance Raman Scattering. Physical Review Letters, 2001, 88, 027401.	2.9	494
17	Origin of the Breit-Wigner-Fano lineshape of the tangentialG-band feature of metallic carbon nanotubes. Physical Review B, 2001, 63, .	1.1	484
18	Carbon fibers based onC60and their symmetry. Physical Review B, 1992, 45, 6234-6242.	1.1	474

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19	G-band resonant Raman study of 62 isolated single-wall carbon nanotubes. Physical Review B, 2002, 65, .	1.1	430
20	Anomalous potential barrier of double-wall carbon nanotube. Chemical Physics Letters, 2001, 348, 187-193.	1.2	389
21	Understanding the interactions between lithium polysulfides and N-doped graphene using density functional theory calculations. Nano Energy, 2016, 25, 203-210.	8.2	347
22	Polarized Raman Study of Aligned Multiwalled Carbon Nanotubes. Physical Review Letters, 2000, 84, 1820-1823.	2.9	345
23	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si42.gif" display="inline" overflow="scroll"><mml:mrow><mml:msup><mml:mrow><mml:mi>G</mml:mi></mml:mrow><mml:mrow><mml:mo>â€²</mml:mo></mml:mrow> band Raman spectra of single, double and triple layer graphene. Carbon, 2009, 47, 1303-1310.	5.4	330
24	Anisotropic Electron-Photon and Electron-Phonon Interactions in Black Phosphorus. Nano Letters, 2016, 16, 2260-2267.	4.5	328
25	Tunneling conductance of connected carbon nanotubes. Physical Review B, 1996, 53, 2044-2050.	1.1	314
26	Electronic structure of doubleâ€layer graphene tubules. Journal of Applied Physics, 1993, 73, 494-500.	1.1	311
27	Large-Scale Separation of Metallic and Semiconducting Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2005, 127, 10287-10290.	6.6	304
28	Large-Area Synthesis of High-Quality Uniform Few-Layer MoTe₂. Journal of the American Chemical Society, 2015, 137, 11892-11895.	6.6	302
29	Polarized Absorption Spectra of Single-Walled 4 Ã… Carbon Nanotubes Aligned in Channels of anAlPO4â^'5Single Crystal. Physical Review Letters, 2001, 87, 127401.	2.9	285
30	Inhomogeneous optical absorption around theKpoint in graphite and carbon nanotubes. Physical Review B, 2003, 67, .	1.1	257
31	Raman Spectroscopy of Boron-Doped Single-Layer Graphene. ACS Nano, 2012, 6, 6293-6300.	7.3	245
32	Tight-binding description of the quasiparticle dispersion of graphite and few-layer graphene. Physical Review B, 2008, 78, .	1.1	243
33	A possible buckybowl-like structure of zeolite templated carbon. Carbon, 2009, 47, 1220-1230.	5.4	243
34	Dual Raman Features of Double Coaxial Carbon Nanotubes with N-Doped and B-Doped Multiwalls. Nano Letters, 2005, 5, 2465-2469.	4.5	238
35	Single Nanotube Raman Spectroscopy. Accounts of Chemical Research, 2002, 35, 1070-1078.	7.6	234
36	Double resonance Raman spectroscopy of single-wall carbon nanotubes. New Journal of Physics, 2003, 5, 157-157.	1.2	229

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37	Resonance Raman spectroscopy(n,m)-dependent effects in small-diameter single-wall carbon nanotubes. Physical Review B, 2005, 71, .	1.1	225
38	Polarized Raman Study of Single-Wall Semiconducting Carbon Nanotubes. Physical Review Letters, 2000, 85, 2617-2620.	2.9	221
39	D-band Raman intensity of graphitic materials as a function of laser energy and crystallite size. Chemical Physics Letters, 2006, 427, 117-121.	1.2	219
40	Raman spectroscopy for carbon nanotube applications. Journal of Applied Physics, 2021, 129, .	1.1	212
41	Chirality dependence of exciton effects in single-wall carbon nanotubes: Tight-binding model. Physical Review B, 2007, 75, .	1.1	208
42	Exciton Photophysics of Carbon Nanotubes. Annual Review of Physical Chemistry, 2007, 58, 719-747.	4.8	201
43	Nanowires and nanotubes. Materials Science and Engineering C, 2003, 23, 129-140.	3.8	198
44	Anisotropy of the Raman Spectra of Nanographite Ribbons. Physical Review Letters, 2004, 93, 047403.	2.9	195
45	Family behavior of the optical transition energies in single-wall carbon nanotubes of smaller diameters. Applied Physics Letters, 2004, 85, 5703-5705.	1.5	185
46	Raman Characterization of ABA- and ABC-Stacked Trilayer Graphene. ACS Nano, 2011, 5, 8760-8768.	7.3	184
47	Linewidth of the Raman features of individual single-wall carbon nanotubes. Physical Review B, 2002, 66, .	1.1	181
48	In-Plane Optical Anisotropy of Layered Gallium Telluride. ACS Nano, 2016, 10, 8964-8972.	7.3	179
49	Raman spectroscopy of transition metal dichalcogenides. Journal of Physics Condensed Matter, 2016, 28, 353002.	0.7	168
50	Electron-phonon matrix elements in single-wall carbon nanotubes. Physical Review B, 2005, 72, .	1.1	160
51	Electrochemical Er doping of porous silicon and its roomâ€temperature luminescence at âˆ¼1.54 Î¼m. Applied Physics Letters, 1994, 65, 983-985.	1.5	157
52	Quantifying carbon-nanotube species with resonance Raman scattering. Physical Review B, 2005, 72, .	1.1	153
53	Direct Real-Time Monitoring of Stage Transitions in Graphite Intercalation Compounds. ACS Nano, 2013, 7, 2773-2780.	7.3	153
54	Stokes and anti-Stokes double resonance Raman scattering in two-dimensional graphite. Physical Review B, 2002, 66, .	1.1	152

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55	Photoluminescence intensity of single-wall carbon nanotubes. Carbon, 2006, 44, 873-879.	5.4	151
56	Observation of Layer-Breathing Mode Vibrations in Few-Layer Graphene through Combination Raman Scattering. Nano Letters, 2012, 12, 5539-5544.	4.5	151
57	Joint density of electronic states for one isolated single-wall carbon nanotube studied by resonant Raman scattering. Physical Review B, 2001, 63, .	1.1	149
58	Stabilization mechanism of edge states in graphene. Applied Physics Letters, 2006, 88, 113110.	1.5	148
59	Aharonov-Bohm spectral features and coherence lengths in carbon nanotubes. Physical Review B, 2000, 62, 16092-16099.	1.1	147
60	Polar interface-induced improvement in high photocatalytic hydrogen evolution over ZnOâ€“CdS heterostructures. Energy and Environmental Science, 2011, 4, 3976.	15.6	147
61	Raman spectroscopy for probing chemically/physically induced phenomena in carbon nanotubes. Nanotechnology, 2003, 14, 1130-1139.	1.3	143
62	Second-Order Overtone and Combination Raman Modes of Graphene Layers in the Range of 1690â^'2150 cm^{â^'1}. ACS Nano, 2011, 5, 1600-1605.	7.3	140
63	Optical characterization of DNA-wrapped carbon nanotube hybrids. Chemical Physics Letters, 2004, 397, 296-301.	1.2	129
64	Determination of nanotubes properties by Raman spectroscopy. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 2311-2336.	1.6	128
65	Polarized resonant Raman study of isolated single-wall carbon nanotubes: Symmetry selection rules, dipolar and multipolar antenna effects. Physical Review B, 2002, 65, .	1.1	124
66	Resonance Raman Spectra of Carbon Nanotubes by Cross-Polarized Light. Physical Review Letters, 2003, 90, 107403.	2.9	124
67	Origin of the 2450cmâ^'1 Raman bands in HOPG, single-wall and double-wall carbon nanotubes. Carbon, 2005, 43, 1049-1054.	5.4	120
68	Topological defects in large fullerenes. Chemical Physics Letters, 1992, 195, 537-542.	1.2	119
69	C60-related tubules. Solid State Communications, 1992, 84, 201-205.	0.9	118
70	Second-order harmonic and combination modes in graphite, single-wall carbon nanotube bundles, and isolated single-wall carbon nanotubes. Physical Review B, 2002, 66, .	1.1	118
71	Gauge Field for Edge State in Graphene. Journal of the Physical Society of Japan, 2006, 75, 074713.	0.7	118
72	Chirality-dependent G-band Raman intensity of carbon nanotubes. Physical Review B, 2001, 64, .	1.1	115

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73	The Concept of Cutting Lines in Carbon Nanotube Science. Journal of Nanoscience and Nanotechnology, 2003, 3, 431-458.	0.9	115
74	Strain effect on circularly polarized electroluminescence in transition metal dichalcogenides. Physical Review Research, 2020, 2, .	1.3	113
75	Diameter dependence of the RamanD-band in isolated single-wall carbon nanotubes. Physical Review B, 2001, 64, .	1.1	112
76	Radial breathing modes of multiwalled carbon nanotubes. Chemical Physics Letters, 2002, 361, 169-174.	1.2	111
77	Spinâ€“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.	0.7	111
78	Two-dimensional InSe as a potential thermoelectric material. Applied Physics Letters, 2017, 111, .	1.5	111
79	Phonon-Assisted Excitonic Recombination Channels Observed in DNA-Wrapped Carbon Nanotubes Using Photoluminescence Spectroscopy. Physical Review Letters, 2005, 94, 127402.	2.9	110
80	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
81	Quantum Effects in the Thermoelectric Power Factor of Low-Dimensional Semiconductors. Physical Review Letters, 2016, 117, 036602.	2.9	110
82	Optical absorption matrix elements in single-wall carbon nanotubes. Carbon, 2004, 42, 3169-3176.	5.4	104
83	Pseudospin and Deformation-Induced Gauge Field in Graphene. Progress of Theoretical Physics Supplement, 2008, 176, 253-278.	0.2	104
84	Experimental determination of excitonic band structures of single-walled carbon nanotubes using circular dichroism spectra. Nature Communications, 2016, 7, 12899.	5.8	104
85	Diameter dependence of thermoelectric power of semiconducting carbon nanotubes. Physical Review B, 2015, 92, .	1.1	102
86	Determination of two-dimensional phonon dispersion relation of graphite by Raman spectroscopy. Physical Review B, 2002, 65, .	1.1	99
87	Infrared-Active Vibrational Modes of Single-Walled Carbon Nanotubes. Physical Review Letters, 2005, 95, 157402.	2.9	99
88	Dependence of exciton transition energy of single-walled carbon nanotubes on surrounding dielectric materials. Chemical Physics Letters, 2007, 442, 394-399.	1.2	99
89	Double resonance Raman modes in monolayer and few-layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">MoTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 91, .	1.1	99
90	Stokes and anti-Stokes Raman spectra of small-diameter isolated carbon nanotubes. Physical Review B, 2004, 69, .	1.1	98

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91	Reversible Formation of Ammonium Persulfate/Sulfuric Acid Graphite Intercalation Compounds and Their Peculiar Raman Spectra. ACS Nano, 2012, 6, 7842-7849.	7.3	95
92	Exciton-photon, exciton-phonon matrix elements, and resonant Raman intensity of single-wall carbon nanotubes. Physical Review B, 2007, 75, .	1.1	92
93	Finite-size effect on the Raman spectra of carbon nanotubes. Physical Review B, 1999, 59, 2388-2392.	1.1	89
94	Magnetic energy bands of carbon nanotubes. Physical Review B, 1994, 50, 14698-14701.	1.1	88
95	Competing spring constant versus double resonance effects on the properties of dispersive modes in isolated single-wall carbon nanotubes. Physical Review B, 2003, 67, .	1.1	88
96	Quantum Dephasing in Carbon Nanotubes due to Electron-Phonon Coupling. Physical Review Letters, 2005, 95, 076803.	2.9	88
97	Magnetoresistance of Carbon Nanotubes: From Molecular to Mesoscopic Fingerprints. Physical Review Letters, 2001, 87, 246803.	2.9	87
98	Surface and Interference Coenhanced Raman Scattering of Graphene. ACS Nano, 2009, 3, 933-939.	7.3	87
99	Electronic structure and growth mechanism of carbon tubules. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1993, 19, 185-191.	1.7	85
100	Multiple splitting of G-band modes from individual multiwalled carbon nanotubes. Applied Physics Letters, 2002, 81, 2550-2552.	1.5	85
101	Resonance Raman study of linear carbon chains formed by the heat treatment of double-wall carbon nanotubes. Physical Review B, 2006, 73, .	1.1	85
102	Electronic transition energyEiifor an isolated(n,m)single-wall carbon nanotube obtained by anti-Stokes/Stokes resonant Raman intensity ratio. Physical Review B, 2001, 63, .	1.1	84
103	Zone folding effect in Raman<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>G</mml:mi></mml:math>-band intensity of twisted bilayer graphene. Physical Review B, 2012, 86, .	1.1	79
104	Discontinuity in the family pattern of single-wall carbon nanotubes. Physical Review B, 2007, 76, .	1.1	78
105	Interband optical transitions in left- and right-handed single-wall carbon nanotubes. Physical Review B, 2004, 69, .	1.1	77
106	Nanotube Coalescence-Inducing Mode: A Novel Vibrational Mode in Carbon Systems. Small, 2006, 2, 1031-1036.	5.2	77
107	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
108	Anomalous two-peakGâ€²-band Raman effect in one isolated single-wall carbon nanotube. Physical Review B, 2002, 65, .	1.1	76

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109	Intensity of the resonance Raman excitation spectra of single-wall carbon nanotubes. Physical Review B, 2005, 71, .	1.1	75
110	Dielectric constant model for environmental effects on the exciton energies of single wall carbon nanotubes. Applied Physics Letters, 2010, 97, .	1.5	75
111	Formation of general fullerenes by their projection on a honeycomb lattice. Physical Review B, 1992, 45, 13834-13836.	1.1	73
112	Effect of Domain Boundaries on the Raman Spectra of Mechanically Strained Graphene. ACS Nano, 2012, 6, 10229-10238.	7.3	73
113	Local Energy Gap in Deformed Carbon Nanotubes. Progress of Theoretical Physics, 2005, 113, 463-480.	2.0	72
114	Two-dimensional MoS₂ electromechanical actuators. Journal Physics D: Applied Physics, 2018, 51, 075306.	1.3	71
115	Raman spectroscopy on one isolated carbon nanotube. Physica B: Condensed Matter, 2002, 323, 15-20.	1.3	68
116	Electronâ€“phonon interaction and relaxation time in graphite. Chemical Physics Letters, 2004, 392, 383-389.	1.2	68
117	Dependence of Raman spectra<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>G</mml:mi><mml:mo>â€²</mml:mo></mml:msup></mml:math>band intensity on metallicity of single-wall carbon nanotubes. Physical Review B, 2007, 76, .	1.1	67
118	Breit-Wigner-Fano line shapes in Raman spectra of graphene. Physical Review B, 2014, 90, .	1.1	67
119	Luminescence Properties of Individual Empty and Water-Filled Single-Walled Carbon Nanotubes. ACS Nano, 2012, 6, 2649-2655.	7.3	66
120	Independent degrees of freedom in two-dimensional materials. Physical Review B, 2020, 101, .	1.1	65
121	Dispersive Raman spectra observed in graphite and single wall carbon nanotubes. Physica B: Condensed Matter, 2002, 323, 100-106.	1.3	64
122	Phonon Trigonal Warping Effect in Graphite and Carbon Nanotubes. Physical Review Letters, 2003, 90, 027403.	2.9	62
123	One-Dimensional Character of Combination Modes in the Resonance Raman Scattering of Carbon Nanotubes. Physical Review Letters, 2004, 93, 087401.	2.9	61
124	Strain-Induced Interference Effects on the Resonance Raman Cross Section of Carbon Nanotubes. Physical Review Letters, 2005, 95, 217403.	2.9	61
125	Triangle defect states of hexagonal boron nitride atomic layer: Density functional theory calculations. Physical Review B, 2010, 81, .	1.1	60
126	Excess Li ions in a small graphite cluster. Journal of Materials Research, 1997, 12, 1367-1375.	1.2	57

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127	Steplike dispersion of the intermediate-frequency Raman modes in semiconducting and metallic carbon nanotubes. Physical Review B, 2005, 72, .	1.1	57
128	Electron-phonon coupling mechanism in two-dimensional graphite and single-wall carbon nanotubes. Physical Review B, 2007, 75, .	1.1	57
129	Photoexcited electron relaxation processes in single-wall carbon nanotubes. Physical Review B, 2005, 71, .	1.1	55
130	Synthesis of Bandgap-Controlled Semiconducting Single-Walled Carbon Nanotubes. ACS Nano, 2010, 4, 1012-1018.	7.3	55
131	Raman spectra of out-of-plane phonons in bilayer graphene. Physical Review B, 2011, 84, .	1.1	55
132	Switching Behavior of a Heterostructure Based on Periodically Doped Graphene Nanoribbon. Physical Review Applied, 2021, 16, .	1.5	55
133	Optical Properties and Raman Spectroscopy of Carbon Nanotubes. , 2001, , 213-247.		54
134	Curvature-induced optical phonon frequency shift in metallic carbon nanotubes. Physical Review B, 2008, 77, .	1.1	54
135	Resonant Raman Scattering of the Smallest Single-Walled Carbon Nanotubes. Physical Review Letters, 2008, 101, 047402.	2.9	53
136	Theory of Superconductivity of Carbon Nanotubes and Graphene. Journal of the Physical Society of Japan, 2007, 76, 033702.	0.7	52
137	Diameter Dependence of the Dielectric Constant for the Excitonic Transition Energy of Single-Wall Carbon Nanotubes. Physical Review Letters, 2009, 103, 146802.	2.9	52
138	Giant Terahertz-Wave Absorption by Monolayer Graphene in a Total Internal Reflection Geometry. ACS Photonics, 2017, 4, 121-126.	3.2	52
139	Thermoelectric Properties of Carbon Nanotubes. Energies, 2019, 12, 4561.	1.6	52
140	Temperature-dependent optical constants of monolayer $${ext {MoS}}_2$$, $${ext {MoSe}}_2$$, $${ext {WS}}_2$$, and $${ext {WSe}}_2$$: spectroscopic ellipsometry and first-principles calculations. Scientific Reports, 2020, 10, 15282.	1.6	52
141	Probing the electronic trigonal warping effect in individual single-wall carbon nanotubes using phonon spectra. Chemical Physics Letters, 2002, 354, 62-68.	1.2	51
142	Carbon nanotube population analysis from Raman and photoluminescence intensities. Applied Physics Letters, 2006, 88, 023109.	1.5	51
143	Resonance Raman study of polyynes encapsulated in single-wall carbon nanotubes. Physical Review B, 2007, 76, .	1.1	51
144	Coherent Phonon Anisotropy in Aligned Single-Walled Carbon Nanotubes. Nano Letters, 2008, 8, 3102-3108.	4.5	51

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145	Electrochemical Charging of Individual Single-Walled Carbon Nanotubes. ACS Nano, 2009, 3, 2320-2328.	7.3	51
146	Designing high-performance thermoelectrics in two-dimensional tetradymites. Nano Energy, 2019, 58, 743-749.	8.2	50
147	Single- and double-resonance RamanG-band processes in carbon nanotubes. Physical Review B, 2004, 69, .	1.1	48
148	Cutting lines near the Fermi energy of single-wall carbon nanotubes. Physical Review B, 2005, 72, .	1.1	48
149	Softening of the Radial Breathing Mode in Metallic Carbon Nanotubes. Physical Review Letters, 2009, 102, 126804.	2.9	48
150	Characteristic Raman spectra of multiwalled carbon nanotubes. Physica B: Condensed Matter, 2002, 323, 265-266.	1.3	47
151	Optical absorption of graphite and single-wall carbon nanotubes. Applied Physics A: Materials Science and Processing, 2004, 78, 1099-1105.	1.1	47
152	Thermoelectric performance of monolayer InSe improved by convergence of multivalley bands. Journal of Applied Physics, 2019, 125, .	1.1	47
153	Effect of quantized electronic states on the dispersive Raman features in individual single-wall carbon nanotubes. Physical Review B, 2001, 65, .	1.1	46
154	Resonance Raman scattering studies inBr2-adsorbed double-wall carbon nanotubes. Physical Review B, 2006, 73, .	1.1	46
155	Sensitive Phonon-Based Probe for Structure Identification of 1Tâ€² MoTe₂. Journal of the American Chemical Society, 2017, 139, 8396-8399.	6.6	46
156	First-principles study of mechanical, electronic and optical properties of Janus structure in transition metal dichalcogenides. Applied Surface Science, 2020, 526, 146730.	3.1	46
157	Fermi energy dependence of theG-band resonance Raman spectra of single-wall carbon nanotubes. Physical Review B, 2009, 80, .	1.1	45
158	A universal distribution function of relaxation in amorphous materials. Solid State Communications, 1987, 63, 625-627.	0.9	44
159	Kohn anomalies in graphene nanoribbons. Physical Review B, 2009, 80, .	1.1	44
160	Observation of Electronic Raman Scattering in Metallic Carbon Nanotubes. Physical Review Letters, 2011, 107, 157401.	2.9	44
161	New two-dimensional phase of tin chalcogenides: Candidates for high-performance thermoelectric materials. Physical Review Materials, 2019, 3, .	0.9	44
162	Spin-polaron pairing and high-temperature superconductivity. Solid State Communications, 1988, 67, 363-367.	0.9	43

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163	Effects of magnetic field and disorder on the electronic properties of carbon nanotubes. Physical Review B, 1999, 59, 5242-5246.	1.1	43
164	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
165	Raman spectra of graphene ribbons. Journal of Physics Condensed Matter, 2010, 22, 334203.	0.7	43
166	Orbital susceptibility of higher-stage graphite intercalation compounds. Physical Review B, 1986, 33, 7218-7227.	1.1	42
167	Length characterization of DNA-wrapped carbon nanotubes using Raman spectroscopy. Applied Physics Letters, 2007, 90, 131109.	1.5	42
168	Electronic structure of fluorine doped graphite nanoclusters. Journal of Physics and Chemistry of Solids, 1999, 60, 715-721.	1.9	41
169	Resonant coherent phonon spectroscopy of single-walled carbon nanotubes. Physical Review B, 2009, 79, .	1.1	41
170	Gate modulated Raman spectroscopy of graphene and carbon nanotubes. Solid State Communications, 2013, 175-176, 18-34.	0.9	38
171	Carbon Nanotube Photophysics. MRS Bulletin, 2004, 29, 276-280.	1.7	37
172	Anomalous lattice vibrations of monolayer MoS₂ probed by ultraviolet Raman scattering. Physical Chemistry Chemical Physics, 2015, 17, 14561-14568.	1.3	36
173	Surface plasmons in graphene and carbon nanotubes. Carbon, 2020, 167, 455-474.	5.4	36
174	Raman studies on 0.4 nm diameter single wall carbon nanotubes. Chemical Physics Letters, 2002, 351, 27-34.	1.2	35
175	Chirality-dependent frequency shift of radial breathing mode in metallic carbon nanotubes. Physical Review B, 2008, 78, .	1.1	35
176	Phonon Self-Energy Corrections to Nonzero Wave-Vector Phonon Modes in Single-Layer Graphene. Physical Review Letters, 2012, 109, 046801.	2.9	35
177	Science and Applications of Single-Nanotube Raman Spectroscopy. Journal of Nanoscience and Nanotechnology, 2003, 3, 19-37.	0.9	34
178	Photoluminescence and population analysis of single-walled carbon nanotubes produced by CVD and pulsed-laser vaporization methods. Chemical Physics Letters, 2006, 420, 286-290.	1.2	34
179	Raman spectroscopy of double-walled carbon nanotubes treated with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">H</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review B, 2007, 76, .	1.1	34
180	Strong and stable photoluminescence from the semiconducting inner tubes within double walled carbon nanotubes. Applied Physics Letters, 2009, 94, 083106.	1.5	34

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181	Fano resonance in Raman scattering of graphene. Carbon, 2013, 61, 373-378.	5.4	34
182	Charge transport in carbon nanotubes: quantum effects of electronâ€“phonon coupling. Journal of Physics Condensed Matter, 2007, 19, 183203.	0.7	33
183	Effect of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>13</mml:mn></mml:msup></mml:math>C isotope doping on the optical phonon modes in graphene: Localization and Raman spectroscopy. Physical Review B, 2012, 85, .	1.1	33
184	Coherent phonons in carbon nanotubes and graphene. Chemical Physics, 2013, 413, 55-80.	0.9	33
185	Origin of van Hove singularities in twisted bilayer graphene. Carbon, 2015, 90, 138-145.	5.4	33
186	Raman characterization of electronic transition energies of metallic single-wall carbon nanotubes. Physical Review B, 2006, 74, .	1.1	32
187	Torsional instability of chiral carbon nanotubes. Physical Review B, 2010, 81, .	1.1	32
188	Raman resonance window of single-wall carbon nanotubes. Physical Review B, 2006, 74, .	1.1	31
189	Local density of states at zigzag edges of carbon nanotubes and graphene. Physical Review B, 2007, 75, .	1.1	31
190	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
191	Conservation law of angular momentum in helicity-dependent Raman and Rayleigh scattering. Physical Review B, 2018, 97, .	1.1	31
192	Phonon-assisted exciton relaxation dynamics for a (6,5)-enriched DNA-wrapped single-walled carbon nanotube sample. Physical Review B, 2005, 72, .	1.1	30
193	Edge States of Zigzag Boron Nitride Nanoribbons. Journal of the Physical Society of Japan, 2009, 78, 074713.	0.7	30
194	Kohn anomaly in Raman spectroscopy of single wall carbon nanotubes. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2005-2015.	1.3	30
195	Theory of coherent phonons in carbon nanotubes and graphene nanoribbons. Journal of Physics Condensed Matter, 2013, 25, 144201.	0.7	30
196	Controlling edge states of zigzag carbon nanotubes by the Aharonov-Bohm flux. Physical Review B, 2005, 71, .	1.1	29
197	Excitonic effects on radial breathing mode intensity of single wall carbon nanotubes. Chemical Physics Letters, 2010, 497, 94-98.	1.2	28
198	Deep-ultraviolet Raman scattering studies of monolayer graphene thin films. Carbon, 2015, 81, 807-813.	5.4	28

#	Article	IF	Citations
199	Origin of the Flat Band in Heavily Cs-Doped Graphene. ACS Nano, 2020, 14, 1055-1069.	7.3	28
200	Mutiplet structures of C60 ions. Chemical Physics Letters, 1993, 210, 159-164.	1.2	27
201	Resonant Raman spectra of carbon nanotube bundles observed by perpendicularly polarized light. Chemical Physics Letters, 2004, 387, 301-306.	1.2	27
202	A Raman probe for selective wrapping of single-walled carbon nanotubes by DNA. Nanotechnology, 2007, 18, 405706.	1.3	27
203	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
204	Interplay of valley selection and helicity exchange of light in Raman scattering for graphene and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mm Physical Review B, 2018, 97, .	1.1	27
205	Optical characterization of Er-implanted ZnO films formed by solâ€“gel method. Nuclear Instruments & Methods in Physics Research B, 2003, 206, 287-290.	0.6	26
206	Suppression of Auger deexcitation and temperature quenching of the Er-related 1.54 Î¼m emission with an ultrathin oxide interlayer in an Er/SiO2/Si structure. Journal of Applied Physics, 2003, 93, 2595-2601.	1.1	26
207	Stimulated Raman scattering from individual single-wall carbon nanotubes. Applied Physics Letters, 2006, 88, 241101.	1.5	26
208	Electronic Raman scattering and the Fano resonance in metallic carbon nanotubes. Physical Review B, 2013, 88, .	1.1	26
209	Understanding Interlayer Coupling in TMD-hBN Heterostructure by Raman Spectroscopy. IEEE Transactions on Electron Devices, 2018, 65, 4059-4067.	1.6	26
210	Polarization effects in surface-enhanced resonant Raman scattering of single-wall carbon nanotubes on colloidal silver clusters. Physical Review B, 2001, 63, .	1.1	25
211	Raman and Fluorescence Spectroscopic Studies of a DNA-Dispersed Double-Walled Carbon Nanotube Solution. ACS Nano, 2010, 4, 1060-1066.	7.3	25
212	Resonant Raman spectroscopy on enriched 13C carbon nanotubes. Carbon, 2011, 49, 4719-4723.	5.4	25
213	Angular momentum and topology in semiconducting single-wall carbon nanotubes. Physical Review B, 2016, 93, .	1.1	24
214	Circular dichroism of single-wall carbon nanotubes. Physical Review B, 2017, 95, .	1.1	24
215	Ballistic and Diffusive Thermal Conductivity of Graphene. Physical Review Applied, 2018, 9, .	1.5	24
216	Raman spectra of lithium doped single-walled 0.4 nm carbon nanotubes. Physical Review B, 2003, 67, .	1.1	23

#	Article	IF	Citations
217	Ground states of large icosahedral fullerenes. Physical Review B, 1992, 46, 9906-9909.	1.1	22
218	First and Second-Order Resonance Raman Process in Graphite and Single Wall Carbon Nanotubes. Japanese Journal of Applied Physics, 2002, 41, 4878-4882.	0.8	21
219	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
220	Significant enhancement of light absorption in undoped graphene using dielectric multilayer system. Applied Physics Letters, 2018, 112, .	1.5	21
221	Characterization of Excitonic Nature in Raman Spectra Using Circularly Polarized Light. ACS Nano, 2020, 14, 10527-10535.	7.3	21
222	Electronic Structures of Unoccupied Bands in Graphite. Journal of the Physical Society of Japan, 1989, 58, 2098-2108.	0.7	20
223	A Proof of the Completeness of the Non Crossed Diagrams in Spin 1/2 Heisenberg Model. Journal of the Physical Society of Japan, 1990, 59, 482-491.	0.7	20
224	Infrared-active modes of C70. Chemical Physics Letters, 1994, 227, 365-370.	1.2	20
225	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, .	1.1	20
226	Fermi energy-dependence of electromagnetic wave absorption in graphene. Applied Physics Express, 2015, 8, 055102.	1.1	20
227	Intersubband plasmon excitations in doped carbon nanotubes. Physical Review B, 2019, 99, .	1.1	20
228	Vibronic States of Polyacetylene, (CH)x. Journal of the Physical Society of Japan, 1983, 52, 407-416.	0.7	19
229	First-principles study on interlayer state in alkali and alkaline earth metal atoms intercalated bilayer graphene. Surface Science, 2017, 665, 1-9.	0.8	19
230	Spontaneous antiferromagnetic order and strain effect on electronic properties of Î±-graphyne. Carbon, 2018, 131, 223-228.	5.4	19
231	Advances in single nanotube spectroscopy: Raman spectra from cross-polarized light and chirality dependence of Raman frequencies. Carbon, 2004, 42, 1067-1069.	5.4	18
232	Magnetism as a Mass Term of the Edge States in Graphene. Journal of the Physical Society of Japan, 2008, 77, 054703.	0.7	18
233	Soliton trap in strained graphene nanoribbons. New Journal of Physics, 2010, 12, 103015.	1.2	18
234	Valley coupling in finite-length metallic single-wall carbon nanotubes. Physical Review B, 2015, 91, .	1.1	18

#	Article	IF	Citations
235	Laser energy dependence of valley polarization in transition-metal dichalcogenides. Physical Review B, 2016, 94, .	1.1	18
236	Cluster simulation of correlation effect in hole-doped high-temperature superconductor. Solid State Communications, 1989, 71, 425-429.	0.9	17
237	Thermodynamic model of the ordering transition in solidC60. Physical Review B, 1994, 49, 2143-2147.	1.1	17
238	Strong magnetophonon resonance induced triple G-mode splitting in graphene on graphite probed by micromagneto Raman spectroscopy. Physical Review B, 2013, 88, .	1.1	17
239	Characteristics of the electroluminescence and photoluminescence emission of erbium ions doped in InP and the energy transfer mechanism. Journal of Applied Physics, 1991, 70, 6993-6998.	1.1	16
240	Photoluminescence of ytterbiumâ€doped porous silicon. Applied Physics Letters, 1995, 67, 2687-2689.	1.5	16
241	Chirality dependence of many body effects of single wall carbon nanotubes. Vibrational Spectroscopy, 2007, 45, 89-94.	1.2	16
242	Coherent radial-breathing-like phonons in graphene nanoribbons. Physical Review B, 2012, 85, .	1.1	16
243	Unraveling the interlayer-related phonon self-energy renormalization in bilayer graphene. Scientific Reports, 2012, 2, 1017.	1.6	16
244	Intrinsic strength and failure behaviors of ultra-small single-walled carbon nanotubes. Computational Materials Science, 2016, 114, 167-171.	1.4	16
245	Resonance Raman Spectrum of Doped Epitaxial Graphene at the Lifshitz Transition. Nano Letters, 2018, 18, 6045-6056.	4.5	16
246	Confinement Effect in Thermoelectric Properties of Twoâ€“Dimensional Materials. MRS Advances, 2020, 5, 469-479.	0.5	16
247	Anisotropic Fano resonance in the Weyl semimetal candidate LaAlSi. Physical Review B, 2020, 102, .	1.1	16
248	Nuclear magnetic resonance in higher-stage graphite intercalation compounds. Physical Review B, 1987, 35, 2963-2971.	1.1	15
249	Theory of positive muon spin rotation in La2CuO4. Physica C: Superconductivity and Its Applications, 1991, 185-189, 1217-1218.	0.6	15
250	Effects of hydrogen plasma treatment on the 1.54 Î¼m luminescence of erbium-doped porous silicon. Journal of Applied Physics, 1998, 84, 1036-1040.	1.1	15
251	Polarization dependence of x-ray absorption spectra in graphene. Physical Review B, 2012, 85, .	1.1	15
252	Disorder-induced double resonant Raman process in graphene. Physical Review B, 2014, 90, .	1.1	15

#	Article	IF	Citations
253	Electronic and Optical Properties of Single Wall Carbon Nanotubes. Topics in Current Chemistry, 2017, 375, 7.	3.0	15
254	Universal Curve of Optimum Thermoelectric Figures of Merit for Bulk and Low-Dimensional Semiconductors. Physical Review Applied, 2018, 9, .	1.5	15
255	Deep-ultraviolet Raman scattering spectroscopy of monolayer WS2. Scientific Reports, 2018, 8, 11398.	1.6	15
256	Hindered rotation of solidC6012andC6013. Physical Review B, 1994, 50, 5680-5688.	1.1	14
257	Conductance and coherence lengths in disordered carbon nanotubes: Role of lattice defects and phonon vibrations. Physical Review B, 2005, 72, .	1.1	14
258	Fermi level dependent optical transition energy in metallic single-walled carbon nanotubes. Carbon, 2011, 49, 4774-4780.	5.4	14
259	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>D</mml:mi></mml:mrow></mml:math>band Raman intensity calculation in armchair edged graphene nanoribbons. Physical Review B, 2011, 83, .	1.1	14
260	Using the Gâ€² Raman Cross-Section To Understand the Phonon Dynamics in Bilayer Graphene Systems. Nano Letters, 2012, 12, 2883-2887.	4.5	14
261	Ultraviolet Raman spectroscopy of graphene and transition-metal dichalcogenides. Physica Status Solidi (B): Basic Research, 2015, 252, 2363-2374.	0.7	14
262	Intersubband Plasmon Observation in Electrochemically Gated Carbon Nanotube Films. ACS Applied Electronic Materials, 2020, 2, 195-203.	2.0	14
263	The Origin of Quantum Effects in Lowâ€Dimensional Thermoelectric Materials. Advanced Quantum Technologies, 2021, 4, .	1.8	14
264	Chirality dependence of coherent phonon amplitudes in single-wall carbon nanotubes. Physical Review B, 2011, 84, .	1.1	13
265	Broadband transverse electric surface wave in silicene. Applied Physics Letters, 2016, 109, .	1.5	13
266	Negative Refraction in Weyl Semimetals. Journal of the Physical Society of Japan, 2017, 86, 104703.	0.7	13
267	Tunable circular dichroism and valley polarization in the modified Haldane model. Physical Review B, 2019, 99, .	1.1	13
268	Scaling law for strain dependence of Raman spectra in transitionâ€metal dichalcogenides. Journal of Raman Spectroscopy, 2020, 51, 1353-1361.	1.2	13
269	Possible permutation symmetry in two dimensional Heisenberg Model. Solid State Communications, 1989, 72, 517-521.	0.9	12
270	Cluster calculations of rare-earth ions in semiconductors. Physical Review B, 1992, 46, 1423-1428.	1.1	12

#	Article	IF	Citations
271	Recent advances in carbon nanotube photophysics. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 443-446.	1.3	12
272	Asymmetric velocities of Dirac particles and Vernier spectrum in metallic single-wall carbon nanotubes. Physical Review B, 2012, 85, .	1.1	12
273	Photon energy dependence of angle-resolved photoemission spectroscopy in graphene. Physical Review B, 2015, 92, .	1.1	12
274	Charge-induced electrochemical actuation of armchair carbon nanotube bundles. Carbon, 2017, 118, 278-284.	5.4	12
275	Three-dimensional carbon Archimedean lattices for high-performance electromechanical actuators. Carbon, 2017, 125, 472-479.	5.4	12
276	Two-phonon Absorption Spectra in the Layered Honeycomb Compound Î±-RuCl₃. Journal of the Physical Society of Japan, 2017, 86, 123709.	0.7	12
277	Raman spectroscopy of nanoscale carbons and of an isolated carbon nanotube. Molecular Crystals and Liquid Crystals, 2002, 387, 21-29.	0.4	11
278	Aharonovâ€“Bohm effect in higher genus materials. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 321, 369-375.	0.9	11
279	High energy-resolution electron energy-loss spectroscopy study of the electric structure of double-walled carbon nanotubes. Journal of Electron Microscopy, 2006, 55, 137-142.	0.9	11
280	Vibrational and NMR properties of polyynes. Carbon, 2011, 49, 3340-3345.	5.4	11
281	Absorption of THz electromagnetic wave in two mono-layers of graphene. Journal Physics D: Applied Physics, 2016, 49, 195306.	1.3	11
282	Multiple electronic Raman scatterings in a single metallic carbon nanotube. Physical Review B, 2016, 93, .	1.1	11
283	Energy Band Gap Dependence of Valley Polarization of the Hexagonal Lattice. Journal of the Physical Society of Japan, 2018, 87, 024710.	0.7	11
284	Perfect Circular Dichroism in the Haldane Model. Journal of the Physical Society of Japan, 2018, 87, 063708.	0.7	11
285	Anionic redox in a-(Mo3S11)n polymer cathode for all-solid-state Li-ion battery. Electrochimica Acta, 2020, 332, 135218.	2.6	11
286	Symmetry Studies of Antiferromagnetic Heisenberg Model. Journal of the Physical Society of Japan, 1990, 59, 3886-3897.	0.7	10
287	Defectâ€enhanced interdiffusion at the InGaAs/InAlAs interface due to Si ion implantation. Journal of Applied Physics, 1994, 75, 2410-2414.	1.1	10
288	Finite length effects in DNA-wrapped carbon nanotubes. Chemical Physics Letters, 2007, 443, 328-332.	1.2	10

#	Article	IF	Citations
289	Raman scattering from one-dimensional carbon systems. Physica E: Low-Dimensional Systems and Nanostructures, 2007, 37, 81-87.	1.3	10
290	Stability and electronic properties of two-dimensional indium iodide. Physical Review B, 2017, 95, .	1.1	10
291	Circular dichroism and Faraday and Kerr rotation in two-dimensional materials with intrinsic Hall conductivities. Physical Review B, 2020, 101, .	1.1	10
292	Group theoretical concepts for C60 and other fullerenes. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1993, 19, 122-128.	1.7	9
293	Excitonic States and Resonance Raman Spectroscopy of Single-Wall Carbon Nanotubes. Topics in Applied Physics, 2007, , 251-286.	0.4	9
294	The Fermi Level Dependent Electronic Properties of the Smallest (2,2) Carbon Nanotube. Nano Letters, 2010, 10, 3290-3296.	4.5	9
295	Dramatic increase in the Raman signal of functional groups on carbon nanotube surfaces. Carbon, 2013, 56, 235-242.	5.4	9
296	Phonon-assisted indirect transitions in angle-resolved photoemission spectra of graphite and graphene. Physical Review B, 2016, 94, .	1.1	9
297	Raman Excitation Profile of the G-band Enhancement in Twisted Bilayer Graphene. Brazilian Journal of Physics, 2017, 47, 589-593.	0.7	9
298	Size effect in thermoelectric power factor of nondegenerate and degenerate low-dimensional semiconductors. Materials Today: Proceedings, 2017, 4, 12368-12373.	0.9	9
299	Inversion domain boundaries in MoSe₂ layers. RSC Advances, 2018, 8, 33391-33397.	1.7	9
300	Simultaneous Anionic and Cationic Redox in the Mo₃S₁₁ Polymer Electrode of a Sodium-Ion Battery. Journal of Physical Chemistry C, 2019, 123, 30856-30862.	1.5	9
301	Enhanced Yb3+-related 0.98 Î¼m emission in porous silicon and its time decay characteristics. Journal of Applied Physics, 1998, 83, 1005-1008.	1.1	8
302	Planar rotation of electric field induced by edge-plasmon in a graphene nanoribbon. Physical Review B, 2019, 100, .	1.1	8
303	Anomalous phonon-mode dependence in polarized Raman spectroscopy of the topological Weyl semimetal TaP. Physical Review B, 2020, 101, .	1.1	8
304	Resonance-Enhanced Excitation of Interlayer Vibrations in Atomically Thin Black Phosphorus. Nano Letters, 2021, 21, 4809-4815.	4.5	8
305	Orbital susceptibility of higher stage GICs. Synthetic Metals, 1985, 12, 295-300.	2.1	7
306	Ab Initio Calculations of the Multiplet Terms of (TmP4)3+ Cluster. Journal of the Physical Society of Japan, 1993, 62, 2924-2933.	0.7	7

#	Article	IF	Citations
307	Timeâ€resolved study on the impact excitation and quenching processes of the 1.54 Î¼m electroluminescence emission of Er ions in InP. Journal of Applied Physics, 1994, 76, 3714-3719.	1.1	7
308	Conductance quantization in carbon nanotubes: neutrionos on cylinder surface. Microelectronic Engineering, 1999, 47, 421-423.	1.1	7
309	Site of the Er3+ optical centers of the room-temperature emission in Er-doped porous silicon and the excitation mechanism. Journal of Luminescence, 2000, 87-89, 319-322.	1.5	7
310	Erbiumâ€“siliconâ€“oxide nano-crystallite waveguide formation based on nano-porous silicon. Optical Materials, 2005, 27, 880-883.	1.7	7
311	Semiconducting Carbon Nanotubes. AIP Conference Proceedings, 2005, , .	0.3	7
312	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
313	Hidden symmetries inN-layer dielectric stacks. Journal of Physics Condensed Matter, 2017, 29, 455303.	0.7	7
314	Non-vertical optical transition in near-field enhanced spectroscopy of graphene. Journal of Physics Condensed Matter, 2019, 31, 265701.	0.7	7
315	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
316	Auger de-excitation of the 1.54 Î¼m emission of Er- and O-implanted silicon. Nuclear Instruments & Methods in Physics Research B, 2000, 161-163, 1080-1084.	0.6	6
317	Aharanov-Bohm effect for the edge states of zigzag carbon nanotubes. Physical Review B, 2008, 77, .	1.1	6
318	Origin of coherent<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>G</mml:mi></mml:math>-band phonon spectra in single-wall carbon nanotubes. Physical Review B, 2015, 91, .	1.1	6
319	Quantum interference on electron scattering in graphene by carbon impurities in underlying <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>h</mml:mi></mml:math> -BN. Physical Review B, 2017, 95, .	1.1	6
320	Circular dichroism of doped carbon nanotubes. Journal of Applied Physics, 2020, 128, .	1.1	6
321	Positron annihilation in graphite and graphite intercalation compounds. Synthetic Metals, 1988, 23, 217-222.	2.1	5
322	Relativistic Effect on Multiplet Terms of Rare Earth Ions. Journal of the Physical Society of Japan, 1994, 63, 807-813.	0.7	5
323	Energy transfer efficiency of the 1.54 Î¼m luminescence of Er-implanted silicon in relation to post-implantation annealing and impurity coimplantation. Nuclear Instruments & Methods in Physics Research B, 1999, 148, 486-491.	0.6	5
324	Chemical Reaction of Intercalated Atoms at the Edge of Nano-Graphene Cluster. Molecular Crystals and Liquid Crystals, 2000, 340, 71-76.	0.3	5

#	Article	IF	Citations
325	Theoretical analysis of the diffusive ion in biased plasma enhanced diamond chemical vapor deposition. Journal of Applied Physics, 2001, 90, 2559-2564.	1.1	5
326	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
327	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
328	Spin current generation by edge plasmons in graphene ribbons. Physical Review B, 2021, 103, .	1.1	5
329	Vibronic states of bond alternation defect in polyacetylene and ESR spectrum. Synthetic Metals, 1987, 17, 81-86.	2.1	4
330	SUPERCONDUCTING PROPERTIES OF FULLERENES. , 1994, , 471-564.		4
331	Resonance Raman scattering: nondestructive and noninvasive technique for structural and electronic characterization of isolated single-wall carbon nanotubes. Brazilian Journal of Physics, 2002, 32, 921-924.	0.7	4
332	Fractional flux periodicity in doped carbon nanotubes. Physical Review B, 2004, 70, .	1.1	4
333	Relation between peak structures of loss functions of single double-walled carbon nanotubes and interband transition energies. Journal of Electron Microscopy, 2008, 57, 129-132.	0.9	4
334	Exciton energy calculations for single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 2581-2585.	0.7	4
335	Raman Spectroscopy of Graphene Edges. , 2011, , 91-103.		4
336	Excitonic effects on coherent phonon dynamics in single-wall carbon nanotubes. Physical Review B, 2013, 88, .	1.1	4
337	Optical Properties of Carbon Nanotubes. , 2014, , 77-98.		4
338	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, .	1.5	4
339	Quantum Description of Surface Plasmon Excitation by Light in Graphene. Physica Status Solidi (B): Basic Research, 2018, 255, 1800181.	0.7	4
340	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
341	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
342	First-principles calculations of double resonance Raman spectra for monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>MoTe</mml:mi></mml:mrow><mml:mn>2</ Physical Review B, 2022, 105, .	1.1	4

#	Article	IF	Citations
343	Electronic structures of Nd2CuO4 and its electron-doped cluster systems. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1990, 6, L1-L4.	1.7	3
344	Double resonance raman spectrain disordered graphite and singlewall carbon nanotubes. Molecular Crystals and Liquid Crystals, 2002, 387, 63-72.	0.4	3
345	Fractional Flux Periodicity in Tori Composed of Square Lattice. Progress of Theoretical Physics, 2004, 111, 763-780.	2.0	3
346	Fractional flux periodicity of a twisted planar square lattice. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 329, 148-154.	0.9	3
347	First Principles Calculations of the Electronic Structure of ZrN Allotropes. Journal of the Physical Society of Japan, 2011, 80, 114707.	0.7	3
348	Selective coherent phonon-mode generation in single-wall carbon nanotubes. Journal of Physics Condensed Matter, 2017, 29, 055302.	0.7	3
349	Theory of nuclear magnetic resonance in graphite and graphite intercalation compounds. Synthetic Metals, 1988, 23, 265-270.	2.1	2
350	A Complete Set of Spin 1/2 Functions by Young's Diagrams. Journal of the Physical Society of Japan, 1991, 60, 2388-2393.	0.7	2
351	Raman on Carbon Nanotubes Using a Tunable Laser and Comparison with Photoluminescence. AIP Conference Proceedings, 2004, , .	0.3	2
352	Magnetizations and de Haas-van Alphen oscillations in massive Dirac fermions. Physical Review B, 2021, 103, .	1.1	2
353	Exploring unusual temperature-dependent optical properties of graphite single crystal by spectroscopic ellipsometry. Carbon, 2022, 197, 485-493.	5.4	2
354	Crystal and domain structures of PbZrO3. Ferroelectrics, 1981, 37, 655-655.	0.3	1
355	Raman Spectra from One Carbon Nanotube. Materials Research Society Symposia Proceedings, 2001, 706, 1.	0.1	1
356	Resonance Raman Spectroscopy to Study and Characterize Defects on Carbon Nanotubes and other Nano-Graphite Systems. Materials Research Society Symposia Proceedings, 2004, 858, 1.	0.1	1
357	Intermediate Frequency Raman Modes in Metallic and Semiconducting Carbon Nanotubes. AIP Conference Proceedings, 2005, , .	0.3	1
358	Trigonal Anisotropy in Graphite and Carbon Nanotubes. Molecular Crystals and Liquid Crystals, 2006, 455, 287-294.	0.4	1
359	Chirality dependence of the dielectric constant for the excitonic transition energy of singleâ€wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2010, 247, 2847-2850.	0.7	1
360	Origin of band bending at domain boundaries of MoS2: First-principles study. Japanese Journal of Applied Physics, 2018, 57, 04FP09.	0.8	1

#	Article	IF	Citations
361	Perspective of C₆₀ and Nanotube Research. Materia Japan, 2021, 60, 147-150.	0.1	1
362	Re-parameterization Invariance in Fractional Flux Periodicity. Journal of the Physical Society of Japan, 2004, 73, 3231-3234.	0.7	1
363	New Application of Carbon Nanotubes. Nano-technology of Carbon Nanotubes.. Hyomen Kagaku, 2000, 21, 528-533.	0.0	1
364	Introduction to Electronic Structure Calculation of Nano-Carbon. Tanso, 2003, 2003, 67-72.	0.1	1
365	LSD Calculation of Electronic Structure of HighTcSuperconductor: Laâ€“Srâ€“Cuâ€“O Systems. Japanese Journal of Applied Physics, 1987, 26, 983.	0.8	1
366	Nanotube. Strategy of Technologies for Carbon Nanotubes.. Shinku/Journal of the Vacuum Society of Japan, 1999, 42, 711-716.	0.2	1
367	Resonance Raman Spectroscopy of Graphene and Carbon Nanotubes. World Scientific Series on Carbon Nanoscience, 2019, , 113-142.	0.1	1
368	Electrical and optical characterization of defect levels caused in InGaAs by boron ion implantation. Nuclear Instruments & Methods in Physics Research B, 1993, 80-81, 632-635.	0.6	0
369	Photoluminescence of Erbium-Diffused Silicon. Materials Research Society Symposia Proceedings, 1996, 422, 81.	0.1	0
370	Optical Activation of Erbium Doped Porous Silicon by Hydrogen Plasma Treatment. Materials Research Society Symposia Proceedings, 1997, 486, 287.	0.1	0
371	Mechanisms for implantation induced interdiffusion at In0.53Ga0.47As/In0.52Al0.48As heterointerfaces. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1997, 44, 28-32.	1.7	0
372	Micro-Raman spectroscopy of isolated single wall carbon nanotube. AIP Conference Proceedings, 2001, , .	0.3	0
373	Study of the radiative and nonradiative processes of rare earth implanted semiconductors at low temperatures. Nuclear Instruments & Methods in Physics Research B, 2001, 175-177, 286-291.	0.6	0
374	Characterization of nanographite and carbon nanotubes by polarization dependent optical spectroscopy. Materials Research Society Symposia Proceedings, 2002, 737, 521.	0.1	0
375	Anisotropy in the Phonon Dispersion Relations of Graphite and Carbon Nanotubes Measured by Raman Spectroscopy. Materials Research Society Symposia Proceedings, 2002, 737, 652.	0.1	0
376	Ge dot formation on Si by MOVPE using tetramethylgermanium (Ge(CH3)4). Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1113-1116.	0.8	0
377	Hybrid Orbital Control in Carbon Alloys. , 2003, , 15-40.		0
378	Double resonance Raman spectroscopy and optical properties of single wall carbon nanotubes. AIP Conference Proceedings, 2004, , .	0.3	0

#	Article	IF	Citations
379	Probing the Phonon-Assisted Relaxation Processes in DNA-wrapped Carbon Nanotubes Using Photoluminescence Spectroscopy. Materials Research Society Symposia Proceedings, 2004, 858, 52.	0.1	0
380	1.5 Î¼m PL fine structures and their extreme fast decay of crystalline ErSiO compounds. , 0, , .		0
381	Spectroscopy of small diameter single-wall carbon nanotubes. AIP Conference Proceedings, 2005, , .	0.3	0
382	Mesoscopic transport in carbon nanotubes: novel features. Physica Status Solidi (A) Applications and Materials Science, 2006, 203, 1100-1104.	0.8	0
383	Excitonic Effects on Raman Intensity of Single Wall Carbon Nanotubes. E-Journal of Surface Science and Nanotechnology, 2010, 8, 358-361.	0.1	0
384	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
385	Diameter Dependence of Dielectric Constant for the Excitonic Transition Energy of Single-Wall Carbon Nanotubes. , 2010, , .		0
386	Coherent phonons in carbon based nanostructures. Proceedings of SPIE, 2014, , .	0.8	0
387	To Be Positive or Not to Be Positive: That Is the Question of Magnetoresistance. JPSJ News and Comments, 2019, 16, 03.	0.2	0
388	Double Resonance Raman Spectroscopy of Two-Dimensional Materials. Springer Series in Materials Science, 2019, , 131-162.	0.4	0
389	Step-like conductance of a silicene pseudospin junction. Journal of Physics Condensed Matter, 2020, 32, 425301.	0.7	0
390	Scaling Laws in Synchronization of Metronomic Oscillatory Systems. Journal of the Physical Society of Japan, 2020, 89, 054002.	0.7	0
391	Effective impedance of two-dimensional metal with retardation effect. Journal of Physics Condensed Matter, 2021, 33, 185302.	0.7	0
392	Optimized enhancement of electric field in a metallic hollow cylinder. Journal Physics D: Applied Physics, 0, , .	1.3	0
393	Quantum Phenomena of Carbon Nanotubes. Hyomen Kagaku, 2006, 27, 239-244.	0.0	0
394	Multiplet Structure Calculations for Rare Earth Ions.. Journal of Light and Visual Environment, 1996, 20, 15-19.	0.2	0
395	Atomic Layer Materials with MoirÃ© Structure. Vacuum and Surface Science, 2018, 61, 703-703.	0.0	0
396	Gene F. Dresselhaus (1929â€“2021) - A Tribute from the Carbon journal. Carbon, 2022, 187, 488-492.	5.4	0