Kentaro Sato

List of Publications by Year
in descending order

43 papers	1,875 citations	279487 23 h-index	288905 40 g-index
43 all docs	43 docs citations	43 times ranked	2621 citing authors

#	Article	IF	Citations
1	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
2	Raman Characterization of ABA- and ABC-Stacked Trilayer Graphene. ACS Nano, 2011, 5, 8760-8768.	7.3	184
3	Photoluminescence intensity of single-wall carbon nanotubes. Carbon, 2006, 44, 873-879.	5.4	151
4	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
5	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
6	Dependence of exciton transition energy of single-walled carbon nanotubes on surrounding dielectric materials. Chemical Physics Letters, 2007, 442, 394-399.	1.2	99
7	Exciton-photon, exciton-phonon matrix elements, and resonant Raman intensity of single-wall carbon nanotubes. Physical Review B, 2007, 75, .	1.1	92
8	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
9	Discontinuity in the family pattern of single-wall carbon nanotubes. Physical Review B, 2007, 76, .	1.1	78
10	Dielectric constant model for environmental effects on the exciton energies of single wall carbon nanotubes. Applied Physics Letters, 2010, 97, .	1.5	75
11	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
12	Raman spectra of out-of-plane phonons in bilayer graphene. Physical Review B, 2011, 84, .	1.1	55
13	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
14	Cutting lines near the Fermi energy of single-wall carbon nanotubes. Physical Review B, 2005, 72, .	1.1	48
15	Gate modulated Raman spectroscopy of graphene and carbon nanotubes. Solid State Communications, 2013, 175-176, 18-34.	0.9	38
16	Phonon Self-Energy Corrections to Nonzero Wave-Vector Phonon Modes in Single-Layer Graphene. Physical Review Letters, 2012, 109, 046801.	2.9	35
17	Coherent phonons in carbon nanotubes and graphene. Chemical Physics, 2013, 413, 55-80.	0.9	33
18	Origin of van Hove singularities in twisted bilayer graphene. Carbon, 2015, 90, 138-145.	5.4	33

#	Article	IF	Citations
19	Raman resonance window of single-wall carbon nanotubes. Physical Review B, 2006, 74, .	1.1	31
20	Local density of states at zigzag edges of carbon nanotubes and graphene. Physical Review B, 2007, 75, .	1.1	31
21	Theory of coherent phonons in carbon nanotubes and graphene nanoribbons. Journal of Physics Condensed Matter, 2013, 25, 144201.	0.7	30
22	Excitonic effects on radial breathing mode intensity of single wall carbon nanotubes. Chemical Physics Letters, 2010, 497, 94-98.	1.2	28
23	Electronic Raman scattering and the Fano resonance in metallic carbon nanotubes. Physical Review B, 2013, 88, .	1.1	26
24	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
25	Band gap modification and photoluminescence enhancement of graphene nanoribbon filled single-walled carbon nanotubes. Nanoscale, 2018, 10, 2936-2943.	2.8	19
26	Chirality dependence of many body effects of single wall carbon nanotubes. Vibrational Spectroscopy, 2007, 45, 89-94.	1.2	16
27	Unraveling the interlayer-related phonon self-energy renormalization in bilayer graphene. Scientific Reports, 2012, 2, 1017.	1.6	16
28	<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
29	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
30	Chirality dependence of coherent phonon amplitudes in single-wall carbon nanotubes. Physical Review B, 2011, 84, .	1.1	13
31	Fine tuning of optical transition energy of twisted bilayer graphene via interlayer distance modulation. Physical Review B, 2017, 95, .	1.1	12
32	Coherent nanoscale optical-phonon wave packet in graphene layers. Physical Review B, 2013, 88, .	1.1	9
33	Raman Excitation Profile of the G-band Enhancement in Twisted Bilayer Graphene. Brazilian Journal of Physics, 2017, 47, 589-593.	0.7	9
34	Resonance enhancement of first- and second-order coherent phonons in metallic single-walled carbon nanotubes. Physical Review B, 2014, 90, .	1.1	8
35	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
36	Einsteinâ€“de Haas Nanorotor. Physical Review Letters, 2022, 128, 017701.	2.9	5

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37	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
38	Exciton energy calculations for single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 2581-2585.	0.7	4
39	Trigonal Anisotropy in Graphite and Carbon Nanotubes. Molecular Crystals and Liquid Crystals, 2006, 455, 287-294.	0.4	1
40	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
41	Excitonic Effects on Raman Intensity of Single Wall Carbon Nanotubes. E-Journal of Surface Science and Nanotechnology, 2010, 8, 358-361.	0.1	0
42	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
43	Coherent phonons in carbon based nanostructures. Proceedings of SPIE, 2014, , .	0.8	0