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	Einsteinâ€“de Haas Nanorotor. Physical Review Letters, 2022, 128, 017701.	2.9	5
2	Band gap modification and photoluminescence enhancement of graphene nanoribbon filled single-walled carbon nanotubes. Nanoscale, 2018, 10, 2936-2943.	2.8	19
3	Fine tuning of optical transition energy of twisted bilayer graphene via interlayer distance modulation. Physical Review B, 2017, 95, .	1.1	12
4	Raman Excitation Profile of the G-band Enhancement in Twisted Bilayer Graphene. Brazilian Journal of Physics, 2017, 47, 589-593.	0.7	9
5	Origin of van Hove singularities in twisted bilayer graphene. Carbon, 2015, 90, 138-145.	5.4	33
6	Resonance enhancement of first- and second-order coherent phonons in metallic single-walled carbon nanotubes. Physical Review B, 2014, 90, .	1.1	8
7	Coherent phonons in carbon based nanostructures. Proceedings of SPIE, 2014, , .	0.8	0
8	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
9	Gate modulated Raman spectroscopy of graphene and carbon nanotubes. Solid State Communications, 2013, 175-176, 18-34.	0.9	38
10	Electronic Raman scattering and the Fano resonance in metallic carbon nanotubes. Physical Review B, 2013, 88, .	1.1	26
11	Coherent phonons in carbon nanotubes and graphene. Chemical Physics, 2013, 413, 55-80.	0.9	33
12	Theory of coherent phonons in carbon nanotubes and graphene nanoribbons. Journal of Physics Condensed Matter, 2013, 25, 144201.	0.7	30
13	Coherent nanoscale optical-phonon wave packet in graphene layers. Physical Review B, 2013, 88, .	1.1	9
14	Unraveling the interlayer-related phonon self-energy renormalization in bilayer graphene. Scientific Reports, 2012, 2, 1017.	1.6	16
15	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
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	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
18	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

#	Article	IF	Citations
19	Raman Characterization of ABA- and ABC-Stacked Trilayer Graphene. ACS Nano, 2011, 5, 8760-8768.	7.3	184
20	Raman spectra of out-of-plane phonons in bilayer graphene. Physical Review B, 2011, 84, .	1.1	55
21	Chirality dependence of coherent phonon amplitudes in single-wall carbon nanotubes. Physical Review B, 2011, 84, .	1.1	13
22	<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
23	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
24	Excitonic effects on radial breathing mode intensity of single wall carbon nanotubes. Chemical Physics Letters, 2010, 497, 94-98.	1.2	28
25	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
26	Excitonic Effects on Raman Intensity of Single Wall Carbon Nanotubes. E-Journal of Surface Science and Nanotechnology, 2010, 8, 358-361.	0.1	0
27	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
28	Dielectric constant model for environmental effects on the exciton energies of single wall carbon nanotubes. Applied Physics Letters, 2010, 97, .	1.5	75
29	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
30	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
31	Exciton energy calculations for single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 2581-2585.	0.7	4
32	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
33	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
34	Discontinuity in the family pattern of single-wall carbon nanotubes. Physical Review B, 2007, 76, .	1.1	78
35	Local density of states at zigzag edges of carbon nanotubes and graphene. Physical Review B, 2007, 75, .	1.1	31
36	Exciton-photon, exciton-phonon matrix elements, and resonant Raman intensity of single-wall carbon nanotubes. Physical Review B, 2007, 75, .	1.1	92

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37	Chirality dependence of many body effects of single wall carbon nanotubes. Vibrational Spectroscopy, 2007, 45, 89-94.	1.2	16
38	Dependence of exciton transition energy of single-walled carbon nanotubes on surrounding dielectric materials. Chemical Physics Letters, 2007, 442, 394-399.	1.2	99
39	Photoluminescence intensity of single-wall carbon nanotubes. Carbon, 2006, 44, 873-879.	5.4	151
40	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
41	Trigonal Anisotropy in Graphite and Carbon Nanotubes. Molecular Crystals and Liquid Crystals, 2006, 455, 287-294.	0.4	1
42	Raman resonance window of single-wall carbon nanotubes. Physical Review B, 2006, 74, .	1.1	31
43	Cutting lines near the Fermi energy of single-wall carbon nanotubes. Physical Review B, 2005, 72, .	1.1	48