Janina Maultzsch

List of Publications by Year
in descending order

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169	10,321	53751 45	33869 99
papers	citations	h-index	g-index

173	173	173	12692
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	First- and second-order Raman spectroscopy of monoclinic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi><mml:mo>â^'</mml:mo><mml:msub><mml:mi mathvariant="normal">Ga</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Materials, 2022, 6, .	0.9	1
2	Full-Spectrum InP-Based Quantum Dots with Near-Unity Photoluminescence Quantum Efficiency. ACS Nano, 2022, 16, 9701-9712.	7.3	44
3	Comprehensive Raman study of orthorhombic Î²/Îµ-Ga₂O₃ and the impact of rotational domains. Journal of Materials Chemistry C, 2021, 9, 14175-14189.	2.7	7
4	Vibrational Properties and Charge Transfer in the Misfit-Layer Compound LaSâ€“CrS₂. Journal of Physical Chemistry C, 2021, 125, 8006-8013.	1.5	3
5	Covalent Bisfunctionalization of Twoâ€Dimensional Molybdenum Disulfide. Angewandte Chemie, 2021, 133, 13596-13604.	1.6	2
6	Covalent Bisfunctionalization of Twoâ€Dimensional Molybdenum Disulfide. Angewandte Chemie - International Edition, 2021, 60, 13484-13492.	7.2	28
7	Twist-Tailoring Hybrid Excitons In Van Der Waals Homobilayers. , 2021, , .		0
8	Covalent Patterning of 2D MoS₂. Chemistry - A European Journal, 2021, 27, 13117-13122.	1.7	9
9	The squeezable nanojunction as a tunable light-matter interface for studying photoluminescence of 2D materials. 2D Materials, 2021, 8, 045034.	2.0	2
10	Isotopic study of Raman active phonon modes in Î²-Ga₂O₃. Journal of Materials Chemistry C, 2021, 9, 2311-2320.	2.7	20
11	Dark exciton-exciton annihilation in monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>WSe</mml:mi></mml:mrow><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2021, 104, .	1.1	10
12	Vibrational signatures of diamondoid dimers with large intramolecular London dispersion interactions. Carbon, 2020, 157, 201-207.	5.4	4
13	Areaâ€Selective Growth of HfS₂ Thin Films via Atomic Layer Deposition at Low Temperature. Advanced Materials Interfaces, 2020, 7, 2001493.	1.9	10
14	Thin Films: Areaâ€Selective Growth of HfS₂ Thin Films via Atomic Layer Deposition at Low Temperature (Adv. Mater. Interfaces 23/2020). Advanced Materials Interfaces, 2020, 7, 2070130.	1.9	0
15	Epitaxial Metal Halide Perovskites by Inkjetâ€Printing on Various Substrates. Advanced Functional Materials, 2020, 30, 2004612.	7.8	21
16	Hybridized intervalley moirÃ© excitons and flat bands in twisted WSe₂ bilayers. Nanoscale, 2020, 12, 11088-11094.	2.8	55
17	Two-Dimensional Antimony Oxide. Physical Review Letters, 2020, 124, 126101.	2.9	22
18	Unveiling the oxidation behavior of liquid-phase exfoliated antimony nanosheets. 2D Materials, 2020, 7, 025039.	2.0	33

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19	Twist-tailoring Coulomb correlations in van der Waals homobilayers. Nature Communications, 2020, 11, 2167.	5.8	63
20	Tunable infrared light emission from MoS2/WSe2 heterostructures. , 2020, , .		0
21	Excitons in twisted van der Waals bilayers: Internal structure and ultrafast dynamics. , 2020, , .		0
22	Strain in InP/ZnSe, S core/shell quantum dots from lattice mismatch and shell thicknessâ€"Material stiffness influence. Journal of Chemical Physics, 2019, 151, 154704.	1.2	22
23	Antiâ€Stokes Photoluminescence of Monolayer WS₂. Physica Status Solidi (B): Basic Research, 2019, 256, 1900419.	0.7	5
24	Reductive diazotation of carbon nanotubes: an experimental and theoretical selectivity study. Chemical Science, 2019, 10, 706-717.	3.7	6
25	Thermal expansion of colloidal CdSe/CdS core/shell quantum dots. Physical Review B, 2019, 99, .	1.1	4
26	Phonon dispersion in <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></mml:math> Physical Review B, 2019, 99, .	1.1	49
27	Infrared Interlayer Exciton Emission in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Heterostructures. Physical Review Letters, 2019, 123, 247402.	2.9	119
28	Interlayer excitons in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>MoSe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> heterostructures from first principles. Physical Review B, 2018, 97, .	1.1	78
29	Tunable quantum interference in bilayer graphene in double-resonant Raman scattering. Carbon, 2018, 133, 254-259.	5.4	4
30	Resonance Profiles of Valley Polarization in Single-Layer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoS</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>MoSe</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> Physical Review Letters, 2018, 121, 167401.	2.9	30
31	Synthesis and Characterization of Nanotubes from Misfit (LnS)_{1+y}TaS₂ (Ln=Pr, Sm, Gd, Yb) Compounds. Chemistry - A European Journal, 2018, 24, 11354-11363.	1.7	10
32	Strain Engineering in InP/(Zn,Cd)Se Core/Shell Quantum Dots. Chemistry of Materials, 2018, 30, 4393-4400.	3.2	43
33	Double-resonant Raman scattering with optical and acoustic phonons in carbon nanotubes. Physical Review B, 2018, 97, .	1.1	3
34	ZA-derived phonons in the Raman spectra of single-walled carbon nanotubes. Carbon, 2017, 117, 360-366.	5.4	17
35	Interface formation during silica encapsulation of colloidal CdSe/CdS quantum dots observed by in situ Raman spectroscopy. Journal of Chemical Physics, 2017, 146, 134708.	1.2	13
36	Degree of functionalisation dependence of individual Raman intensities in covalent graphene derivatives. Scientific Reports, 2017, 7, 45165.	1.6	44

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37	Breakdown of Far-Field Raman Selection Rules by Lightâ€“Plasmon Coupling Demonstrated by Tip-Enhanced Raman Scattering. Journal of Physical Chemistry Letters, 2017, 8, 5462-5471.	2.1	16
38	Raman Spectroscopy of Lithographically Defined Graphene Nanoribbons â€•Influence of Size and Defects. Annalen Der Physik, 2017, 529, 1700167.	0.9	5
39	Raman Spectroscopy of Suspended MoS₂. Physica Status Solidi (B): Basic Research, 2017, 254, 1700218.	0.7	26
40	From isolated diamondoids to a van-der-Waals crystal: A theoretical and experimental analysis of a trishomocubane and a diamantane dimer in the gas and solid phase. Journal of Chemical Physics, 2017, 147, 044303.	1.2	4
41	Electronic and Vibrational Properties of Diamondoid Oligomers. Journal of Physical Chemistry C, 2017, 121, 27082-27088.	1.5	6
42	Fundamental Insights into the Degradation and Stabilization of Thin Layer Black Phosphorus. Journal of the American Chemical Society, 2017, 139, 10432-10440.	6.6	232
43	Diameter dependence of the defect-induced Raman modes in functionalized carbon nanotubes. Carbon, 2017, 112, 1-7.	5.4	27
44	Light-Matter Interactions in Two-Dimensional Transition Metal Dichalcogenides: Dominant Excitonic Transitions in Mono- and Few-Layer MoX$_2$ and Band Nesting. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 219-230.	1.9	46
45	Graphene-based electro-absorption modulator integrated in a passive polymer waveguide platform. Optical Materials Express, 2016, 6, 1800.	1.6	32
46	Fewâ€Layer Antimonene by Liquidâ€Phase Exfoliation. Angewandte Chemie - International Edition, 2016, 55, 14345-14349.	7.2	346
47	Raman spectroscopy of intercalated and misfit layer nanotubes. Physical Review B, 2016, 94, .	1.1	9
48	Understanding the growth mechanism of graphene on Ge/Si(001) surfaces. Scientific Reports, 2016, 6, 31639.	1.6	44
49	Revealing the origin of high-energy Raman local mode in nitrogen doped ZnO nanowires. Physica Status Solidi - Rapid Research Letters, 2016, 10, 334-338.	1.2	3
50	Splitting of monolayer out-of-plane<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msubsup><mml:mi>A</mml:mi><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msubsup></mml:math> mode in few-layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2015, 91, .	1.1	78
51	Beyond double-resonant Raman scattering: Ultraviolet Raman spectroscopy on graphene, graphite, and carbon nanotubes. Physical Review B, 2015, 92, .	1.1	21
52	Understanding double-resonant Raman scattering in chiral carbon nanotubes: Diameter and energy dependence of theDmode. Physical Review B, 2015, 92, .	1.1	8
53	Solidâ€State Chemistry on the Nanoscale: Ion Transport through Interstitial Sites or Vacancies?. Angewandte Chemie - International Edition, 2015, 54, 14183-14186.	7.2	37
54	Effects of annealing on optical and structural properties of zinc oxide nanocrystals. Physica Status Solidi (B): Basic Research, 2015, 252, 2620-2625.	0.7	18

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55	Raman spectroscopy of nondispersive intermediate frequency modes and their overtones in carbon nanotubes. Physica Status Solidi (B): Basic Research, 2015, 252, 2551-2557.	0.7	3
56	Controlled Folding of Graphene: GraFold Printing. Nano Letters, 2015, 15, 857-863.	4.5	27
57	Interlayer resonant Raman modes in few-layer<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></ Physical Review B, 2015, 91, .	1.1	82
58	In-situ Raman study of laser-induced graphene oxidation. Physica Status Solidi (B): Basic Research, 2015, 252, 2451-2455.	0.7	14
59	Effect of contaminations and surface preparation on the work function of single layer MoS₂. Beilstein Journal of Nanotechnology, 2014, 5, 291-297.	1.5	79
60	Electronic properties of MoS₂/hâ€BN heterostructures: Impact of dopants and impurities. Physica Status Solidi (B): Basic Research, 2014, 251, 2620-2625.	0.7	10
61	Double-resonant LA phonon scattering in defective graphene and carbon nanotubes. Physical Review B, 2014, 90, .	1.1	29
62	UV resonance Raman analysis of trishomocubane and diamondoid dimers. Journal of Chemical Physics, 2014, 140, 034309.	1.2	7
63	Activation and deactivation of vibronic channels in intact phycocyanin rods. Journal of Chemical Physics, 2014, 140, 085101.	1.2	3
64	Two-Dimensional Analysis of the Double-Resonant 2D Raman Mode in Bilayer Graphene. Physical Review Letters, 2014, 113, 187401.	2.9	35
65	Photoluminescence of freestanding single- and few-layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>MoS</mml:mtext><mml:mn>2</mml:mn></mml:msub> Physical Review B, 2014, 89, .	1.1	280
66	Edge and confinement effects allow in situ measurement of size and thickness of liquid-exfoliated nanosheets. Nature Communications, 2014, 5, 4576.	5.8	432
67	Indirect doping effects from impurities inMoS2/h-BNheterostructures. Physical Review B, 2014, 90, .	1.1	39
68	Graphene grown on Ge(0 0 1) from atomic source. Carbon, 2014, 75, 104-112.	5.4	54
69	Nanoscale Imaging of InN Segregation and Polymorphism in Single Vertically Aligned InGaN/GaN Multi Quantum Well Nanorods by Tip-Enhanced Raman Scattering. Nano Letters, 2013, 13, 3205-3212.	4.5	37
70	Simulations of the polarisation-dependent Raman intensity of -carotene in photosystem II crystals. Chemical Physics, 2013, 418, 65-73.	0.9	1
71	Molecular beam growth of micrometer-size graphene on mica. Carbon, 2013, 52, 40-48.	5.4	36
72	Radiation hardness of graphene and MoS2 field effect devices against swift heavy ion irradiation. Journal of Applied Physics, 2013, 113, .	1.1	78

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73	Experimental and theoretical Raman analysis of functionalized diamantane. Journal of Physics B: Atomic, Molecular and Optical Physics, 2013, 46, 025101.	0.6	8
74	Signature of the two-dimensional phonon dispersion in graphene probed by double-resonant Raman scattering. Physical Review B, 2013, 87, .	1.1	60
75	Electronic Properties of Semiconducting Polymer-Functionalized Single Wall Carbon Nanotubes. Macromolecules, 2013, 46, 2590-2598.	2.2	19
76	Probing local strain and composition in Ge nanowires by means of tip-enhanced Raman scattering. Nanotechnology, 2013, 24, 185704.	1.3	21
77	Resonance behavior of the defect-induced Raman mode of single-chirality enriched carbon nanotubes. Physical Review B, 2013, 87, .	1.1	15
78	Raman bands of nano-graphene flakes on carbon nanotubes after oxidation. Physica Status Solidi (B): Basic Research, 2013, 250, 2687-2691.	0.7	5
79	Influence of the layer number and stacking order on out-of-plane phonons in few-layer graphene. Physica Status Solidi (B): Basic Research, 2013, 250, 2697-2701.	0.7	3
80	Electronic characterization of single-layer MoS₂ sheets exfoliated on SrTiO₃. Materials Research Society Symposia Proceedings, 2012, 1474, 30.	0.1	3
81	Molecular beam epitaxy of graphene on mica. Physica Status Solidi (B): Basic Research, 2012, 249, 2507-2510.	0.7	9
82	Effect of gap modes on graphene and multilayer graphene in tipâ€enhanced Raman spectroscopy. Physica Status Solidi (B): Basic Research, 2012, 249, 2511-2514.	0.7	14
83	Resonance behavior of defectâ€induced modes in metallic and semiconducting singleâ€walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2012, 249, 2460-2464.	0.7	8
84	Resonant Raman profiles and Âµâ€photoluminescence of atomically thin layers of molybdenum disulfide. Physica Status Solidi (B): Basic Research, 2012, 249, 2644-2647.	0.7	27
85	Graphene on Si(111)7Ã—7. Nanotechnology, 2012, 23, 405708.	1.3	32
86	Growth and surface characterization of magnetron sputtered zinc nitride thin films. Thin Solid Films, 2012, 520, 7230-7235.	0.8	10
87	Layer-number determination in graphene by out-of-plane phonons. Physical Review B, 2012, 85, .	1.1	38
88	Chiral Index Dependence of the G⁺ and G^{â€“} Raman Modes in Semiconducting Carbon Nanotubes. ACS Nano, 2012, 6, 904-911.	7.3	85
89	Ultrafast Relaxation Dynamics via Acoustic Phonons in Carbon Nanotubes. Nano Letters, 2012, 12, 2249-2253.	4.5	22
90	Dielectric screening effects on transition energies in aligned carbon nanotubes. Physical Review B, 2012, 85, .	1.1	17

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91	Scattering of electrons with acoustic phonons in single-walled carbon nanotubes. , 2012, , .		0
92	Raman 2D-Band Splitting in Graphene: Theory and Experiment. ACS Nano, 2011, 5, 2231-2239.	7.3	271
93	Selective Polycarboxylation of Semiconducting Single-Walled Carbon Nanotubes by Reductive Sidewall Functionalization. Journal of the American Chemical Society, 2011, 133, 19459-19473.	6.6	62
94	Raman Spectroscopy of Lithographically Patterned Graphene Nanoribbons. ACS Nano, 2011, 5, 4123-4130.	7.3	148
95	Adsorption Behavior of 4-Methoxypyridine on Gold Nanoparticles. Langmuir, 2011, 27, 7258-7264.	1.6	18
96	Ab initiocalculations of edge-functionalized armchair graphene nanoribbons: Structural, electronic, and vibrational effects. Physical Review B, 2011, 84, .	1.1	26
97	Studying the local character of Raman features of single-walled carbon nanotubes along a bundle using TERS. Nanoscale Research Letters, 2011, 6, 174.	3.1	26
98	Index assignment of a carbon nanotube rope using tipâ€enhanced Raman spectroscopy. Physica Status Solidi (B): Basic Research, 2011, 248, 2577-2580.	0.7	9
99	Kohn anomaly in graphene. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2011, 176, 510-511.	1.7	7
100	Excitonic Rayleigh scattering spectra of metallic single-walled carbon nanotubes. Physical Review B, 2010, 82, .	1.1	32
101	Electronic Properties of Propylamineâ€Functionalized Singleâ€Walled Carbon Nanotubes. ChemPhysChem, 2010, 11, 2444-2448.	1.0	8
102	Tipâ€enhanced Raman scattering along a single wall carbon nanotubes bundle. Physica Status Solidi (B): Basic Research, 2010, 247, 2818-2822.	0.7	14
103	The influence of incorporated Î²â€carotene on the vibrational properties of single wall carbon nanotubes. Physica Status Solidi (B): Basic Research, 2010, 247, 2734-2737.	0.7	8
104	Resonant Raman scattering on carbon nanotubes covalently functionalized with lithium decyne. Physica Status Solidi (B): Basic Research, 2010, 247, 2863-2866.	0.7	3
105	Ramanâ€active modes in graphene nanoribbons. Physica Status Solidi (B): Basic Research, 2010, 247, 2941-2944.	0.7	27
106	Polarised Raman measurements of Î²â€carotene encapsulated in SWNTs. Physica Status Solidi (B): Basic Research, 2010, 247, 2871-2874.	0.7	2
107	Temperature dependent band gap behavior and excitons in metallic carbon nanotubes. Physica Status Solidi (B): Basic Research, 2010, 247, 3006-3009.	0.7	0
108	Publisher's Note: Splitting of the Raman2Dband of graphene subjected to strain [Phys. Rev. B82, 201409 (2010)]. Physical Review B, 2010, 82, .	1.1	3

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109	Symmetry based analysis of the Kohn anomaly and electron-phonon interaction in graphene and carbon nanotubes. Physical Review B, 2010, 81, .	1.1	9
110	Observation of excitonic effects in metallic single-walled carbon nanotubes. Physical Review B, 2010, 82, .	1.1	20
111	Raman Spectroscopy of Carbon Nanostructures. , 2010, , .		0
112	ELECTRON-PHONON COUPLING IN GRAPHENE. International Journal of Modern Physics B, 2010, 24, 655-660.	1.0	4
113	Observation of Breathing-like Modes in an Individual Multiwalled Carbon Nanotube. Nano Letters, 2010, 10, 4470-4474.	4.5	19
114	Splitting of the Raman<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>2</mml:mn><mml:mi>D</mml:mi></mml:mrow></mml:math>band of graphene subjected to strain. Physical Review B, 2010, 82, .	1.1	106
115	Symmetry properties of vibrational modes in graphene nanoribbons. Physical Review B, 2010, 81, .	1.1	44
116	Excitonic absorption spectra of metallic single-walled carbon nanotubes. Physical Review B, 2010, 82, .	1.1	46
117	Longitudinal Optical Phonons in Metallic and Semiconducting Carbon Nanotubes. Physical Review Letters, 2009, 102, 075501.	2.9	61
118	Characterization of dye molecules and carbon nanostructures by tipâ€enhanced Raman spectroscopy. Physica Status Solidi (B): Basic Research, 2009, 246, 2708-2712.	0.7	14
119	Variable doping sensitivity of the TO phonon dispersion branch of metallic nanotubes: A double resonant Raman scattering study. Physica Status Solidi (B): Basic Research, 2009, 246, 2713-2716.	0.7	0
120	Symmetry-based analysis of the electron-phonon interaction in graphene. Physica Status Solidi (B): Basic Research, 2009, 246, 2606-2609.	0.7	1
121	Raman spectroscopy of single wall carbon nanotubes functionalized with terpyridineâ€“ruthenium complexes. Physica Status Solidi (B): Basic Research, 2009, 246, 2721-2723.	0.7	11
122	Lattice vibrations in graphene nanoribbons from density functional theory. Physica Status Solidi (B): Basic Research, 2009, 246, 2577-2580.	0.7	6
123	Polarised Raman measurements on the core complex of crystallised photosystem II. Physica Status Solidi (B): Basic Research, 2009, 246, 2813-2816.	0.7	3
124	Environmental influence on linear optical spectra and relaxation dynamics in carbon nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 2592-2597.	0.7	8
125	Time-resolved Raman spectroscopy of optical phonons in graphite: Phonon anharmonic coupling and anomalous stiffening. Physical Review B, 2009, 80, .	1.1	121
126	Kohn Anomaly and Electronâ"Phonon Interaction at the K-Derived Point of the Brillouin Zone of Metallic Nanotubes. Nano Letters, 2009, 9, 3343-3348.	4.5	12

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127	Two-dimensional electronic and vibrational band structure of uniaxially strained graphene fromab initiocalculations. Physical Review B, 2009, 80, .	1.1	105
128	Vibrational properties of graphene nanoribbons by first-principles calculations. Physical Review B, 2009, 80, .	1.1	96
129	Coulomb effects in singleâ€walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2155-2158.	0.7	22
130	Diameter dependence of addition reactions to carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 1957-1960.	0.7	12
131	G^{â€“} and G⁺ in the Raman spectrum of isolated nanotube: a study on resonance conditions and lineshape. Physica Status Solidi (B): Basic Research, 2008, 245, 2189-2192.	0.7	28
132	Reversible Basal Plane Hydrogenation of Graphene. Nano Letters, 2008, 8, 4597-4602.	4.5	513
133	Theory of Rayleigh scattering from metallic carbon nanotubes. Physical Review B, 2008, 77, .	1.1	23
134	Variable Electron-Phonon Coupling in Isolated Metallic Carbon Nanotubes Observed by Raman Scattering. Physical Review Letters, 2007, 99, 027402.	2.9	98
135	Elasticity of single-crystalline graphite: Inelastic x-ray scattering study. Physical Review B, 2007, 75, .	1.1	264
136	Theoretical approach to Rayleigh and absorption spectra of semiconducting carbon nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4240-4243.	0.7	13
137	Raman spectroscopy on chemically functionalized carbon nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4056-4059.	0.7	19
138	First and second optical transitions in singleâ€walled carbon nanotubes: a resonant Raman study. Physica Status Solidi (B): Basic Research, 2007, 244, 4006-4010.	0.7	6
139	Raman spectroscopy of pentyl-functionalized carbon nanotubes. Physica Status Solidi - Rapid Research Letters, 2007, 1, 144-146.	1.2	13
140	Intermediate frequency modes in Raman spectra of Ar+-irradiated single-wall carbon nanotubes. Physica Status Solidi - Rapid Research Letters, 2007, 1, 138-140.	1.2	28
141	Phonon dispersion of graphite by inelastic x-ray scattering. Physical Review B, 2007, 76, .	1.1	381
142	High-resolution scanning tunneling microscopy imaging of mesoscopic graphene sheets on an insulating surface. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9209-9212.	3.3	553
143	Two-photon photoluminescence and exciton binding energies in single-walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 2428-2435.	0.7	6
144	Excitons in carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 3204-3208.	0.7	13

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145	Raman intensities of the first optical transitions in carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 3181-3185.	0.7	5
146	Publisher's Note: Exciton binding energies in carbon nanotubes from two-photon photoluminescence [Phys. Rev. B72, 241402(R) (2005)]. Physical Review B, 2006, 73, .	1.1	1
147	Double-resonant Raman processes in germanium: Group theory andab initiocalculations. Physical Review B, 2006, 73, .	1.1	7
148	Resonant-Raman intensities and transition energies of theE11transition in carbon nanotubes. Physical Review B, 2006, 74, .	1.1	36
149	Radial breathing mode of single-walled carbon nanotubes: Optical transition energies and chiral-index assignment. Physical Review B, 2005, 72, .	1.1	323
150	Exciton binding energies in carbon nanotubes from two-photon photoluminescence. Physical Review B, 2005, 72, .	1.1	441
151	Chirality assignments in carbon nanotubes based on resonant Raman scattering. Physica Status Solidi (B): Basic Research, 2005, 242, 1802-1806.	0.7	15
152	Strength of radial breathing mode in single-walled carbon nanotubes. Physical Review B, 2005, 71, .	1.1	109
153	Electrochemical switching of the Peierls-like transition in metallic single-walled carbon nanotubes. Physical Review B, 2005, 72, .	1.1	60
154	Structural, electronic, and vibrational properties of (4,4) picotube crystals. Physical Review B, 2005, 72, .	1.1	12
155	Publisher's Note: Chirality Distribution and Transition Energies of Carbon Nanotubes [Phys. Rev. Lett.93, 177401 (2004)]. Physical Review Letters, 2004, 93, .	2.9	4
156	Phonon Dispersion in Graphite. Physical Review Letters, 2004, 92, 075501.	2.9	460
157	Resonant Raman spectroscopy of nanotubes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 2337-2359.	1.6	68
158	Double-resonant Raman scattering in graphite: Interference effects, selection rules, and phonon dispersion. Physical Review B, 2004, 70, .	1.1	255
159	Chirality Distribution and Transition Energies of Carbon Nanotubes. Physical Review Letters, 2004, 93, 177401.	2.9	339
160	The radial breathing mode frequency in double-walled carbon nanotubes: an analytical approximation. Physica Status Solidi (B): Basic Research, 2003, 237, R7-R10.	0.7	38
161	High-Energy Phonon Branches of an Individual Metallic Carbon Nanotube. Physical Review Letters, 2003, 91, 087402.	2.9	61
162	Quantum numbers and band topology of nanotubes. Journal of Physics A, 2003, 36, 5707-5717.	1.6	19

#	Article	IF	Citations
163	Raman scattering in carbon nanotubes revisited. Physical Review B, 2002, 65, .	1.1	100
164	Tight-binding description of graphene. Physical Review B, 2002, 66, .	1.1	904
165	Raman characterization of boron-doped multiwalled carbon nanotubes. Applied Physics Letters, 2002, 81, 2647-2649.	1.5	185
166	Phonon dispersion of carbon nanotubes. Solid State Communications, 2002, 121, 471-474.	0.9	68
167	Chirality-selective Raman scattering of theDmode in carbon nanotubes. Physical Review B, 2001, 64, .	1.1	120
168	Resonant Raman scattering in GaAs induced by an embedded InAs monolayer. Physical Review B, 2000, 63, .	1.1	6
169	Spatial Control of Graphene Functionalization by Patterning a 2D Substrate: Implications for Graphene Based van-der-Waals Heterostructures. ACS Applied Nano Materials, 0, , .	2.4	2