

Christian Thomsen

List of Publications by Year in descending order

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398
papers

21,542
citations

11651

70
h-index

11052

137
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399
all docs

399
docs citations

399
times ranked

18926
citing authors

#	ARTICLE	IF	CITATIONS
1	Double Resonant Raman Scattering in Graphite. <i>Physical Review Letters</i> , 2000, 85, 5214-5217.	7.8	1,593
2	Surface generation and detection of phonons by picosecond light pulses. <i>Physical Review B</i> , 1986, 34, 4129-4138.	3.2	1,355
3	Raman spectroscopy of graphite. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004, 362, 2271-2288.	3.4	1,040
4	Tight-binding description of graphene. <i>Physical Review B</i> , 2002, 66, .	3.2	904
5	Raman spectroscopy of orthorhombic perovskitelike YMnO_3 and LaMnO_3 . <i>Physical Review B</i> , 1998, 57, 2872-2877.	3.2	581
6	Phonon Dispersion in Graphite. <i>Physical Review Letters</i> , 2004, 92, 075501.	7.8	460
7	Coherent Phonon Generation and Detection by Picosecond Light Pulses. <i>Physical Review Letters</i> , 1984, 53, 989-992.	7.8	459
8	Nitrogen-related local vibrational modes in ZnO:N . <i>Applied Physics Letters</i> , 2002, 80, 1909-1911.	3.3	440
9	Phonon dispersion of graphite by inelastic x-ray scattering. <i>Physical Review B</i> , 2007, 76, .	3.2	381
10	Determination of the superconducting gap in $\text{RbBa}_2\text{Cu}_3\text{O}_7$. <i>Physical Review Letters</i> , 1990, 65, 915-918.	7.8	345
11	Chirality Distribution and Transition Energies of Carbon Nanotubes. <i>Physical Review Letters</i> , 2004, 93, 177401.	7.8	339
12	Radial breathing mode of single-walled carbon nanotubes: Optical transition energies and chiral-index assignment. <i>Physical Review B</i> , 2005, 72, .	3.2	323
13	Zone-boundary phonons in hexagonal and cubic GaN. <i>Physical Review B</i> , 1997, 55, 7000-7004.	3.2	289
14	Comparative study of optical phonons in the rhombohedrally distorted perovskites LaAlO_3 and LaMnO_3 . <i>Physical Review B</i> , 1999, 59, 4146-4153.	3.2	288
15	Raman 2D-Band Splitting in Graphene: Theory and Experiment. <i>ACS Nano</i> , 2011, 5, 2231-2239.	14.6	271
16	Elasticity of single-crystalline graphite: Inelastic x-ray scattering study. <i>Physical Review B</i> , 2007, 75, .	3.2	264
17	Ab initio calculations of the optical properties of 4-Å-diameter single-walled nanotubes. <i>Physical Review B</i> , 2002, 66, .	3.2	256
18	Double-resonant Raman scattering in graphite: Interference effects, selection rules, and phonon dispersion. <i>Physical Review B</i> , 2004, 70, .	3.2	255

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19	Frequencies, eigenvectors, and single-crystal selection rules of $k=0$ phonons in $\text{YBa}_2\text{Cu}_3\text{O}_7$: Theory and experiment. <i>Physical Review B</i> , 1988, 37, 7971-7974.	3.2	252
20	Untwinned single crystals of $\text{YBa}_2\text{Cu}_3\text{O}_7$: An optical investigation of the a - b anisotropy. <i>Physical Review B</i> , 1988, 37, 9860-9863.	3.2	240
21	Electronic Structure and Exciton-Phonon Interaction in Two-Dimensional Colloidal CdSe Nanosheets. <i>Nano Letters</i> , 2012, 12, 3151-3157.	9.1	224
22	Effect of pressure on optical phonon modes and transverse effective charges in GaN and AlN. <i>Physical Review B</i> , 2001, 64, .	3.2	211
23	Systematic Raman and infrared studies of the superconductor $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ as a function of oxygen concentration ($0 \leq x \leq 1$). <i>Solid State Communications</i> , 1988, 65, 55-58.	1.9	191
24	Raman characterization of boron-doped multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , 2002, 81, 2647-2649.	3.3	185
25	Quantitative determination of hexagonal minority phase in cubic GaN using Raman spectroscopy. <i>Solid State Communications</i> , 1995, 96, 943-949.	1.9	154
26	Interfacial Alloying in CdSe/CdS Heteronanocrystals: A Raman Spectroscopy Analysis. <i>Chemistry of Materials</i> , 2012, 24, 311-318.	6.7	146
27	Elastic properties of carbon nanotubes under hydrostatic pressure. <i>Physical Review B</i> , 2002, 65, .	3.2	139
28	Picosecond interferometric technique for study of phonons in the Brillouin frequency range. <i>Optics Communications</i> , 1986, 60, 55-58.	2.1	137
29	Strain relaxation and strong impurity incorporation in epitaxial laterally overgrown GaN: Direct imaging of different growth domains by cathodoluminescence microscopy and micro-Raman spectroscopy. <i>Applied Physics Letters</i> , 1999, 74, 359-361.	3.3	137
30	Phonon self-energies and the gap of high-temperature superconductors. <i>Solid State Communications</i> , 1990, 75, 219-223.	1.9	130
31	Terahertz conductivity peak in composite materials containing carbon nanotubes: Theory and interpretation of experiment. <i>Physical Review B</i> , 2010, 81, .	3.2	125
32	Synthesis of CdSe/CdS Core-Shell Quantum Dots. <i>Chemistry of Materials</i> , 2014, 26, 1154-1160.	6.7	124
33	Raman scattering on superconducting crystals of $\text{Bi}_2(\text{Sr}_{1-x}\text{Ca}_x)_n\text{Cu}_{n+1}\text{O}_{(6+2n)}$ ($n = 0, 1$). <i>Solid State Communications</i> , 1988, 66, 1225-1230.	1.9	120
34	Chirality-selective Raman scattering of the D mode in carbon nanotubes. <i>Physical Review B</i> , 2001, 64, .	3.2	120
35	Acetylene: A Key Growth Precursor for Single-Walled Carbon Nanotube Forests. <i>Journal of Physical Chemistry C</i> , 2009, 113, 17321-17325.	3.1	120
36	The low-temperature infrared optical functions of SrTiO_3 determined by reflectance spectroscopy and spectroscopic ellipsometry. <i>Journal of Applied Physics</i> , 1995, 78, 1235-1240.	2.5	116

#	ARTICLE	IF	CITATIONS
37	Shear strain in carbon nanotubes under hydrostatic pressure. Physical Review B, 2000, 61, R13389-R13392.	3.2	109
38	Strength of radial breathing mode in single-walled carbon nanotubes. Physical Review B, 2005, 71, .	3.2	109
39	Chirality dependence of the density-of-states singularities in carbon nanotubes. Physical Review B, 2000, 62, 4273-4276.	3.2	106
40	Splitting of the Raman D band of graphene subjected to strain. Physical Review B, 2010, 82, .	3.2	106
41	Two-dimensional electronic and vibrational band structure of uniaxially strained graphene from ab initio calculations. Physical Review B, 2009, 80, .	3.2	105
42	Experimental evidence of localized plasmon resonance in composite materials containing single-wall carbon nanotubes. Physical Review B, 2012, 85, .	3.2	105
43	Theory of multiwall carbon nanotubes as waveguides and antennas in the infrared and the visible regimes. Physical Review B, 2009, 79, .	3.2	103
44	Raman and infrared studies of the oxygen deficient semiconducting phase of the superconducting cuprate perovskites. Solid State Communications, 1988, 65, 1139-1144.	1.9	100
45	Raman scattering in carbon nanotubes revisited. Physical Review B, 2002, 65, .	3.2	100
46	Lattice vibrations of $Y_{1-x}Pr_xBa_2Cu_3O_7$: theory and experiment. Physica C: Superconductivity and Its Applications, 1993, 206, 345-359.	1.2	97
47	Infrared active phonons in single-walled carbon nanotubes. Chemical Physics Letters, 1998, 294, 237-240.	2.6	97
48	Raman Frequencies and Angular Dispersion of Polar Modes in Aluminum Nitride and Gallium Nitride. Physica Status Solidi (B): Basic Research, 1996, 198, 621-627.	1.5	96
49	Vibrational properties of graphene nanoribbons by first-principles calculations. Physical Review B, 2009, 80, .	3.2	96
50	Infrared and Raman spectra of the new superconducting cuprate perovskites $MBa_2Cu_3O_7$, $M = Nd, Dy, Er, Tm$. Solid State Communications, 1988, 65, 71-75.	1.9	95
51	Photoluminescence and Raman study of compensation effects in Mg-doped GaN epilayers. Journal of Applied Physics, 1998, 84, 5828-5830.	2.5	94
52	Lattice dynamics of hexagonal and cubic InN: Raman-scattering experiments and calculations. Applied Physics Letters, 2000, 76, 2122-2124.	3.3	94
53	Synthesis of Copious Amounts of SnS_2 and SnS_2/SnS Nanotubes with Ordered Superstructures. Angewandte Chemie - International Edition, 2011, 50, 12316-12320.	13.8	94
54	Phonon anomalies above T_c in $YBa_2Cu_4O_8$ and $YBa_2Cu_3O_{7-x}$ superconductors: An effect of coupling to spin excitations. Solid State Communications, 1992, 83, 343-347.	1.9	92

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55	Raman spectroscopy on single- and multi-walled nanotubes under high pressure. Applied Physics A: Materials Science and Processing, 1999, 69, 309-312.	2.3	91
56	Resonance Raman spectra of β -carotene in solution and in photosystems revisited: an experimental and theoretical study. Physical Chemistry Chemical Physics, 2009, 11, 11471.	2.8	90
57	Local vibrational modes in Mg-doped GaN grown by molecular beam epitaxy. Applied Physics Letters, 1999, 74, 3281-3283.	3.3	89
58	Zn interstitial related donors in ammonia-treated ZnO powders. Physical Review B, 2007, 76, .	3.2	86
59	Tunable Plasmon Coupling in Distance-Controlled Gold Nanoparticles. Langmuir, 2012, 28, 8862-8866.	3.5	85
60	Chiral Index Dependence of the G^+ and G^- Raman Modes in Semiconducting Carbon Nanotubes. ACS Nano, 2012, 6, 904-911.	14.6	85
61	Temperature-dependent lifetime of spin excitations in $R\text{Ba}_2\text{Cu}_3\text{O}_6$ ($R=\text{Eu}, \text{Y}$). Physical Review B, 1990, 42, 4842-4845.	3.2	84
62	Exciton Resonances Quench the Photoluminescence of Zigzag Carbon Nanotubes. Physical Review Letters, 2005, 95, 077402.	7.8	84
63	Comparison of the phonon spectra of Ge_70 and natural Ge crystals: Effects of isotopic disorder. Physical Review B, 1991, 43, 4835-4842.	3.2	82
64	Excited-state carrier lifetime in single-walled carbon nanotubes. Physical Review B, 2005, 71, .	3.2	80
65	Vertical strain and doping gradients in thick GaN layers. Applied Physics Letters, 1997, 71, 2490-2492.	3.3	78
66	Splitting of monolayer out-of-plane A_1 mode in few-layer WS_2 . Physical Review B, 2015, 91, .	3.2	78
67	Optical phonons in $\text{YBa}_2\text{Cu}_4\text{O}_8$ and $\text{Y}_2\text{Ba}_4\text{Cu}_7\text{O}_{15}$. Physical Review B, 1990, 41, 11058-11067.	3.2	76
68	Phonon characterization of $\text{Bi}_2(\text{Sr}_{1-x}\text{Ca}_x)_2\text{CuO}_6$ by infrared and Raman spectroscopy. Solid State Communications, 1988, 66, 965-969.	1.9	74
69	Resonant Raman scattering of oxygen-deficient $\text{YBa}_2\text{Cu}_3\text{O}_7$: Evidence for the coexistence of ortho-I, ortho-II, and tetragonal microstructures. Physical Review B, 1993, 47, 12341-12344.	3.2	74
70	Ab initio determination of the phonon deformation potentials of graphene. Physical Review B, 2002, 65, .	3.2	72
71	Raman study of the phonon anomaly in single-crystal $\text{YBa}_2\text{Cu}_3\text{O}_7$ in the presence of a magnetic field. Physical Review B, 1988, 38, 11985-11987.	3.2	71
72	Electrochemical and Raman measurements on single-walled carbon nanotubes. Chemical Physics Letters, 2003, 375, 625-631.	2.6	71

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73	Phonon dispersion of carbon nanotubes. Solid State Communications, 2002, 121, 471-474.	1.9	68
74	Resonant Raman spectroscopy of nanotubes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 2337-2359.	3.4	68
75	Raman Scattering in Carbon Nanotubes. , 2006, , 115-234.		68
76	Second-order Raman spectra of single and multiwalled carbon nanotubes. Physical Review B, 2000, 61, 4542-4544.	3.2	65
77	Electronic band structure of high-index silicon nanowires. Physica Status Solidi (B): Basic Research, 2005, 242, 2474-2479.	1.5	65
78	Selective Polycarboxylation of Semiconducting Single-Walled Carbon Nanotubes by Reductive Sidewall Functionalization. Journal of the American Chemical Society, 2011, 133, 19459-19473.	13.7	62
79	High-Energy Phonon Branches of an Individual Metallic Carbon Nanotube. Physical Review Letters, 2003, 91, 087402.	7.8	61
80	Longitudinal Optical Phonons in Metallic and Semiconducting Carbon Nanotubes. Physical Review Letters, 2009, 102, 075501.	7.8	61
81	Electrochemical switching of the Peierls-like transition in metallic single-walled carbon nanotubes. Physical Review B, 2005, 72, .	3.2	60
82	Homogeneously Alloyed CdSe _{1-x} S _x Quantum Dots (0 ≤ x ≤ 1): An Efficient Synthesis for Full Optical Tunability. Chemistry of Materials, 2013, 25, 2388-2390.	6.7	58
83	Anisotropy of the dielectric function in YBa ₂ Cu ₃ O ₆ . Physical Review B, 1989, 40, 7368-7371.	3.2	57
84	Effect of isotopic substitution of oxygen on T _c and the phonon frequencies of high T _c superconductors. Solid State Communications, 1988, 67, 789-793.	1.9	56
85	Intensity anomalies of Raman-active phonons in the superconducting state of YBa ₂ Cu ₃ O _{7-δ} . Solid State Communications, 1991, 78, 291-294.	1.9	56
86	Impurity-induced modes of Mg, As, Si, and C in hexagonal and cubic GaN. Physical Review B, 2000, 61, 5353-5357.	3.2	56
87	Growth and characterization of high-density mats of single-walled carbon nanotubes for interconnects. Applied Physics Letters, 2008, 93, 163111.	3.3	55
88	Electron-phonon coupling of apex oxygen in RBa ₂ Cu ₃ O _{7-δ} . Solid State Communications, 1990, 76, 1107-1110.	1.9	54
89	Self-energies of infrared-active phonons in RBa ₂ Cu ₃ O _{7-δ} . Solid State Communications, 1991, 80, 257-262.	1.9	54
90	Intermolecular Interaction in Carbon Nanotube Ropes. Physica Status Solidi (B): Basic Research, 1999, 215, 435-441.	1.5	54

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91	Use of carbon nanotubes for VLSI interconnects. <i>Diamond and Related Materials</i> , 2009, 18, 957-962.	3.9	54
92	Phonon eigenvectors of chiral nanotubes. <i>Physical Review B</i> , 2001, 64, .	3.2	53
93	Geometry dependence of the phonon modes in CdSe nanorods. <i>Nanotechnology</i> , 2009, 20, 045705.	2.6	53
94	Low-energy Raman-active phonons of multiwalled carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 1998, 67, 113-116.	2.3	52
95	Optical microscopy of electronic and structural properties of epitaxial laterally overgrown GaN. <i>Applied Physics Letters</i> , 1999, 74, 3320-3322.	3.3	52
96	Picosecond acoustics as a non-destructive tool for the characterization of very thin films. <i>Thin Solid Films</i> , 1987, 154, 217-223.	1.8	51
97	Effect of oxygen disorder on superconductivity-induced self-energy effects in impurity-free $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. <i>Solid State Communications</i> , 1991, 80, 643-647.	1.9	51
98	Crystal field Raman scattering in Nd_2CuO_4 . <i>Solid State Communications</i> , 1993, 87, 609-612.	1.9	51
99	Orientation dependence of the polarizability of an individual WS_2 nanotube by resonant Raman spectroscopy. <i>Physical Review B</i> , 2005, 72, .	3.2	51
100	Experimental investigation of exciton-LO-phonon couplings in CdSe/ZnS core/shell nanorods. <i>Physical Review B</i> , 2008, 77, .	3.2	51
101	Spatially resolved photoluminescence and Raman scattering experiments on the GaN/substrate interface. <i>Applied Physics Letters</i> , 1996, 68, 1265-1266.	3.3	48
102	Stress analysis of selective epitaxial growth of GaN. <i>Applied Physics Letters</i> , 1999, 74, 3122-3124.	3.3	48
103	Effect of substitutional impurities on the superconducting gap of $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$. <i>Solid State Communications</i> , 1991, 78, 727-733.	1.9	47
104	Raman studies of photochemical reactions in fullerene films. <i>Chemical Physics Letters</i> , 1993, 212, 384-390.	2.6	47
105	Carbon nanotube as a Cherenkov-type light emitter and free electron laser. <i>Physical Review B</i> , 2009, 79, .	3.2	47
106	Assembly of carbon nanotubes and alkylated fullerenes: nanocarbon hybrid towards photovoltaic applications. <i>Chemical Science</i> , 2011, 2, 2243.	7.4	47
107	Influence of interference on photoinduced changes in transmission and reflection. <i>Optics Communications</i> , 1986, 58, 226-230.	2.1	46
108	Determination of the degree of epitaxy in high- T_c thin films by raman spectroscopy. <i>Solid State Communications</i> , 1992, 83, 199-203.	1.9	46

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109	Electronic transitions in single-walled carbon nanotubes: A resonance Raman study. <i>Physical Review B</i> , 2000, 61, 16179-16182.	3.2	45
110	Excitonic resonances in WS ₂ nanotubes. <i>Physical Review B</i> , 2012, 86, .	3.2	45
111	In situ Raman spectroscopy of the electrochemical reduction of WO ₃ thin films in various electrolytes. <i>Solar Energy Materials and Solar Cells</i> , 2002, 71, 511-522.	6.2	44
112	Elastic properties and pressure-induced phase transitions of single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 235, 354-359.	1.5	44
113	Raman scattering on silicon nanowires: The thermal conductivity of the environment determines the optical phonon frequency. <i>Applied Physics Letters</i> , 2006, 88, 233114.	3.3	44
114	Carbon nanotube Bloch equations: A many-body approach to nonlinear and ultrafast optical properties. <i>Physical Review B</i> , 2008, 77, .	3.2	43
115	Raman-active phonons and mode softening in superconducting HgBa ₂ CuO ₄ + δ . <i>Physical Review B</i> , 1994, 50, 1165-1170.	3.2	41
116	A comparison of the Hall-effect and secondary ion mass spectroscopy on the shallow oxygen donor in unintentionally doped GaN films. <i>Journal of Applied Physics</i> , 2000, 88, 1811-1817.	2.5	41
117	Raman excitation profiles of $\hat{\Gamma}_2$ carotene $\hat{\epsilon}$ novel insights into the nature of the $\hat{\Gamma}_{1/2}$ band. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2225-2228.	1.5	40
118	High T _c superconductors MBa ₂ Cu ₃ O _{7-x} with M = Mixed Rare earths and Y: Low frequency phonon peak engineering. <i>Solid State Communications</i> , 1988, 65, 219-222.	1.9	38
119	Intensities of the Raman-active modes in single and multiwall nanotubes. <i>Physical Review B</i> , 2001, 63, .	3.2	38
120	The radial breathing mode frequency in double-walled carbon nanotubes: an analytical approximation. <i>Physica Status Solidi (B): Basic Research</i> , 2003, 237, R7-R10.	1.5	38
121	Dynamics of the Field-Induced Formation of Hexagonal Zipped-Chain Superstructures in Magnetic Colloids. <i>Physical Review Letters</i> , 2011, 106, 208301.	7.8	38
122	Effect of Catalyst Pretreatment on Chirality-Selective Growth of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5773-5781.	3.1	37
123	Resonant-Raman intensities and transition energies of the E ₁₁ transition in carbon nanotubes. <i>Physical Review B</i> , 2006, 74, .	3.2	36
124	Direct Observation of the Radial Breathing Mode in CdSe Nanorods. <i>Nano Letters</i> , 2008, 8, 4614-4617.	9.1	36
125	Effects of Landau-damping on the Raman-active phonons of YBa ₂ Cu ₃ O _{7-δ} . <i>Solid State Communications</i> , 1992, 81, 989-992.	1.9	34
126	Raman study of Kramers doublets in Nd ₂ CuO ₄ . <i>Physical Review B</i> , 1995, 51, 1053-1057.	3.2	34

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127	Salty groundwater flow in the shallow and deep aquifer systems of the Schleswig-Holstein area (North German Basin). <i>Tectonophysics</i> , 2009, 470, 183-194.	2.2	34
128	Pressure and temperature effects on optical transitions in cubic GaN. <i>Journal of Applied Physics</i> , 1999, 86, 929-934.	2.5	33
129	Phonons in bulk CdSe and CdSe nanowires. <i>Nanotechnology</i> , 2009, 20, 115707.	2.6	33
130	Raman Scattering in Os: Nonadiabatic Renormalization of the Optical Phonon Self-Energies. <i>Physica Status Solidi (B): Basic Research</i> , 1998, 208, 257-269.	1.5	32
131	CuO ₂ -plane vibrational modes in single crystals of PrBa ₂ Cu ₃ O ₇ . <i>Solid State Communications</i> , 1988, 67, 271-274.	1.9	31
132	High-gain excitonic lasing from a single InAs monolayer in bulk GaAs. <i>Applied Physics Letters</i> , 1998, 72, 1433-1435.	3.3	30
133	Micro-Raman and cathodoluminescence studies of epitaxial laterally overgrown GaN with tungsten masks: A method to map the free-carrier concentration of thick GaN samples. <i>Applied Physics Letters</i> , 2000, 76, 3418-3420.	3.3	30
134	Electronic structure of self-assembled InP/GaP quantum dots from high-pressure photoluminescence. <i>Physical Review B</i> , 2003, 67, .	3.2	30
135	Resonant Raman scattering at exciton intermediate states in ZnO. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, 169-171.	2.4	30
136	Observation of molecular vibrations in real time. <i>Physical Review Letters</i> , 1986, 57, 3302-3302.	7.8	29
137	Optical phonons in Y ₂ BaCuO ₅ . <i>Solid State Communications</i> , 1988, 66, 43-47.	1.9	29
138	Raman and far infrared studies of YBa ₂ Cu ₃ O ₇ prepared exclusively with ¹⁸ O. <i>Solid State Communications</i> , 1988, 67, 1069-1072.	1.9	28
139	Raman-scattering probe of oxygen ordering during room-temperature annealing of YBa ₂ Cu ₃ O ₇ . <i>Physical Review B</i> , 1993, 47, 9148-9150.	3.2	28
140	Fröhlich-interaction-induced multiphonon Raman scattering in SrCuO ₂ and Sr _{0.5} Ca _{0.5} CuO ₂ s. <i>Physical Review B</i> , 1997, 55, R8638-R8641.	3.2	28
141	G ⁺ and G ⁻ in the Raman spectrum of isolated nanotube: a study on resonance conditions and lineshape. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2189-2192.	1.5	28
142	High Levels of Electrochemical Doping of Carbon Nanotubes: Evidence for a Transition from Double-Layer Charging to Intercalation and Functionalization. <i>Journal of Physical Chemistry B</i> , 2008, 112, 5368-5373.	2.6	28
143	Size-dependence of the anharmonicities in the vibrational potential of colloidal CdSe nanocrystals. <i>Solid State Communications</i> , 2011, 151, 67-70.	1.9	28
144	Raman study of YBa ₂ Cu ₃ O ₇ /PrBa ₂ Cu ₃ O ₇ superlattices. <i>Physical Review B</i> , 1992, 46, 14017-14021.	3.2	27

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145	Chain-oxygen vibrations in YBa ₂ Cu ₃ O _{7-δ} and YBa ₂ Cu ₄ O ₈ . <i>Physical Review B</i> , 1992, 45, 8154-8157.	3.2	27
146	Ab initio calculations of edge-functionalized armchair graphene nanoribbons: Structural, electronic, and vibrational effects. <i>Physical Review B</i> , 2011, 84, .	3.2	26
147	Studying the local character of Raman features of single-walled carbon nanotubes along a bundle using TERS. <i>Nanoscale Research Letters</i> , 2011, 6, 174.	5.7	26
148	Far-infrared spectroscopy of the superconductor YBa ₂ Cu ₄ O ₈ . <i>European Physical Journal B</i> , 1992, 86, 329-335.	1.5	25
149	Topotactic reactions of superconducting YBa ₂ Cu ₃ O ₇ thin films with water vapour. <i>Solid State Ionics</i> , 1996, 84, 23-32.	2.7	25
150	Raman scattering from defects in GaN: The question of vibrational or electronic scattering mechanism. <i>Physical Review B</i> , 1998, 58, 13619-13626.	3.2	25
151	Magnetoluminescence Study of Annealing Effects on the Electronic Structure of Self-organized InGaAs/GaAs Quantum Dots. <i>Japanese Journal of Applied Physics</i> , 2000, 39, 3907-3914.	1.5	25
152	Dynamics of magnetic-field-induced clustering in ionic ferrofluids from Raman scattering. <i>Journal of Chemical Physics</i> , 2007, 126, 124701.	3.0	25
153	Effect of ZnS shell on the Raman spectra from CdSe nanorods. <i>Physica Status Solidi - Rapid Research Letters</i> , 2007, 1, 274-276.	2.4	25
154	Micro-Raman study of isotope substitution in YBa ₂ Cu ₃ O _{7-δ} during local laser annealing. <i>Physical Review B</i> , 1995, 52, 13652-13657.	3.2	24
155	Doping effects in the Sr ₁₄ Cu ₂₄ O ₄₁ -type structure: a Raman scattering study. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 280, 297-303.	1.2	24
156	Exchange instability of the two-dimensional electron gas in semiconductor quantum wells. <i>Physical Review B</i> , 2002, 65, .	3.2	24
157	Raman response of magnetic excitations in cuprate ladders and planes. <i>Physical Review B</i> , 2005, 72, .	3.2	24
158	Reversible photochemical processes in fullerenes. A Raman study. <i>Chemical Physics Letters</i> , 1993, 215, 131-136.	2.6	23
159	Luminescence and Raman spectroscopy on MgB ₂ . <i>Solid State Communications</i> , 2002, 122, 455-458.	1.9	23
160	Self-energy effects of the B _{1g} phonon in Bi ₂ Sr ₂ CaCu ₂ O ₈ . <i>Solid State Communications</i> , 1993, 88, 457-460.	1.9	22
161	Resonant Raman scattering on free and bound excitons in GaN. <i>Physical Review B</i> , 2001, 64, .	3.2	22
162	Stress analysis of Al _x Ga _{1-x} N films with microcracks. <i>Applied Physics Letters</i> , 2003, 82, 367-369.	3.3	22

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