

Stephanie Reich

List of Publications by Year in Descending Order

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Version: 2024-04-09

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

205 papers	12,350 citations	50 h-index	108 g-index
233 ext. papers	13,914 ext. citations	4.9 avg, IF	6.43 L-index

#	Paper	IF	Citations
205	Microscopic Understanding of Reaction Rates Observed in Plasmon Chemistry of Nanoparticle-Ligand Systems.. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 5333-5342	3.8	3
204	In situ functionalization of graphene. <i>2D Materials</i> , 2021 , 8, 015022	5.9	4
203	Surface-Enhanced Raman Scattering and Surface-Enhanced Infrared Absorption by Plasmon Polaritons in Three-Dimensional Nanoparticle Supercrystals. <i>ACS Nano</i> , 2021 , 15, 5523-5533	16.7	23
202	The patterning toolbox FIB-o-mat: Exploiting the full potential of focused helium ions for nanofabrication. <i>Beilstein Journal of Nanotechnology</i> , 2021 , 12, 304-318	3	6
201	Strong light-matter coupling in MoS2. <i>Physical Review B</i> , 2021 , 103,	3.3	3
200	Kinetics and Mechanism of Plasmon-Driven Dehalogenation Reaction of Brominated Purine Nucleobases on Ag and Au. <i>ACS Catalysis</i> , 2021 , 11, 8370-8381	13.1	11
199	Doping and plasmonic Raman enhancement in hybrid single walled carbon nanotubes films with embedded gold nanoparticles. <i>Carbon</i> , 2021 , 179, 531-540	10.4	3
198	Anti-Stokes Raman Scattering of Single Carbyne Chains. <i>ACS Nano</i> , 2021 ,	16.7	4
197	Experimental tests of surface-enhanced Raman scattering: Moving beyond the electromagnetic enhancement theory. <i>Journal of Raman Spectroscopy</i> , 2021 , 52, 310-322	2.3	5
196	Endohedral Filling Effects in Sorted and Polymer-Wrapped Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7476-7487	3.8	4
195	Moiré-Induced Vibrational Coupling in Double-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2021 , 21, 6732-6739	10.5	2
194	Synthesis of Multifunctional Charge-Transfer Agents: Toward Single-Walled Carbon Nanotubes with Defined Covalent Functionality and Preserved System. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 19925-19935	3.8	
193	Selection Rules for Structured Light in Nanooligomers and Other Nanosystems. <i>ACS Photonics</i> , 2020 , 7, 1537-1550	6.3	11
192	Impact of substrate on tip-enhanced Raman spectroscopy: A comparison between field-distribution simulations and graphene measurements. <i>Physical Review Research</i> , 2020 , 2,	3.9	8
191	Selective excitation of localized surface plasmons by structured light. <i>Optics Express</i> , 2020 , 28, 24262-24274	13.4	6
190	Dark plasmon modes for efficient hot electron generation in multilayers of gold nanoparticles. <i>Journal of Chemical Physics</i> , 2020 , 152, 064710	3.9	4
189	Understanding the Electron-Doping Mechanism in Potassium-Intercalated Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2020 , 142, 2327-2337	16.4	10

188	Few-Wall Carbon Nanotube Coils. <i>Nano Letters</i> , 2020 , 20, 953-962	11.5	7
187	Separation of Specific Single-Enantiomer Single-Wall Carbon Nanotubes in the Large-Diameter Regime. <i>ACS Nano</i> , 2020 , 14, 948-963	16.7	44
186	Thermal properties enhancement of epoxy resins by incorporating polybenzimidazole nanofibers filled with graphene and carbon nanotubes as reinforcing material. <i>Polymer Testing</i> , 2020 , 82, 106317	4.5	33
185	Raman Scattering Cross Section of Confined Carbyne. <i>Nano Letters</i> , 2020 , 20, 6750-6755	11.5	12
184	Deep strong light-matter coupling in plasmonic nanoparticle crystals. <i>Nature</i> , 2020 , 583, 780-784	50.4	53
183	Structural order in plasmonic superlattices. <i>Nature Communications</i> , 2020 , 11, 3821	17.4	21
182	Resonant Raman Scattering of 4-Nitrothiophenol. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000295	1.3	2
181	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020 , 14, 28-117	16.7	1000
180	Photoswitchable single-walled carbon nanotubes for super-resolution microscopy in the near-infrared. <i>Science Advances</i> , 2019 , 5, eaax1166	14.3	24
179	Direct optical excitation of dark plasmons for hot electron generation. <i>Faraday Discussions</i> , 2019 , 214, 159-173	3.6	11
178	Separation of Small-Diameter Single-Walled Carbon Nanotubes in One to Three Steps with Aqueous Two-Phase Extraction. <i>ACS Nano</i> , 2019 , 13, 2567-2578	16.7	41
177	Theory of hot electrons: general discussion. <i>Faraday Discussions</i> , 2019 , 214, 245-281	3.6	15
176	Resonant, Plasmonic Raman Enhancement of EIT Molecules Encapsulated in Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 10578-10585	3.8	6
175	CONNECTION BETWEEN STRENGTH AND THERMAL CONDUCTIVITY OF METAL MATRIX COMPOSITES WITH UNIFORM DISTRIBUTION OF GRAPHITE FLAKES. <i>International Journal of Engineering Science</i> , 2019 , 139, 70-82	5.7	11
174	Modeling Surface-Enhanced Spectroscopy With Perturbation Theory. <i>Frontiers in Chemistry</i> , 2019 , 7, 4705		5
173	Optical Absorption of Dye Molecules Remains Unaffected by Submonolayer Complex Formation with Metal Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17498-17504	3.8	7
172	Plasmonic Properties of Close-Packed Metallic Nanoparticle Mono- and Bilayers. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17951-17960	3.8	11
171	Polystyrene nanofibers for nonwoven porous building insulation materials. <i>Engineering Reports</i> , 2019 , 1, e12037	1.2	7

170	Atomic-resolution visualization and doping effects of complex structures in intercalated bilayer graphene. <i>Physical Review Materials</i> , 2019 , 3,	3.2	5
169	Asymmetry of resonance Raman profiles in semiconducting single-walled carbon nanotubes at the first excitonic transition. <i>Physical Review B</i> , 2019 , 99,	3.3	5
168	Understanding the negative thermal expansion in planar graphite-metal composites. <i>Journal of Materials Science</i> , 2019 , 54, 1267-1274	4.3	7
167	Graphene as a local probe to investigate near-field properties of plasmonic nanostructures. <i>Physical Review B</i> , 2018 , 97,	3.3	9
166	In situ thermal polymerisation of natural oils as novel sustainable approach in nanographite particle production. <i>Applied Physics A: Materials Science and Processing</i> , 2018 , 124, 1	2.6	
165	Evaluating arbitrary strain configurations and doping in graphene with Raman spectroscopy. <i>2D Materials</i> , 2018 , 5, 015016	5.9	71
164	Isotropic thermal expansion in anisotropic thermal management composites filled with carbon fibres and graphite. <i>Journal of Materials Science</i> , 2018 , 53, 10910-10919	4.3	9
163	Fluorescent Polymer-Single-Walled Carbon Nanotube Complexes with Charged and Noncharged Dendronized Perylene Bisimides for Bioimaging Studies. <i>Small</i> , 2018 , 14, e1800796	11	25
162	Microscopic theory of optical absorption in graphene enhanced by lattices of plasmonic nanoparticles. <i>Physical Review B</i> , 2018 , 97,	3.3	6
161	Excitation-Tunable Tip-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28273-28279	3.2	28
160	Dark Interlayer Plasmons in Colloidal Gold Nanoparticle Bi- and Few-Layers. <i>ACS Photonics</i> , 2018 , 5, 3962-3969	3.9	19
159	Preserving π -conjugation in covalently functionalized carbon nanotubes for optoelectronic applications. <i>Nature Communications</i> , 2017 , 8, 14281	17.4	93
158	Composites of aluminum alloy and magnesium alloy with graphite showing low thermal expansion and high specific thermal conductivity. <i>Science and Technology of Advanced Materials</i> , 2017 , 18, 180-186	7.1	58
157	Precise determination of graphene functionalization by in situ Raman spectroscopy. <i>Nature Communications</i> , 2017 , 8, 15192	17.4	105
156	Dynamic properties of hybrid composite structures based multiwalled carbon nanotubes. <i>Composites Science and Technology</i> , 2017 , 148, 70-79	8.6	25
155	Dual-Scattering Near-Field Microscope for Correlative Nanoimaging of SERS and Electromagnetic Hotspots. <i>Nano Letters</i> , 2017 , 17, 2667-2673	11.5	38
154	Controlling the Decoration of the Reduced Graphene Oxide Surface with Pyrene-Functionalized Gold Nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1700281	1.3	7
153	Inner- and outer-wall sorting of double-walled carbon nanotubes. <i>Nature Nanotechnology</i> , 2017 , 12, 1176-1182	6.1	22

152	Dipole-switch induced modification of the emissive response of carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 454003	1.8	2
151	Thermal properties of metal matrix composites with planar distribution of carbon fibres. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1700090	2.5	4
150	Noncovalent Stable Functionalization Makes Carbon Nanotubes Hydrophilic and Biocompatible. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18887-18891	3.8	11
149	Ultrasensitive and towards single molecule SERS: general discussion. <i>Faraday Discussions</i> , 2017 , 205, 291-330	3.6	9
148	Theory of SERS enhancement: general discussion. <i>Faraday Discussions</i> , 2017 , 205, 173-211	3.6	21
147	Plasmonic enhancement of SERS measured on molecules in carbon nanotubes. <i>Faraday Discussions</i> , 2017 , 205, 85-103	3.6	12
146	Symmetry-derived selection rules for plasmon-enhanced Raman scattering. <i>Physical Review B</i> , 2017 , 95,	3.3	26
145	Resonant anti-Stokes Raman scattering in single-walled carbon nanotubes. <i>Physical Review B</i> , 2017 , 96,	3.3	10
144	Electronic band gaps of confined linear carbon chains ranging from polyyne to carbyne. <i>Physical Review Materials</i> , 2017 , 1,	3.2	45
143	Nanodrawing of Aligned Single Carbon Nanotubes with a Nanopen. <i>Nano Letters</i> , 2016 , 16, 1517-22	11.5	10
142	Carbon nanotube chirality enrichment through chirality-selective precipitation. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2380-2384	1.3	1
141	Doping in covalently functionalized carbon nanotubes: A Raman scattering study. <i>Physica Status Solidi (B): Basic Research</i> , 2016 , 253, 2461-2467	1.3	7
140	Potassium intercalated multiwalled carbon nanotubes. <i>Carbon</i> , 2016 , 105, 90-95	10.4	14
139	Requirement on Aromatic Precursor for Graphene Formation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9821-9825	3.8	11
138	Surface-enhanced Raman scattering as a higher-order Raman process. <i>Physical Review A</i> , 2016 , 94,	2.6	23
137	A new topological insulator built from quasi one-dimensional atomic ribbons. <i>Physica Status Solidi - Rapid Research Letters</i> , 2015 , 9, 130-135	2.5	5
136	Isomerization of Orthogonal Molecular Switches Encapsulated within Micelles Solubilizing Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 15731-15734	3.8	7
135	The Origin of High Thermal Conductivity and Ultralow Thermal Expansion in Copper-Graphite Composites. <i>Nano Letters</i> , 2015 , 15, 4745-51	11.5	100

134	Decoupling of epitaxial graphene via gold intercalation probed by dispersive Raman spectroscopy. <i>Journal of Applied Physics</i> , 2015 , 117, 183103	2.5	3
133	Chiral selectivity of polyglycerol-based amphiphiles incorporating different aromatic cores. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2536-2540	1.3	6
132	Transport, magnetic and vibrational properties of chemically exfoliated few-layer graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2438-2443	1.3	4
131	Plasmon-enhanced Raman scattering by suspended carbon nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 08, 785-789	2.5	6
130	Plasmon-enhanced Raman scattering by carbon nanotubes optically coupled with near-field cavities. <i>Nano Letters</i> , 2014 , 14, 1762-8	11.5	47
129	Graphene band structure and its 2D Raman mode. <i>Physical Review B</i> , 2014 , 90,	3.3	5
128	Vapour-liquid-solid growth of ternary Bi ₂ Se ₂ Te nanowires. <i>Nanoscale Research Letters</i> , 2014 , 9, 127	5	14
127	Nanoplatelet size to control the alignment and thermal conductivity in copper-graphite composites. <i>Nano Letters</i> , 2014 , 14, 3640-4	11.5	94
126	Engineering of Bi ₂ Se ₃ nanowires by laser cutting. <i>EPJ Applied Physics</i> , 2014 , 66, 10401	1.1	3
125	Electrochemical Raman spectroscopy of carbon nanotube energy transfer complexes. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2491-2494	1.3	1
124	Type-II band alignment of zinc-blende and wurtzite segments in GaAs nanowires: A combined photoluminescence and resonant Raman scattering study. <i>Physical Review B</i> , 2014 , 89,	3.3	25
123	Optical properties of carbon nanotubes coated with orthogonal dipole switches. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2356-2359	1.3	5
122	Probing LO phonons of graphene under tension via the 2D Raman mode. <i>Physical Review B</i> , 2013 , 87,	3.3	8
121	Carbon-nanotube/polymer nanofibers with high thermal conductivity. <i>Carbon</i> , 2013 , 52, 605-608	10.4	63
120	Quenching of the E ₂ phonon line in the Raman spectra of wurtzite GaAs nanowires caused by the dielectric polarization contrast. <i>Applied Physics Letters</i> , 2013 , 103, 043121	3.4	6
119	Functional Surfactants for Carbon Nanotubes: Effects of Design. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1157-1162	3.8	27
118	Cu ₂ ZnSn(S,Se) ₄ from Cu _x Sn _y nanoparticle precursors on ZnO nanorod arrays. <i>Thin Solid Films</i> , 2013 , 535, 380-383	2.2	10
117	Polarized plasmonic enhancement by Au nanostructures probed through Raman scattering of suspended graphene. <i>Nano Letters</i> , 2013 , 13, 301-8	11.5	123

116	Excitation characteristics of different energy transfer in nanotube-peryene complexes. <i>Applied Physics Letters</i> , 2013 , 102, 233105	3.4	8
115	Filler geometry and interface resistance of carbon nanofibres: Key parameters in thermally conductive polymer composites. <i>Applied Physics Letters</i> , 2013 , 102, 213103	3.4	20
114	Selective interaction between nanotubes and perylene-based surfactant. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 546-549	2.5	2
113	Raman spectra of metallic carbon nanotubes in solution and on substrates. <i>Physica Status Solidi (B): Basic Research</i> , 2013 , 250, 2639-2642	1.3	3
112	Fermi energy shift in deposited metallic nanotubes: A Raman scattering study. <i>Physical Review B</i> , 2013 , 87,	3.3	11
111	Strained graphene as a local probe for plasmon-enhanced Raman scattering by gold nanostructures. <i>Physica Status Solidi - Rapid Research Letters</i> , 2013 , 7, 1067-1070	2.5	10
110	Polyglycerol-derived amphiphiles for the solubilization of single-walled carbon nanotubes in water: a structure-property study. <i>ChemPhysChem</i> , 2012 , 13, 203-11	3.2	26
109	Chirally enhanced solubilization through perylene-based surfactant. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2465-2468	1.3	8
108	Carbon nanotubes as substrates for molecular spiropyran-based switches. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 394006	1.8	14
107	Tuning the interaction between carbon nanotubes and dipole switches: the influence of the change of the nanotube-spiropyran distance. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 394005	1.8	12
106	Analysing the photoluminescence intensities of single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2473-2478	1.3	3
105	Designing a spiropyran-based molecular switch for carbon nanotube functionalization: Influence of anchor groups and tube-switch separation. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2479-2482	1.3	7
104	Dominant phonon wave vectors and strain-induced splitting of the 2D Raman mode of graphene. <i>Physical Review B</i> , 2012 , 85,	3.3	31
103	Controlled reversible debundling of single-walled carbon nanotubes by photo-switchable dendritic surfactants. <i>Nanoscale</i> , 2012 , 4, 3029-31	7.7	25
102	Non-Covalent Functionalization of Individual Nanotubes with Spiropyran-Based Molecular Switches. <i>Advanced Functional Materials</i> , 2012 , 22, 2425-2431	15.6	57
101	Energy Transfer in Nanotube-Perylene Complexes. <i>Advanced Functional Materials</i> , 2012 , 22, 3921-3926	15.6	44
100	Band gap of wurtzite GaAs: A resonant Raman study. <i>Physical Review B</i> , 2012 , 86,	3.3	55
99	Assembly of carbon nanotubes and alkylated fullerenes: nanocarbon hybrid towards photovoltaic applications. <i>Chemical Science</i> , 2011 , 2, 2243	9.4	45

98	Effect of carbon nanotube surface modification on thermal properties of copper/CNT composites. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17541		64
97	Microscopic model of the optical absorption of carbon nanotubes functionalized with molecular spiropyran photoswitches. <i>Physical Review Letters</i> , 2011 , 106, 097401	7.4	72
96	Selective bundling of zigzag single-walled carbon nanotubes. <i>ACS Nano</i> , 2011 , 5, 2847-54	16.7	30
95	Thermal transport of oil and polymer composites filled with carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 105, 781-788	2.6	13
94	Tailoring the contact thermal resistance at metal/carbon nanotube interface. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2520-2523	1.3	3
93	Bundle and chirality influences on properties of carbon nanotubes studied with van der Waals density functional theory. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2589-2592	1.3	18
92	Dominant phonon wavevectors of the 2D Raman mode of graphene. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2635-2638	1.3	8
91	Amphiphile replacement on carbon nanotube surfaces: Effect of aromatic groups on the interaction strength. <i>Physica Status Solidi (B): Basic Research</i> , 2011 , 248, 2532-2535	1.3	9
90	Study on laser welding/brazing of zinc coated steel to aluminum alloy with a zinc based filler. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011 , 528, 1497-1503	5.3	157
89	Nanotube bundles and tube-tube orientation: A van der Waals density functional study. <i>Physical Review B</i> , 2011 , 84,	3.3	11
88	Absolute Raman matrix elements of graphene and graphite. <i>Physical Review B</i> , 2010 , 82,	3.3	14
87	Chirality-dependent growth rate of carbon nanotubes: A theoretical study. <i>Physical Review B</i> , 2010 , 82,	3.3	28
86	Excitonic absorption spectra of metallic single-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 82,	3.3	45
85	Excitonic Rayleigh scattering spectra of metallic single-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 82,	3.3	31
84	Nanofibres of CA/PAN with high amount of carbon nanotubes by core-shell electrospinning. <i>Composites Science and Technology</i> , 2010 , 70, 1584-1588	8.6	26
83	Polyglycerol-derived amphiphiles for single walled carbon nanotube suspension. <i>Chemical Physics Letters</i> , 2010 , 493, 147-150	2.5	31
82	Rims of carbon nanotubes – Influence of chirality. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2722-2725	1.3	2
81	Broadened second excitonic transition of single-walled carbon nanotubes in photoluminescence excitation spectroscopy. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2887-2890	1.3	

80	Dispersion of carbon nanotubes using an azobenzene derivative. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2891-2894	1.3	20
79	Interaction between single-walled carbon nanotubes and alkyl-polyglycerol derivatives. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2758-2761	1.3	10
78	Quantitative composition of a single-walled carbon nanotube sample: Raman scattering versus photoluminescence. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2740-2743	1.3	13
77	Environmental influence on linear optical spectra and relaxation dynamics in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2592-2597	1.3	7
76	Excitonic absorption spectra and ultrafast dephasing dynamics in arbitrary carbon nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009 , 3, 196-198	2.5	13
75	Exciton-phonon coupling in individual GaAs nanowires studied using resonant Raman spectroscopy. <i>Physical Review B</i> , 2009 , 80,	3.3	26
74	Carbon nanotube Bloch equations: A many-body approach to nonlinear and ultrafast optical properties. <i>Physical Review B</i> , 2008 , 77,	3.3	40
73	Double resonant Raman spectra in graphene and graphite: A two-dimensional explanation of the Raman amplitude. <i>Physical Review B</i> , 2008 , 78,	3.3	55
72	Theory of Rayleigh scattering from metallic carbon nanotubes. <i>Physical Review B</i> , 2008 , 77,	3.3	22
71	Theory of ultrafast intraband relaxation in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2164-2168	1.3	9
70	Coulomb effects in single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2155-2158	1.3	21
69	Phonon softening in individual metallic carbon nanotubes due to the Kohn Anomaly. <i>Physical Review Letters</i> , 2007 , 99, 145506	7.4	143
68	Theoretical approach to Rayleigh and absorption spectra of semiconducting carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 4240-4243	1.3	13
67	First and second optical transitions in single-walled carbon nanotubes: a resonant Raman study. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 4006-4010	1.3	5
66	Phonon dispersion of graphite by inelastic x-ray scattering. <i>Physical Review B</i> , 2007 , 76,	3.3	330
65	Ab Initio Simulations of the Nucleation of Single-Walled Carbon Nanotubes. <i>Solid State Phenomena</i> , 2007 , 121-123, 1037-1040	0.4	1
64	Weak anharmonic effects in MgB ₂ : A comparative inelastic x-ray scattering and Raman study. <i>Physical Review B</i> , 2007 , 75,	3.3	35
63	Modelling the nucleation and chirality selection of carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 1290-7	1.3	8

62	Theoretical study of the molecular and electronic structure of one-dimensional crystals of potassium iodide and composites formed upon intercalation in single-walled carbon nanotubes. <i>Physical Review B</i> , 2006 , 73,	3.3	35
61	Analytical approach to optical absorption in carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	85
60	Resonant-Raman intensities and transition energies of the E11 transition in carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	34
59	Strong electron-phonon coupling of the high-energy modes of carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	15
58	Raman Scattering in Carbon Nanotubes 2006 , 115-234		62
57	Raman scattering on silicon nanowires: The thermal conductivity of the environment determines the optical phonon frequency. <i>Applied Physics Letters</i> , 2006 , 88, 233114	3.4	42
56	Raman spectroscopy of single-wall boron nitride nanotubes. <i>Nano Letters</i> , 2006 , 6, 1812-6	11.5	259
55	Two-photon photoluminescence and exciton binding energies in single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 2428-2435	1.3	5
54	Excitons in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3204-3208	1.3	12
53	Electron-phonon coupling in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3166-3170	1.3	6
52	Raman intensities of the first optical transitions in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3181-3185	1.3	5
51	Epitaxial growth of carbon caps on Ni for chiral selectivity. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3494-3499	1.3	25
50	Control the chirality of carbon nanotubes by epitaxial growth. <i>Chemical Physics Letters</i> , 2006 , 421, 469-475	4.25	158
49	Defect energies of graphite: Density-functional calculations. <i>Physical Review B</i> , 2005 , 72,	3.3	280
48	Structural, electronic, and vibrational properties of (4,4) picotube crystals. <i>Physical Review B</i> , 2005 , 72,	3.3	11
47	Resonant Raman scattering in cubic and hexagonal boron nitride. <i>Physical Review B</i> , 2005 , 71,	3.3	279
46	Radial breathing mode of single-walled carbon nanotubes: Optical transition energies and chiral-index assignment. <i>Physical Review B</i> , 2005 , 72,	3.3	287
45	Chirality assignments in carbon nanotubes based on resonant Raman scattering. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 1802-1806	1.3	13

44	Electronic band structure of high-index silicon nanowires. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 2474-2479	1.3	58
43	Chirality dependence of the high-energy Raman modes in carbon nanotubes. <i>AIP Conference Proceedings</i> , 2005 ,	0	1
42	Structure and formation energy of carbon nanotube caps. <i>Physical Review B</i> , 2005 , 72,	3.3	105
41	Strength of radial breathing mode in single-walled carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	104
40	Exciton resonances quench the photoluminescence of zigzag carbon nanotubes. <i>Physical Review Letters</i> , 2005 , 95, 077402	7.4	83
39	Excited-state carrier lifetime in single-walled carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	72
38	Phonon dispersion in graphite. <i>Physical Review Letters</i> , 2004 , 92, 075501	7.4	410
37	Raman spectroscopy with UV excitation on untwinned single crystals of YBa ₂ Cu ₃ O ₇ <i>Physica Status Solidi (B): Basic Research</i> , 2004 , 241, R63-R66	1.3	4
36	Raman spectroscopy of graphite. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2271-88	3	907
35	Resonant Raman spectroscopy of nanotubes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2337-59	3	58
34	Double-resonant Raman scattering in graphite: Interference effects, selection rules, and phonon dispersion. <i>Physical Review B</i> , 2004 , 70,	3.3	221
33	Chirality distribution and transition energies of carbon nanotubes. <i>Physical Review Letters</i> , 2004 , 93, 177401	7.4	317
32	Double-Resonant Raman Scattering in an Individual Carbon Nanotube. <i>AIP Conference Proceedings</i> , 2003 ,	0	1
31	Vibrational properties of double-walled carbon nanotubes. <i>AIP Conference Proceedings</i> , 2003 ,	0	4
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29	Elastic properties and pressure-induced phase transitions of single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 235, 354-359	1.3	41
28	Hexagonal diamond from single-walled carbon nanotubes. <i>AIP Conference Proceedings</i> , 2003 ,	0	1
27	High-energy phonon branches of an individual metallic carbon nanotube. <i>Physical Review Letters</i> , 2003 , 91, 087402	7.4	51

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25	Raman scattering in carbon nanotubes revisited. <i>Physical Review B</i> , 2002 , 65,	3.3	85
24	Electronic band structure of isolated and bundled carbon nanotubes. <i>Physical Review B</i> , 2002 , 65,	3.3	297
23	Tight-binding description of graphene. <i>Physical Review B</i> , 2002 , 66,	3.3	761
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18	The Pressure Dependence of the High-Energy Raman Modes in Empty and Filled Multiwalled Carbon Nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2001 , 225, R18-R19	1.3	9
17	Intensities of the Raman-active modes in single and multiwall nanotubes. <i>Physical Review B</i> , 2001 , 63,	3.3	31
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15	Phonon eigenvectors of chiral nanotubes. <i>Physical Review B</i> , 2001 , 64,	3.3	48
14	Resonant Raman scattering in an InAs/GaAs monolayer structure. <i>Springer Proceedings in Physics</i> , 2001 , 697-698	0.2	
13	Resonant Raman Scattering in Carbon Nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2000 , 220, 561-568	1.3	7
12	Different temperature renormalizations for heavy and light-hole states of monolayer-thick heterostructures. <i>Solid State Communications</i> , 2000 , 116, 121-124	1.6	9
11	Resonant Raman scattering in GaAs induced by an embedded InAs monolayer. <i>Physical Review B</i> , 2000 , 63,	3.3	5
10	Shear strain in carbon nanotubes under hydrostatic pressure. <i>Physical Review B</i> , 2000 , 61, R13389-R13392,	3.3	97
9	Comment on "Polarized raman study of aligned multiwalled carbon nanotubes". <i>Physical Review Letters</i> , 2000 , 85, 3544	7.4	9

8	Double resonant raman scattering in graphite. <i>Physical Review Letters</i> , 2000 , 85, 5214-7	7.4	1418
7	Chirality dependence of the density-of-states singularities in carbon nanotubes. <i>Physical Review B</i> , 2000 , 62, 4273-4276	3.3	90
6	Lattice dynamics of hexagonal and cubic InN: Raman-scattering experiments and calculations. <i>Applied Physics Letters</i> , 2000 , 76, 2122-2124	3.4	87
5	Raman spectroscopy on single- and multi-walled nanotubes under high pressure. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, 309-312	2.6	83
4	Symmetry of the High-Energy Modes in Carbon Nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 214, r15-r16	1.3	12
3	Raman Scattering by Optical Phonons in a Highly Strained InAs/GaAs Monolayer. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 215, 419-424	1.3	15
2	Intermolecular Interaction in Carbon Nanotube Ropes. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 215, 435-441	1.3	50
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