

Stephanie Reich

List of Publications by Citations

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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	Double resonant raman scattering in graphite. <i>Physical Review Letters</i> , 2000 , 85, 5214-7	7.4	1418
204	Present and Future of Surface-Enhanced Raman Scattering. <i>ACS Nano</i> , 2020 , 14, 28-117	16.7	1000
203	Raman spectroscopy of graphite. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2271-88	3	907
202	Tight-binding description of graphene. <i>Physical Review B</i> , 2002 , 66,	3.3	761
201	Phonon dispersion in graphite. <i>Physical Review Letters</i> , 2004 , 92, 075501	7.4	410
200	Phonon dispersion of graphite by inelastic x-ray scattering. <i>Physical Review B</i> , 2007 , 76,	3.3	330
199	Chirality distribution and transition energies of carbon nanotubes. <i>Physical Review Letters</i> , 2004 , 93, 177401	7.4	317
198	Electronic band structure of isolated and bundled carbon nanotubes. <i>Physical Review B</i> , 2002 , 65,	3.3	297
197	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
196	Defect energies of graphite: Density-functional calculations. <i>Physical Review B</i> , 2005 , 72,	3.3	280
195	Resonant Raman scattering in cubic and hexagonal boron nitride. <i>Physical Review B</i> , 2005 , 71,	3.3	279
194	Raman spectroscopy of single-wall boron nitride nanotubes. <i>Nano Letters</i> , 2006 , 6, 1812-6	11.5	259
193	Double-resonant Raman scattering in graphite: Interference effects, selection rules, and phonon dispersion. <i>Physical Review B</i> , 2004 , 70,	3.3	221
192	Ab initio calculations of the optical properties of 4-nm-diameter single-walled nanotubes. <i>Physical Review B</i> , 2002 , 66,	3.3	219
191	Raman characterization of boron-doped multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , 2002 , 81, 2647-2649	3.4	172
190	Control the chirality of carbon nanotubes by epitaxial growth. <i>Chemical Physics Letters</i> , 2006 , 421, 469-475	4.25	158
189	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

188	Phonon softening in individual metallic carbon nanotubes due to the Kohn Anomaly. <i>Physical Review Letters</i> , 2007 , 99, 145506	7.4	143
187	Elastic properties of carbon nanotubes under hydrostatic pressure. <i>Physical Review B</i> , 2002 , 65,	3.3	133
186	Polarized plasmonic enhancement by Au nanostructures probed through Raman scattering of suspended graphene. <i>Nano Letters</i> , 2013 , 13, 301-8	11.5	123
185	Chirality-selective Raman scattering of the D mode in carbon nanotubes. <i>Physical Review B</i> , 2001 , 64,	3.3	108
184	Precise determination of graphene functionalization by in situ Raman spectroscopy. <i>Nature Communications</i> , 2017 , 8, 15192	17.4	105
183	Structure and formation energy of carbon nanotube caps. <i>Physical Review B</i> , 2005 , 72,	3.3	105
182	Strength of radial breathing mode in single-walled carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	104
181	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
180	Shear strain in carbon nanotubes under hydrostatic pressure. <i>Physical Review B</i> , 2000 , 61, R13389-R13393	3.3	97
179	Nanoplatelet size to control the alignment and thermal conductivity in copper-graphite composites. <i>Nano Letters</i> , 2014 , 14, 3640-4	11.5	94
178	Preserving π -conjugation in covalently functionalized carbon nanotubes for optoelectronic applications. <i>Nature Communications</i> , 2017 , 8, 14281	17.4	93
177	Chirality dependence of the density-of-states singularities in carbon nanotubes. <i>Physical Review B</i> , 2000 , 62, 4273-4276	3.3	90
176	Lattice dynamics of hexagonal and cubic InN: Raman-scattering experiments and calculations. <i>Applied Physics Letters</i> , 2000 , 76, 2122-2124	3.4	87
175	Analytical approach to optical absorption in carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	85
174	Raman scattering in carbon nanotubes revisited. <i>Physical Review B</i> , 2002 , 65,	3.3	85
173	Exciton resonances quench the photoluminescence of zigzag carbon nanotubes. <i>Physical Review Letters</i> , 2005 , 95, 077402	7.4	83
172	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
171	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

170	Excited-state carrier lifetime in single-walled carbon nanotubes. <i>Physical Review B</i> , 2005 , 71,	3.3	72
169	Evaluating arbitrary strain configurations and doping in graphene with Raman spectroscopy. <i>2D Materials</i> , 2018 , 5, 015016	5.9	71
168	Phonon dispersion of carbon nanotubes. <i>Solid State Communications</i> , 2002 , 121, 471-474	1.6	65
167	Effect of carbon nanotube surface modification on thermal properties of copper/CNT composites. <i>Journal of Materials Chemistry</i> , 2011 , 21, 17541		64
166	Carbon-nanotube/polymer nanofibers with high thermal conductivity. <i>Carbon</i> , 2013 , 52, 605-608	10.4	63
165	Raman Scattering in Carbon Nanotubes 2006 , 115-234		62
164	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
163	Resonant Raman spectroscopy of nanotubes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 2337-59	3	58
162	Electronic band structure of high-index silicon nanowires. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 2474-2479	1.3	58
161	Ab initio determination of the phonon deformation potentials of graphene. <i>Physical Review B</i> , 2002 , 65,	3.3	58
160	Non-Covalent Functionalization of Individual Nanotubes with Spiropyran-Based Molecular Switches. <i>Advanced Functional Materials</i> , 2012 , 22, 2425-2431	15.6	57
159	Band gap of wurtzite GaAs: A resonant Raman study. <i>Physical Review B</i> , 2012 , 86,	3.3	55
158	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
157	Deep strong light-matter coupling in plasmonic nanoparticle crystals. <i>Nature</i> , 2020 , 583, 780-784	50.4	53
156	High-energy phonon branches of an individual metallic carbon nanotube. <i>Physical Review Letters</i> , 2003 , 91, 087402	7.4	51
155	Intermolecular Interaction in Carbon Nanotube Ropes. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 215, 435-441	1.3	50
154	Phonon eigenvectors of chiral nanotubes. <i>Physical Review B</i> , 2001 , 64,	3.3	48
153	Plasmon-enhanced Raman scattering by carbon nanotubes optically coupled with near-field cavities. <i>Nano Letters</i> , 2014 , 14, 1762-8	11.5	47

152	Assembly of carbon nanotubes and alkylated fullerenes: nanocarbon hybrid towards photovoltaic applications. <i>Chemical Science</i> , 2011 , 2, 2243	9.4	45
151	Excitonic absorption spectra of metallic single-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 82,	3.3	45
150	Electronic band gaps of confined linear carbon chains ranging from polyyne to carbyne. <i>Physical Review Materials</i> , 2017 , 1,	3.2	45
149	Energy Transfer in Nanotube-Perylene Complexes. <i>Advanced Functional Materials</i> , 2012 , 22, 3921-3926	15.6	44
148	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
147	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
146	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
145	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
144	Carbon nanotube Bloch equations: A many-body approach to nonlinear and ultrafast optical properties. <i>Physical Review B</i> , 2008 , 77,	3.3	40
143	Dual-Scattering Near-Field Microscope for Correlative Nanoimaging of SERS and Electromagnetic Hotspots. <i>Nano Letters</i> , 2017 , 17, 2667-2673	11.5	38
142	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
141	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
140	Resonant-Raman intensities and transition energies of the E ₁₁ transition in carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	34
139	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
138	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
137	Excitonic Rayleigh scattering spectra of metallic single-walled carbon nanotubes. <i>Physical Review B</i> , 2010 , 82,	3.3	31
136	Polyglycerol-derived amphiphiles for single walled carbon nanotube suspension. <i>Chemical Physics Letters</i> , 2010 , 493, 147-150	2.5	31
135	Intensities of the Raman-active modes in single and multiwall nanotubes. <i>Physical Review B</i> , 2001 , 63,	3.3	31

134	Selective bundling of zigzag single-walled carbon nanotubes. <i>ACS Nano</i> , 2011 , 5, 2847-54	16.7	30
133	Chirality-dependent growth rate of carbon nanotubes: A theoretical study. <i>Physical Review B</i> , 2010 , 82,	3.3	28
132	Functional Surfactants for Carbon Nanotubes: Effects of Design. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1157-1162	3.8	27
131	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
130	Symmetry-derived selection rules for plasmon-enhanced Raman scattering. <i>Physical Review B</i> , 2017 , 95,	3.3	26
129	Exciton-phonon coupling in individual GaAs nanowires studied using resonant Raman spectroscopy. <i>Physical Review B</i> , 2009 , 80,	3.3	26
128	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
127	Dynamic properties of hybrid composite structures based multiwalled carbon nanotubes. <i>Composites Science and Technology</i> , 2017 , 148, 70-79	8.6	25
126	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
125	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
124	Controlled reversible debundling of single-walled carbon nanotubes by photo-switchable dendritic surfactants. <i>Nanoscale</i> , 2012 , 4, 3029-31	7.7	25
123	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
122	Photoswitchable single-walled carbon nanotubes for super-resolution microscopy in the near-infrared. <i>Science Advances</i> , 2019 , 5, eaax1166	14.3	24
121	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
120	Surface-enhanced Raman scattering as a higher-order Raman process. <i>Physical Review A</i> , 2016 , 94,	2.6	23
119	Inner- and outer-wall sorting of double-walled carbon nanotubes. <i>Nature Nanotechnology</i> , 2017 , 12, 1176-1182	8.1	22
118	Theory of Rayleigh scattering from metallic carbon nanotubes. <i>Physical Review B</i> , 2008 , 77,	3.3	22
117	Theory of SERS enhancement: general discussion. <i>Faraday Discussions</i> , 2017 , 205, 173-211	3.6	21

116	Coulomb effects in single-walled carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2155-2158	1.3	21
115	Structural order in plasmonic superlattices. <i>Nature Communications</i> , 2020 , 11, 3821	17.4	21
114	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
113	Dispersion of carbon nanotubes using an azobenzene derivative. <i>Physica Status Solidi (B): Basic Research</i> , 2010 , 247, 2891-2894	1.3	20
112	Dark Interlayer Plasmons in Colloidal Gold Nanoparticle Bi- and Few-Layers. <i>ACS Photonics</i> , 2018 , 5, 3962-3969	23.9	19
111	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
110	Theory of hot electrons: general discussion. <i>Faraday Discussions</i> , 2019 , 214, 245-281	3.6	15
109	Strong electron-phonon coupling of the high-energy modes of carbon nanotubes. <i>Physical Review B</i> , 2006 , 74,	3.3	15
108	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
107	Vapour-liquid-solid growth of ternary Bi ₂ Se ₂ Te nanowires. <i>Nanoscale Research Letters</i> , 2014 , 9, 127	5	14
106	Carbon nanotubes as substrates for molecular spiropyran-based switches. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 394006	1.8	14
105	Absolute Raman matrix elements of graphene and graphite. <i>Physical Review B</i> , 2010 , 82,	3.3	14
104	Potassium intercalated multiwalled carbon nanotubes. <i>Carbon</i> , 2016 , 105, 90-95	10.4	14
103	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
102	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
101	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
100	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
99	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

98	Plasmonic enhancement of SERS measured on molecules in carbon nanotubes. <i>Faraday Discussions</i> , 2017 , 205, 85-103	3.6	12
97	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
96	Excitons in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3204-3208	1.3	12
95	Symmetry of the High-Energy Modes in Carbon Nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 1999 , 214, r15-r16	1.3	12
94	Raman Scattering Cross Section of Confined Carbyne. <i>Nano Letters</i> , 2020 , 20, 6750-6755	11.5	12
93	Direct optical excitation of dark plasmons for hot electron generation. <i>Faraday Discussions</i> , 2019 , 214, 159-173	3.6	11
92	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
91	Selection Rules for Structured Light in Nanooligomers and Other Nanosystems. <i>ACS Photonics</i> , 2020 , 7, 1537-1550	6.3	11
90	Plasmonic Properties of Close-Packed Metallic Nanoparticle Mono- and Bilayers. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 17951-17960	3.8	11
89	Noncovalent Stable Functionalization Makes Carbon Nanotubes Hydrophilic and Biocompatible. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18887-18891	3.8	11
88	Fermi energy shift in deposited metallic nanotubes: A Raman scattering study. <i>Physical Review B</i> , 2013 , 87,	3.3	11
87	Nanotube bundles and tube-tube orientation: A van der Waals density functional study. <i>Physical Review B</i> , 2011 , 84,	3.3	11
86	Structural, electronic, and vibrational properties of (4,4) picotube crystals. <i>Physical Review B</i> , 2005 , 72,	3.3	11
85	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
84	Requirement on Aromatic Precursor for Graphene Formation. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 9821-9825	3.8	11
83	Nanodrawing of Aligned Single Carbon Nanotubes with a Nanopen. <i>Nano Letters</i> , 2016 , 16, 1517-22	11.5	10
82	Resonant anti-Stokes Raman scattering in single-walled carbon nanotubes. <i>Physical Review B</i> , 2017 , 96,	3.3	10
81	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

80	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
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	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
77	Graphene as a local probe to investigate near-field properties of plasmonic nanostructures. <i>Physical Review B</i> , 2018 , 97,	3.3	9
76	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
75	Ultrasensitive and towards single molecule SERS: general discussion. <i>Faraday Discussions</i> , 2017 , 205, 291-330	3.6	9
74	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
73	Theory of ultrafast intraband relaxation in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2164-2168	1.3	9
72	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
71	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
70	Comment on "Polarized raman study of aligned multiwalled carbon nanotubes". <i>Physical Review Letters</i> , 2000 , 85, 3544	7.4	9
69	Probing LO phonons of graphene under tension via the 2D? Raman mode. <i>Physical Review B</i> , 2013 , 87,	3.3	8
68	Chirally enhanced solubilization through perylene-based surfactant. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 2465-2468	1.3	8
67	Excitation characteristics of different energy transfer in nanotube-perylene complexes. <i>Applied Physics Letters</i> , 2013 , 102, 233105	3.4	8
66	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
65	Modelling the nucleation and chirality selection of carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 1290-7	1.3	8
64	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
63	Excitation-Tunable Tip-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 28273-28278	3.8	8

62	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
61	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
60	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
59	Polystyrene nanofibers for nonwoven porous building insulation materials. <i>Engineering Reports</i> , 2019 , 1, e12037	1.2	7
58	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
57	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
56	Resonant Raman Scattering in Carbon Nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2000 , 220, 561-568	1.3	7
55	Few-Wall Carbon Nanotube Coils. <i>Nano Letters</i> , 2020 , 20, 953-962	11.5	7
54	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
53	Understanding the negative thermal expansion in planar graphite-metal composites. <i>Journal of Materials Science</i> , 2019 , 54, 1267-1274	4.3	7
52	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
51	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
50	Microscopic theory of optical absorption in graphene enhanced by lattices of plasmonic nanoparticles. <i>Physical Review B</i> , 2018 , 97,	3.3	6
49	Plasmon-enhanced Raman scattering by suspended carbon nanotubes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2014 , 08, 785-789	2.5	6
48	Quenching of the E2 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
47	Electron-phonon coupling in carbon nanotubes. <i>Physica Status Solidi (B): Basic Research</i> , 2006 , 243, 3166-3170	3.7	6
46	Selective excitation of localized surface plasmons by structured light. <i>Optics Express</i> , 2020 , 28, 24262-24274	3.34	6
45	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

44	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
43	Modeling Surface-Enhanced Spectroscopy With Perturbation Theory. <i>Frontiers in Chemistry</i> , 2019 , 7, 4705		5
42	Graphene band structure and its 2D Raman mode. <i>Physical Review B</i> , 2014 , 90,	3.3	5
41	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
40	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
39	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
38	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
37	Resonant Raman scattering in GaAs induced by an embedded InAs monolayer. <i>Physical Review B</i> , 2000 , 63,	3.3	5
36	Atomic-resolution visualization and doping effects of complex structures in intercalated bilayer graphene. <i>Physical Review Materials</i> , 2019 , 3,	3.2	5
35	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
34	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
33	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
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13	Resonant Raman Scattering of 4-Nitrothiophenol. <i>Physica Status Solidi (B): Basic Research</i> , 2020 , 257, 2000295	1.3	2
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