Stephanie Reich

List of Publications by Year
in descending order

225 papers	15,527 citations	31976 53 h-index	18130 120 g-index
233 all docs	233 docs citations	233 times ranked	16882 citing authors

#	Article	IF	Citations
1	Present and Future of Surface-Enhanced Raman Scattering. ACS Nano, 2020, 14, 28-117.	14.6	2,153
2	Double Resonant Raman Scattering in Graphite. Physical Review Letters, 2000, 85, 5214-5217.	7.8	1,593
3	Raman spectroscopy of graphite. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 2271-2288.	3.4	1,040
4	Tight-binding description of graphene. Physical Review B, 2002, 66, .	3.2	904
5	Phonon Dispersion in Graphite. Physical Review Letters, 2004, 92, 075501.	7.8	460
6	Phonon dispersion of graphite by inelastic x-ray scattering. Physical Review B, 2007, 76, .	3.2	381
7	Chirality Distribution and Transition Energies of Carbon Nanotubes. Physical Review Letters, 2004, 93, 177401.	7.8	339
8	Resonant Raman scattering in cubic and hexagonal boron nitride. Physical Review B, 2005, 71, .	3.2	334
9	Electronic band structure of isolated and bundled carbon nanotubes. Physical Review B, 2002, 65, .	3.2	327
10	Radial breathing mode of single-walled carbon nanotubes: Optical transition energies and chiral-index assignment. Physical Review B, 2005, 72, .	3.2	323
11	Defect energies of graphite: Density-functional calculations. Physical Review B, 2005, 72, .	3.2	322
12	Raman Spectroscopy of Single-Wall Boron Nitride Nanotubes. Nano Letters, 2006, 6, 1812-1816.	9.1	296
13	Ab initiocalculations of the optical properties of 4-Ã…-diameter single-walled nanotubes. Physical Review B, 2002, 66, .	3.2	256
14	Double-resonant Raman scattering in graphite: Interference effects, selection rules, and phonon dispersion. Physical Review B, 2004, 70, .	3.2	255
15	Study on laser weldingâ€"brazing of zinc coated steel to aluminum alloy with a zinc based filler. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1497-1503.	5.6	192
16	Raman characterization of boron-doped multiwalled carbon nanotubes. Applied Physics Letters, 2002, 81, 2647-2649.	3.3	185
17	Control the chirality of carbon nanotubes by epitaxial growth. Chemical Physics Letters, 2006, 421, 469-472.	2.6	173
18	Phonon Softening in Individual Metallic Carbon Nanotubes due to the Kohn Anomaly. Physical Review Letters, 2007, 99, 145506.	7.8	168

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19	Deep strong lightâ€“matter coupling in plasmonic nanoparticle crystals. Nature, 2020, 583, 780-784.	27.8	144
20	Elastic properties of carbon nanotubes under hydrostatic pressure. Physical Review B, 2002, 65, .	3.2	139
21	Polarized Plasmonic Enhancement by Au Nanostructures Probed through Raman Scattering of Suspended Graphene. Nano Letters, 2013, 13, 301-308.	9.1	134
22	Preserving Ï€-conjugation in covalently functionalized carbon nanotubes for optoelectronic applications. Nature Communications, 2017, 8, 14281.	12.8	130
23	Chirality-selective Raman scattering of theDmode in carbon nanotubes. Physical Review B, 2001, 64, .	3.2	120
24	Nanoplatelet Size to Control the Alignment and Thermal Conductivity in Copperâ€“Graphite Composites. Nano Letters, 2014, 14, 3640-3644.	9.1	119
25	The Origin of High Thermal Conductivity and Ultralow Thermal Expansion in Copperâ€“Graphite Composites. Nano Letters, 2015, 15, 4745-4751.	9.1	118
26	Structure and formation energy of carbon nanotube caps. Physical Review B, 2005, 72, .	3.2	110
27	Shear strain in carbon nanotubes under hydrostatic pressure. Physical Review B, 2000, 61, R13389-R13392.	3.2	109
28	Strength of radial breathing mode in single-walled carbon nanotubes. Physical Review B, 2005, 71, .	3.2	109
29	Chirality dependence of the density-of-states singularities in carbon nanotubes. Physical Review B, 2000, 62, 4273-4276.	3.2	106
30	Raman scattering in carbon nanotubes revisited. Physical Review B, 2002, 65, .	3.2	100
31	Analytical approach to optical absorption in carbon nanotubes. Physical Review B, 2006, 74, .	3.2	95
32	Evaluating arbitrary strain configurations and doping in graphene with Raman spectroscopy. 2D Materials, 2018, 5, 015016.	4.4	95
33	Lattice dynamics of hexagonal and cubic InN: Raman-scattering experiments and calculations. Applied Physics Letters, 2000, 76, 2122-2124.	3.3	94
34	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
35	Exciton Resonances Quench the Photoluminescence of Zigzag Carbon Nanotubes. Physical Review Letters, 2005, 95, 077402.	7.8	84
36	Microscopic Model of the Optical Absorption of Carbon Nanotubes Functionalized with Molecular Spiropyran Photoswitches. Physical Review Letters, 2011, 106, 097401.	7.8	81

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37	Excited-state carrier lifetime in single-walled carbon nanotubes. Physical Review B, 2005, 71, .	3.2	80
38	Carbon-nanotubeâ€"polymer nanofibers with high thermal conductivity. Carbon, 2013, 52, 605-608.	10.3	76
39	Composites of aluminum alloy and magnesium alloy with graphite showing low thermal expansion and high specific thermal conductivity. Science and Technology of Advanced Materials, 2017, 18, 180-186.	6.1	75
40	Separation of Specific Single-Enantiomer Single-Wall Carbon Nanotubes in the Large-Diameter Regime. ACS Nano, 2020, 14, 948-963.	14.6	75
41	Ab initiodetermination of the phonon deformation potentials of graphene. Physical Review B, 2002, 65, .	3.2	72
42	Effect of carbon nanotube surface modification on thermal properties of copperâ€"CNT composites. Journal of Materials Chemistry, 2011, 21, 17541.	6.7	72
43	Phonon dispersion of carbon nanotubes. Solid State Communications, 2002, 121, 471-474.	1.9	68
44	Resonant Raman spectroscopy of nanotubes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2004, 362, 2337-2359.	3.4	68
45	Raman Scattering in Carbon Nanotubes. , 2006, , 115-234.		68
46	Band gap of wurtzite GaAs: A resonant Raman study. Physical Review B, 2012, 86, .	3.2	68
47	Electronic band structure of high-index silicon nanowires. Physica Status Solidi (B): Basic Research, 2005, 242, 2474-2479.	1.5	65
48	Double resonant Raman spectra in graphene and graphite: A two-dimensional explanation of the Raman amplitude. Physical Review B, 2008, 78, .	3.2	62
49	Nonâ€Covalent Functionalization of Individual Nanotubes with Spiropyranâ€Based Molecular Switches. Advanced Functional Materials, 2012, 22, 2425-2431.	14.9	62
50	High-Energy Phonon Branches of an Individual Metallic Carbon Nanotube. Physical Review Letters, 2003, 91, 087402.	7.8	61
51	Separation of Small-Diameter Single-Walled Carbon Nanotubes in One to Three Steps with Aqueous Two-Phase Extraction. ACS Nano, 2019, 13, 2567-2578.	14.6	61
52	Electronic band gaps of confined linear carbon chains ranging from polyyne to carbyne. Physical Review Materials, 2017, 1, .	2.4	61
53	Surface-Enhanced Raman Scattering and Surface-Enhanced Infrared Absorption by Plasmon Polaritons in Three-Dimensional Nanoparticle Supercrystals. ACS Nano, 2021, 15, 5523-5533.	14.6	58
54	Structural order in plasmonic superlattices. Nature Communications, 2020, 11, 3821.	12.8	56

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55	Intermolecular Interaction in Carbon Nanotube Ropes. Physica Status Solidi (B): Basic Research, 1999, 215, 435-441.	1.5	54
56	Phonon eigenvectors of chiral nanotubes. Physical Review B, 2001, 64, .	3.2	53
57	Energy Transfer in Nanotubeâ€Perylene Complexes. Advanced Functional Materials, 2012, 22, 3921-3926.	14.9	52
58	Thermal properties enhancement of epoxy resins by incorporating polybenzimidazole nanofibers filled with graphene and carbon nanotubes as reinforcing material. Polymer Testing, 2020, 82, 106317.	4.8	52
59	Plasmon-Enhanced Raman Scattering by Carbon Nanotubes Optically Coupled with Near-Field Cavities. Nano Letters, 2014, 14, 1762-1768.	9.1	50
60	Dual-Scattering Near-Field Microscope for Correlative Nanoimaging of SERS and Electromagnetic Hotspots. Nano Letters, 2017, 17, 2667-2673.	9.1	49
61	Assembly of carbon nanotubes and alkylated fullerenes: nanocarbon hybrid towards photovoltaic applications. Chemical Science, 2011, 2, 2243.	7.4	47
62	Excitonic absorption spectra of metallic single-walled carbon nanotubes. Physical Review B, 2010, 82, .	3.2	46
63	Elastic properties and pressure-induced phase transitions of single-walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2003, 235, 354-359.	1.5	44
64	Raman scattering on silicon nanowires: The thermal conductivity of the environment determines the optical phonon frequency. Applied Physics Letters, 2006, 88, 233114.	3.3	44
65	Carbon nanotube Bloch equations: A many-body approach to nonlinear and ultrafast optical properties. Physical Review B, 2008, 77, .	3.2	43
66	Photoswitchable single-walled carbon nanotubes for super-resolution microscopy in the near-infrared. Science Advances, 2019, 5, eaax1166.	10.3	42
67	Weak anharmonic effects inMgB2: A comparative inelastic x-ray scattering and Raman study. Physical Review B, 2007, 75, .	3.2	41
68	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. Physical Review B, 2006, 73, .	3.2	39
69	Intensities of the Raman-active modes in single and multiwall nanotubes. Physical Review B, 2001, 63, .	3.2	38
70	Resonant-Raman intensities and transition energies of theE11transition in carbon nanotubes. Physical Review B, 2006, 74, .	3.2	36
71	Dynamic properties of hybrid composite structures based multiwalled carbon nanotubes. Composites Science and Technology, 2017, 148, 70-79.	7.8	35
72	Fluorescent Polymerâ€"Singleâ€Walled Carbon Nanotube Complexes with Charged and Noncharged Dendronized Perylene Bisimides for Bioimaging Studies. Small, 2018, 14, e1800796.	10.0	35

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73	Dominant phonon wave vectors and strain-induced splitting of the<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>Raman mode of graphene. Physical Review B, 2012, 85, .	3.2	34
74	Functional Surfactants for Carbon Nanotubes: Effects of Design. Journal of Physical Chemistry C, 2013, 117, 1157-1162.	3.1	34
75	Theory of hot electrons: general discussion. Faraday Discussions, 2019, 214, 245-281.	3.2	34
76	Symmetry-derived selection rules for plasmon-enhanced Raman scattering. Physical Review B, 2017, 95, .	3.2	33
77	Excitonic Rayleigh scattering spectra of metallic single-walled carbon nanotubes. Physical Review B, 2010, 82, .	3.2	32
78	Polyglycerol-derived amphiphiles for single walled carbon nanotube suspension. Chemical Physics Letters, 2010, 493, 147-150.	2.6	32
79	Selective Bundling of Zigzag Single-Walled Carbon Nanotubes. ACS Nano, 2011, 5, 2847-2854.	14.6	32
80	Inner- and outer-wall sorting of double-walled carbon nanotubes. Nature Nanotechnology, 2017, 12, 1176-1182.	31.5	32
81	Chirality-dependent growth rate of carbon nanotubes: A theoretical study. Physical Review B, 2010, 82, .	3.2	31
82	Nanofibres of CA/PAN with high amount of carbon nanotubes by coreâ€“shell electrospinning. Composites Science and Technology, 2010, 70, 1584-1588.	7.8	30
83	Raman Scattering Cross Section of Confined Carbyne. Nano Letters, 2020, 20, 6750-6755.	9.1	30
84	Exciton-phonon coupling in individual GaAs nanowires studied using resonant Raman spectroscopy. Physical Review B, 2009, 80, .	3.2	29
85	Type-II band alignment of zinc-blende and wurtzite segments in GaAs nanowires: A combined photoluminescence and resonant Raman scattering study. Physical Review B, 2014, 89, .	3.2	28
86	Dark Interlayer Plasmons in Colloidal Gold Nanoparticle Bi- and Few-Layers. ACS Photonics, 2018, 5, 3962-3969.	6.6	28
87	Epitaxial growth of carbon caps on Ni for chiral selectivity. Physica Status Solidi (B): Basic Research, 2006, 243, 3494-3499.	1.5	27
88	Controlled reversible debundling of single-walled carbon nanotubes by photo-switchable dendritic surfactants. Nanoscale, 2012, 4, 3029.	5.6	27
89	Polyglycerolâ€Derived Amphiphiles for the Solubilization of Singleâ€Walled Carbon Nanotubes in Water: A Structureâ€“Property Study. ChemPhysChem, 2012, 13, 203-211.	2.1	27
90	Surface-enhanced Raman scattering as a higher-order Raman process. Physical Review A, 2016, 94, .	2.5	27

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91	Theory of SERS enhancement: general discussion. Faraday Discussions, 2017, 205, 173-211.	3.2	27
92	Theory of Rayleigh scattering from metallic carbon nanotubes. Physical Review B, 2008, 77, .	3.2	23
93	Coulomb effects in singleâ€walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2155-2158.	1.5	22
94	Filler geometry and interface resistance of carbon nanofibres: Key parameters in thermally conductive polymer composites. Applied Physics Letters, 2013, 102, .	3.3	22
95	Selection Rules for Structured Light in Nanooligomers and Other Nanosystems. ACS Photonics, 2020, 7, 1537-1550.	6.6	22
96	Dispersion of carbon nanotubes using an azobenzene derivative. Physica Status Solidi (B): Basic Research, 2010, 247, 2891-2894.	1.5	21
97	Kinetics and Mechanism of Plasmon-Driven Dehalogenation Reaction of Brominated Purine Nucleobases on Ag and Au. ACS Catalysis, 2021, 11, 8370-8381.	11.2	21
98	Bundle and chirality influences on properties of carbon nanotubes studied with van der Waals density functional theory. Physica Status Solidi (B): Basic Research, 2011, 248, 2589-2592.	1.5	20
99	Anti-Stokes Raman Scattering of Single Carbyne Chains. ACS Nano, 2021, 15, 12249-12255.	14.6	20
100	Raman Scattering by Optical Phonons in a Highly Strained InAs/GaAs Monolayer. Physica Status Solidi (B): Basic Research, 1999, 215, 419-424.	1.5	19
101	Carbon nanotubes as substrates for molecular spiropyran-based switches. Journal of Physics Condensed Matter, 2012, 24, 394006.	1.8	19
102	Experimental tests of surfaceâ€enhanced Raman scattering: Moving beyond the electromagnetic enhancement theory. Journal of Raman Spectroscopy, 2021, 52, 310-322.	2.5	18
103	Tuning the interaction between carbon nanotubes and dipole switches: the influence of the change of the nanotubeâ€"spiropyran distance. Journal of Physics Condensed Matter, 2012, 24, 394005.	1.8	17
104	Vapour-liquid-solid growth of ternary Bi2Se2Te nanowires. Nanoscale Research Letters, 2014, 9, 127.	5.7	17
105	Plasmonic Properties of Close-Packed Metallic Nanoparticle Mono- and Bilayers. Journal of Physical Chemistry C, 2019, 123, 17951-17960.	3.1	17
106	Polystyrene nanofibers for nonwoven porous building insulation materials. Engineering Reports, 2019, 1, e12037.	1.7	17
107	Understanding the Electron-Doping Mechanism in Potassium-Intercalated Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2020, 142, 2327-2337.	13.7	16
108	Chirality assignments in carbon nanotubes based on resonant Raman scattering. Physica Status Solidi (B): Basic Research, 2005, 242, 1802-1806.	1.5	15

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109	Strong electron-phonon coupling of the high-energy modes of carbon nanotubes. Physical Review B, 2006, 74, .	3.2	15
110	Excitonic absorption spectra and ultrafast dephasing dynamics in arbitrary carbon nanotubes. Physica Status Solidi - Rapid Research Letters, 2009, 3, 196-198.	2.4	15
111	Absolute Raman matrix elements of graphene and graphite. Physical Review B, 2010, 82, .	3.2	15
112	Thermal transport of oil and polymer composites filled with carbon nanotubes. Applied Physics A: Materials Science and Processing, 2011, 105, 781-788.	2.3	15
113	Potassium intercalated multiwalled carbon nanotubes. Carbon, 2016, 105, 90-95.	10.3	15
114	Resonant anti-Stokes Raman scattering in single-walled carbon nanotubes. Physical Review B, 2017, 96, .	3.2	15
115	Direct optical excitation of dark plasmons for hot electron generation. Faraday Discussions, 2019, 214, 159-173.	3.2	15
116	Connection between strength and thermal conductivity of metal matrix composites with uniform distribution of graphite flakes. International Journal of Engineering Science, 2019, 139, 70-82.	5.0	15
117	Few-Wall Carbon Nanotube Coils. Nano Letters, 2020, 20, 953-962.	9.1	14
118	Impact of substrate on tip-enhanced Raman spectroscopy: A comparison between field-distribution simulations and graphene measurements. Physical Review Research, 2020, 2, .	3.6	14
119	Symmetry of the High-Energy Modes in Carbon Nanotubes. Physica Status Solidi (B): Basic Research, 1999, 214, r15-r16.	1.5	13
120	Excitons in carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 3204-3208.	1.5	13
121	Theoretical approach to Rayleigh and absorption spectra of semiconducting carbon nanotubes. Physica Status Solidi (B): Basic Research, 2007, 244, 4240-4243.	1.5	13
122	Quantitative composition of a singleâ€walled carbon nanotube sample: Raman scattering versus photoluminescence. Physica Status Solidi (B): Basic Research, 2009, 246, 2740-2743.	1.5	13
123	Plasmonic enhancement of SERS measured on molecules in carbon nanotubes. Faraday Discussions, 2017, 205, 85-103.	3.2	13
124	The patterning toolbox FIB-o-mat: Exploiting the full potential of focused helium ions for nanofabrication. Beilstein Journal of Nanotechnology, 2021, 12, 304-318.	2.8	13
125	Comment on â€œPolarized Raman Study of Aligned Multiwalled Carbon Nanotubesâ€• Physical Review Letters, 2000, 85, 3544-3544.	7.8	12
126	Structural, electronic, and vibrational properties of (4,4) picotube crystals. Physical Review B, 2005, 72, .	3.2	12

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127	Fermi energy shift in deposited metallic nanotubes: A Raman scattering study. Physical Review B, 2013, 87, .	3.2	12
128	Nanodrawing of Aligned Single Carbon Nanotubes with a Nanopen. Nano Letters, 2016, 16, 1517-1522.	9.1	12
129	Noncovalent Stable Functionalization Makes Carbon Nanotubes Hydrophilic and Biocompatible. Journal of Physical Chemistry C, 2017, 121, 18887-18891.	3.1	12
130	Graphene as a local probe to investigate near-field properties of plasmonic nanostructures. Physical Review B, 2018, 97, .	3.2	12
131	Strong light-matter coupling 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></m Physical Review B, 2021, 103, .	3.2	12
132	The Pressure Dependence of the High-Energy Raman Modes in Empty and Filled Multiwalled Carbon Nanotubes. Physica Status Solidi (B): Basic Research, 2001, 225, R18-R19.	1.5	11
133	Nanotube bundles and tube-tube orientation: A van der Waals density functional study. Physical Review B, 2011, 84, .	3.2	11
134	Cu2ZnSn(S,Se)4 from CuxSnSy nanoparticle precursors on ZnO nanorod arrays. Thin Solid Films, 2013, 535, 380-383.	1.8	11
135	Strained graphene as a local probe for plasmonâ€enhanced Raman scattering by gold nanostructures. Physica Status Solidi - Rapid Research Letters, 2013, 7, 1067-1070.	2.4	11
136	Requirement on Aromatic Precursor for Graphene Formation. Journal of Physical Chemistry C, 2016, 120, 9821-9825.	3.1	11
137	Ultrasensitive and towards single molecule SERS: general discussion. Faraday Discussions, 2017, 205, 291-330.	3.2	11
138	Understanding the negative thermal expansion in planar graphiteâ€"metal composites. Journal of Materials Science, 2019, 54, 1267-1274.	3.7	11
139	Selective excitation of localized surface plasmons by structured light. Optics Express, 2020, 28, 24262.	3.4	11
140	Different temperature renormalizations for heavy and light-hole states of monolayer-thick heterostructures. Solid State Communications, 2000, 116, 121-124.	1.9	10
141	Modelling the Nucleation and Chirality Selection of Carbon Nanotubes. Journal of Nanoscience and Nanotechnology, 2006, 6, 1290-1297.	0.9	10
142	Interaction between singleâ€walled carbon nanotubes and alkylâ€polyglycerol derivatives. Physica Status Solidi (B): Basic Research, 2010, 247, 2758-2761.	1.5	10
143	Doping in covalently functionalized carbon nanotubes: A Raman scattering study. Physica Status Solidi (B): Basic Research, 2016, 253, 2461-2467.	1.5	10
144	Resonant Raman Scattering of 4â€Nitrothiophenol. Physica Status Solidi (B): Basic Research, 2020, 257, 2000295.	1.5	10

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145	Atomic-resolution visualization and doping effects of complex structures in intercalated bilayer graphene. Physical Review Materials, 2019, 3, .	2.4	10
146	Global Alignment of Carbon Nanotubes via High Precision Microfluidic Deadâ€End Filtration. Advanced Functional Materials, 2022, 32, 2107411.	14.9	10
147	Theory of ultrafast intraband relaxation in carbon nanotubes. Physica Status Solidi (B): Basic Research, 2008, 245, 2164-2168.	1.5	9
148	Dominant phonon wavevectors of the 2<i>D</i> Raman mode of graphene. Physica Status Solidi (B): Basic Research, 2011, 248, 2635-2638.	1.5	9
149	Amphiphile replacement on carbon nanotube surfaces: Effect of aromatic groups on the interaction strength. Physica Status Solidi (B): Basic Research, 2011, 248, 2532-2535.	1.5	9
150	Probing LO phonons of graphene under tension via the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn mathvariant="italic">2</mml:mn><mml:msup><mml:mi>D</mml:mi><mml:mo>â€²</mml:mo></mml:msup></mml:mrow></mml:math mode. Physical Review B, 2013, 87, .	3.2	9
151	Excitation characteristics of different energy transfer in nanotube-perylene complexes. Applied Physics Letters, 2013, 102, .	3.3	9
152	Excitation-Tunable Tip-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 28273-28279.	3.1	9
153	Isotropic thermal expansion in anisotropic thermal management composites filled with carbon fibres and graphite. Journal of Materials Science, 2018, 53, 10910-10919.	3.7	9
154	MoirÃ©-Induced Vibrational Coupling in Double-Walled Carbon Nanotubes. Nano Letters, 2021, 21, 6732-6739.	9.1	9
155	Dark plasmon modes for efficient hot electron generation in multilayers of gold nanoparticles. Journal of Chemical Physics, 2020, 152, 064710.	3.0	9
156	Resonant Raman Scattering in Carbon Nanotubes. Physica Status Solidi (B): Basic Research, 2000, 220, 561-568.	1.5	8
157	Environmental influence on linear optical spectra and relaxation dynamics in carbon nanotubes. Physica Status Solidi (B): Basic Research, 2009, 246, 2592-2597.	1.5	8
158	Chirally enhanced solubilization through peryleneâ€based surfactant. Physica Status Solidi (B): Basic Research, 2012, 249, 2465-2468.	1.5	8
159	Designing a spiropyranâ€based molecular switch for carbon nanotube functionalization: Influence of anchor groups and tubeâ€"switch separation. Physica Status Solidi (B): Basic Research, 2012, 249, 2479-2482.	1.5	8
160	Quenching of the E2 phonon line in the Raman spectra of wurtzite GaAs nanowires caused by the dielectric polarization contrast. Applied Physics Letters, 2013, 103, 043121.	3.3	8
161	Isomerization of Orthogonal Molecular Switches Encapsulated within Micelles Solubilizing Carbon Nanotubes. Journal of Physical Chemistry C, 2015, 119, 15731-15734.	3.1	8
162	Modeling Surface-Enhanced Spectroscopy With Perturbation Theory. Frontiers in Chemistry, 2019, 7, 470.	3.6	8

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163	Optical Absorption of Dye Molecules Remains Unaffected by Submonolayer Complex Formation with Metal Nanoparticles. Journal of Physical Chemistry C, 2019, 123, 17498-17504.	3.1	8
164	Asymmetry of resonance Raman profiles in semiconducting single-walled carbon nanotubes at the first excitonic transition. Physical Review B, 2019, 99, .	3.2	8
165	Endohedral Filling Effects in Sorted and Polymer-Wrapped Single-Wall Carbon Nanotubes. Journal of Physical Chemistry C, 2021, 125, 7476-7487.	3.1	8
166	Electronâ€“phonon coupling in carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 3166-3170.	1.5	7
167	Graphene band structure and its<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn mathvariant="italic">2</mml:mn><mml:mi mathvariant="italic">D</mml:mi></mml:mrow></mml:math>Raman mode. Physical Review B, 2014, 90, .	3.2	7
168	Controlling the Decoration of the Reduced Graphene Oxide Surface with Pyrene-Functionalized Gold Nanoparticles. Physica Status Solidi (B): Basic Research, 2017, 254, 1700281.	1.5	7
169	Thermal properties of metal matrix composites with planar distribution of carbon fibres. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700090.	2.4	7
170	Microscopic theory of optical absorption in graphene enhanced by lattices of plasmonic nanoparticles. Physical Review B, 2018, 97, .	3.2	7
171	Doping and plasmonic Raman enhancement in hybrid single walled carbon nanotubes films with embedded gold nanoparticles. Carbon, 2021, 179, 531-540.	10.3	7
172	Plasmon polaritons in nanoparticle supercrystals: Microscopic quantum theory beyond the dipole approximation. Physical Review B, 2021, 104, .	3.2	7
173	Microscopic Understanding of Reaction Rates Observed in Plasmon Chemistry of Nanoparticleâ€“Ligand Systems. Journal of Physical Chemistry C, 2022, 126, 5333-5342.	3.1	7
174	Resonant Raman scattering in GaAs induced by an embedded InAs monolayer. Physical Review B, 2000, 63, .	3.2	6
175	Two-photon photoluminescence and exciton binding energies in single-walled carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 2428-2435.	1.5	6
176	First and second optical transitions in singleâ€walled carbon nanotubes: a resonant Raman study. Physica Status Solidi (B): Basic Research, 2007, 244, 4006-4010.	1.5	6
177	Optical properties of carbon nanotubes coated with orthogonal dipole switches. Physica Status Solidi (B): Basic Research, 2014, 251, 2356-2359.	1.5	6
178	Plasmon-enhanced Raman scattering by suspended carbon nanotubes. Physica Status Solidi - Rapid Research Letters, 2014, 08, 785-789.	2.4	6
179	A new topological insulator built from quasi one-dimensional atomic ribbons. Physica Status Solidi - Rapid Research Letters, 2015, 9, 130-135.	2.4	6
180	Chiral selectivity of polyglycerol-based amphiphiles incorporating different aromatic cores. Physica Status Solidi (B): Basic Research, 2015, 252, 2536-2540.	1.5	6

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181	Resonant, Plasmonic Raman Enhancement of Î±-6T Molecules Encapsulated in Carbon Nanotubes. Journal of Physical Chemistry C, 2019, 123, 10578-10585.	3.1	6
182	Vibrational properties of double-walled carbon nanotubes. AIP Conference Proceedings, 2003, , .	0.4	5
183	Raman intensities of the first optical transitions in carbon nanotubes. Physica Status Solidi (B): Basic Research, 2006, 243, 3181-3185.	1.5	5
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