P-H Tan

List of Publications by Citations

211 papers	16,733 citations	56 h-index	128 g-index
232 ext. papers	19,209 ext. citations	7.6 avg, IF	6.63 L-index

#	Paper	IF	Citations
211	Valley-selective circular dichroism of monolayer molybdenum disulphide. *Nature Communications*, **2012**, 3, 887	17.4	1702
210	Evolution of electronic structure in atomically thin sheets of WS2 and WSe2. *ACS Nano*, **2013**, 7, 791-7	16.7	1393
209	Raman spectroscopy of graphene-based materials and its applications in related devices. *Chemical Society Reviews*, **2018**, 47, 1822-1873	58.5	814
208	Strong photoluminescence enhancement of MoS(2) through defect engineering and oxygen bonding. *ACS Nano*, **2014**, 8, 5738-45	16.7	774
207	Phonon and Raman scattering of two-dimensional transition metal dichalcogenides from monolayer, multilayer to bulk material. *Chemical Society Reviews*, **2015**, 44, 2757-85	58.5	755
206	Nanotube–Polymer Composites for Ultrafast Photonics. *Advanced Materials*, **2009**, 21, 3874-3899	24	659
205	Synthesis of few-layer GaSe nanosheets for high performance photodetectors. *ACS Nano*, **2012**, 6, 5988-94	16.7	658
204	Lattice dynamics in mono- and few-layer sheets of WS2 and WSe2. *Nanoscale*, **2013**, 5, 9677-83	7.7	574
203	The shear mode of multilayer graphene. *Nature Materials*, **2012**, 11, 294-300	27	482
202	Epitaxial monolayer MoS2 on mica with novel photoluminescence. *Nano Letters*, **2013**, 13, 3870-7	11.5	456
201	Raman spectroscopy of shear and layer breathing modes in multilayer MoS2. *Physical Review B*, **2013**, 87,	3.3	343
200	Robust optical emission polarization in MoS2 monolayers through selective valley excitation. *Physical Review B*, **2012**, 86,	3.3	330
199	Strain tuning of optical emission energy and polarization in monolayer and bilayer MoS2. *Physical Review B*, **2013**, 88,	3.3	285
198	Carrier and polarization dynamics in monolayer MoS2. *Physical Review Letters*, **2014**, 112, 047401	7.4	273
197	Review on the Raman spectroscopy of different types of layered materials. *Nanoscale*, **2016**, 8, 6435-50	7.7	235
196	Black phosphorus ink formulation for inkjet printing of optoelectronics and photonics. *Nature Communications*, **2017**, 8, 278	17.4	225
195	Intercalation of few-layer graphite flakes with FeCl3: Raman determination of Fermi level, layer by layer decoupling, and stability. *Journal of the American Chemical Society*, **2011**, 133, 5941-6	16.4	205

194	Raman scattering of non-planar graphite: arched edges, polyhedral crystals, whiskers and cones. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2004**, 362, 2289-310	3	183
193	Ultrahigh photo-responsivity and detectivity in multilayer InSe nanosheets phototransistors with broadband response. *Journal of Materials Chemistry C*, **2015**, 3, 7022-7028	7.1	162
192	Photoluminescence spectroscopy of carbon nanotube bundles: evidence for exciton energy transfer. *Physical Review Letters*, **2007**, 99, 137402	7.4	161
191	Resonant Raman spectroscopy of twisted multilayer graphene. *Nature Communications*, **2014**, 5, 5309	17.4	160
190	Temperature-dependent Raman spectra and anomalous Raman phenomenon of highly oriented pyrolytic graphite. *Physical Review B*, **1998**, 58, 5435-5439	3.3	156
189	Temperature dependence of the Raman spectra of carbon nanotubes. *Journal of Applied Physics*, **1998**, 84, 4022-4024	2.5	144
188	Stabilization and Debundling of Single-Wall Carbon Nanotube Dispersions in N-Methyl-2-pyrrolidone (NMP) by Polyvinylpyrrolidone (PVP). *Journal of Physical Chemistry C*, **2007**, 111, 12594-12602	3.8	142
187	Interlayer interactions in anisotropic atomically thin rhenium diselenide. *Nano Research*, **2015**, 8, 3651-3661	7.1	133
186	Layer-Number Dependent Optical Properties of 2D Materials and Their Application for Thickness Determination. *Advanced Functional Materials*, **2017**, 27, 1604468	15.6	130
185	The intrinsic temperature effect of the Raman spectra of graphite. *Applied Physics Letters*, **1999**, 74, 1818-1820	3.4	129
184	Polarization properties, high-order Raman spectra, and frequency asymmetry between Stokes and anti-Stokes scattering of Raman modes in a graphite whisker. *Physical Review B*, **2001**, 64,	3.3	126
183	Density Gradient Ultracentrifugation of Nanotubes: Interplay of Bundling and Surfactants Encapsulation. *Journal of Physical Chemistry C*, **2010**, 114, 17267-17285	3.8	125
182	Highly sensitive phototransistors based on two-dimensional GaTe nanosheets with direct bandgap. *Nano Research*, **2014**, 7, 694-703	10	124
181	Photoluminescence properties and exciton dynamics in monolayer WSe2. *Applied Physics Letters*, **2014**, 105, 101901	3.4	114
180	Measuring Interlayer Shear Stress in Bilayer Graphene. *Physical Review Letters*, **2017**, 119, 036101	7.4	111
179	Low-Frequency Shear and Layer-Breathing Modes in Raman Scattering of Two-Dimensional Materials. *ACS Nano*, **2017**, 11, 11777-11802	16.7	109
178	Composition-dependent Raman modes of Mo(1-x)W(x)S2 monolayer alloys. *Nanoscale*, **2014**, 6, 2833-9	7.7	107
177	Interface Coupling in Twisted Multilayer Graphene by Resonant Raman Spectroscopy of Layer Breathing Modes. *ACS Nano*, **2015**, 9, 7440-9	16.7	105

176	Comparative Raman Study of Carbon Nanotubes Prepared by D.C. Arc Discharge and Catalytic Methods. *Journal of Raman Spectroscopy*, **1997**, 28, 369-372	2.3	104
175	Raman characterization of strain and composition in small-sized self-assembled Si/Ge dots. *Physical Review B*, **2003**, 68,	3.3	104
174	Probing the phonon dispersion relations of graphite from the double-resonance process of Stokes and anti-Stokes Raman scatterings in multiwalled carbon nanotubes. *Physical Review B*, **2002**, 66,	3.3	104
173	Synthesis of high quality n-type CdS nanobelts and their applications in nanodevices. *Applied Physics Letters*, **2006**, 89, 203120	3.4	101
172	Polytypism and unexpected strong interlayer coupling in two-dimensional layered ReS2. *Nanoscale*, **2016**, 8, 8324-32	7.7	99
171	Anisotropic Growth of Nonlayered CdS on MoS2 Monolayer for Functional Vertical Heterostructures. *Advanced Functional Materials*, **2016**, 26, 2648-2654	15.6	96
170	Raman and photoluminescence spectra of two-dimensional nanocrystallites of monolayer WS 2 and WSe 2. *2D Materials*, **2016**, 3, 025016	5.9	91
169	Moir Phonons in Twisted Bilayer MoS. *ACS Nano*, **2018**, 12, 8770-8780	16.7	85
168	Hexagonal Selenium Nanowires Synthesized via Vapor-Phase Growth. *Journal of Physical Chemistry B*, **2004**, 108, 4627-4630	3.4	80
167	Charge transfer and optical phonon mixing in few-layer graphene chemically doped with sulfuric acid. *Physical Review B*, **2010**, 82,	3.3	78
166	Physical origin of Davydov splitting and resonant Raman spectroscopy of Davydov components in multilayer MoTe2. *Physical Review B*, **2016**, 93,	3.3	77
165	Growing 20 cm Long DWNTs/TWNTs at a Rapid Growth Rate of 80 90 h/s. *Chemistry of Materials*, **2010**, 22, 1294-1296	9.6	77
164	Hierarchical carbon nanotube membrane with high packing density and tunable porous structure for high voltage supercapacitors. *Carbon*, **2012**, 50, 5167-5175	10.4	76
163	A Broadband Fluorographene Photodetector. *Advanced Materials*, **2017**, 29, 1700463	24	72
162	Interfacial Interactions in van der Waals Heterostructures of MoS and Graphene. *ACS Nano*, **2017**, 11, 11714-11723	16.7	69
161	Intensity and profile manifestation of resonant Raman behavior of carbon nanotubes. *Carbon*, **2002** , 40, 1131-1134	10.4	65
160	Monolayer Molybdenum Disulfide Nanoribbons with High Optical Anisotropy. *Advanced Optical Materials*, **2016**, 4, 756-762	8.1	61
159	Purification of single-walled carbon nanotubes synthesized by the catalytic decomposition of hydrocarbons. *Carbon*, **2000**, 38, 2041-2045	10.4	58

158	Anisotropic Spectroscopy and Electrical Properties of 2D ReS Se Alloys with Distorted 1T Structure. *Small*, **2017**, 13, 1603788	11	57
157	Near Full-Composition-Range High-Quality GaAsSb Nanowires Grown by Molecular-Beam Epitaxy. *Nano Letters*, **2017**, 17, 622-630	11.5	57
156	Coherent longitudinal acoustic phonon approaching THz frequency in multilayer Molybdenum Disulphide. *Scientific Reports*, **2014**, 4, 5722	4.9	56
155	Layer number identification of intrinsic and defective multilayered graphenes up to 100 layers by the Raman mode intensity from substrates. *Nanoscale*, **2015**, 7, 8135-41	7.7	55
154	Double-wall carbon nanotubes for wide-band, ultrafast pulse generation. *ACS Nano*, **2014**, 8, 4836-47	16.7	54
153	Vibrational Properties of a Monolayer Silicene Sheet Studied by Tip-Enhanced Raman Spectroscopy. *Physical Review Letters*, **2017**, 119, 196803	7.4	53
152	Probing the edge-related properties of atomically thin MoS at nanoscale. *Nature Communications*, **2019**, 10, 5544	17.4	52
151	Flexible high energy density zinc-ion batteries enabled by binder-free MnO2/reduced graphene oxide electrode. *Npj Flexible Electronics*, **2018**, 2,	10.7	50
150	Different angle-resolved polarization configurations of Raman spectroscopy: A case on the basal and edge plane of two-dimensional materials. *Chinese Physics B*, **2017**, 26, 067802	1.2	49
149	Low-Temperature Eutectic Synthesis of PtTe2 with Weak Antilocalization and Controlled Layer Thinning. *Advanced Functional Materials*, **2018**, 28, 1803746	15.6	47
148	Controllable Synthesis of Two-Dimensional Ruddlesden-Popper-Type Perovskite Heterostructures. *Journal of Physical Chemistry Letters*, **2017**, 8, 6211-6219	6.4	46
147	Multiwall nanotubes, multilayers, and hybrid nanostructures: new frontiers for technology and Raman spectroscopy. *ACS Nano*, **2013**, 7, 1838-44	16.7	45
146	Hierarchical Graphene-Based Films with Dynamic Self-Stiffening for Biomimetic Artificial Muscle. *Advanced Functional Materials*, **2016**, 26, 7003-7010	15.6	44
145	Polymer-Assisted Isolation of Single Wall Carbon Nanotubes in Organic Solvents for Optical-Quality NanotubePolymer Composites. *Journal of Physical Chemistry C*, **2008**, 112, 20227-20232	3.8	44
144	Solvent-Based Soft-Patterning of Graphene Lateral Heterostructures for Broadband High-Speed MetalSemiconductorMetal Photodetectors. *Advanced Materials Technologies*, **2017**, 2, 1600241	6.8	43
143	Optical and electrical properties of two-dimensional anisotropic materials. *Journal of Semiconductors*, **2019**, 40, 061001	2.3	42
142	Valley depolarization in monolayer WSe2. *Scientific Reports*, **2015**, 5, 15625	4.9	42
141	Application of Raman spectroscopy in carbon nanotube-based polymer composites. *Science Bulletin* , **2010**, 55, 3978-3988		41

140	Raman Spectroscopy of Two-Dimensional Borophene Sheets. *ACS Nano*, **2019**, 13, 4133-4139	16.7	40
139	Temperature dependence of Raman spectra in single-walled carbon nanotube rings. *Applied Physics Letters*, **2008**, 92, 121905	3.4	40
138	Raman scattering and thermogravimetric analysis of iodine-doped multiwall carbon nanotubes. *Applied Physics Letters*, **2002**, 80, 2553-2555	3.4	40
137	The Pentagonal Nature of Self-Assembled Silicon Chains and Magic Clusters on Ag(110). *Nano Letters*, **2018**, 18, 2937-2942	11.5	39
136	Resonantly enhanced Raman scattering and high-order Raman spectra of single-walled carbon nanotubes. *Applied Physics Letters*, **1999**, 75, 1524-1526	3.4	39
135	Designing an Efficient Multimode Environmental Sensor Based on Graphene–Silicon Heterojunction. *Advanced Materials Technologies*, **2017**, 2, 1600262	6.8	38
134	Substrate-free layer-number identification of two-dimensional materials: A case of Mo0.5W0.5S2 alloy. *Applied Physics Letters*, **2015**, 106, 223102	3.4	38
133	Tailoring alphabetical metamaterials in optical frequency: plasmonic coupling, dispersion, and sensing. *ACS Nano*, **2014**, 8, 3796-806	16.7	37
132	Raman spectroscopy at the edges of multilayer graphene. *Carbon*, **2015**, 85, 221-224	10.4	36
131	Cross-dimensional electron-phonon coupling in van der Waals heterostructures. *Nature Communications*, **2019**, 10, 2419	17.4	35
130	Raman characterization of AB- and ABC-stacked few-layer graphene by interlayer shear modes. *Carbon*, **2016**, 99, 118-122	10.4	34
129	Extraordinary Second Harmonic Generation in ReS2 Atomic Crystals. *ACS Photonics*, **2018**, 5, 3485-3491	6.3	33
128	Optical properties of nanotube bundles by photoluminescence excitation and absorption spectroscopy. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 2352-2359	3	32
127	Photoluminescence characteristics of GaAsSbN/GaAs epilayers lattice-matched to GaAs substrates. *Solid State Communications*, **2004**, 132, 707-711	1.6	32
126	Directional Anisotropy of the Vibrational Modes in 2D-Layered Perovskites. *ACS Nano*, **2020**, 14, 4689-4697	16.7	32
125	Phonon renormalization in reconstructed MoS moiré superlattices. *Nature Materials*, **2021**, 20, 1100-1105	27	31
124	Observation of forbidden phonons, Fano resonance and dark excitons by resonance Raman scattering in few-layer WS 2. *2D Materials*, **2017**, 4, 031007	5.9	30
123	Nonlinear saturable absorption of vertically stood WS nanoplates. *Optics Letters*, **2014**, 39, 6450-3	3	30

122	The intrinsic temperature-dependent Raman spectra of graphite in the temperature range from 4K to 1000K. *Carbon*, **2019**, 152, 451-458	10.4	28
121	Probing the acoustic phonon dispersion and sound velocity of graphene by Raman spectroscopy. *Carbon*, **2019**, 149, 19-24	10.4	28
120	Ultralow-frequency shear modes of 2-4 layer graphene observed in scroll structures at edges. *Physical Review B*, **2014**, 89,	3.3	28
119	Highly Conductive Graphene Paper with Vertically Aligned Reduced Graphene Oxide Sheets Fabricated by Improved Electrospray Deposition Technique. *ACS Applied Materials & Interfaces*, **2019**, 11, 10810-10817	9.5	27
118	Application of Raman spectroscopy to probe fundamental properties of two-dimensional materials. *Npj 2D Materials and Applications*, **2020**, 4,	8.8	27
117	Quantum dots in glass spherical microcavity. *Applied Physics Letters*, **2001**, 79, 153-155	3.4	27
116	Identification of the conducting category of individual carbon nanotubes from Stokes and anti-Stokes Raman scattering. *Physical Review B*, **2000**, 62, 5186-5190	3.3	27
115	Valley Zeeman splitting of monolayer MoS2 probed by low-field magnetic circular dichroism spectroscopy at room temperature. *Applied Physics Letters*, **2018**, 112, 153105	3.4	26
114	Determining layer number of two-dimensional flakes of transition-metal dichalcogenides by the Raman intensity from substrates. *Nanotechnology*, **2016**, 27, 145704	3.4	26
113	Photoluminescence of CdSe nanowires grown with and without metal catalyst. *Nano Research*, **2011**, 4, 343-359	10	24
112	Carbon nanotubes for ultrafast photonics. *Physica Status Solidi (B): Basic Research*, **2007**, 244, 4303-4307	1.3	24
111	Raman spectroscopic characterization of stacking configuration and interlayer coupling of twisted multilayer graphene grown by chemical vapor deposition. *Carbon*, **2016**, 110, 225-231	10.4	24
110	A novel ultra-thin-walled ZnO microtube cavity supporting multiple optical modes for bluish-violet photoluminescence, low-threshold ultraviolet lasing and microfluidic photodegradation. *NPG Asia Materials*, **2017**, 9, e442-e442	10.3	23
109	Residual stress in AlN films grown on sapphire substrates by molecular beam epitaxy. *Superlattices and Microstructures*, **2016**, 93, 27-31	2.8	23
108	Probing the shear and layer breathing modes in multilayer graphene by Raman spectroscopy. *Journal of Raman Spectroscopy*, **2018**, 49, 19-30	2.3	23
107	Linear Dichroism Conversion in Quasi-1D Perovskite Chalcogenide. *Advanced Materials*, **2019**, 31, e1902118	21.8	22
106	Ultrafast Electron Cooling and Decay in Monolayer WS Revealed by Time- and Energy-Resolved Photoemission Electron Microscopy. *Nano Letters*, **2020**, 20, 3747-3753	11.5	22
105	Exciton valley dynamics in monolayer WSe probed by the two-color ultrafast Kerr rotation. *Physical Chemistry Chemical Physics*, **2017**, 19, 3176-3181	3.6	20

104	High Anisotropy in Tubular Layered Exfoliated KP. *ACS Nano*, **2018**, 12, 1712-1719	16.7	20
103	Interlayer Coupling Behaviors of Boron Doped Multilayer Graphene. *Journal of Physical Chemistry C*, **2017**, 121, 26034-26043	3.8	20
102	Damage-free and rapid transfer of CVD-grown two-dimensional transition metal dichalcogenides by dissolving sacrificial water-soluble layers. *Nanoscale*, **2017**, 9, 19124-19130	7.7	20
101	Growth of large domain epitaxial graphene on the C-face of SiC. *Journal of Applied Physics*, **2012**, 112, 104307	2.5	19
100	Raman scattering of folded acoustic phonons in self-assembled Si/Ge dot superlattices. *Applied Physics Letters*, **2004**, 84, 2632-2634	3.4	19
99	Dispersibility and stability improvement of unfunctionalized nanotubes in amide solvents by polymer wrapping. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 2414-2418	3	18
98	Mechanical responses of boron-doped monolayer graphene. *Carbon*, **2019**, 147, 594-601	10.4	17
97	Phonon Confinement Effect in Two-dimensional Nanocrystallites of Monolayer MoS 2 to Probe Phonon Dispersion Trends Away from Brillouin-Zone Center. *Chinese Physics Letters*, **2016**, 33, 057801	1.8	17
96	Observation of nonreciprocal magnetophonon effect in nonencapsulated few-layered CrI. *Science Advances*, **2020**, 6,	14.3	16
95	Layer-number dependent high-frequency vibration modes in few-layer transition metal dichalcogenides induced by interlayer couplings. *Journal of Semiconductors*, **2017**, 38, 031006	2.3	15
94	Optical contrast determination of the thickness of SiO 2 film on Si substrate partially covered by two-dimensional crystal flakes. *Science Bulletin*, **2015**, 60, 806-811	10.6	15
93	Identifying the stacking order of multilayer graphene grown by chemical vapor deposition via Raman spectroscopy. *Journal of Raman Spectroscopy*, **2018**, 49, 46-53	2.3	15
92	Temperature and electron density dependence of spin relaxation in GaAs/AlGaAs quantum well. *Nanoscale Research Letters*, **2011**, 6, 84	5	15
91	Confined Acoustic Phonons in Colloidal Nanorod Heterostructures Investigated by Nonresonant Raman Spectroscopy and Finite Elements Simulations. *Nano Letters*, **2016**, 16, 7664-7670	11.5	14
90	Efficiently producing single-walled carbon nanotube rings and investigation of their field emission properties. *Nanotechnology*, **2006**, 17, 2355-2361	3.4	14
89	Raman evidence for atomic correlation between the two constituent tubes in double-walled carbon nanotubes. *Physical Review B*, **2006**, 73,	3.3	14
88	Edge-Epitaxial Growth of InSe Nanowires toward High-Performance Photodetectors. *Small*, **2020**, 16, e1905902	11	14
87	Raman Spectroscopy of Two-Dimensional Materials. *Springer Series in Materials Science*, **2019**,	0.9	14

86	Phonon-Assisted Photoluminescence Up-Conversion of Silicon-Vacancy Centers in Diamond. *Journal of Physical Chemistry Letters*, **2018**, 9, 6656-6661	6.4	14
85	Resonant Raman scattering of double wall carbon nanotubes prepared by chemical vapor deposition method. *Journal of Applied Physics*, **2003**, 94, 5715-5719	2.5	13
84	The numerical-aperture-dependent optical contrast and thickness determination of ultrathin flakes of two-dimensional atomic crystals: A case of graphene multilayers. *Wuli Xuebao/Acta Physica Sinica* , **2013**, 62, 110702	0.6	13
83	High-performance polarization-sensitive photodetectors on two-dimensional -InSe.. *National Science Review*, **2022**, 9, nwab098	10.8	13
82	The phonon confinement effect in two-dimensional nanocrystals of black phosphorus with anisotropic phonon dispersions. *Nanoscale*, **2018**, 10, 8704-8711	7.7	12
81	Raman study of ultrathin Fe3O4 films on GaAs(001) substrate: stoichiometry, epitaxial orientation and strain. *Journal of Raman Spectroscopy*, **2011**, 42, 1388-1391	2.3	12
80	Photoluminescence from the nitrogen-perturbed above-bandgap states in dilute GaAs1□Nx alloys: A microphotoluminescence study. *Physical Review B*, **2006**, 73,	3.3	11
79	Understanding angle-resolved polarized Raman scattering from black phosphorus at normal and oblique laser incidences. *Science Bulletin*, **2020**, 65, 1894-1900	10.6	11
78	Circular polarization of excitonic luminescence in CdTe quantum wells with excess electrons of different densities. *Physical Review B*, **2001**, 63,	3.3	10
77	Ultralow-frequency Raman system down to 10 cm(-1) with longpass edge filters and its application to the interface coupling in t(2+2)LGs. *Review of Scientific Instruments*, **2016**, 87, 053122	1.7	10
76	Raman scattering from an individual tubular graphite cone. *Carbon*, **2007**, 45, 1116-1119	10.4	9
75	Resonant Raman scattering of discrete hole states in self-assembled Si/Ge quantum dots. *Physica E: Low-Dimensional Systems and Nanostructures*, **2004**, 21, 312-316	3	9
74	Filter-based ultralow-frequency Raman measurement down to 2 cm for fast Brillouin spectroscopy measurement. *Review of Scientific Instruments*, **2017**, 88, 053110	1.7	9
73	Engineering the interface in mechanically responsive graphene-based films.. *RSC Advances*, **2018**, 8, 36257-36263	3.7	8
72	Millimeter-Scale Nonlocal Photo-Sensing Based on Single-Crystal Perovskite Photodetector. *IScience*, **2018**, 7, 110-119	6.1	8
71	Unraveling the Defect Emission and Exciton□attice Interaction in Bilayer WS2. *Journal of Physical Chemistry C*, **2019**, 123, 4433-4440	3.8	7
70	Raman identification of edge alignment of bilayer graphene down to the nanometer scale. *Nanoscale*, **2014**, 6, 7519-25	7.7	7
69	Synthesis of Homogenous Bilayer Graphene on Industrial Cu Foil. *Chinese Physics Letters*, **2014**, 31, 067202	2.8	7

68	Depth profile of strain and composition in Si□e dot multilayers by microscopic phonon Raman spectroscopy. *Journal of Applied Physics*, **2005**, 98, 113517	2.5	7
67	Electrical manifestation of the quantum-confined Stark effect by quantum capacitance response in an optically excited quantum well. *Physical Review B*, **2001**, 63,	3.3	7
66	Stronger Interlayer Interactions Contribute to Faster Hot Carrier Cooling of Bilayer Graphene under Pressure. *Physical Review Letters*, **2021**, 126, 027402	7.4	7
65	In-Phase Family and Self-Similarity of Interlayer Vibrational Frequencies in van der Waals Layered Materials. *Journal of Physical Chemistry C*, **2015**, 119, 6906-6911	3.8	6
64	Stokes and anti-Stokes Raman scattering in mono- and bilayer graphene. *Nanoscale*, **2018**, 10, 16138-16144	7.7	6
63	Lattice vibration and Raman scattering of two-dimensional van der Waals heterostructure. *Journal of Semiconductors*, **2019**, 40, 091001	2.3	6
62	Spectral shape of one-photon luminescence from single gold nanorods. *AIP Advances*, **2017**, 7, 125106	1.5	6
61	Enhanced infrared emission from colloidal HgTe nanocrystal quantum dots on silicon-on-insulator photonic crystals. *Applied Physics Letters*, **2009**, 95, 053107	3.4	6
60	Resonant Raman scattering with the E+ band in a dilute GaAs1□Nx alloy (x=0.1%). *Applied Physics Letters*, **2006**, 89, 101912	3.4	6
59	Selectively excited photoluminescence of GaAs1□Nx single quantum wells. *Journal of Applied Physics*, **2003**, 94, 4863	2.5	6
58	Raman-forbidden mode and oxygen ordering in Bi2Sr2□LaxCuO6+y single crystals annealed in oxygen. *Physical Review B*, **2000**, 61, 11324-11327	3.3	6
57	Giant-Shell CdSe/CdS Nanocrystals: Exciton Coupling to Shell Phonons Investigated by Resonant Raman Spectroscopy. *Journal of Physical Chemistry Letters*, **2019**, 10, 399-405	6.4	6
56	Breakdown of Raman selection rules by Fr□lich interaction in few-layer WS2. *Nano Research*, **2021**, 14, 239-244	10	6
55	Highly conductive, flexible and functional multi-channel graphene microtube fabricated by electrospray deposition technique. *Journal of Materials Science*, **2019**, 54, 14378-14387	4.3	5
54	Modulation of Fermi velocities of Dirac electrons in single layer graphene by moir□superlattice. *Applied Physics Letters*, **2013**, 103, 113106	3.4	5
53	Systematic investigation on the influence of the As 4 flux on the magnetic property of (In,Cr)As quantum dots. *Europhysics Letters*, **2008**, 84, 58007	1.6	5
52	Capacitance-voltage characteristic as a trace of the exciton evolvement from spatially direct to indirect in quantum wells. *Semiconductor Science and Technology*, **2001**, 16, 822-825	1.8	5
51	Electric Field Tuning of Interlayer Coupling in Noncentrosymmetric 3R-MoS with an Electric Double Layer Interface. *ACS Applied Materials & Interfaces*, **2020**, 12, 46900-46907	9.5	5

50	Double resonance Raman scattering of second-order Raman modes from an individual graphite whisker. *Physica E: Low-Dimensional Systems and Nanostructures*, **2007**, 37, 93-96	3	4
49	Two opposite gradients of hole density in as-grown and annealed (Ga,Mn)As layers. *Journal of Magnetism and Magnetic Materials*, **2007**, 308, 313-317	2.8	4
48	Experimental measurement of microwave-induced electron spin-flip time. *Applied Physics Letters*, **2001**, 78, 204-206	3.4	4
47	Magnetic Phase Transitions and Magnetoelastic Coupling in a Two-Dimensional Stripy Antiferromagnet.. *Nano Letters*, **2022**,	11.5	4
46	Electronic Raman Scattering in Suspended Semiconducting Carbon Nanotube. *Journal of Physical Chemistry Letters*, **2020**, 11, 10497-10503	6.4	4
45	Intrinsic effect of interfacial coupling on the high-frequency intralayer modes in twisted multilayer MoTe. *Nanoscale*, **2021**, 13, 9732-9739	7.7	4
44	Correlating Symmetries of Low-Frequency Vibrations and Self-Trapped Excitons in Layered Perovskites for Light Emission with Different Colors.. *Small*, **2022**, e2106759	11	4
43	Observation of N-Shaped Negative Differential Resistance in GaAs-Based Modulation-Doped Field Effect Transistor with InAs Quantum Dots. *Japanese Journal of Applied Physics*, **2010**, 49, 104002	1.4	3
42	Unusual carrier thermalization in a dilute GaAs1□Nx alloy. *Applied Physics Letters*, **2007**, 90, 061905	3.4	3
41	Photo-capacitance response of internal tunnelling coupling in quantum-dot-imbedded heterostructures under selective photo-excitation. *Journal of Physics Condensed Matter*, **2004**, 16, 6519-6525	1.8	3
40	The second-order combination Raman modes of bilayer graphene in the range of 1800-2150 cm-1. *Wuli Xuebao/Acta Physica Sinica*, **2014**, 63, 147802	0.6	3
39	Symmetry Breaking in Monometallic Nanocrystals toward Broadband and Direct Electron Transfer Enhanced Plasmonic Photocatalysis. *Advanced Functional Materials*, **2021**, 31, 2006738	15.6	3
38	Measuring bulk and surface acoustic modes in diamond by angle-resolved Brillouin spectroscopy. *Science China: Physics, Mechanics and Astronomy*, **2021**, 64, 1	3.6	3
37	A tunable single-monochromator Raman system based on the supercontinuum laser and tunable filters for resonant Raman profile measurements. *Review of Scientific Instruments*, **2017**, 88, 083114	1.7	2
36	Influences of As flux on the lattice constants, magnetic and transport properties of (Ga, Mn)As epilayers. *Solid State Communications*, **2007**, 141, 453-458	1.6	2
35	Surface-enhanced resonant Raman spectroscopy (SERRS) of single-walled carbon nanotubes absorbed on the Ag-coated anodic aluminum oxide (AAO) surface. *Physica E: Low-Dimensional Systems and Nanostructures*, **2005**, 27, 469-473	3	2
34	Growth of aligned single-walled carbon nanotubes under ac electric fields through floating catalyst chemical vapour deposition. *Chinese Physics B*, **2005**, 14, 2068-2076		2
33	Raman study of low-temperature-grown Al0.29Ga0.71As/GaAs photorefractive materials. *Physical Review B*, **2002**, 65,	3.3	2

32	2D FeOCl: A Highly In-Plane Anisotropic Antiferromagnetic Semiconductor Synthesized via Temperature-Oscillation Chemical Vapor Transport.. *Advanced Materials*, **2022**, e2108847	24	2
31	Magneto-Raman Study of Magnon-Phonon Coupling in Two-Dimensional Ising Antiferromagnetic FePS.. *Journal of Physical Chemistry Letters*, **2022**, 1533-1539	6.4	2
30	Resonant Multi-phonon Raman scattering of black phosphorus. *Wuli Xuebao/Acta Physica Sinica*, **2020**, 69, 167803	0.6	2
29	Phonon-assisted electronic states modulation of few-layer PdSe2 at terahertz frequencies. *Npj 2D Materials and Applications*, **2021**, 5,	8.8	2
28	Electronic structure of twisted bilayer graphene. *Wuli Xuebao/Acta Physica Sinica*, **2013**, 62, 157302	0.6	2
27	Raman spectra of monoand bi-layer graphenes with ion-induced defects-and its dispersive frequency on the excitation energy. *Wuli Xuebao/Acta Physica Sinica*, **2013**, 62, 137801	0.6	2
26	Dynamic fingerprint of fractionalized excitations in single-crystalline CuZn(OH)FBr. *Nature Communications*, **2021**, 12, 3048	17.4	2
25	Azimuth-Resolved Circular Dichroism of Metamaterials.. *Journal of Physical Chemistry Letters*, **2022**, 1697-1704	6.4	2
24	Modulation of MagR magnetic properties via iron-sulfur cluster binding.. *Scientific Reports*, **2021**, 11, 23941	4.9	2
23	Unusual Deformation and Fracture in Gallium Telluride Multilayers.. *Journal of Physical Chemistry Letters*, **2022**, 3831-3839	6.4	2
22	Temperature dependent excitonic transition energies and linewidths of monolayer MoS2 probed by magnetic circular dichroism spectroscopy. *Wuli Xuebao/Acta Physica Sinica*, **2018**, 67, 147801	0.6	1
21	Phonon-Related Monochromatic THz Radiation and its Magneto-Modulation in 2D Ferromagnetic Cr Ge Te. *Advanced Science*, **2021**, 9, e2103229	13.6	1
20	Dual-modulated photoreflectance spectra of semi-insulating GaAs. *Wuli Xuebao/Acta Physica Sinica*, **2017**, 66, 147801	0.6	1
19	Phase-Changing in Graphite Assisted by Interface Charge Injection. *Nano Letters*, **2021**, 21, 5648-5654	11.5	1
18	Raman Spectroscopy of Monolayer and Multilayer Graphenes. *Springer Series in Materials Science*, **2019**, 1-27	0.9	1
17	Ultralow-Frequency Raman Spectroscopy of Two-dimensional Materials. *Springer Series in Materials Science*, **2019**, 203-230	0.9	1
16	Signal-to-noise ratio of Raman signal measured by multichannel detectors*. *Chinese Physics B*, **2021**, 30, 097807	1.2	1
15	Comparative Raman Study of Carbon Nanotubes Prepared by D.C. Arc Discharge and Catalytic Methods **1997**, 28, 369		1

List of Publications

14	Spin-Phonon Coupling in Ferromagnetic Monolayer Chromium Tribromide.. *Advanced Materials*, **2022**, e2108506	24	1
13	Tunable Polarized Microcavity Characterized by Magnetic Circular Dichroism Spectrum.. *Journal of Physical Chemistry Letters*, **2022**, 3244-3250	6.4	1
12	Intralayer Phonons in Multilayer Graphene Moir Superlattices. *Research*, **2022**, 2022, 1-11	7.8	1
11	Zenith-angle resolved polarized Raman spectroscopy of graphene. *Carbon*, **2022**, 191, 471-476	10.4	0
10	Intrinsic phonon anharmonicity in heavily doped graphene probed by Raman spectroscopy. *Carbon*, **2021**, 185, 282-288	10.4	0
9	Doping inhomogeneity and staging of ultra-thin graphite intercalation compound flakes probed by visible and near-infrared Raman spectroscopy. *Chinese Physics B*, **2015**, 24, 077804	1.2	
8	International Conference on Superlattices, Nanostructures and Nanodevices (ICSNN 2010). *Nanoscale Research Letters*, **2011**, 6, 82	5	
7	OPTICAL AND ELECTRICAL INVESTIGATION OF LOW DIMENSIONAL SELF-ASSEMBLED InAs QUANTUM DOT FIELD EFFECT TRANSISTORS. *International Journal of Nanoscience*, **2006**, 05, 721-727	0.6	
6	Optical Study of Localized and Delocalized States in GaAsN/GaAs. *Materials Research Society Symposia Proceedings*, **2003**, 798, 634		
5	Self-assembled Si/Ge quantum dot structures for novel device applications. *Materials Research Society Symposia Proceedings*, **2002**, 737, 361		
4	Selectively in situ probing of self-assembled InGaAs quantum dots in a planar GaAs microcavity by angle-resolved detection of Photoluminescence spectrum. *Springer Proceedings in Physics*, **2001**, 659-660	0.2	
3	Periodic oscillation in the reflection and photoluminescence spectra of suspended two-dimensional crystal flakes. *Wuli Xuebao/Acta Physica Sinica*, **2016**, 65, 136801	0.6	
2	A tunable Raman system based on ultrafast laser for Raman excitation profile measurement.. *Review of Scientific Instruments*, **2021**, 92, 123904	1.7	
1	Brillouin Light Scattering of Halide Double Perovskite. *Advanced Photonics Research*,2100222	1.9	