Zhenhua Ni

List of Publications by Year in Descending Order

198 papers	19,641 citations	61 h-index	139 g-index
211 ext. papers	22,279 ext. citations	8.1 avg, IF	6.59 L-index

#	Paper	IF	Citations
198	Potassium Iodide Doping Strategy for High-Efficiency Perovskite Solar Cells Revealed by Ultrafast Spectroscopy.. *Journal of Physical Chemistry Letters*, **2022**, 13, 711-717	6.4	0
197	Aggregation-Dependent Dielectric Permittivity in 2D Molecular Crystals.. *Small Methods*, **2022**, e2101198	12.8	
196	Resonance Raman scattering on graded-composition WxMo1−xS2 alloy with tunable excitons. *Applied Physics Letters*, **2022**, 120, 172104	3.4	0
195	Controllable n-type doping in WSe2 monolayer via construction of anion vacancies. *Chinese Chemical Letters*, **2021**, 32, 3118-3118	8.1	4
194	Vis-NIR photodetector with microsecond response enabled by 2D bismuth/Si(111) heterojunction. *2D Materials*, **2021**, 8, 035002	5.9	12
193	Raman spectra evidence for the covalent-like quasi-bonding between exfoliated MoS2 and Au films. *Science China Information Sciences*, **2021**, 64, 1	3.4	4
192	Bi2O2Se/BP van der Waals heterojunction for high performance broadband photodetector. *Science China Information Sciences*, **2021**, 64, 1	3.4	13
191	Photoluminescence enhancement at a high generation rate induced by exciton localization. *Optics Letters*, **2021**, 46, 2774-2777	3	1
190	Excitonic Emission in Atomically Thin Electroluminescent Devices. *Laser and Photonics Reviews*, **2021**, 15, 2000587	8.3	2
189	Tunable self-trapped excitons in 2D layered rubrene. *Applied Physics Letters*, **2021**, 118, 253103	3.4	1
188	Sub-4 nm Nanodiamonds from Graphene-Oxide and Nitrated Polycyclic Aromatic Hydrocarbons at 423 K. *ACS Nano*, **2021**,	16.7	2
187	The Thinnest Light Disk: Rewritable Data Storage and Encryption on WS2 Monolayers. *Advanced Functional Materials*, **2021**, 31, 2103140	15.6	4
186	Molybdenum Oxide/Tungsten Oxide Nano-heterojunction with Improved Surface-Enhanced Raman Scattering Performance. *ACS Applied Materials & Interfaces*, **2021**, 13, 33345-33353	9.5	3
185	Position-sensitive detectors based on two-dimensional materials. *Nano Research*, **2021**, 14, 1889-1900	10	2
184	Gate-Tunable Polar Optical Phonon to Piezoelectric Scattering in Few-Layer Bi O Se for High-Performance Thermoelectrics. *Advanced Materials*, **2021**, 33, e2004786	24	23
183	Effect of the surface oxide layer on the stability of black phosphorus. *Applied Surface Science*, **2021**, 537, 147850	6.7	6
182	How defects influence the photoluminescence of TMDCs. *Nano Research*, **2021**, 14, 29-39	10	15

181	Thermoelectric Materials: Gate-Tunable Polar Optical Phonon to Piezoelectric Scattering in Few-Layer Bi2O2Se for High-Performance Thermoelectrics (Adv. Mater. 4/2021). *Advanced Materials*, **2021**, 33, 2170023	24	0
180	Controlling phase transition in WSe2 towards ideal n-type transistor. *Nano Research*, **2021**, 14, 2703-2710	10	1
179	Thickness-Dependent Interlayer Charge Transfer in MoSe/MoS Heterostructures Studied by Femtosecond Transient Absorption Measurements. *ACS Applied Materials & Interfaces*, **2021**, 13, 6489-6495	9.5	3
178	Achieving high-performance multilayer MoSe2 photodetectors by defect engineering*. *Chinese Physics B*, **2021**, 30, 087801	1.2	0
177	Synthesis of Single- and Few-Layer Nitrogen-doped Graphene and Layer-Dependent Surface-Enhanced Raman Scattering Properties. *Journal of Physical Chemistry C*, **2021**, 125, 17831-17840	3.8	1
176	Spectroscopic Perception of Trap States on the Performance of Methylammonium and Formamidinium Lead Iodide Perovskite Solar Cells. *Advanced Materials*, **2021**, 33, e2102241	24	1
175	Tunable anisotropy in ReS2 flakes achieved by Ar+ ion bombardment probed by polarized Raman spectroscopy. *Applied Physics Letters*, **2021**, 119, 053104	3.4	0
174	The Thinnest Light Disk: Rewritable Data Storage and Encryption on WS2 Monolayers (Adv. Funct. Mater. 36/2021). *Advanced Functional Materials*, **2021**, 31, 2170267	15.6	
173	Bidirectional doping of two-dimensional thin-layer transition metal dichalcogenides using soft ammonia plasma. *Nanoscale*, **2021**, 13, 15278-15284	7.7	1
172	Defect-related dynamics of photoexcited carriers in 2D transition metal dichalcogenides. *Physical Chemistry Chemical Physics*, **2021**, 23, 8222-8235	3.6	5
171	Excitonic Dynamics in Janus MoSSe and WSSe Monolayers. *Nano Letters*, **2021**, 21, 931-937	11.5	16
170	Optoelectronic performance of multilayer WSe2 transistors enhanced by defect engineering. *Applied Physics Express*, **2020**, 13, 061004	2.4	3
169	Surface modification of all-inorganic halide perovskite nanorods by a microscale hydrophobic zeolite for stable and sensitive laser humidity sensing. *Nanoscale*, **2020**, 12, 13360-13367	7.7	9
168	High-performance silicon-graphene hybrid plasmonic waveguide photodetectors beyond 1.55 □m. *Light: Science and Applications*, **2020**, 9, 29	16.7	77
167	Ultrasensitive graphene-Si position-sensitive detector for motion tracking. *Informa□□Materi□y*, **2020**, 2, 761-768	23.1	11
166	Ultrasensitive graphene position-sensitive detector induced by synergistic effects of charge injection and interfacial gating. *Nanophotonics*, **2020**, 9, 2531-2536	6.3	2
165	Zn doped MAPbBr single crystal with advanced structural and optical stability achieved by strain compensation. *Nanoscale*, **2020**, 12, 3692-3700	7.7	12
164	Controllable Synthesis of Crystalline ReS2(1□)Se2x Monolayers on Amorphous SiO2/Si Substrates with Fast Photoresponse. *Advanced Optical Materials*, **2020**, 8, 1901415	8.1	9

163	2D atomic crystal molecular superlattices by soft plasma intercalation. *Nature Communications*, **2020**, 11, 5960	17.4	14
162	Surface-Enhanced Raman Scattering Monitoring of Oxidation States in Defect-Engineered Two-Dimensional Transition Metal Dichalcogenides. *Journal of Physical Chemistry Letters*, **2020**, 11, 7981-7987	6.4	8
161	Competition between Oxygen Curing and Ion Migration in MAPbI Induced by Irradiation Exposure. *Journal of Physical Chemistry Letters*, **2020**, 11, 8477-8482	6.4	3
160	Graphene-Based Infrared Position-Sensitive Detector for Precise Measurements and High-Speed Trajectory Tracking. *Nano Letters*, **2019**, 19, 8132-8137	11.5	23
159	Ultrasonic exfoliated ReS nanosheets: fabrication and use as co-catalyst for enhancing photocatalytic efficiency of TiO nanoparticles under sunlight. *Nanotechnology*, **2019**, 30, 184001	3.4	16
158	Transition metal dichalcogenides bilayer single crystals by reverse-flow chemical vapor epitaxy. *Nature Communications*, **2019**, 10, 598	17.4	69
157	Isolating hydrogen in hexagonal boron nitride bubbles by a plasma treatment. *Nature Communications*, **2019**, 10, 2815	17.4	32
156	Sulfur-Mastery: Precise Synthesis of 2D Transition Metal Dichalcogenides. *Advanced Functional Materials*, **2019**, 29, 1809261	15.6	21
155	Thermally enhanced optical contrast of graphene oxide for thickness identification. *Nanotechnology*, **2019**, 30, 295704	3.4	3
154	Photoinduced doping in monolayer WSe2 transistors. *Applied Physics Express*, **2019**, 12, 094005	2.4	1
153	Selectively enhanced Raman scattering with triple-resonance nanohole arrays. *Optics Communications*, **2019**, 452, 494-498	2	4
152	Surface-Related Exciton and Lasing in CdS Nanostructures. *Nanoscale Research Letters*, **2019**, 14, 216	5	2
151	Defect engineering in two-dimensional materials. *Journal of Semiconductors*, **2019**, 40, 070403	2.3	6
150	Thermal transport and energy dissipation in two-dimensional Bi2O2Se. *Applied Physics Letters*, **2019**, 115, 193103	3.4	13
149	Fast Photoelectric Conversion in the Near-Infrared Enabled by Plasmon-Induced Hot-Electron Transfer. *Advanced Materials*, **2019**, 31, e1903829	24	26
148	UV Rewritable Hybrid Graphene/Phosphor p-n Junction Photodiode. *ACS Applied Materials & Interfaces*, **2019**, 11, 43351-43358	9.5	4
147	Defect Engineering in 2D Materials: Precise Manipulation and Improved Functionalities. *Research*, **2019**, 2019, 4641739	7.8	46
146	Highly efficient broadband photodetectors based on lithography-free Au/BiOSe/Au heterostructures. *Nanoscale*, **2019**, 11, 20707-20714	7.7	15

145	Modulation of THz radiation via enhanced Dirac plasmon-dual phonon interaction. *Applied Physics Letters*, **2019**, 115, 251109	3.4	2
144	Strong optical response and light emission from a monolayer molecular crystal. *Nature Communications*, **2019**, 10, 5589	17.4	36
143	Raman Imaging of Two Dimensional Materials. *Springer Series in Materials Science*, **2019**, 231-261	0.9	
142	Optical studies of the thermal stability of InSe nanosheets. *Applied Surface Science*, **2019**, 467-468, 860-867	6.7	2
141	Soft hydrogen plasma induced phase transition in monolayer and few-layer MoTe. *Nanotechnology*, **2019**, 30, 034004	3.4	15
140	Organic charge-transfer interface enhanced graphene hybrid phototransistors. *Organic Electronics*, **2019**, 64, 22-26	3.5	16
139	Two-dimensional transition metal dichalcogenides: interface and defect engineering. *Chemical Society Reviews*, **2018**, 47, 3100-3128	58.5	381
138	Fabrication of sub-nanometer pores on graphene membrane for ion selective transport. *Nanoscale*, **2018**, 10, 5350-5357	7.7	31
137	High-performance position-sensitive detector based on graphene□silicon heterojunction. *Optica*, **2018**, 5, 27	8.6	43
136	Low-Temperature Eutectic Synthesis of PtTe2 with Weak Antilocalization and Controlled Layer Thinning. *Advanced Functional Materials*, **2018**, 28, 1803746	15.6	47
135	Nonvolatile Memory Based on Molecular Ferroelectric/Graphene Field Effect Transistor. *ACS Applied Materials & Interfaces*, **2018**, 10, 39187-39193	9.5	7
134	The effect of graphene on surface plasmon resonance of metal nanoparticles. *Physical Chemistry Chemical Physics*, **2018**, 20, 25078-25084	3.6	18
133	Defect Engineering for Modulating the Trap States in 2D Photoconductors. *Advanced Materials*, **2018**, 30, e1804332	24	90
132	Producing air-stable InSe nanosheet through mild oxygen plasma treatment. *Semiconductor Science and Technology*, **2018**, 33, 074002	1.8	18
131	Large-size Mo1-xWxS2 and W1-xMoxS2 (x = 0□0.5) monolayers by confined-space chemical vapor deposition. *Applied Surface Science*, **2018**, 457, 591-597	6.7	8
130	Electron contributions to the heat conduction across Au/graphene/Au interfaces. *Carbon*, **2017**, 115, 665-671	10.4	16
129	Realization of vertical and lateral van der Waals heterojunctions using two-dimensional layered organic semiconductors. *Nano Research*, **2017**, 10, 1336-1344	10	23
128	Synergistic graphene/aluminum surface plasmon coupling for zinc oxide lasing improvement. *Nano Research*, **2017**, 10, 1996-2004	10	19

127	Spectroscopic investigation of defects in two-dimensional materials. *Nanophotonics*, **2017**, 6, 1219-1237	6.3	53
126	Patterning Graphene Film by Magnetic-assisted UV Ozonation. *Scientific Reports*, **2017**, 7, 46583	4.9	15
125	Ultrafast Growth of High-Quality Monolayer WSe on Au. *Advanced Materials*, **2017**, 29, 1700990	24	92
124	Defect Activated Photoluminescence in WSe2 Monolayer. *Journal of Physical Chemistry C*, **2017**, 121, 12294-12299	3.8	53
123	Investigation of multilayer domains in large-scale CVD monolayer graphene by optical imaging. *Journal of Semiconductors*, **2017**, 38, 033003	2.3	7
122	Improving the electrical performance of MoS2 by mild oxygen plasma treatment. *Journal Physics D: Applied Physics*, **2017**, 50, 154001	3	35
121	Photoluminescence characterization of the grain boundary thermal stability in chemical vapor deposition grown WS2. *Materials Research Express*, **2017**, 4, 106202	1.7	5
120	Exploring the working mechanism of graphene patterning by magnetic-assisted UV ozonation. *Physical Chemistry Chemical Physics*, **2017**, 19, 27353-27359	3.6	2
119	Improving the Performance of Graphene Phototransistors Using a Heterostructure as the Light-Absorbing Layer. *Nano Letters*, **2017**, 17, 6391-6396	11.5	61
118	Graphene Sheet-Induced Global Maturation of Cardiomyocytes Derived from Human Induced Pluripotent Stem Cells. *ACS Applied Materials & Interfaces*, **2017**, 9, 25929-25940	9.5	36
117	Lattice dynamics in monolayer and few-layer SnSe2. *Physical Review B*, **2017**, 96,	3.3	19
116	Shape-Uniform, High-Quality Monolayered MoS Crystals for Gate-Tunable Photoluminescence. *ACS Applied Materials & Interfaces*, **2017**, 9, 42121-42130	9.5	40
115	High-Performance Graphene-Based Electrostatic Field Sensor. *IEEE Electron Device Letters*, **2017**, 38, 1136-1138	4.4	10
114	Probing the intrinsic optical quality of CVD grown MoS2. *Nano Research*, **2017**, 10, 1608-1617	10	51
113	The dispersion of graphene in conductive epoxy composites investigated by Raman spectroscopy. *Journal of Raman Spectroscopy*, **2017**, 48, 432-436	2.3	14
112	Synthesis, Optical, and Magnetic Properties of BaNiF Nanowires. *ACS Applied Materials & Interfaces*, **2016**, 8, 26213-26219	9.5	4
111	Two-dimensional antimonene single crystals grown by van der Waals epitaxy. *Nature Communications*, **2016**, 7, 13352	17.4	633
110	Epitaxial Ultrathin Organic Crystals on Graphene for High-Efficiency Phototransistors. *Advanced Materials*, **2016**, 28, 5200-5	24	109

109	High Responsivity Phototransistors Based on Few-Layer ReS2 for Weak Signal Detection. *Advanced Functional Materials*, **2016**, 26, 1938-1944	15.6	217
108	Broadband Photovoltaic Detectors Based on an Atomically Thin Heterostructure. *Nano Letters*, **2016**, 16, 2254-9	11.5	248
107	Determination of the thickness of two-dimensional transition-metal dichalcogenide by the Raman intensity of the substrate. *Materials Research Express*, **2016**, 3, 025007	1.7	8
106	Investigation of dodecane in three-dimensional porous graphene sponge by Raman mapping. *Nanotechnology*, **2016**, 27, 055702	3.4	9
105	Strong room-temperature blue-violet photoluminescence of multiferroic BaMnF4. *Physical Chemistry Chemical Physics*, **2016**, 18, 2054-8	3.6	6
104	Making few-layer graphene photoluminescent by UV ozonation. *Optical Materials Express*, **2016**, 6, 3527	2.6	7
103	High-performance graphene photodetector using interfacial gating. *Optica*, **2016**, 3, 1066	8.6	104
102	Raman spectroscopy study of twisted tetralayer graphene. *Journal of Raman Spectroscopy*, **2016**, 47, 668-673	2.3	4
101	2D Single-Crystalline Molecular Semiconductors with Precise Layer Definition Achieved by Floating-Coffee-Ring-Driven Assembly. *Advanced Functional Materials*, **2016**, 26, 3191-3198	15.6	113
100	Atomic-layer soft plasma etching of MoS2. *Scientific Reports*, **2016**, 6, 19945	4.9	74
99	SERS-active ZnO/Ag hybrid WGM microcavity for ultrasensitive dopamine detection. *Applied Physics Letters*, **2016**, 109, 073701	3.4	33
98	Plasmon□phonon coupling in monolayer WS2. *Applied Physics Letters*, **2016**, 108, 131903	3.4	19
97	Precise, Self-Limited Epitaxy of Ultrathin Organic Semiconductors and Heterojunctions Tailored by van der Waals Interactions. *Nano Letters*, **2016**, 16, 3754-9	11.5	81
96	Manipulating fluorescence quenching efficiency of graphene by defect engineering. *Applied Physics Express*, **2016**, 9, 055502	2.4	10
95	Defects as a factor limiting carrier mobility in WSe2: A spectroscopic investigation. *Nano Research*, **2016**, 9, 3622-3631	10	89
94	MnO2/Au hybrid nanowall film for high-performance surface-enhanced Raman scattering substrate. *Applied Surface Science*, **2015**, 333, 78-85	6.7	11
93	Manipulating fluorescence intensity with mechanical strains. *Materials Research Express*, **2015**, 2, 015017	1.7	
92	Defect-Engineered Heat Transport in Graphene: A Route to High Efficient Thermal Rectification. *Scientific Reports*, **2015**, 5, 11962	4.9	82

91	Luminescence signature of free exciton dissociation and liberated electron transfer across the junction of graphene/GaN hybrid structure. *Scientific Reports*, **2015**, 5, 7687	4.9	16
90	Bandgap-opened bilayer graphene approached by asymmetrical intercalation of trilayer graphene. *Small*, **2015**, 11, 1177-82	11	16
89	Enhancement of weak localization for nitrogen-doped graphene by short range potentials. *Carbon*, **2015**, 82, 346-352	10.4	8
88	The influence of chemical solvents on the properties of CVD graphene. *Journal of Raman Spectroscopy*, **2015**, 46, 21-24	2.3	21
87	Raman vibrational spectra of bulk to monolayer ReS2 with lower symmetry. *Physical Review B*, **2015**, 92,	3.3	110
86	A van der Waals pn heterojunction with organic/inorganic semiconductors. *Applied Physics Letters*, **2015**, 107, 183103	3.4	62
85	High-Performance Monolayer WS2 Field-Effect Transistors on High-□Dielectrics. *Advanced Materials*, **2015**, 27, 5230-4	24	177
84	Distinct photoresponse in graphene induced by laser irradiation. *Applied Physics Letters*, **2015**, 106, 021113	3.4	9
83	Strong ferromagnetism of reduced graphene oxide. *Carbon*, **2014**, 78, 559-565	10.4	59
82	Strong photoluminescence enhancement of MoS(2) through defect engineering and oxygen bonding. *ACS Nano*, **2014**, 8, 5738-45	16.7	774
81	Plasma-assisted fabrication of monolayer phosphorene and its Raman characterization. *Nano Research*, **2014**, 7, 853-859	10	535
80	Graphene surface plasmon induced optical field confinement and lasing enhancement in ZnO whispering-gallery microcavity. *ACS Applied Materials & Interfaces*, **2014**, 6, 10469-75	9.5	49
79	Raman mapping investigation of chemical vapor deposition-fabricated twisted bilayer graphene with irregular grains. *Physical Chemistry Chemical Physics*, **2014**, 16, 21682-7	3.6	19
78	Graphene plasmon guided along a nanoribbon coupled with a nanoring. *Journal Physics D: Applied Physics*, **2014**, 47, 135106	3	30
77	Characterization of graphene layers using super resolution polarization parameter indirect microscopic imaging. *Optics Express*, **2014**, 22, 20446-56	3.3	24
76	Broadband subwavelength imaging using non-resonant metamaterials. *Applied Physics Letters*, **2014**, 104, 073502	3.4	9
75	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. *Nature Communications*, **2014**, 5, 5162	17.4	270
74	The thermal stability of graphene in air investigated by Raman spectroscopy. *Journal of Raman Spectroscopy*, **2013**, 44, 1018-1021	2.3	155

73	Hopping transport through defect-induced localized states in molybdenum disulphide. *Nature Communications*, **2013**, 4, 2642	17.4	740
72	Heat conduction across metal and nonmetal interface containing imbedded graphene layers. *Carbon*, **2013**, 64, 61-66	10.4	27
71	Plasmons in graphene: Recent progress and applications. *Materials Science and Engineering Reports*, **2013**, 74, 351-376	30.9	262
70	Layer-by-layer thinning of MoS2 by plasma. *ACS Nano*, **2013**, 7, 4202-9	16.7	317
69	Evolution of Raman spectra in nitrogen doped graphene. *Carbon*, **2013**, 61, 57-62	10.4	187
68	Comparison of surface-enhanced Raman scattering on graphene oxide, reduced graphene oxide and graphene surfaces. *Carbon*, **2013**, 62, 422-429	10.4	82
67	Flexible transformation plasmonics using graphene. *Optics Express*, **2013**, 21, 10475-82	3.3	104
66	Thickness and stacking geometry effects on high frequency overtone and combination Raman modes of graphene. *Journal of Raman Spectroscopy*, **2013**, 44, 86-91	2.3	12
65	Surface-enhanced Raman scattering from graphene covered gold nanocap arrays. *Journal of Applied Physics*, **2013**, 114, 183520	2.5	17
64	Fluorescence quenching of CdSe quantum dots on graphene. *Applied Physics Letters*, **2013**, 103, 201909	3.4	16
63	Thickness identification of two-dimensional materials by optical imaging. *Nanotechnology*, **2012**, 23, 495713	3.4	77
62	Biaxial compressive strain engineering in graphene/boron nitride heterostructures. *Scientific Reports*, **2012**, 2, 893	4.9	101
61	Engineering the electronic structure of graphene. *Advanced Materials*, **2012**, 24, 4055-69	24	99
60	Room temperature ferromagnetism in partially hydrogenated epitaxial graphene. *Applied Physics Letters*, **2011**, 98, 193113	3.4	115
59	Electronic Structures and Structural Evolution of Hydrogenated Graphene Probed by Raman Spectroscopy. *Journal of Physical Chemistry C*, **2011**, 115, 1422-1427	3.8	80
58	Broadband graphene polarizer. *Nature Photonics*, **2011**, 5, 411-415	33.9	806
57	Thermal dynamics of graphene edges investigated by polarized Raman spectroscopy. *ACS Nano*, **2011**, 5, 147-52	16.7	47
56	Low temperature edge dynamics of AB-stacked bilayer graphene: naturally favored closed zigzag edges. *Scientific Reports*, **2011**, 1, 12	4.9	29

55	Monolayer graphene as a saturable absorber in a mode-locked laser. *Nano Research*, **2011**, 4, 297-307	10	322
54	Surface enhanced Raman scattering of aged graphene: Effects of annealing in vacuum. *Applied Physics Letters*, **2011**, 99, 233103	3.4	20
53	Electronic structure of graphite oxide and thermally reduced graphite oxide. *Carbon*, **2011**, 49, 1362-1366	6.4	187
52	Band-Bending at the Graphene/SiC Interfaces: Effect of the Substrate. *Japanese Journal of Applied Physics*, **2010**, 49, 01AH05	1.4	9
51	Stacking-dependent optical conductivity of bilayer graphene. *ACS Nano*, **2010**, 4, 4074-80	16.7	122
50	Gold on graphene as a substrate for surface enhanced Raman scattering study. *Applied Physics Letters*, **2010**, 97, 163111	3.4	73
49	On resonant scatterers as a factor limiting carrier mobility in graphene. *Nano Letters*, **2010**, 10, 3868-72	11.5	220
48	Ultrafast carrier dynamics in pristine and FeCl3-intercalated bilayer graphene. *Applied Physics Letters*, **2010**, 97, 141910	3.4	25
47	Direct determination of the crystallographic orientation of graphene edges by atomic resolution imaging. *Applied Physics Letters*, **2010**, 97, 053110	3.4	63
46	FeCl3-Based Few-Layer Graphene Intercalation Compounds: Single Linear Dispersion Electronic Band Structure and Strong Charge Transfer Doping. *Advanced Functional Materials*, **2010**, 20, 3504-3509	15.6	138
45	The effect of vacuum annealing on graphene. *Journal of Raman Spectroscopy*, **2010**, 41, 479-483	2.3	194
44	Probing layer number and stacking order of few-layer graphene by Raman spectroscopy. *Small*, **2010**, 6, 195-200	11	521
43	Comment on Raman spectra of misoriented bilayer graphene. *Physical Review B*, **2009**, 79,	3.3	9
42	Atomic-Layer Graphene as a Saturable Absorber for Ultrafast Pulsed Lasers. *Advanced Functional Materials*, **2009**, 19, 3077-3083	15.6	1875
41	The phase transition in PrGa0.95Mg0.05O3 at elevated temperatures. *Journal of Physics and Chemistry of Solids*, **2009**, 70, 533-535	3.9	1
40	Thickness-dependent reversible hydrogenation of graphene layers. *ACS Nano*, **2009**, 3, 1781-8	16.7	281
39	Probing charged impurities in suspended graphene using Raman spectroscopy. *ACS Nano*, **2009**, 3, 569-74	16.7	177
38	Symmetry breaking of graphene monolayers by molecular decoration. *Physical Review Letters*, **2009**, 102, 135501	7.4	213

37	Fabrication of Graphene Nanodisk Arrays Using Nanosphere Lithography. *Journal of Physical Chemistry C*, **2009**, 113, 6529-6532	3.8	87
36	G-band Raman double resonance in twisted bilayer graphene: Evidence of band splitting and folding. *Physical Review B*, **2009**, 80,	3.3	104
35	Metal hydroxide and metal oxide nanostructures from metal corrosion. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 1496-500	1.3	3
34	Raman Mapping Investigation of Graphene on Transparent Flexible Substrate: The Strain Effect. *Journal of Physical Chemistry C*, **2008**, 112, 12602-12605	3.8	226
33	Raman spectroscopy of epitaxial graphene on a SiC substrate. *Physical Review B*, **2008**, 77,	3.3	429
32	Edge chirality determination of graphene by Raman spectroscopy. *Applied Physics Letters*, **2008**, 93, 163112	3.4	206
31	Raman Studies of Monolayer Graphene: The Substrate Effect. *Journal of Physical Chemistry C*, **2008**, 112, 10637-10640	3.8	567
30	Visibility study of graphene multilayer structures. *Journal of Applied Physics*, **2008**, 103, 124302	2.5	48
29	Orientation-Dependent Raman Spectroscopy of Single Wurtzite CdS Nanowires. *Journal of Physical Chemistry C*, **2008**, 112, 1865-1870	3.8	75
28	Uniaxial strain on graphene: Raman spectroscopy study and band-gap opening. *ACS Nano*, **2008**, 2, 2301-2305	16.7	1231
27	Tunable stress and controlled thickness modification in graphene by annealing. *ACS Nano*, **2008**, 2, 1033-1039	16.7	272
26	High-rate, low-temperature synthesis of composition controlled hydrogenated amorphous silicon carbide films in low-frequency inductively coupled plasmas. *Journal Physics D: Applied Physics*, **2008**, 41, 055406	3	35
25	Interference enhancement of Raman signal of graphene. *Applied Physics Letters*, **2008**, 92, 043121	3.4	263
24	A Simple Route to Growth of Silicon Nanowires. *Journal of Nanoscience and Nanotechnology*, **2008**, 8, 5787-5790	1.3	2
23	Visualization and investigation of Si□ covalent bonding of single carbon nanotube grown on silicon substrate. *Applied Physics Letters*, **2008**, 93, 103111	3.4	14
22	High pressure photoluminescence and Raman studies of ZnxCd1⊠Se quantum dots. *Journal of Physics Condensed Matter*, **2008**, 20, 325214	1.8	3
21	Electronic transport and layer engineering in multilayer graphene structures. *Applied Physics Letters* , **2008**, 92, 053504	3.4	37
20	Raman spectroscopy and imaging of graphene. *Nano Research*, **2008**, 1, 273-291	10	989

19	Plasmon-enhanced polarized Raman spectroscopy for sensitive surface characterization. *Journal of Raman Spectroscopy*, **2008**, 39, 1338-1342	2.3	5
18	Confocal white light reflection imaging for characterization of metal nanostructures. *Optics Communications*, **2008**, 281, 5360-5363	2	10
17	Reduction of Fermi velocity in folded graphene observed by resonance Raman spectroscopy. *Physical Review B*, **2008**, 77,	3.3	223
16	Graphene thickness determination using reflection and contrast spectroscopy. *Nano Letters*, **2007**, 7, 2758-63	11.5	894
15	High-pressure Raman and photoluminescence of highly anisotropic CdS nanowires. *Journal of Raman Spectroscopy*, **2007**, 38, 1112-1116	2.3	16
14	High temperature Raman spectroscopy studies of carbon nanowalls. *Journal of Raman Spectroscopy* , **2007**, 38, 1449-1453	2.3	27
13	Anisotropy of electron-phonon coupling in single wurtzite CdS nanowires. *Applied Physics Letters*, **2007**, 91, 171911	3.4	36
12	Stimulated emission of CdS nanowires grown by thermal evaporation. *Applied Physics Letters*, **2007**, 91, 193105	3.4	25
11	High pressure photoluminescence and Raman investigations of CdSe/ZnS core/shell quantum dots. *Applied Physics Letters*, **2007**, 90, 021921	3.4	33
10	Optical and magnetic properties of Ni-doped ZnO nanocones. *Journal of Nanoscience and Nanotechnology*, **2007**, 7, 3620-3	1.3	4
9	Strong green luminescence of Mg-doped ZnO nanowires. *Journal of Nanoscience and Nanotechnology*, **2006**, 6, 2529-32	1.3	3
8	Raman spectroscopic investigation of carbon nanowalls. *Journal of Chemical Physics*, **2006**, 124, 204703	3.9	117
7	Phase Transition Mechanism in KIO3Single Crystals. *Journal of Physics: Conference Series*, **2006**, 28, 105-109	0.3	7
6	Determination of Raman Phonon Strain Shift Coefficient of Strained Silicon and Strained SiGe. *Japanese Journal of Applied Physics*, **2005**, 44, 7922-7924	1.4	33
5	Optical and field emission properties of Zinc Oxide nanostructures. *Journal of Nanoscience and Nanotechnology*, **2005**, 5, 1683-7	1.3	10
4	Suppression of Surface Defects and Vibrational Coupling in GaN by a Graphene Monolayer. *Physica Status Solidi - Rapid Research Letters*,2100489	2.5	
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