

Zhenhua Ni

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5418554/zhenhua-ni-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Atomic-Layer Graphene as a Saturable Absorber for Ultrafast Pulsed Lasers. <i>Advanced Functional Materials</i> , 2009 , 19, 3077-3083	15.6	1875
197	Uniaxial strain on graphene: Raman spectroscopy study and band-gap opening. <i>ACS Nano</i> , 2008 , 2, 2301-56.7	56.7	1231
196	Raman spectroscopy and imaging of graphene. <i>Nano Research</i> , 2008 , 1, 273-291	10	989
195	Graphene thickness determination using reflection and contrast spectroscopy. <i>Nano Letters</i> , 2007 , 7, 2758-63	11.5	894
194	Broadband graphene polarizer. <i>Nature Photonics</i> , 2011 , 5, 411-415	33.9	806
193	Strong photoluminescence enhancement of MoS(2) through defect engineering and oxygen bonding. <i>ACS Nano</i> , 2014 , 8, 5738-45	16.7	774
192	Hopping transport through defect-induced localized states in molybdenum disulphide. <i>Nature Communications</i> , 2013 , 4, 2642	17.4	740
191	Two-dimensional antimonene single crystals grown by van der Waals epitaxy. <i>Nature Communications</i> , 2016 , 7, 13352	17.4	633
190	Raman Studies of Monolayer Graphene: The Substrate Effect. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10637-10640	3.8	567
189	Plasma-assisted fabrication of monolayer phosphorene and its Raman characterization. <i>Nano Research</i> , 2014 , 7, 853-859	10	535
188	Probing layer number and stacking order of few-layer graphene by Raman spectroscopy. <i>Small</i> , 2010 , 6, 195-200	11	521
187	Raman spectroscopy of epitaxial graphene on a SiC substrate. <i>Physical Review B</i> , 2008 , 77,	3.3	429
186	Two-dimensional transition metal dichalcogenides: interface and defect engineering. <i>Chemical Society Reviews</i> , 2018 , 47, 3100-3128	58.5	381
185	Monolayer graphene as a saturable absorber in a mode-locked laser. <i>Nano Research</i> , 2011 , 4, 297-307	10	322
184	Layer-by-layer thinning of MoS2 by plasma. <i>ACS Nano</i> , 2013 , 7, 4202-9	16.7	317
183	Thickness-dependent reversible hydrogenation of graphene layers. <i>ACS Nano</i> , 2009 , 3, 1781-8	16.7	281
182	Tunable stress and controlled thickness modification in graphene by annealing. <i>ACS Nano</i> , 2008 , 2, 1033-86.7	86.7	272

181	Two-dimensional quasi-freestanding molecular crystals for high-performance organic field-effect transistors. <i>Nature Communications</i> , 2014 , 5, 5162	17.4	270
180	Interference enhancement of Raman signal of graphene. <i>Applied Physics Letters</i> , 2008 , 92, 043121	3.4	263
179	Plasmons in graphene: Recent progress and applications. <i>Materials Science and Engineering Reports</i> , 2013 , 74, 351-376	30.9	262
178	Broadband Photovoltaic Detectors Based on an Atomically Thin Heterostructure. <i>Nano Letters</i> , 2016 , 16, 2254-9	11.5	248
177	Raman Mapping Investigation of Graphene on Transparent Flexible Substrate: The Strain Effect. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 12602-12605	3.8	226
176	Reduction of Fermi velocity in folded graphene observed by resonance Raman spectroscopy. <i>Physical Review B</i> , 2008 , 77,	3.3	223
175	On resonant scatterers as a factor limiting carrier mobility in graphene. <i>Nano Letters</i> , 2010 , 10, 3868-72	11.5	220
174	High Responsivity Phototransistors Based on Few-Layer ReS ₂ for Weak Signal Detection. <i>Advanced Functional Materials</i> , 2016 , 26, 1938-1944	15.6	217
173	Symmetry breaking of graphene monolayers by molecular decoration. <i>Physical Review Letters</i> , 2009 , 102, 135501	7.4	213
172	Edge chirality determination of graphene by Raman spectroscopy. <i>Applied Physics Letters</i> , 2008 , 93, 1631-12	11.2	206
171	The effect of vacuum annealing on graphene. <i>Journal of Raman Spectroscopy</i> , 2010 , 41, 479-483	2.3	194
170	Evolution of Raman spectra in nitrogen doped graphene. <i>Carbon</i> , 2013 , 61, 57-62	10.4	187
169	Electronic structure of graphite oxide and thermally reduced graphite oxide. <i>Carbon</i> , 2011 , 49, 1362-1366	10.4	187
168	High-Performance Monolayer WS ₂ Field-Effect Transistors on High-Dielectrics. <i>Advanced Materials</i> , 2015 , 27, 5230-4	24	177
167	Probing charged impurities in suspended graphene using Raman spectroscopy. <i>ACS Nano</i> , 2009 , 3, 569-74	16.7	177
166	The thermal stability of graphene in air investigated by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 1018-1021	2.3	155
165	FeCl ₃ -Based Few-Layer Graphene Intercalation Compounds: Single Linear Dispersion Electronic Band Structure and Strong Charge Transfer Doping. <i>Advanced Functional Materials</i> , 2010 , 20, 3504-3509	15.6	138
164	Stacking-dependent optical conductivity of bilayer graphene. <i>ACS Nano</i> , 2010 , 4, 4074-80	16.7	122

163	Raman spectroscopic investigation of carbon nanowalls. <i>Journal of Chemical Physics</i> , 2006 , 124, 204703	3.9	117
162	Room temperature ferromagnetism in partially hydrogenated epitaxial graphene. <i>Applied Physics Letters</i> , 2011 , 98, 193113	3.4	115
161	2D Single-Crystalline Molecular Semiconductors with Precise Layer Definition Achieved by Floating-Coffee-Ring-Driven Assembly. <i>Advanced Functional Materials</i> , 2016 , 26, 3191-3198	15.6	113
160	Raman vibrational spectra of bulk to monolayer ReS ₂ with lower symmetry. <i>Physical Review B</i> , 2015 , 92,	3.3	110
159	Epitaxial Ultrathin Organic Crystals on Graphene for High-Efficiency Phototransistors. <i>Advanced Materials</i> , 2016 , 28, 5200-5	24	109
158	Flexible transformation plasmonics using graphene. <i>Optics Express</i> , 2013 , 21, 10475-82	3.3	104
157	G-band Raman double resonance in twisted bilayer graphene: Evidence of band splitting and folding. <i>Physical Review B</i> , 2009 , 80,	3.3	104
156	High-performance graphene photodetector using interfacial gating. <i>Optica</i> , 2016 , 3, 1066	8.6	104
155	Biaxial compressive strain engineering in graphene/boron nitride heterostructures. <i>Scientific Reports</i> , 2012 , 2, 893	4.9	101
154	Engineering the electronic structure of graphene. <i>Advanced Materials</i> , 2012 , 24, 4055-69	24	99
153	Ultrafast Growth of High-Quality Monolayer WSe on Au. <i>Advanced Materials</i> , 2017 , 29, 1700990	24	92
152	Defect Engineering for Modulating the Trap States in 2D Photoconductors. <i>Advanced Materials</i> , 2018 , 30, e1804332	24	90
151	Defects as a factor limiting carrier mobility in WSe ₂ : A spectroscopic investigation. <i>Nano Research</i> , 2016 , 9, 3622-3631	10	89
150	Fabrication of Graphene Nanodisk Arrays Using Nanosphere Lithography. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 6529-6532	3.8	87
149	Defect-Engineered Heat Transport in Graphene: A Route to High Efficient Thermal Rectification. <i>Scientific Reports</i> , 2015 , 5, 11962	4.9	82
148	Comparison of surface-enhanced Raman scattering on graphene oxide, reduced graphene oxide and graphene surfaces. <i>Carbon</i> , 2013 , 62, 422-429	10.4	82
147	Precise, Self-Limited Epitaxy of Ultrathin Organic Semiconductors and Heterojunctions Tailored by van der Waals Interactions. <i>Nano Letters</i> , 2016 , 16, 3754-9	11.5	81
146	Electronic Structures and Structural Evolution of Hydrogenated Graphene Probed by Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1422-1427	3.8	80

145	High-performance silicon-graphene hybrid plasmonic waveguide photodetectors beyond 1.55 μm . <i>Light: Science and Applications</i> , 2020 , 9, 29	16.7	77
144	Thickness identification of two-dimensional materials by optical imaging. <i>Nanotechnology</i> , 2012 , 23, 495313	3.13	77
143	Orientation-Dependent Raman Spectroscopy of Single Wurtzite CdS Nanowires. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1865-1870	3.8	75
142	Atomic-layer soft plasma etching of MoS ₂ . <i>Scientific Reports</i> , 2016 , 6, 19945	4.9	74
141	Gold on graphene as a substrate for surface enhanced Raman scattering study. <i>Applied Physics Letters</i> , 2010 , 97, 163111	3.4	73
140	Transition metal dichalcogenides bilayer single crystals by reverse-flow chemical vapor epitaxy. <i>Nature Communications</i> , 2019 , 10, 598	17.4	69
139	Direct determination of the crystallographic orientation of graphene edges by atomic resolution imaging. <i>Applied Physics Letters</i> , 2010 , 97, 053110	3.4	63
138	A van der Waals pn heterojunction with organic/inorganic semiconductors. <i>Applied Physics Letters</i> , 2015 , 107, 183103	3.4	62
137	Improving the Performance of Graphene Phototransistors Using a Heterostructure as the Light-Absorbing Layer. <i>Nano Letters</i> , 2017 , 17, 6391-6396	11.5	61
136	Strong ferromagnetism of reduced graphene oxide. <i>Carbon</i> , 2014 , 78, 559-565	10.4	59
135	Spectroscopic investigation of defects in two-dimensional materials. <i>Nanophotonics</i> , 2017 , 6, 1219-1237	6.3	53
134	Defect Activated Photoluminescence in WSe ₂ Monolayer. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 12294-12299	3.8	53
133	Probing the intrinsic optical quality of CVD grown MoS ₂ . <i>Nano Research</i> , 2017 , 10, 1608-1617	10	51
132	Graphene surface plasmon induced optical field confinement and lasing enhancement in ZnO whispering-gallery microcavity. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 10469-75	9.5	49
131	Visibility study of graphene multilayer structures. <i>Journal of Applied Physics</i> , 2008 , 103, 124302	2.5	48
130	Low-Temperature Eutectic Synthesis of PtTe ₂ with Weak Antilocalization and Controlled Layer Thinning. <i>Advanced Functional Materials</i> , 2018 , 28, 1803746	15.6	47
129	Thermal dynamics of graphene edges investigated by polarized Raman spectroscopy. <i>ACS Nano</i> , 2011 , 5, 147-52	16.7	47
128	Defect Engineering in 2D Materials: Precise Manipulation and Improved Functionalities. <i>Research</i> , 2019 , 2019, 4641739	7.8	46

127	High-performance position-sensitive detector based on graphene-silicon heterojunction. <i>Optica</i> , 2018 , 5, 27	8.6	43
126	Shape-Uniform, High-Quality Monolayered MoS Crystals for Gate-Tunable Photoluminescence. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42121-42130	9.5	40
125	Electronic transport and layer engineering in multilayer graphene structures. <i>Applied Physics Letters</i> , 2008 , 92, 053504	3.4	37
124	Graphene Sheet-Induced Global Maturation of Cardiomyocytes Derived from Human Induced Pluripotent Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25929-25940	9.5	36
123	Anisotropy of electron-phonon coupling in single wurtzite CdS nanowires. <i>Applied Physics Letters</i> , 2007 , 91, 171911	3.4	36
122	Strong optical response and light emission from a monolayer molecular crystal. <i>Nature Communications</i> , 2019 , 10, 5589	17.4	36
121	Improving the electrical performance of MoS ₂ by mild oxygen plasma treatment. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 154001	3	35
120	High-rate, low-temperature synthesis of composition controlled hydrogenated amorphous silicon carbide films in low-frequency inductively coupled plasmas. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 055406	3	35
119	High pressure photoluminescence and Raman investigations of CdSe/ZnS core/shell quantum dots. <i>Applied Physics Letters</i> , 2007 , 90, 021921	3.4	33
118	Determination of Raman Phonon Strain Shift Coefficient of Strained Silicon and Strained SiGe. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 7922-7924	1.4	33
117	SERS-active ZnO/Ag hybrid WGM microcavity for ultrasensitive dopamine detection. <i>Applied Physics Letters</i> , 2016 , 109, 073701	3.4	33
116	Isolating hydrogen in hexagonal boron nitride bubbles by a plasma treatment. <i>Nature Communications</i> , 2019 , 10, 2815	17.4	32
115	Fabrication of sub-nanometer pores on graphene membrane for ion selective transport. <i>Nanoscale</i> , 2018 , 10, 5350-5357	7.7	31
114	Graphene plasmon guided along a nanoribbon coupled with a nanoring. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 135106	3	30
113	Low temperature edge dynamics of AB-stacked bilayer graphene: naturally favored closed zigzag edges. <i>Scientific Reports</i> , 2011 , 1, 12	4.9	29
112	Heat conduction across metal and nonmetal interface containing imbedded graphene layers. <i>Carbon</i> , 2013 , 64, 61-66	10.4	27
111	High temperature Raman spectroscopy studies of carbon nanowalls. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 1449-1453	2.3	27
110	Fast Photoelectric Conversion in the Near-Infrared Enabled by Plasmon-Induced Hot-Electron Transfer. <i>Advanced Materials</i> , 2019 , 31, e1903829	24	26

109	Ultrafast carrier dynamics in pristine and FeCl ₃ -intercalated bilayer graphene. <i>Applied Physics Letters</i> , 2010 , 97, 141910	3.4	25
108	Stimulated emission of CdS nanowires grown by thermal evaporation. <i>Applied Physics Letters</i> , 2007 , 91, 193105	3.4	25
107	Characterization of graphene layers using super resolution polarization parameter indirect microscopic imaging. <i>Optics Express</i> , 2014 , 22, 20446-56	3.3	24
106	Realization of vertical and lateral van der Waals heterojunctions using two-dimensional layered organic semiconductors. <i>Nano Research</i> , 2017 , 10, 1336-1344	10	23
105	Graphene-Based Infrared Position-Sensitive Detector for Precise Measurements and High-Speed Trajectory Tracking. <i>Nano Letters</i> , 2019 , 19, 8132-8137	11.5	23
104	Gate-Tunable Polar Optical Phonon to Piezoelectric Scattering in Few-Layer Bi O Se for High-Performance Thermoelectrics. <i>Advanced Materials</i> , 2021 , 33, e2004786	24	23
103	Sulfur-Mastery: Precise Synthesis of 2D Transition Metal Dichalcogenides. <i>Advanced Functional Materials</i> , 2019 , 29, 1809261	15.6	21
102	The influence of chemical solvents on the properties of CVD graphene. <i>Journal of Raman Spectroscopy</i> , 2015 , 46, 21-24	2.3	21
101	Surface enhanced Raman scattering of aged graphene: Effects of annealing in vacuum. <i>Applied Physics Letters</i> , 2011 , 99, 233103	3.4	20
100	Synergistic graphene/aluminum surface plasmon coupling for zinc oxide lasing improvement. <i>Nano Research</i> , 2017 , 10, 1996-2004	10	19
99	Raman mapping investigation of chemical vapor deposition-fabricated twisted bilayer graphene with irregular grains. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21682-7	3.6	19
98	Lattice dynamics in monolayer and few-layer SnSe ₂ . <i>Physical Review B</i> , 2017 , 96,	3.3	19
97	Plasmon-phonon coupling in monolayer WS ₂ . <i>Applied Physics Letters</i> , 2016 , 108, 131903	3.4	19
96	The effect of graphene on surface plasmon resonance of metal nanoparticles. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 25078-25084	3.6	18
95	Producing air-stable InSe nanosheet through mild oxygen plasma treatment. <i>Semiconductor Science and Technology</i> , 2018 , 33, 074002	1.8	18
94	Surface-enhanced Raman scattering from graphene covered gold nanocap arrays. <i>Journal of Applied Physics</i> , 2013 , 114, 183520	2.5	17
93	Electron contributions to the heat conduction across Au/graphene/Au interfaces. <i>Carbon</i> , 2017 , 115, 665-671	10.4	16
92	Ultrasonic exfoliated ReS nanosheets: Fabrication and use as co-catalyst for enhancing photocatalytic efficiency of TiO nanoparticles under sunlight. <i>Nanotechnology</i> , 2019 , 30, 184001	3.4	16

91	Luminescence signature of free exciton dissociation and liberated electron transfer across the junction of graphene/GaN hybrid structure. <i>Scientific Reports</i> , 2015 , 5, 7687	4.9	16
90	Bandgap-opened bilayer graphene approached by asymmetrical intercalation of trilayer graphene. <i>Small</i> , 2015 , 11, 1177-82	11	16
89	Fluorescence quenching of CdSe quantum dots on graphene. <i>Applied Physics Letters</i> , 2013 , 103, 201909	3.4	16
88	High-pressure Raman and photoluminescence of highly anisotropic CdS nanowires. <i>Journal of Raman Spectroscopy</i> , 2007 , 38, 1112-1116	2.3	16
87	Organic charge-transfer interface enhanced graphene hybrid phototransistors. <i>Organic Electronics</i> , 2019 , 64, 22-26	3.5	16
86	Excitonic Dynamics in Janus MoSSe and WSSe Monolayers. <i>Nano Letters</i> , 2021 , 21, 931-937	11.5	16
85	Patterning Graphene Film by Magnetic-assisted UV Ozonation. <i>Scientific Reports</i> , 2017 , 7, 46583	4.9	15
84	Highly efficient broadband photodetectors based on lithography-free Au/BiOSe/Au heterostructures. <i>Nanoscale</i> , 2019 , 11, 20707-20714	7.7	15
83	Soft hydrogen plasma induced phase transition in monolayer and few-layer MoTe. <i>Nanotechnology</i> , 2019 , 30, 034004	3.4	15
82	How defects influence the photoluminescence of TMDCs. <i>Nano Research</i> , 2021 , 14, 29-39	10	15
81	The dispersion of graphene in conductive epoxy composites investigated by Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 432-436	2.3	14
80	Visualization and investigation of Si-C covalent bonding of single carbon nanotube grown on silicon substrate. <i>Applied Physics Letters</i> , 2008 , 93, 103111	3.4	14
79	2D atomic crystal molecular superlattices by soft plasma intercalation. <i>Nature Communications</i> , 2020 , 11, 5960	17.4	14
78	Thermal transport and energy dissipation in two-dimensional Bi ₂ O ₂ Se. <i>Applied Physics Letters</i> , 2019 , 115, 193103	3.4	13
77	Bi ₂ O ₂ Se/BP van der Waals heterojunction for high performance broadband photodetector. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	13
76	Thickness and stacking geometry effects on high frequency overtone and combination Raman modes of graphene. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 86-91	2.3	12
75	Zn doped MAPbBr single crystal with advanced structural and optical stability achieved by strain compensation. <i>Nanoscale</i> , 2020 , 12, 3692-3700	7.7	12
74	Vis-NIR photodetector with microsecond response enabled by 2D bismuth/Si(111) heterojunction. <i>2D Materials</i> , 2021 , 8, 035002	5.9	12

73	MnO ₂ /Au hybrid nanowall film for high-performance surface-enhanced Raman scattering substrate. <i>Applied Surface Science</i> , 2015 , 333, 78-85	6.7	11
72	Ultrasensitive graphene-Si position-sensitive detector for motion tracking. <i>Information Materials</i> , 2020 , 2, 761-768	23.1	11
71	High-Performance Graphene-Based Electrostatic Field Sensor. <i>IEEE Electron Device Letters</i> , 2017 , 38, 1136-1138	4.4	10
70	Confocal white light reflection imaging for characterization of metal nanostructures. <i>Optics Communications</i> , 2008 , 281, 5360-5363	2	10
69	Optical and field emission properties of Zinc Oxide nanostructures. <i>Journal of Nanoscience and Nanotechnology</i> , 2005 , 5, 1683-7	1.3	10
68	Manipulating fluorescence quenching efficiency of graphene by defect engineering. <i>Applied Physics Express</i> , 2016 , 9, 055502	2.4	10
67	Surface modification of all-inorganic halide perovskite nanorods by a microscale hydrophobic zeolite for stable and sensitive laser humidity sensing. <i>Nanoscale</i> , 2020 , 12, 13360-13367	7.7	9
66	Investigation of dodecane in three-dimensional porous graphene sponge by Raman mapping. <i>Nanotechnology</i> , 2016 , 27, 055702	3.4	9
65	Distinct photoresponse in graphene induced by laser irradiation. <i>Applied Physics Letters</i> , 2015 , 106, 021131	3.1	9
64	Broadband subwavelength imaging using non-resonant metamaterials. <i>Applied Physics Letters</i> , 2014 , 104, 073502	3.4	9
63	Band-Bending at the Graphene/SiC Interfaces: Effect of the Substrate. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 01AH05	1.4	9
62	Comment on Raman spectra of misoriented bilayer graphene. <i>Physical Review B</i> , 2009 , 79,	3.3	9
61	Controllable Synthesis of Crystalline ReS ₂ (1-x)Se _{2x} Monolayers on Amorphous SiO ₂ /Si Substrates with Fast Photoresponse. <i>Advanced Optical Materials</i> , 2020 , 8, 1901415	8.1	9
60	Enhancement of weak localization for nitrogen-doped graphene by short range potentials. <i>Carbon</i> , 2015 , 82, 346-352	10.4	8
59	Determination of the thickness of two-dimensional transition-metal dichalcogenide by the Raman intensity of the substrate. <i>Materials Research Express</i> , 2016 , 3, 025007	1.7	8
58	Surface-Enhanced Raman Scattering Monitoring of Oxidation States in Defect-Engineered Two-Dimensional Transition Metal Dichalcogenides. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7981-7987	6.4	8
57	Large-size Mo _{1-x} W _x S ₂ and W _{1-x} Mo _x S ₂ (x = 0.5) monolayers by confined-space chemical vapor deposition. <i>Applied Surface Science</i> , 2018 , 457, 591-597	6.7	8
56	Fourfold Polarization-Sensitive Photodetector Based on GaTe/MoS ₂ van der Waals Heterojunction. <i>Advanced Electronic Materials</i> , 2020 , 2100673	6.4	8

55	Investigation of multilayer domains in large-scale CVD monolayer graphene by optical imaging. <i>Journal of Semiconductors</i> , 2017 , 38, 033003	2.3	7
54	Phase Transition Mechanism in KIO ₃ Single Crystals. <i>Journal of Physics: Conference Series</i> , 2006 , 28, 105-109		7
53	Making few-layer graphene photoluminescent by UV ozonation. <i>Optical Materials Express</i> , 2016 , 6, 3527	2.6	7
52	Nonvolatile Memory Based on Molecular Ferroelectric/Graphene Field Effect Transistor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39187-39193	9.5	7
51	Strong room-temperature blue-violet photoluminescence of multiferroic BaMnF ₄ . <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 2054-8	3.6	6
50	Defect engineering in two-dimensional materials. <i>Journal of Semiconductors</i> , 2019 , 40, 070403	2.3	6
49	Effect of the surface oxide layer on the stability of black phosphorus. <i>Applied Surface Science</i> , 2021 , 537, 147850	6.7	6
48	Photoluminescence characterization of the grain boundary thermal stability in chemical vapor deposition grown WS ₂ . <i>Materials Research Express</i> , 2017 , 4, 106202	1.7	5
47	Plasmon-enhanced polarized Raman spectroscopy for sensitive surface characterization. <i>Journal of Raman Spectroscopy</i> , 2008 , 39, 1338-1342	2.3	5
46	Defect-related dynamics of photoexcited carriers in 2D transition metal dichalcogenides. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 8222-8235	3.6	5
45	Synthesis, Optical, and Magnetic Properties of BaNiF Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26213-26219	9.5	4
44	Selectively enhanced Raman scattering with triple-resonance nanohole arrays. <i>Optics Communications</i> , 2019 , 452, 494-498	2	4
43	UV Rewritable Hybrid Graphene/Phosphor p-n Junction Photodiode. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 43351-43358	9.5	4
42	Optical and magnetic properties of Ni-doped ZnO nanocones. <i>Journal of Nanoscience and Nanotechnology</i> , 2007 , 7, 3620-3	1.3	4
41	Controllable n-type doping in WSe ₂ monolayer via construction of anion vacancies. <i>Chinese Chemical Letters</i> , 2021 , 32, 3118-3118	8.1	4
40	Raman spectra evidence for the covalent-like quasi-bonding between exfoliated MoS ₂ and Au films. <i>Science China Information Sciences</i> , 2021 , 64, 1	3.4	4
39	The Thinnest Light Disk: Rewritable Data Storage and Encryption on WS ₂ Monolayers. <i>Advanced Functional Materials</i> , 2021 , 31, 2103140	15.6	4
38	Raman spectroscopy study of twisted tetralayer graphene. <i>Journal of Raman Spectroscopy</i> , 2016 , 47, 668-673	2.3	4

37	Thermally enhanced optical contrast of graphene oxide for thickness identification. <i>Nanotechnology</i> , 2019 , 30, 295704	3.4	3
36	Optoelectronic performance of multilayer WSe ₂ transistors enhanced by defect engineering. <i>Applied Physics Express</i> , 2020 , 13, 061004	2.4	3
35	Metal hydroxide and metal oxide nanostructures from metal corrosion. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 1496-500	1.3	3
34	High pressure photoluminescence and Raman studies of Zn _x Cd _{1-x} Se quantum dots. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 325214	1.8	3
33	Strong green luminescence of Mg-doped ZnO nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2006 , 6, 2529-32	1.3	3
32	Thickness-dependent enhanced optoelectronic performance of surface charge transfer-doped ReS ₂ photodetectors. <i>Nano Research</i> , 1	10	3
31	Competition between Oxygen Curing and Ion Migration in MAPbI ₃ Induced by Irradiation Exposure. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8477-8482	6.4	3
30	Molybdenum Oxide/Tungsten Oxide Nano-heterojunction with Improved Surface-Enhanced Raman Scattering Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33345-33353	9.5	3
29	Thickness-Dependent Interlayer Charge Transfer in MoSe ₂ /MoS ₂ Heterostructures Studied by Femtosecond Transient Absorption Measurements. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6489-6495	9.5	3
28	Exploring the working mechanism of graphene patterning by magnetic-assisted UV ozonation. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 27353-27359	3.6	2
27	Surface-Related Exciton and Lasing in CdS Nanostructures. <i>Nanoscale Research Letters</i> , 2019 , 14, 216	5	2
26	A Simple Route to Growth of Silicon Nanowires. <i>Journal of Nanoscience and Nanotechnology</i> , 2008 , 8, 5787-5790	1.3	2
25	Ultrasensitive graphene position-sensitive detector induced by synergistic effects of charge injection and interfacial gating. <i>Nanophotonics</i> , 2020 , 9, 2531-2536	6.3	2
24	Excitonic Emission in Atomically Thin Electroluminescent Devices. <i>Laser and Photonics Reviews</i> , 2021 , 15, 2000587	8.3	2
23	Sub-4 nm Nanodiamonds from Graphene-Oxide and Nitrated Polycyclic Aromatic Hydrocarbons at 423 K. <i>ACS Nano</i> , 2021 ,	16.7	2
22	Modulation of THz radiation via enhanced Dirac plasmon-dual phonon interaction. <i>Applied Physics Letters</i> , 2019 , 115, 251109	3.4	2
21	Optical studies of the thermal stability of InSe nanosheets. <i>Applied Surface Science</i> , 2019 , 467-468, 860-867	8.7	2
20	Position-sensitive detectors based on two-dimensional materials. <i>Nano Research</i> , 2021 , 14, 1889-1900	10	2

19	Photoinduced doping in monolayer WSe2 transistors. <i>Applied Physics Express</i> , 2019 , 12, 094005	2.4	1
18	The phase transition in PrGa0.95Mg0.05O3 at elevated temperatures. <i>Journal of Physics and Chemistry of Solids</i> , 2009 , 70, 533-535	3.9	1
17	Photoluminescence enhancement at a high generation rate induced by exciton localization. <i>Optics Letters</i> , 2021 , 46, 2774-2777	3	1
16	Tunable self-trapped excitons in 2D layered rubrene. <i>Applied Physics Letters</i> , 2021 , 118, 253103	3.4	1
15	Controlling phase transition in WSe2 towards ideal n-type transistor. <i>Nano Research</i> , 2021 , 14, 2703-2710	10	1
14	Synthesis of Single- and Few-Layer Nitrogen-doped Graphene and Layer-Dependent Surface-Enhanced Raman Scattering Properties. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 17831-17840	3.8	1
13	Spectroscopic Perception of Trap States on the Performance of Methylammonium and Formamidinium Lead Iodide Perovskite Solar Cells. <i>Advanced Materials</i> , 2021 , 33, e2102241	24	1
12	Bidirectional doping of two-dimensional thin-layer transition metal dichalcogenides using soft ammonia plasma. <i>Nanoscale</i> , 2021 , 13, 15278-15284	7.7	1
11	Potassium Iodide Doping Strategy for High-Efficiency Perovskite Solar Cells Revealed by Ultrafast Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2022 , 13, 711-717	6.4	0
10	Thermoelectric Materials: Gate-Tunable Polar Optical Phonon to Piezoelectric Scattering in Few-Layer Bi2O2Se for High-Performance Thermoelectrics (Adv. Mater. 4/2021). <i>Advanced Materials</i> , 2021 , 33, 2170023	24	0
9	Achieving high-performance multilayer MoSe2 photodetectors by defect engineering*. <i>Chinese Physics B</i> , 2021 , 30, 087801	1.2	0
8	Tunable anisotropy in ReS2 flakes achieved by Ar+ ion bombardment probed by polarized Raman spectroscopy. <i>Applied Physics Letters</i> , 2021 , 119, 053104	3.4	0
7	Correlated Dynamics of Free and Self-Trapped Excitons and Broadband Photodetection in BEA 2 PbBr 4 Layered Crystals. <i>Advanced Optical Materials</i> , 2200223	8.1	0
6	Resonance Raman scattering on graded-composition WxMo1-xS2 alloy with tunable excitons. <i>Applied Physics Letters</i> , 2022 , 120, 172104	3.4	0
5	Manipulating fluorescence intensity with mechanical strains. <i>Materials Research Express</i> , 2015 , 2, 015017	1.7	
4	Suppression of Surface Defects and Vibrational Coupling in GaN by a Graphene Monolayer. <i>Physica Status Solidi - Rapid Research Letters</i> , 2100489	2.5	
3	Raman Imaging of Two Dimensional Materials. <i>Springer Series in Materials Science</i> , 2019 , 231-261	0.9	
2	The Thinnest Light Disk: Rewritable Data Storage and Encryption on WS2 Monolayers (Adv. Funct. Mater. 36/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170267	15.6	

- 1 Aggregation-Dependent Dielectric Permittivity in 2D Molecular Crystals.. *Small Methods*, **2022**, e21011982.8