

List of Publications by Year in
Descending Order

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

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|--------------------|--------------------------|----------------|-----------------|
| 247 papers | 13,005 citations | 54 h-index | 109 g-index |
| 262 ext. papers | 15,516 ext. citations | 8.1 avg, IF | 6.62 L-index |

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 247 | Facet-Selective Dissociation and Radical-Mediated Reaction of Dibenzotetrathiafulvalene Molecules on Low-Index Copper Surfaces. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 1281-1288 | 3.8 | |
| 246 | Magnetic Phase Transitions and Magnetoelastic Coupling in a Two-Dimensional Stripy Antiferromagnet.. <i>Nano Letters</i> , 2022 , | 11.5 | 4 |
| 245 | Two-Dimensional Room-Temperature Magnetic Nonstoichiometric FeSe Nanocrystals: Controllable Synthesis and Magnetic Behavior.. <i>Nano Letters</i> , 2022 , | 11.5 | 9 |
| 244 | Enhanced Mechanical Properties and Oxidation Resistance of Zirconium Diboride Ceramics via Grain-Refining and Dislocation Regulation.. <i>Advanced Science</i> , 2022 , 9, e2104532 | 13.6 | 0 |
| 243 | Spin mapping of intralayer antiferromagnetism and field-induced spin reorientation in monolayer CrTe.. <i>Nature Communications</i> , 2022 , 13, 257 | 17.4 | 9 |
| 242 | Aggregation-Dependent Dielectric Permittivity in 2D Molecular Crystals.. <i>Small Methods</i> , 2022 , e2101198 | 2.8 | |
| 241 | Sub-Angstrom Imaging of Nondegenerate Kekulé Structures in a Two-Dimensional Halogen-Bonded Supramolecular Network. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 4241-4247 | 3.8 | 1 |
| 240 | An efficient route to prepare suspended monolayer for feasible optical and electronic characterizations of two-dimensional materials. <i>Information Materials</i> , 2022 , 4, | 23.1 | 6 |
| 239 | Recent development of two-dimensional magnetic materials. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2022 , , | 0.6 | 1 |
| 238 | Ferroelectricity in untwisted heterobilayers of transition metal dichalcogenides. <i>Science</i> , 2022 , 376, 973-978 | 37.9 | 7 |
| 237 | Anisotropic Carrier Mobility from 2H WSe. <i>Advanced Materials</i> , 2021 , e2108615 | 24 | 2 |
| 236 | Flexible Alkali-Halogen Bonding in Two Dimensional Alkali-Metal Organic Frameworks. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 10808-10814 | 6.4 | 3 |
| 235 | Light helicity detector based on 2D magnetic semiconductor CrI. <i>Nature Communications</i> , 2021 , 12, 6874 | 17.4 | 4 |
| 234 | Recent Progress on Two-Dimensional Materials. <i>Wuli Huaxue Xuebao/Acta Physico - Chimica Sinica</i> , 2021 , 2108017-0 | 3.8 | 69 |
| 233 | Visualizing Spatial Evolution of Electron-Correlated Interface in Two-Dimensional Heterostructures. <i>ACS Nano</i> , 2021 , 15, 16589-16596 | 16.7 | 7 |
| 232 | Van der Waals epitaxial growth of air-stable CrSe nanosheets with thickness-tunable magnetic order. <i>Nature Materials</i> , 2021 , 20, 818-825 | 27 | 68 |
| 231 | Raman spectra evidence for the covalent-like quasi-bonding between exfoliated MoS2 and Au films. <i>Science China Information Sciences</i> , 2021 , 64, 1 | 3.4 | 4 |

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| 230 | Two-dimensional intrinsic ferrovalley GdI ₂ with large valley polarization. <i>Physical Review B</i> , 2021 , 103, | 3.3 | 12 |
| 229 | Strain-Engineered Rippling and Manipulation of Single-Layer WS ₂ by Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 8696-8703 | 3.8 | 1 |
| 228 | Epitaxial fabrication of AgTe monolayer on Ag(111) and the sequential growth of Te film. <i>Frontiers of Physics</i> , 2021 , 16, 1 | 3.7 | |
| 227 | Self-feeding formation of atomically thin molybdenum nanoflakes on MoS ₂ monolayer. <i>2D Materials</i> , 2021 , 8, 035054 | 5.9 | 0 |
| 226 | Shallowing interfacial carrier trap in transition metal dichalcogenide heterostructures with interlayer hybridization. <i>Nano Research</i> , 2021 , 14, 1390-1396 | 10 | 4 |
| 225 | Recent advances in surface-enhanced Raman scattering-based sensors for the detection of inorganic ions: Sensing mechanism and beyond. <i>Journal of Raman Spectroscopy</i> , 2021 , 52, 468-481 | 2.3 | 9 |
| 224 | Benchmarking atomically defined AFM tips for chemical-selective imaging. <i>Nanoscale</i> , 2021 , 13, 13617-13623 | 17.23 | 1 |
| 223 | Field-Effect Chiral Anomaly Devices with Dirac Semimetal. <i>Advanced Functional Materials</i> , 2021 , 31, 2104198 | 19.8 | 2 |
| 222 | Mechanical and Chemical Interactions in Atomically Defined Contacts. <i>Small</i> , 2021 , 17, e2101637 | 11 | 1 |
| 221 | Giant anisotropic photonics in the 1D van der Waals semiconductor fibrous red phosphorus. <i>Nature Communications</i> , 2021 , 12, 4822 | 17.4 | 7 |
| 220 | Nonvolatile electric field control of magnetism in bilayer CrI ₃ on monolayer In ₂ Se ₃ . <i>Physical Review B</i> , 2021 , 104, | 3.3 | 4 |
| 219 | Phase transition-induced superstructures of Bi films with atomic-scale thickness*. <i>Chinese Physics B</i> , 2021 , 30, 096804 | 1.2 | |
| 218 | Toplayer-dependent crystallographic orientation imaging in the bilayer two-dimensional materials with transverse shear microscopy. <i>Frontiers of Physics</i> , 2021 , 16, 1 | 3.7 | 1 |
| 217 | Epitaxial fabrication of topological Bi-Sb alloy films by surface alloying of Sb nanofilms. <i>Surface Science</i> , 2021 , 714, 121921 | 1.8 | 2 |
| 216 | TEM study of edge reconstruction and evolution in monolayer black phosphorus. <i>Nanoscale</i> , 2021 , 13, 4133-4139 | 7.7 | 4 |
| 215 | Localized spin-orbit polaron in magnetic Weyl semimetal CoSnS. <i>Nature Communications</i> , 2020 , 11, 5613 | 17.4 | 26 |
| 214 | Resolving Quinoid Structure in Poly(-phenylene) Chains. <i>Journal of the American Chemical Society</i> , 2020 , 142, 10034-10041 | 16.4 | 8 |
| 213 | Universal mechanical exfoliation of large-area 2D crystals. <i>Nature Communications</i> , 2020 , 11, 2453 | 17.4 | 169 |

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| 212 | Selective linear etching of monolayer black phosphorus using electron beams. <i>Chinese Physics B</i> , 2020 , 29, 086801 | 1.2 | 1 |
| 211 | Epitaxial growth of antimony nanofilms on HOPG and thermal desorption to control the film thickness. <i>Chinese Physics B</i> , 2020 , 29, 096801 | 1.2 | 3 |
| 210 | Quantum spin Hall effect in monolayer and bilayer TaIrTe ₄ . <i>Physical Review B</i> , 2020 , 102, | 3.3 | 6 |
| 209 | Investigating molecular orbitals with submolecular precision on pristine sites and single atomic vacancies of monolayer h-BN. <i>Nano Research</i> , 2020 , 13, 2233-2238 | 10 | 3 |
| 208 | Charge separation, recombination and intersystem crossing of directly connected perylenemonoimide-carbazole electron donor/acceptor dyads. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 6376-6390 | 3.6 | 9 |
| 207 | Thermodynamics and Economics of Different Asymmetric Cold Energy Transfer in a Liquid Air Energy Storage System. <i>Energy Technology</i> , 2020 , 8, 1901487 | 3.5 | 6 |
| 206 | Au nanoparticles as label-free competitive reporters for sensitivity enhanced fiber-optic SPR heparin sensor. <i>Biosensors and Bioelectronics</i> , 2020 , 154, 112039 | 11.8 | 22 |
| 205 | Single-layer CrI ₃ grown by molecular beam epitaxy. <i>Science Bulletin</i> , 2020 , 65, 1064-1071 | 10.6 | 25 |
| 204 | Bethe-Slater-curve-like behavior and interlayer spin-exchange coupling mechanisms in two-dimensional magnetic bilayers. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 18 |
| 203 | Quasi one-dimensional van der Waals gold selenide with strong interchain interaction and giant magnetoresistance. <i>Science Bulletin</i> , 2020 , 65, 1451-1459 | 10.6 | 2 |
| 202 | Two ultra-stable novel allotropes of tellurium few-layers. <i>Chinese Physics B</i> , 2020 , 29, 097103 | 1.2 | 2 |
| 201 | Heterostructures of tellurium on NbSe from sub-monolayer to few-layer films. <i>Nanoscale</i> , 2020 , 12, 1994-2001 | 7.7 | 2 |
| 200 | Real-space visualization of intercalated water phases at the hydrophobic graphene interface with atomic force microscopy. <i>Frontiers of Physics</i> , 2020 , 15, 1 | 3.7 | 5 |
| 199 | Nitrosonaphthol reaction-assisted SERS assay for selective determination of 5-hydroxyindole-3-acetic acid in human urine. <i>Analytica Chimica Acta</i> , 2020 , 1134, 34-40 | 6.6 | 2 |
| 198 | Strain-induced hierarchical ripples in MoS ₂ layers investigated by atomic force microscopy. <i>Applied Physics Letters</i> , 2020 , 117, 153102 | 3.4 | 4 |
| 197 | A Gd@C single-molecule electret. <i>Nature Nanotechnology</i> , 2020 , 15, 1019-1024 | 28.7 | 25 |
| 196 | The microstructural origin of rapid densification in 3YSZ during ultra-fast firing with or without an electric field. <i>Journal of the European Ceramic Society</i> , 2020 , 40, 5829-5836 | 6 | 15 |
| 195 | Quasi-One-Dimensional Free-Electron-Like States Selected by Intermolecular Hydrogen Bonds at the Glycine/Cu(100) Interface. <i>Chinese Physics Letters</i> , 2020 , 37, 117301 | 1.8 | |

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| 194 | Experimental Observation of Ultrahigh Mobility Anisotropy of Organic Semiconductors in the Two-Dimensional Limit. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 2888-2894 | 4 | 1 |
| 193 | Pristine edge structures of T''-phase transition metal dichalcogenides (ReSe, ReS) atomic layers. <i>Nanoscale</i> , 2020 , 12, 17005-17012 | 7.7 | 6 |
| 192 | Phase-controllable growth of ultrathin 2D magnetic FeTe crystals. <i>Nature Communications</i> , 2020 , 11, 3729 | 17.4 | 57 |
| 191 | Local probe of the interlayer coupling strength of few-layers SnSe by contact-resonance atomic force microscopy. <i>Frontiers of Physics</i> , 2020 , 15, 1 | 3.7 | 4 |
| 190 | Atomically Asymmetric Inversion Scales up to Mesoscopic Single-Crystal Monolayer Flakes. <i>ACS Nano</i> , 2020 , 14, 13834-13840 | 16.7 | 5 |
| 189 | Strain-Sensitive Magnetization Reversal of a van der Waals Magnet. <i>Advanced Materials</i> , 2020 , 32, e2004543 | 33 | 38 |
| 188 | Probing and Manipulating Carrier Interlayer Diffusion in van der Waals Multilayer by Constructing Type-I Heterostructure. <i>Nano Letters</i> , 2019 , 19, 7217-7225 | 11.5 | 23 |
| 187 | Epitaxial Synthesis of Monolayer PtSe Single Crystal on MoSe with Strong Interlayer Coupling. <i>ACS Nano</i> , 2019 , 13, 10929-10938 | 16.7 | 45 |
| 186 | Engineering Point-Defect States in Monolayer WSe. <i>ACS Nano</i> , 2019 , 13, 1595-1602 | 16.7 | 28 |
| 185 | Phases, Microstructures and Mechanical Properties of CoCrNiCuZn High-Entropy Alloy Prepared by Mechanical Alloying and Spark Plasma Sintering. <i>Entropy</i> , 2019 , 21, | 2.8 | 7 |
| 184 | Interfacial water intercalation-induced metal-insulator transition in NbS/BN heterostructure. <i>Nanotechnology</i> , 2019 , 30, 205702 | 3.4 | 4 |
| 183 | CTAB-triggered Ag aggregates for reproducible SERS analysis of urinary polycyclic aromatic hydrocarbon metabolites. <i>Chemical Communications</i> , 2019 , 55, 2146-2149 | 5.8 | 19 |
| 182 | Tunable Giant Anomalous Hall Angle in Perpendicular Multilayers by Interfacial Orbital Hybridization. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 24751-24756 | 9.5 | 1 |
| 181 | Ionic-Liquid-Gating Induced Protonation and Superconductivity in FeSe, FeSe _{0.93} S _{0.07} , ZrNCl, 1T-TaS ₂ and Bi ₂ Se ₃ *. <i>Chinese Physics Letters</i> , 2019 , 36, 077401 | 1.8 | 10 |
| 180 | Surface stabilized cubic phase of CsPbI ₃ and CsPbBr ₃ at room temperature. <i>Chinese Physics B</i> , 2019 , 28, 056402 | 1.2 | 10 |
| 179 | Domain wall pinning and hard magnetic phase in Co-doped bulk single crystalline Fe ₃ GeTe ₂ . <i>Physical Review B</i> , 2019 , 99, | 3.3 | 26 |
| 178 | UV-SWIR broad range photodetectors made from few-layer HnSe nanosheets. <i>Nanoscale</i> , 2019 , 11, 12817-12828 | 7.7 | 30 |
| 177 | Raman detection of hidden phonons assisted by atomic point defects in a two-dimensional semimetal. <i>Npj 2D Materials and Applications</i> , 2019 , 3, | 8.8 | 7 |

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| 176 | Stacking tunable interlayer magnetism in bilayer CrI ₃ . <i>Physical Review B</i> , 2019 , 99, | 3.3 | 178 |
| 175 | Mercaptopyridine-Functionalized Gold Nanoparticles for Fiber-Optic Surface Plasmon Resonance Hg Sensing. <i>ACS Sensors</i> , 2019 , 4, 704-710 | 9.2 | 61 |
| 174 | A family of high-temperature ferromagnetic monolayers with locked spin-dichroism-mobility anisotropy: MnNX and CrCX (X = Cl, Br, I; C = S, Se, Te). <i>Science Bulletin</i> , 2019 , 64, 293-300 | 10.6 | 50 |
| 173 | Wet Chemical Method for Black Phosphorus Thinning and Passivation. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9213-9222 | 9.5 | 16 |
| 172 | Sintering dense nanocrystalline 3YSZ ceramics without grain growth by plastic deformation as dominating mechanism. <i>Ceramics International</i> , 2019 , 45, 9363-9367 | 5.1 | 6 |
| 171 | Reusable Silicon-Based SERS Chip for Ratiometric Analysis of Fluoride Ion in Aqueous Solutions. <i>ACS Sensors</i> , 2019 , 4, 2336-2342 | 9.2 | 19 |
| 170 | Shear anisotropy-driven crystallographic orientation imaging in flexible hexagonal two-dimensional atomic crystals. <i>Applied Physics Letters</i> , 2019 , 115, 063101 | 3.4 | 12 |
| 169 | Epitaxial Growth of Large-Scale Orthorhombic CsPbBr ₃ Perovskite Thin Films with Anisotropic Photoresponse Property. <i>Advanced Functional Materials</i> , 2019 , 29, 1904913 | 15.6 | 33 |
| 168 | Enhanced Raman Scattering by ZnO Superstructures: Synergistic Effect of Charge Transfer and Mie Resonances. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 14452-14456 | 16.4 | 78 |
| 167 | Realizing nearly-free-electron like conduction band in a molecular film through mediating intermolecular van der Waals interactions. <i>Nature Communications</i> , 2019 , 10, 3374 | 17.4 | 4 |
| 166 | Direct Vapor Growth of 2D Vertical Heterostructures with Tunable Band Alignments and Interfacial Charge Transfer Behaviors. <i>Advanced Science</i> , 2019 , 6, 1802204 | 13.6 | 57 |
| 165 | Nanoscratch on single-layer MoS ₂ crystal by atomic force microscopy: semi-circular to periodical zigzag cracks. <i>Materials Research Express</i> , 2019 , 6, 025048 | 1.7 | 7 |
| 164 | Unusual Electronic States and Superconducting Proximity Effect of Bi Films Modulated by a NbSe Substrate. <i>ACS Nano</i> , 2019 , 13, 1885-1892 | 16.7 | 12 |
| 163 | Interface Engineering of Au(111) for the Growth of 1T'-MoSe. <i>ACS Nano</i> , 2019 , 13, 2316-2323 | 16.7 | 19 |
| 162 | In situ formation of SERS hot spots by a bis-quaternized perylene dye: a simple strategy for highly sensitive detection of heparin over a wide concentration range. <i>Analyst, The</i> , 2018 , 143, 1899-1905 | 5 | 15 |
| 161 | Strain-Tuning Atomic Substitution in Two-Dimensional Atomic Crystals. <i>ACS Nano</i> , 2018 , 12, 4853-4860 | 16.7 | 64 |
| 160 | Quantitative assessment of intermolecular interactions by atomic force microscopy imaging using copper oxide tips. <i>Nature Nanotechnology</i> , 2018 , 13, 371-375 | 28.7 | 51 |
| 159 | Local characterization of mobile charge carriers by two electrical AFM modes: multi-harmonic EFM versus sMIM. <i>Journal of Physics Communications</i> , 2018 , 2, 025013 | 1.2 | 7 |

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| 158 | Illuminating interlayer interactions. <i>Nature Materials</i> , 2018 , 17, 211-213 | 27 | 12 |
| 157 | Charge-Transfer-Induced Enhancement of Raman Scattering Based on Semiconductors 2018 , 451-482 | | 2 |
| 156 | Boronic acid functionalized fiber-optic SPR sensors for high sensitivity glycoprotein detection. <i>Sensors and Actuators B: Chemical</i> , 2018 , 260, 976-982 | 8.5 | 17 |
| 155 | Few-layer Tellurium: one-dimensional-like layered elementary semiconductor with striking physical properties. <i>Science Bulletin</i> , 2018 , 63, 159-168 | 10.6 | 138 |
| 154 | High harmonic exploring on different materials in dynamic atomic force microscopy. <i>Science China Technological Sciences</i> , 2018 , 61, 446-452 | 3.5 | 6 |
| 153 | Two-dimensional ferroelectricity and switchable spin-textures in ultra-thin elemental Te multilayers. <i>Materials Horizons</i> , 2018 , 5, 521-528 | 14.4 | 68 |
| 152 | Fiber-optic surface plasmon resonance glucose sensor enhanced with phenylboronic acid modified Au nanoparticles. <i>Biosensors and Bioelectronics</i> , 2018 , 117, 637-643 | 11.8 | 79 |
| 151 | Boronic Acid Functionalized Au Nanoparticles for Selective MicroRNA Signal Amplification in Fiber-Optic Surface Plasmon Resonance Sensing System. <i>ACS Sensors</i> , 2018 , 3, 929-935 | 9.2 | 43 |
| 150 | A topologically substituted boron nitride hybrid aerogel for highly selective CO ₂ uptake. <i>Nano Research</i> , 2018 , 11, 6325-6335 | 10 | 12 |
| 149 | Moiré Phonons in Twisted Bilayer MoS ₂ . <i>ACS Nano</i> , 2018 , 12, 8770-8780 | 16.7 | 85 |
| 148 | Layer and doping tunable ferromagnetic order in two-dimensional CrS ₂ layers. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 53 |
| 147 | Dynamic interfacial mechanical-thermal characteristics of atomically thin two-dimensional crystals. <i>Nanoscale</i> , 2018 , 10, 13548-13554 | 7.7 | 9 |
| 146 | Nanoscale charge transfer and diffusion at the MoS ₂ /SiO ₂ interface by atomic force microscopy: contact injection versus triboelectrification. <i>Nanotechnology</i> , 2018 , 29, 355701 | 3.4 | 9 |
| 145 | Designing Optoelectronic Properties by On-Surface Synthesis: Formation and Electronic Structure of an Iron-Terpyridine Macromolecular Complex. <i>ACS Nano</i> , 2018 , 12, 6545-6553 | 16.7 | 9 |
| 144 | Unexpected Nucleophilic Substitution Reaction of BODIPY: Preparation of the BODIPY-TEMPO Triad Showing Radical-Enhanced Intersystem Crossing. <i>European Journal of Organic Chemistry</i> , 2018 , 2018, 885-895 | 3.2 | 16 |
| 143 | Charge-governed phase manipulation of few-layer tellurium. <i>Nanoscale</i> , 2018 , 10, 22263-22269 | 7.7 | 20 |
| 142 | Two-dimensional tessellation by molecular tiles constructed from halogen-halogen and halogen-metal networks. <i>Nature Communications</i> , 2018 , 9, 4871 | 17.4 | 22 |
| 141 | Solution-Based Property Tuning of Black Phosphorus. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 39890-39897 | 9.5 | 13 |

- 140 Discovering the forbidden Raman modes at the edges of layered materials. *Science Advances*, **2018**, 4, eaau6252 14.3 26
- 139 Metal/Organic Framework Thin Film-Based Dye Sensitized Solar Cells with Enhanced Photocurrent. *Materials*, **2018**, 11, 3.5 12
- 138 A dual colorimetric and SERS detection of Hg²⁺ based on the stimulus of intrinsic oxidase-like catalytic activity of Ag-CoFe₂O₄/reduced graphene oxide nanocomposites. *Chemical Engineering Journal*, **2018**, 350, 120-130 14.7 61
- 137 Giant Anisotropic Raman Response of Encapsulated Ultrathin Black Phosphorus by Uniaxial Strain. *Advanced Functional Materials*, **2017**, 27, 1600986 15.6 81
- 136 Effects of ball-milling on fabrication of YAG ceramics by a phase transformation assisted spark plasma sintering. *Journal of Alloys and Compounds*, **2017**, 701, 279-287 5.7 8
- 135 Evolution of CHNO/Si interfacial chemistry under reaction conditions: a combined experimental and theoretical study. *Chemical Communications*, **2017**, 53, 3342-3345 5.8 3
- 134 Layer-separable and gap-tunable topological insulators. *Physical Chemistry Chemical Physics*, **2017**, 19, 3932-3936 3.6 4
- 133 Semiconductor-enhanced Raman scattering: active nanomaterials and applications. *Nanoscale*, **2017**, 9, 4847-4861 7.7 178
- 132 Facile synthesis of silver nanoparticles/carbon dots for a charge transfer study and peroxidase-like catalytic monitoring by surface-enhanced Raman scattering. *Applied Surface Science*, **2017**, 410, 42-50 6.7 26
- 131 Fabrication of Ag-CuO/Reduced Graphene Oxide Nanocomposites as Surface-Enhanced Raman Scattering Substrates for in Situ Monitoring of Peroxidase-Like Catalytic Reaction and Biosensing. *ACS Applied Materials & Interfaces*, **2017**, 9, 19074-19081 9.5 78
- 130 Fast mineralization of densely packed hydroxyapatite layers in the presence of overexpressed recombinant amelogenin. *Journal Wuhan University of Technology, Materials Science Edition*, **2017**, 32, 256-263 1
- 129 Broadband Visible Light Harvesting N^N Pt(II) Bisacetylde Complex with Bodipy and Naphthalene Diimide Ligands: Förster Resonance Energy Transfer and Intersystem Crossing. *Journal of Physical Chemistry C*, **2017**, 121, 11117-11128 3.8 19
- 128 Optical field control via liquid crystal photoalignment. *Molecular Crystals and Liquid Crystals*, **2017**, 644, 3-11 0.5 4
- 127 Direct Imaging of Kinetic Pathways of Atomic Diffusion in Monolayer Molybdenum Disulfide. *Nano Letters*, **2017**, 17, 3383-3390 11.5 27
- 126 Electron Transfer of Cytochrome c on Surface-Enhanced Raman Scattering-Active Substrates: Material Dependence and Biocompatibility. *Chemistry - A European Journal*, **2017**, 23, 9034-9038 4.8 12
- 125 Deriving phosphorus atomic chains from few-layer black phosphorus. *Nano Research*, **2017**, 10, 2519-2526 19
- 124 Geometric stability and electronic structure of infinite and finite phosphorus atomic chains. *Chinese Physics B*, **2017**, 26, 036803 1.2 7
- 123 Low temperature consolidation for fine-grained zirconium carbide from nanoparticles with ZrH₂ as sintering additive. *Journal of the European Ceramic Society*, **2017**, 37, 3003-3007 6 3

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| 122 | Inversion Domain Boundary Induced Stacking and Bandstructure Diversity in Bilayer MoSe. <i>Nano Letters</i> , 2017 , 17, 6653-6660 | 11.5 | 34 |
| 121 | Selective Hybridization of a Terpyridine-Based Molecule with a Noble Metal. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 23574-23581 | 3.8 | 2 |
| 120 | Bodipy-squaraine triads: Preparation and study of the intramolecular energy transfer, charge separation and intersystem crossing. <i>Dyes and Pigments</i> , 2017 , 147, 560-572 | 4.6 | 8 |
| 119 | Ultrafast Excited-State Dynamics in Cyclometalated Ir(III) Complexes Coordinated with Perylenebisimide and Its Radical Anion Ligands. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 21184-21198 | 3.8 | 10 |
| 118 | Triplet Excited State of BODIPY Accessed by Charge Recombination and Its Application in Triplet-Triplet Annihilation Upconversion. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 7550-7564 | 2.8 | 63 |
| 117 | Ultrahigh mobility and efficient charge injection in monolayer organic thin-film transistors on boron nitride. <i>Science Advances</i> , 2017 , 3, e1701186 | 14.3 | 115 |
| 116 | Tailoring the photon spin via light-matter interaction in liquid-crystal-based twisting structures. <i>Npj Quantum Materials</i> , 2017 , 2, | 5 | 6 |
| 115 | Defect Structure of Localized Excitons in a WSe ₂ Monolayer. <i>Physical Review Letters</i> , 2017 , 119, 046101 | 14 | 119 |
| 114 | Steering Surface Reaction Dynamics with a Self-Assembly Strategy: Ullmann Coupling on Metal Surfaces. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 12852-12856 | 16.4 | 40 |
| 113 | Steering Surface Reaction Dynamics with a Self-Assembly Strategy: Ullmann Coupling on Metal Surfaces. <i>Angewandte Chemie</i> , 2017 , 129, 13032-13036 | 3.6 | 8 |
| 112 | Unusually high electron density in an intermolecular non-bonding region: Role of metal substrate. <i>Chinese Chemical Letters</i> , 2017 , 28, 759-764 | 8.1 | 11 |
| 111 | High-Electron-Mobility and Air-Stable 2D Layered PtSe FETs. <i>Advanced Materials</i> , 2017 , 29, 1604230 | 24 | 368 |
| 110 | Microstructure and Properties of Graphene/Titanium Composite Materials Prepared by Plasma Activated Sintering. <i>Science of Advanced Materials</i> , 2017 , 9, 1126-1130 | 2.3 | 3 |
| 109 | Molecular beam epitaxial growth and characterization of Al(Ga)N nanowire deep ultraviolet light emitting diodes and lasers. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 364006 | 3 | 38 |
| 108 | Atomic-Scale Origin of Long-Term Stability and High Performance of p-GaN Nanowire Arrays for Photocatalytic Overall Pure Water Splitting. <i>Advanced Materials</i> , 2016 , 28, 8388-8397 | 24 | 83 |
| 107 | Probing Carrier Transport and Structure-Property Relationship of Highly Ordered Organic Semiconductors at the Two-Dimensional Limit. <i>Physical Review Letters</i> , 2016 , 116, 016602 | 7.4 | 180 |
| 106 | Meta-q-plate for complex beam shaping. <i>Scientific Reports</i> , 2016 , 6, 25528 | 4.9 | 67 |
| 105 | Interaction of Black Phosphorus with Oxygen and Water. <i>Chemistry of Materials</i> , 2016 , 28, 8330-8339 | 9.6 | 345 |

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| 104 | Extraordinarily Strong Interlayer Interaction in 2D Layered PtS ₂ . <i>Advanced Materials</i> , 2016 , 28, 2399-407 | 24 | 322 |
| 103 | Dynamics of surface-migration: Electron-induced reaction of 1,2-dihaloethanes on Si(100). <i>Surface Science</i> , 2016 , 652, 312-321 | 1.8 | 5 |
| 102 | Photochemical Carbon Dioxide Reduction on Mg-Doped Ga(In)N Nanowire Arrays under Visible Light Irradiation. <i>ACS Energy Letters</i> , 2016 , 1, 246-252 | 20.1 | 41 |
| 101 | Optical Anisotropy of Black Phosphorus in the Visible Regime. <i>Journal of the American Chemical Society</i> , 2016 , 138, 300-5 | 16.4 | 217 |
| 100 | Polytypism and unexpected strong interlayer coupling in two-dimensional layered ReS ₂ . <i>Nanoscale</i> , 2016 , 8, 8324-32 | 7.7 | 99 |
| 99 | Interlayer electronic hybridization leads to exceptional thickness-dependent vibrational properties in few-layer black phosphorus. <i>Nanoscale</i> , 2016 , 8, 2740-50 | 7.7 | 111 |
| 98 | Strain- and twist-engineered optical absorption of few-layer black phosphorus. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016 , 59, 1 | 3.6 | 11 |
| 97 | 3D SERS Imaging Using Chemically Synthesized Highly Symmetric Nanoporous Silver Microparticles. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 8391-5 | 16.4 | 32 |
| 96 | Adsorption of PTCDA and Cl ₂ on KBr(001): electrostatic interaction versus electronic hybridization. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11008-16 | 3.6 | 5 |
| 95 | Charge-Transfer-Induced Enantiomer Selective Discrimination of Chiral Alcohols by SERS. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 29374-29381 | 3.8 | 24 |
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