List of Publications by Year in descending order

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SHIMELWI

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Efficient helicity control of four-wave mixing in gated graphene. Optics Letters, 2022, 47, 234-237. | 1.7 | 1 |
| 2 | Dual-coupling-guided epitaxial growth of wafer-scale single-crystal WS2 monolayer on vicinal a-plane sapphire. Nature Nanotechnology, 2022, 17, 33-38. | 15.6 | 171 |
| 3 | Spin mapping of intralayer antiferromagnetism and field-induced spin reorientation in monolayer CrTe2. Nature Communications, 2022, 13, 257. | 5.8 | 62 |
| 4 | Nanoscale Impact Ionization and Electroluminescence in a Biased Scanning-Tunneling-Microscope Junction. Chinese Physics Letters, 2022, 39, 037801. | 1.3 | 0 |
| 5 | Compelling Evidence for the εâ€Phase InSe Crystal by Oblique Incident Second Harmonic Generation. Advanced Optical Materials, 2022, 10, . | 3.6 | 5 |
| 6 | Substrate dopant induced electronic inhomogeneity in epitaxial bilayer graphene. 2D Materials, 2021, 8, 035001. | 2.0 | 3 |
| 7 | Giant enhancement of optical nonlinearity in two-dimensional materials by multiphoton-excitation resonance energy transfer from quantum dots. Nature Photonics, 2021, 15, 510-515. | 15.6 | 50 |
| 8 | Probing the Chiral Domains and Excitonic States in Individual WS ₂ Tubes by Second-Harmonic Generation. Nano Letters, 2021, 21, 4937-4943. | 4.5 | 12 |
| 9 | Manipulating Ferromagnetism in Fewâ€Layered Cr ₂ Ge ₂ Te ₆ . Advanced Materials, 2021, 33, e2008586. | 11.1 | 49 |
| 10 | Giant All-Optical Modulation of Second-Harmonic Generation Mediated by Dark Excitons. ACS Photonics, 2021, 8, 2320-2328. | 3.2 | 11 |
| 11 | Flipping carbon monoxide on a salt surface. Science, 2020, 367, 148-149. | 6.0 | 3 |
| 12 | Third-Order Optical Nonlinearity of Three-Dimensional Massless Dirac Fermions. ACS Photonics, 2020, 7, 2515-2526. | 3.2 | 18 |
| 13 | Optical fibres with embedded two-dimensional materials for ultrahigh nonlinearity. Nature Nanotechnology, 2020, 15, 987-991. | 15.6 | 94 |
| 14 | Routing valley exciton emission of a WS2 monolayer via delocalized Bloch modes of in-plane inversion-symmetry-broken photonic crystal slabs. Light: Science and Applications, 2020, 9, 148. | 7.7 | 54 |
| 15 | Tuning the optical nonlinearity of graphene. Journal of Chemical Physics, 2020, 153, 080903. | 1.2 | 12 |
| 16 | Transmissionâ€Type Optical Modulator Based on Graphene Plasmonic Resonator Integrated with Offâ€Resonant Au Structure. Advanced Optical Materials, 2020, 8, 2000264. | 3.6 | 12 |
| 17 | Programmable transition metal dichalcogenide homojunctions controlled by nonvolatile ferroelectric domains. Nature Electronics, 2020, 3, 43-50. | 13.1 | 167 |
| 18 | Excitation Enhancement of Hot Electrons by Ultrafast Optical Pumping in Heavily <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" overflow="scroll"><mml:mi>p</mml:mi> -Doped Graphene Stacks. Physical Review Applied, 2020, 14, .</mml:math | 1.5 | 5 |

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|----|---|------|-----------|
| 19 | Bond additivity model for anisotropic second-harmonic generation from two-dimensional honeycomb lattices. Optics Letters, 2020, 45, 268. | 1.7 | 4 |
| 20 | Giant nonreciprocal second-harmonic generation from antiferromagnetic bilayer Crl3. Nature, 2019, 572, 497-501. | 13.7 | 309 |
| 21 | Doping-Induced Second-Harmonic Generation in Centrosymmetric Graphene from Quadrupole Response. Physical Review Letters, 2019, 122, 047401. | 2.9 | 64 |
| 22 | Epitaxial growth of a 100-square-centimetre single-crystal hexagonal boron nitride monolayer on copper. Nature, 2019, 570, 91-95. | 13.7 | 422 |
| 23 | Pressure ontrolled Structural Symmetry Transition in Layered InSe. Laser and Photonics Reviews, 2019, 13, 1900012. | 4.4 | 13 |
| 24 | Hexagonal Boron Nitride Growth on Cuâ€ s i Alloy: Morphologies and Large Domains. Small, 2019, 15, e1805188. | 5.2 | 24 |
| 25 | Universal Imaging of Full Strain Tensor in 2D Crystals with Thirdâ€Harmonic Generation. Advanced Materials, 2019, 31, e1808160. | 11.1 | 32 |
| 26 | Direct observation of van der Waals stacking–dependent interlayer magnetism. Science, 2019, 366, 983-987. | 6.0 | 377 |
| 27 | Intraband divergences in third order optical response of 2D systems. APL Photonics, 2019, 4, . | 3.0 | 14 |
| 28 | Chiral selection rules for multi-photon processes in two-dimensional honeycomb materials. Optics Letters, 2019, 44, 2141. | 1.7 | 19 |
| 29 | A Photoelectric-Stimulated MoS ₂ Transistor for Neuromorphic Engineering. Research, 2019, 2019, 1618798. | 2.8 | 27 |
| 30 | Graphene Plasmonic Resonances: Dynamical Tuning of Graphene Plasmonic Resonances byÂUltraviolet Illuminations (Advanced Optical Materials 6/2018). Advanced Optical Materials, 2018, 6, 1870023. | 3.6 | 1 |
| 31 | Dynamical Tuning of Graphene Plasmonic Resonances byÂUltraviolet Illuminations. Advanced Optical Materials, 2018, 6, 1701081. | 3.6 | 14 |
| 32 | Probing Phonon Dynamics in Individual Single-Walled Carbon Nanotubes. Nano Letters, 2018, 18, 2590-2594. | 4.5 | 2 |
| 33 | Gate Switching of Ultrafast Photoluminescence in Graphene. Nano Letters, 2018, 18, 7985-7990. | 4.5 | 23 |
| 34 | Analysis of the relationship between the contact barrier and rectification ratio in a two-dimensional P–N heterojunction. Semiconductor Science and Technology, 2018, 33, 114012. | 1.0 | 8 |
| 35 | Highâ€Performance Wafer‣cale MoS ₂ Transistors toward Practical Application. Small, 2018, 14, e1803465. | 5.2 | 88 |
| 36 | Gate-tunable room-temperature ferromagnetism in two-dimensional Fe3GeTe2. Nature, 2018, 563, 94-99. | 13.7 | 1,646 |

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|----|---|---|----------------|
| 37 | Lasing from lead halide perovskite semiconductor microcavity system. Nanoscale, 2018, 10, 10371-10376. | 2.8 | 26 |
| 38 | Gate-tunable third-order nonlinear optical response of massless Dirac fermions in graphene. Nature Photonics, 2018, 12, 430-436. | 15.6 | 194 |
| 39 | Stacking symmetry governed second harmonic generation in graphene trilayers. Science Advances, 2018, 4, eaat0074. | 4.7 | 75 |
| 40 | Strong coupling between Tamm plasmon polariton and two dimensional semiconductor excitons. Applied Physics Letters, 2017, 110, . | 1.5 | 51 |
| 41 | Chemical and Bandgap Engineering in Monolayer Hexagonal Boron Nitride. Scientific Reports, 2017, 7, 45584. | 1.6 | 73 |
| 42 | Defect Structure of Localized Excitons in a <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>WSe</mml:mi></mml:mrow><mml:mn>2Monolayer. Physical Review Letters, 2017, 119, 046101.</mml:mn></mml:msub></mml:mrow></mml:math | nl <mark>219</mark> n> <td>nml:msub><!--</td--></td> | nml:msub> </td |
| 43 | Controlled growth of six-point stars MoS ₂ by chemical vapor deposition and its shape evolution mechanism. Nanotechnology, 2017, 28, 395601. | 1.3 | 21 |
| 44 | Screening effect of graphite and bilayer graphene on excitons in MoSe ₂ monolayer. 2D Materials, 2017, 4, 015021. | 2.0 | 15 |
| 45 | Enhanced light-matter interactions in graphene-covered dielectric magnetic mirrors. Optics Express, 2017, 25, 30754. | 1.7 | 15 |
| 46 | A cryogen-free low temperature scanning tunneling microscope capable of inelastic electron tunneling spectroscopy. Review of Scientific Instruments, 2016, 87, 063701. | 0.6 | 15 |
| 47 | High-quality infrared imaging with graphene photodetectors at room temperature. Nanoscale, 2016, 8, 16065-16072. | 2.8 | 47 |
| 48 | Molybdenum Disulfide: Kinetic Nature of Grain Boundary Formation in As-Grown MoS2 Monolayers (Adv. Mater. 27/2015). Advanced Materials, 2015, 27, 3974-3974. | 11.1 | 4 |
| 49 | Au Nanoarrays: Surface Plasmon-Enhanced Photodetection in Few Layer MoS2Phototransistors with Au Nanostructure Arrays (Small 20/2015). Small, 2015, 11, 2346-2346. | 5.2 | 3 |
| 50 | Kinetic Nature of Grain Boundary Formation in Asâ€Grown MoS ₂ Monolayers. Advanced Materials, 2015, 27, 4069-4074. | 11.1 | 130 |
| 51 | Surface Plasmonâ€Enhanced Photodetection in Few Layer MoS ₂ Phototransistors with Au Nanostructure Arrays. Small, 2015, 11, 2392-2398. | 5.2 | 359 |
| 52 | Photodetectors: High-Responsivity Graphene/InAs Nanowire Heterojunction Near-Infrared Photodetectors with Distinct Photocurrent On/Off Ratios (Small 8/2015). Small, 2015, 11, 890-890. | 5.2 | 2 |
| 53 | Strong Second-Harmonic Generation in Atomic Layered GaSe. Journal of the American Chemical Society, 2015, 137, 7994-7997. | 6.6 | 273 |
| 54 | High-Responsivity Graphene/InAs Nanowire Heterojunction Near-Infrared Photodetectors with Distinct Photocurrent On/Off Ratios. Small, 2015, 11, 936-942. | 5.2 | 166 |

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| 55 | Nanowires: Anomalous and Highly Efficient InAs Nanowire Phototransistors Based on Majority Carrier Transport at Room Temperature (Adv. Mater. 48/2014). Advanced Materials, 2014, 26, 8232-8232. | 11.1 | 9 |
| 56 | Anomalous and Highly Efficient InAs Nanowire Phototransistors Based on Majority Carrier Transport at Room Temperature. Advanced Materials, 2014, 26, 8203-8209. | 11.1 | 168 |
| 57 | Valley and band structure engineering of folded MoS2 bilayers. Nature Nanotechnology, 2014, 9, 825-829. | 15.6 | 267 |
| 58 | Hot Phonon Dynamics in Graphene. Nano Letters, 2012, 12, 5495-5499. | 4.5 | 66 |
| 59 | Two-photon-induced hot-electron transfer to a single molecule in a scanning tunneling microscope. Physical Review B, 2010, 82, . | 1.1 | 56 |
| 60 | Formation of Bandgap and Subbands in Graphene Nanomeshes with Sub-10 nm Ribbon Width Fabricated via Nanoimprint Lithography. Nano Letters, 2010, 10, 2454-2460. | 4.5 | 302 |
| 61 | Nonlinear broadband photoluminescence of graphene induced by femtosecond laser irradiation. Physical Review B, 2010, 82, . | 1.1 | 108 |
| 62 | Non-blinking and photostable upconverted luminescence from single lanthanide-doped nanocrystals. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10917-10921. | 3.3 | 626 |
| 63 | Manipulating Nanoscale Light Fields with the Asymmetric Bowtie Nano-Colorsorter. Nano Letters, 2009, 9, 4505-4509. | 4.5 | 112 |
| 64 | Intramolecular photon emission from a single molecule in a scanning tunneling microscope. Physical Review B, 2008, 77, . | 1.1 | 99 |
| 65 | Conductance Hysteresis and Switching in a Single-Molecule Junction. Journal of Physical Chemistry C, 2008, 112, 5241-5244. | 1.5 | 77 |
| 66 | Atomic-Scale Coupling of Photons to Single-Molecule Junctions. Science, 2006, 312, 1362-1365. | 6.0 | 189 |
| 67 | Tunneling rates in electron transport through double-barrier molecular junctions in a scanning tunneling microscope. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8832-8837. | 3.3 | 89 |
| 68 | Control of Relative Tunneling Rates in Single Molecule Bipolar Electron Transport. Physical Review Letters, 2004, 93, 236802. | 2.9 | 204 |