

List of Publications by Year in
Descending Order

Source: <https://exaly.com/author-pdf/7789294/jie-shan-publications-by-year.pdf>

Version: 2024-04-09

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.

| | | | |
|-------------------|--------------------------|-----------------|-----------------|
| 74 papers | 23,536 citations | 35 h-index | 88 g-index |
| 88 ext. papers | 28,243 ext. citations | 19.9 avg, IF | 7.53 L-index |

| # | Paper | IF | Citations |
|----|---|-------|-----------|
| 74 | Strong interlayer interactions in bilayer and trilayer moiré superlattices.. <i>Science Advances</i> , 2022 , 8, eabk19413 | 19.1 | 1 |
| 73 | Quantum anomalous Hall effect from intertwined moiré bands.. <i>Nature</i> , 2021 , 600, 641-646 | 50.4 | 18 |
| 72 | Coexisting ferromagnetic-antiferromagnetic state in twisted bilayer CrI ₃ . <i>Nature Nanotechnology</i> , 2021 , | 28.7 | 14 |
| 71 | Excitons and emergent quantum phenomena in stacked 2D semiconductors. <i>Nature</i> , 2021 , 599, 383-392 | 50.4 | 24 |
| 70 | Air-Stable and Layer-Dependent Ferromagnetism in Atomically Thin van der Waals CrPS. <i>ACS Nano</i> , 2021 , 15, 16904-16912 | 16.7 | 6 |
| 69 | Strongly correlated excitonic insulator in atomic double layers. <i>Nature</i> , 2021 , 598, 585-589 | 50.4 | 18 |
| 68 | Tunable Exciton-Optomechanical Coupling in Suspended Monolayer MoSe ₂ . <i>Nano Letters</i> , 2021 , 21, 2538-2543 | 25.3 | 7 |
| 67 | Stripe phases in WSe ₂ /WS ₂ moiré superlattices. <i>Nature Materials</i> , 2021 , 20, 940-944 | 27 | 41 |
| 66 | Two-fold symmetric superconductivity in few-layer NbSe ₂ . <i>Nature Physics</i> , 2021 , 17, 949-954 | 16.2 | 14 |
| 65 | Spin Dynamics Slowdown near the Antiferromagnetic Critical Point in Atomically Thin FePS ₂ . <i>Nano Letters</i> , 2021 , 21, 5045-5052 | 11.5 | 3 |
| 64 | Tuning layer-hybridized moiré excitons by the quantum-confined Stark effect. <i>Nature Nanotechnology</i> , 2021 , 16, 52-57 | 28.7 | 18 |
| 63 | Charge-order-enhanced capacitance in semiconductor moiré superlattices. <i>Nature Nanotechnology</i> , 2021 , 16, 1068-1072 | 28.7 | 9 |
| 62 | Continuous Mott transition in semiconductor moiré superlattices. <i>Nature</i> , 2021 , 597, 350-354 | 50.4 | 29 |
| 61 | Creation of moiré bands in a monolayer semiconductor by spatially periodic dielectric screening. <i>Nature Materials</i> , 2021 , 20, 645-649 | 27 | 15 |
| 60 | Quantum Oscillations in Two-Dimensional Insulators Induced by Graphite Gates.. <i>Physical Review Letters</i> , 2021 , 127, 247702 | 7.4 | 4 |
| 59 | Gate-tunable spin waves in antiferromagnetic atomic bilayers. <i>Nature Materials</i> , 2020 , 19, 838-842 | 27 | 35 |
| 58 | Imaging and control of critical fluctuations in two-dimensional magnets. <i>Nature Materials</i> , 2020 , 19, 1290-1294 | 29.13 | 13 |

| | | | |
|----|--|------|-----|
| 57 | Simulation of Hubbard model physics in WSe/WS moiré superlattices. <i>Nature</i> , 2020 , 579, 353-358 | 50.4 | 195 |
| 56 | Exchange magnetostriction in two-dimensional antiferromagnets. <i>Nature Materials</i> , 2020 , 19, 1295-1299 | 27 | 31 |
| 55 | Memristive Switching: Magneto-Memristive Switching in a 2D Layer Antiferromagnet (Adv. Mater. 2/2020). <i>Advanced Materials</i> , 2020 , 32, 2070010 | | 24 |
| 54 | Electrical switching of valley polarization in monolayer semiconductors. <i>Physical Review Materials</i> , 2020 , 4, | 3.2 | 7 |
| 53 | Correlated insulating states at fractional fillings of moiré superlattices. <i>Nature</i> , 2020 , 587, 214-218 | 50.4 | 82 |
| 52 | Strain relaxation induced transverse resistivity anomalies in SrRuO ₃ thin films. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 12 |
| 51 | Spectral and spatial isolation of single tungsten diselenide quantum emitters using hexagonal boron nitride wrinkles. <i>APL Photonics</i> , 2020 , 5, 096105 | 5.2 | 0 |
| 50 | Observation of site-controlled localized charged excitons in CrI/WSe heterostructures. <i>Nature Communications</i> , 2020 , 11, 5502 | 17.4 | 6 |
| 49 | Manipulation of the van der Waals Magnet CrGeTe by Spin-Orbit Torques. <i>Nano Letters</i> , 2020 , 20, 7482-7488 | 14.9 | 16 |
| 48 | Magneto-Memristive Switching in a 2D Layer Antiferromagnet. <i>Advanced Materials</i> , 2020 , 32, e1905433 | 24 | 12 |
| 47 | Long valley lifetime of dark excitons in single-layer WSe. <i>Nature Communications</i> , 2019 , 10, 4047 | 17.4 | 27 |
| 46 | Probing and controlling magnetic states in 2D layered magnetic materials. <i>Nature Reviews Physics</i> , 2019 , 1, 646-661 | 23.6 | 129 |
| 45 | Probing many-body interactions in monolayer transition-metal dichalcogenides. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 34 |
| 44 | Evolution of interlayer and intralayer magnetism in three atomically thin chromium trihalides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 11131-11136 | 11.5 | 120 |
| 43 | Spin tunnel field-effect transistors based on two-dimensional van der Waals heterostructures. <i>Nature Electronics</i> , 2019 , 2, 159-163 | 28.4 | 99 |
| 42 | Nonlinear anomalous Hall effect in few-layer WTe. <i>Nature Materials</i> , 2019 , 18, 324-328 | 27 | 117 |
| 41 | Layer-dependent spin-orbit torques generated by the centrosymmetric transition metal dichalcogenide MoTe ₂ . <i>Physical Review B</i> , 2019 , 100, | 3.3 | 36 |
| 40 | Pressure-controlled interlayer magnetism in atomically thin CrI. <i>Nature Materials</i> , 2019 , 18, 1303-1308 | 27 | 178 |

| | | | |
|----|---|------|------|
| 39 | Evidence of high-temperature exciton condensation in two-dimensional atomic double layers. <i>Nature</i> , 2019 , 574, 76-80 | 50.4 | 162 |
| 38 | Valley-Selective Exciton Bistability in a Suspended Monolayer Semiconductor. <i>Nano Letters</i> , 2018 , 18, 3213-3220 | 11.5 | 9 |
| 37 | Strongly Interaction-Enhanced Valley Magnetic Response in Monolayer WSe ₂ . <i>Physical Review Letters</i> , 2018 , 120, 066402 | 7.4 | 30 |
| 36 | An unusual continuous paramagnetic-limited superconducting phase transition in 2D NbSe. <i>Nature Materials</i> , 2018 , 17, 504-508 | 27 | 58 |
| 35 | Electrically tunable single- and few-layer MoS nanoelectromechanical systems with broad dynamic range. <i>Science Advances</i> , 2018 , 4, eaao6653 | 14.3 | 67 |
| 34 | Electric-field switching of two-dimensional van der Waals magnets. <i>Nature Materials</i> , 2018 , 17, 406-410 | 27 | 431 |
| 33 | Light-Valley interactions in 2D semiconductors. <i>Nature Photonics</i> , 2018 , 12, 451-460 | 33.9 | 187 |
| 32 | Controlling magnetism in 2D CrI by electrostatic doping. <i>Nature Nanotechnology</i> , 2018 , 13, 549-553 | 28.7 | 525 |
| 31 | Electrical Tuning of Interlayer Exciton Gases in WSe Bilayers. <i>Nano Letters</i> , 2018 , 18, 137-143 | 11.5 | 67 |
| 30 | Opportunities and challenges of interlayer exciton control and manipulation. <i>Nature Nanotechnology</i> , 2018 , 13, 974-976 | 28.7 | 36 |
| 29 | Probing the Spin-Polarized Electronic Band Structure in Monolayer Transition Metal Dichalcogenides by Optical Spectroscopy. <i>Nano Letters</i> , 2017 , 17, 740-746 | 11.5 | 80 |
| 28 | Vapor-Liquid-Solid synthesis of ZnSnN ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2017 , 254, 1600718 | 1.3 | 8 |
| 27 | Valley magnetoelectricity in single-layer MoS. <i>Nature Materials</i> , 2017 , 16, 887-891 | 27 | 101 |
| 26 | Valley- and spin-polarized Landau levels in monolayer WSe. <i>Nature Nanotechnology</i> , 2017 , 12, 144-149 | 28.7 | 121 |
| 25 | Gate Tuning of Electronic Phase Transitions in Two-Dimensional NbSe ₂ . <i>Physical Review Letters</i> , 2016 , 117, 106801 | 7.4 | 105 |
| 24 | Electrical control of the valley Hall effect in bilayer MoS ₂ transistors. <i>Nature Nanotechnology</i> , 2016 , 11, 421-5 | 28.7 | 246 |
| 23 | Ising pairing in superconducting NbSe ₂ atomic layers. <i>Nature Physics</i> , 2016 , 12, 139-143 | 16.2 | 534 |
| 22 | Photonics and optoelectronics of 2D semiconductor transition metal dichalcogenides. <i>Nature Photonics</i> , 2016 , 10, 216-226 | 33.9 | 1997 |

| | | | |
|----|--|------|-------|
| 21 | NaSnAs: An Exfoliatable Layered van der Waals Zintl Phase. <i>ACS Nano</i> , 2016 , 10, 9500-9508 | 16.7 | 33 |
| 20 | Strongly enhanced charge-density-wave order in monolayer NbSe ₂ . <i>Nature Nanotechnology</i> , 2015 , 10, 765-9 | 28.7 | 474 |
| 19 | Effect of Surface States on Terahertz Emission from the Bi ₂ Se ₃ Surface. <i>Scientific Reports</i> , 2015 , 5, 10308 | 4.9 | 30 |
| 18 | Charge-neutral disorder and polytypes in heterovalent wurtzite-based ternary semiconductors: The importance of the octet rule. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 76 |
| 17 | Embracing structural nonidealities and asymmetries in two-dimensional nanomechanical resonators. <i>Scientific Reports</i> , 2014 , 4, 3919 | 4.9 | 29 |
| 16 | Tightly bound excitons in monolayer WSe ₂ . <i>Physical Review Letters</i> , 2014 , 113, 026803 | 7.4 | 762 |
| 15 | Tuning Many-Body Interactions in Graphene: The Effects of Doping on Excitons and Carrier Lifetimes. <i>Physical Review Letters</i> , 2014 , 112, | 7.4 | 57 |
| 14 | Size dependence of two-photon absorption in semiconductor quantum dots. <i>Journal of Applied Physics</i> , 2013 , 114, 014301 | 2.5 | 26 |
| 13 | Tightly bound trions in monolayer MoS ₂ . <i>Nature Materials</i> , 2013 , 12, 207-11 | 27 | 1878 |
| 12 | Orientation of luminescent excitons in layered nanomaterials. <i>Nature Nanotechnology</i> , 2013 , 8, 271-6 | 28.7 | 195 |
| 11 | Experimental demonstration of continuous electronic structure tuning via strain in atomically thin MoS ₂ . <i>Nano Letters</i> , 2013 , 13, 2931-6 | 11.5 | 675 |
| 10 | Synthesis, lattice structure, and band gap of ZnSnN ₂ . <i>MRS Communications</i> , 2013 , 3, 135-138 | 2.7 | 89 |
| 9 | Effect of Cation Sublattice Ordering on Structure and Raman Scattering of ZnGeN ₂ . <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1493, 237-242 | | 7 |
| 8 | Optical Data Storage: Roll-to-Roll Fabrication of Multilayer Films for High Capacity Optical Data Storage (Adv. Mater. 38/2012). <i>Advanced Materials</i> , 2012 , 24, 5146-5146 | 24 | |
| 7 | Control of valley polarization in monolayer MoS ₂ by optical helicity. <i>Nature Nanotechnology</i> , 2012 , 7, 494-8 | 28.7 | 2670 |
| 6 | Atomically thin MoS ₂ a new direct-gap semiconductor. <i>Physical Review Letters</i> , 2010 , 105, 136805 | 7.4 | 10306 |
| 5 | Circularly polarized light in the single-cycle limit: The nature of highly polychromatic radiation of defined polarization. <i>Optics Express</i> , 2009 , 17, 7431-9 | 3.3 | 28 |
| 4 | Terahertz Photonic Crystals Based on Barium Titanate/Polymer Nanocomposites. <i>Advanced Materials</i> , 2008 , 20, 3649-3653 | 24 | 36 |

- 3 Terahertz Electric Polarizability of Excitons in PbSe and CdSe Quantum Dots. *Journal of Physical Chemistry C*, **2007**, 111, 5904-5908 3.8 19
- 2 Emergence of a noncollinear magnetic state in twisted bilayer CrI₃ 4
- 1 Dipolar excitonic insulator in a moiré lattice. *Nature Physics*, 16.2 2