

Jingzhi Shang

List of Publications by Year in descending order

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46
papers

5,678
citations

218677

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233421

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all docs

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docs citations

46
times ranked

10083
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Observation of Bragg polaritons in monolayer tungsten disulphide. Nano Research, 2022, 15, 1479-1485. | 10.4 | 5 |
| 2 | Defect suppression and energy level alignment in formamidinium-based perovskite solar cells. Journal of Energy Chemistry, 2022, 67, 65-72. | 12.9 | 19 |
| 3 | Deterministic and Scalable Generation of Exciton Emitters in 2D Semiconductor Nanodisks. Advanced Optical Materials, 2022, 10, . | 7.3 | 3 |
| 4 | White-Light Driven Resonant Emission from a Monolayer Semiconductor. Advanced Materials, 2022, , 2103527. | 21.0 | 2 |
| 5 | Localization of Laterally Confined Modes in a 2D Semiconductor Microcavity. ACS Nano, 2022, 16, 4940-4946. | 14.6 | 1 |
| 6 | Monolayer tungsten disulfide in photonic environment: Angle-resolved weak and strong light-matter coupling. Nano Research, 2022, 15, 5619-5625. | 10.4 | 5 |
| 7 | Raman scattering investigation of twisted WS ₂ /MoS ₂ heterostructures: interlayer mechanical coupling versus charge transfer. Nano Research, 2021, 14, 2215-2223. | 10.4 | 29 |
| 8 | Ultrastable FeCo Bifunctional Electrocatalyst on Se-Doped CNTs for Liquid and Flexible All-Solid-State Rechargeable Zn-Air Batteries. Nano Letters, 2021, 21, 2255-2264. | 9.1 | 120 |
| 9 | Observation of Strong Valley Magnetic Response in Monolayer Transition Metal Dichalcogenide Alloys of Mo _{0.5} W _{0.5} Se ₂ and Mo _{0.5} W _{0.5} Se ₂ /WS ₂ Heterostructures. ACS Nano, 2021, 15, 8397-8406. | 14.6 | 8 |
| 10 | Continuous-Wave Vertical Cavity Surface-Emitting Lasers based on Single Crystalline Lead Halide Perovskites. Advanced Optical Materials, 2021, 9, 2001982. | 7.3 | 16 |
| 11 | Room-temperature continuous-wave vertical-cavity surface-emitting lasers based on 2D layered organic-inorganic hybrid perovskites. APL Materials, 2021, 9, 071106. | 5.1 | 21 |
| 12 | Spatial variations of valley splitting in monolayer transition metal dichalcogenide. Informa Materials, 2020, 2, 585-592. | 17.3 | 5 |
| 13 | Optical characterization of two-dimensional semiconductors. , 2020, , 135-166. | | 1 |
| 14 | Visualizing the Anomalous Charge Density Wave States in Graphene/NbSe ₂ Heterostructures. Advanced Materials, 2020, 32, e2003746. | 21.0 | 23 |
| 15 | Direct Photoluminescence Probing of Ferromagnetism in Monolayer Two-Dimensional CrBr ₃ . Nano Letters, 2019, 19, 3138-3142. | 9.1 | 265 |
| 16 | Engineering Valley Polarization of Monolayer WS ₂ : A Physical Doping Approach. Small, 2019, 15, e1805503. | 10.0 | 62 |
| 17 | In-Plane Anisotropic Thermal Conductivity of Few-Layered Transition Metal Dichalcogenide Td-WTe ₂ . Advanced Materials, 2019, 31, e1804979. | 21.0 | 45 |
| 18 | Light Sources and Photodetectors Enabled by 2D Semiconductors. Small Methods, 2018, 2, 1800019. | 8.6 | 35 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Tunable excitonic emission of monolayer WS ₂ for the optical detection of DNA nucleobases. Nano Research, 2018, 11, 1744-1754. | 10.4 | 20 |
| 20 | Optical Properties of 2D Semiconductor WS ₂ . Advanced Optical Materials, 2018, 6, 1700767. | 7.3 | 265 |
| 21 | Intrinsic excitonic emission and valley Zeeman splitting in epitaxial MS ₂ (M = Mo and W) monolayers on hexagonal boron nitride. Nano Research, 2018, 11, 6227-6236. | 10.4 | 8 |
| 22 | Probing magnetic-proximity-effect enlarged valley splitting in monolayer WSe ₂ by photoluminescence. Nano Research, 2018, 11, 6252-6259. | 10.4 | 20 |
| 23 | Anti-Stokes Photoluminescence of van der Waals Layered Semiconductor Pbl ₂ . Advanced Optical Materials, 2017, 5, 1700609. | 7.3 | 20 |
| 24 | Room-temperature 2D semiconductor activated vertical-cavity surface-emitting lasers. Nature Communications, 2017, 8, 543. | 12.8 | 102 |
| 25 | Revealing electronic nature of broad bound exciton bands in two-dimensional semiconducting W ₂ S ₃ and | 2.4 | 19 |
| 26 | Electrically Tunable Valley-Light Emitting Diode (vLED) Based on CVD-Grown Monolayer WS ₂ . Nano Letters, 2016, 16, 1560-1567. | 9.1 | 175 |
| 27 | Graphene-Gold Metasurface Architectures for Ultrasensitive Plasmonic Biosensing. Advanced Materials, 2015, 27, 6163-6169. | 21.0 | 262 |
| 28 | Observation of Excitonic Fine Structure in a 2D Transition-Metal Dichalcogenide Semiconductor. ACS Nano, 2015, 9, 647-655. | 14.6 | 288 |
| 29 | Dichroic spin-valley photocurrent in monolayer molybdenum disulphide. Nature Communications, 2015, 6, 7636. | 12.8 | 128 |
| 30 | Strain-induced direct-indirect bandgap transition and phonon modulation in monolayer WS ₂ . Nano Research, 2015, 8, 2562-2572. | 10.4 | 323 |
| 31 | Thermal conductivity determination of suspended mono- and bilayer WS ₂ by Raman spectroscopy. Nano Research, 2015, 8, 1210-1221. | 10.4 | 280 |
| 32 | Synthesis and Optical Properties of Large-Area Single-Crystalline 2D Semiconductor WS ₂ Monolayer from Chemical Vapor Deposition. Advanced Optical Materials, 2014, 2, 131-136. | 7.3 | 513 |
| 33 | Microwave-assisted solvothermal preparation of nitrogen and sulfur co-doped reduced graphene oxide and graphene quantum dots hybrids for highly efficient oxygen reduction. Journal of Materials Chemistry A, 2014, 2, 20605-20611. | 10.3 | 76 |
| 34 | Low temperature photoresponse of monolayer tungsten disulphide. APL Materials, 2014, 2, . | 5.1 | 10 |
| 35 | Chemically Driven Tunable Light Emission of Charged and Neutral Excitons in Monolayer WS ₂ . ACS Nano, 2014, 8, 11320-11329. | 14.6 | 236 |
| 36 | Observation of low-wavenumber out-of-plane optical phonon in few-layer graphene. Journal of Raman Spectroscopy, 2013, 44, 70-74. | 2.5 | 9 |

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|----|---|------|-----------|
| 37 | Nonblinking, Intense Two-Dimensional Light Emitter: Monolayer WS ₂ Triangles. ACS Nano, 2013, 7, 10985-10994. | 14.6 | 281 |
| 38 | Photocontrolled Molecular Structural Transition and Doping in Graphene. ACS Nano, 2012, 6, 8878-8886. | 14.6 | 58 |
| 39 | The Origin of Fluorescence from Graphene Oxide. Scientific Reports, 2012, 2, 792. | 3.3 | 505 |
| 40 | Thickness-dependent azobenzene doping in mono- and few-layer graphene. Carbon, 2012, 50, 201-208. | 10.3 | 44 |
| 41 | Ultrafast Electron-Optical Phonon Scattering and Quasiparticle Lifetime in CVD-Grown Graphene. ACS Nano, 2011, 5, 3278-3283. | 14.6 | 63 |
| 42 | Raman Characterization of ABA- and ABC-Stacked Trilayer Graphene. ACS Nano, 2011, 5, 8760-8768. | 14.6 | 184 |
| 43 | Pyridinic N doped graphene: synthesis, electronic structure, and electrocatalytic property. Journal of Materials Chemistry, 2011, 21, 8038. | 6.7 | 896 |
| 44 | Large-Scale Synthesis of Bilayer Graphene in Strongly Coupled Stacking Order. Advanced Functional Materials, 2011, 21, 911-917. | 14.9 | 90 |
| 45 | Femtosecond UV-pump/visible-probe measurements of carrier dynamics in stacked graphene films. Applied Physics Letters, 2010, 97, 163103. | 3.3 | 56 |
| 46 | Modulating the electronic structures of graphene by controllable hydrogenation. Applied Physics Letters, 2010, 97, . | 3.3 | 82 |