# Shisheng Li

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2060587/publications.pdf

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|---|---|---|---|
| 62 papers | 3,358 citations | 172443 29 h-index | 144002 57 g-index |
| 63 all docs | 63 docs citations | 63 times ranked | 5581 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Halide-assisted atmospheric pressure growth of large WSe2 and WS2 monolayer crystals. Applied Materials Today, 2015, 1, 60-66. | 4.3 | 372 |
| 2 | Vertically Aligned Carbon Nanotubes Grown on Graphene Paper as Electrodes in Lithiumâ€Ion Batteries and Dyeâ€Sensitized Solar Cells. Advanced Energy Materials, 2011, 1, 486-490. | 19.5 | 309 |
| 3 | Vapourâ€“liquidâ€“solid growth of monolayer MoS2 nanoribbons. Nature Materials, 2018, 17, 535-542. | 27.5 | 286 |
| 4 | Metal-Catalyst-Free Growth of Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2009, 131, 2082-2083. | 13.7 | 258 |
| 5 | Discovery of a new type of topological Weyl fermion semimetal state in MoxW1â^'xTe2. Nature Communications, 2016, 7, 13643. | 12.8 | 163 |
| 6 | Bulk Synthesis of Large Diameter Semiconducting Single-Walled Carbon Nanotubes by Oxygen-Assisted Floating Catalyst Chemical Vapor Deposition. Journal of the American Chemical Society, 2011, 133, 5232-5235. | 13.7 | 134 |
| 7 | Rapid visualization of grain boundaries in monolayer MoS2 by multiphoton microscopy. Nature Communications, 2017, 8, 15714. | 12.8 | 120 |
| 8 | Excitonâ€“Plasmon Coupling and Electromagnetically Induced Transparency in Monolayer Semiconductors Hybridized with Ag Nanoparticles. Advanced Materials, 2016, 28, 2709-2715. | 21.0 | 115 |
| 9 | Surface and Interference Coenhanced Raman Scattering of Graphene. ACS Nano, 2009, 3, 933-939. | 14.6 | 87 |
| 10 | Growth Velocity and Direct Length-Sorted Growth of Short Single-Walled Carbon Nanotubes by a Metal-Catalyst-Free Chemical Vapor Deposition Process. ACS Nano, 2009, 3, 3421-3430. | 14.6 | 76 |
| 11 | Wafer-scale and deterministic patterned growth of monolayer MoS<sub>2</sub>via vaporâ€“liquidâ€“solid method. Nanoscale, 2019, 11, 16122-16129. | 5.6 | 76 |
| 12 | High temperature selective growth of single-walled carbon nanotubes with a narrow chirality distribution from a CoPt bimetallic catalyst. Chemical Communications, 2012, 48, 2409. | 4.1 | 75 |
| 13 | Synthesis and Transport Properties of Degenerate P-Type Nb-Doped WS<sub>2</sub> Monolayers. Chemistry of Materials, 2019, 31, 3534-3541. | 6.7 | 71 |
| 14 | Structure, Preparation, and Applications of 2D Materialâ€Based Metalâ€“Semiconductor Heterostructures. Small Structures, 2021, 2, 2000093. | 12.0 | 71 |
| 15 | Revealing the Atomic Defects of WS<sub>2</sub> Governing Its Distinct Optical Emissions. Advanced Functional Materials, 2018, 28, 1704210. | 14.9 | 69 |
| 16 | Tunable Doping of Rhenium and Vanadium into Transition Metal Dichalcogenides for Twoâ€Dimensional Electronics. Advanced Science, 2021, 8, e2004438. | 11.2 | 66 |
| 17 | Two-dimensional alloyed transition metal dichalcogenide nanosheets: Synthesis and applications. Chinese Chemical Letters, 2022, 33, 163-176. | 9.0 | 63 |
| 18 | Two-step fabrication of single-layer rectangular SnSe flakes. 2D Materials, 2017, 4, 021026. | 4.4 | 57 |

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|---|---|---|---|
| 19 | Improving carrier mobility in two-dimensional semiconductors with rippled materials. Nature Electronics, 2022, 5, 489-496. | 26.0 | 52 |
| 20 | Shape-Engineered Synthesis of Atomically Thin 1T-SnS<sub>2</sub> Catalyzed by Potassium Halides. ACS Nano, 2019, 13, 8265-8274. | 14.6 | 51 |
| 21 | Determination of Crystal Axes in Semimetallic Tâ€²â€MoTe<sub>2</sub> by Polarized Raman Spectroscopy. Advanced Functional Materials, 2017, 27, 1604799. | 14.9 | 47 |
| 22 | Templateâ€Assisted Synthesis of Metallic 1Tâ€²â€Sn<sub>0.3</sub>W<sub>0.7</sub>S<sub>2</sub> Nanosheets for Hydrogen Evolution Reaction. Advanced Functional Materials, 2020, 30, 1906069. | 14.9 | 47 |
| 23 | Growth of Large-Area Homogeneous Monolayer Transition-Metal Disulfides via a Molten Liquid Intermediate Process. ACS Applied Materials & Interfaces, 2020, 12, 13174-13181. | 8.0 | 46 |
| 24 | Abnormal Nearâ€Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. Advanced Materials, 2018, 30, e1801931. | 21.0 | 43 |
| 25 | Double-wall carbon nanotube transparent conductive films with excellent performance. Journal of Materials Chemistry A, 2014, 2, 1159-1164. | 10.3 | 42 |
| 26 | Manganese-Catalyzed Surface Growth of Single-Walled Carbon Nanotubes with High Efficiency. Journal of Physical Chemistry C, 2008, 112, 19231-19235. | 3.1 | 37 |
| 27 | Ultrafast transient sub-bandgap absorption of monolayer MoS2. Light: Science and Applications, 2021, 10, 27. | 16.6 | 32 |
| 28 | Ultrafast charge transfer dynamics pathways in two-dimensional MoS<sub>2</sub>â€“graphene heterostructures: a core-hole clock approach. Physical Chemistry Chemical Physics, 2017, 19, 29954-29962. | 2.8 | 31 |
| 29 | Defect Heterogeneity in Monolayer WS<sub>2</sub> Unveiled by Work Function Variance. Chemistry of Materials, 2019, 31, 7970-7978. | 6.7 | 31 |
| 30 | Seamlessly Splicing Metallic Sn<sub>x</sub>Mo<sub>1â”’</sub><sub>x</sub>S<sub>2</sub> at MoS<sub>2</sub> Edge for Enhanced Photoelectrocatalytic Performance in Microreactor. Advanced Science, 2020, 7, 2002172. | 11.2 | 30 |
| 31 | On/Off Boundary of Photocatalytic Activity between Single- and Bilayer MoS<sub>2</sub>. ACS Nano, 2020, 14, 6663-6672. | 14.6 | 29 |
| 32 | Enrichment of Semiconducting Single-Walled Carbon Nanotubes by Carbothermic Reaction for Use in All-Nanotube Field Effect Transistors. ACS Nano, 2012, 6, 9657-9661. | 14.6 | 27 |
| 33 | In Situ TEM Observations on the Sulfur-Assisted Catalytic Growth of Single-Wall Carbon Nanotubes. Journal of Physical Chemistry Letters, 2014, 5, 1427-1432. | 4.6 | 26 |
| 34 | Twist Angle-Dependent Optical Responses in Controllably Grown WS<sub>2</sub> Vertical Homojunctions. Chemistry of Materials, 2020, 32, 9721-9729. | 6.7 | 25 |
| 35 | Salt-assisted chemical vapor deposition of two-dimensional transition metal dichalcogenides. IScience, 2021, 24, 103229. | 4.1 | 24 |
| 36 | Na<sub>2</sub>SO<sub>4</sub>-Regulated High-Quality Growth of Transition Metal Dichalcogenides by Controlling Diffusion. Chemistry of Materials, 2020, 32, 5616-5625. | 6.7 | 23 |

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|---|---|---|---|
| 37 | Mixed-Salt Enhanced Chemical Vapor Deposition of Two-Dimensional Transition Metal Dichalcogenides. Chemistry of Materials, 2021, 33, 7301-7308. | 6.7 | 22 |
| 38 | Broadband Plasmon-Enhanced Four-Wave Mixing in Monolayer MoS<sub>2</sub>. Nano Letters, 2021, 21, 6321-6327. | 9.1 | 20 |
| 39 | Growth of double-walled carbon nanotubes from silicon oxide nanoparticles. Carbon, 2013, 56, 167-172. | 10.3 | 18 |
| 40 | Single-step chemical vapour deposition of anti-pyramid MoS<sub>2</sub>/WS<sub>2</sub> vertical heterostructures. Nanoscale, 2021, 13, 4537-4542. | 5.6 | 17 |
| 41 | Difference frequency generation in monolayer MoS<sub>2</sub>. Nanoscale, 2020, 12, 19638-19643. | 5.6 | 14 |
| 42 | Tunable Chemical Coupling in Two-Dimensional van der Waals Electrostatic Heterostructures. ACS Nano, 2019, 13, 11214-11223. | 14.6 | 13 |
| 43 | Formation of Highly Doped Nanostripes in 2D Transition Metal Dichalcogenides via a Dislocation Climb Mechanism. Advanced Materials, 2021, 33, e2007819. | 21.0 | 13 |
| 44 | Quantifying photoinduced carriers transport in excitonâ€“polariton coupling of MoS2 monolayers. Npj 2D Materials and Applications, 2021, 5, . | 7.9 | 12 |
| 45 | Wafer-scale single crystals: crystal growth mechanisms, fabrication methods, and functional applications. Journal of Materials Chemistry C, 2021, 9, 7829-7851. | 5.5 | 11 |
| 46 | Giant All-Optical Modulation of Second-Harmonic Generation Mediated by Dark Excitons. ACS Photonics, 2021, 8, 2320-2328. | 6.6 | 11 |
| 47 | Perspective on 2D material polaritons and innovative fabrication techniques. Applied Physics Letters, 2022, 120, . | 3.3 | 11 |
| 48 | Flaky nano-crystalline SnSe<sub>2</sub> thin films for photoelectrochemical current generation. RSC Advances, 2018, 8, 32157-32163. | 3.6 | 10 |
| 49 | Enhancing stability by tuning element ratio in 2D transition metal chalcogenides. Nano Research, 2021, 14, 1704-1710. | 10.4 | 10 |
| 50 | Probing Electronic States in Monolayer Semiconductors through Static and Transient Thirdâ€Harmonic Spectroscopies. Advanced Materials, 2022, 34, e2107104. | 21.0 | 10 |
| 51 | Wall-number selective growth of vertically aligned carbon nanotubes from FePt catalysts: a comparative study with Fe catalysts. Journal of Materials Chemistry, 2012, 22, 14149. | 6.7 | 9 |
| 52 | Growth of a cup-stacked carbon nanotube carpet with a superhydrophobic surface. New Carbon Materials, 2013, 28, 295-299. | 6.1 | 9 |
| 53 | Synthesis of high quality nitrogen-doped single-wall carbon nanotubes. Science China Materials, 2015, 58, 603-610. | 6.3 | 9 |
| 54 | Deterministic Modification of CVD Grown Monolayer MoS<sub>2</sub> with Optical Pulses. Advanced Materials Interfaces, 2021, 8, 2002119. | 3.7 | 6 |

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|---|---|---|---|
| 55 | Single-particle studies on plasmon enhanced photoluminescence of monolayer MoS2 by gold nanoparticles of different shapes. Journal of Chemical Physics, 2021, 155, 234201. | 3.0 | 6 |
| 56 | Molybdenum Disulfide/Doubleâ€Wall Carbon Nanotube Mixedâ€Dimensional Heterostructures. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 6 |
| 57 | Breakdown of metallic single-wall carbon nanotube paths by NiO nanoparticle point etching for high performance thin film transistors. Nanoscale, 2015, 7, 1280-1284. | 5.6 | 3 |
| 58 | Honeycomb-like single-wall carbon nanotube networks. Journal of Materials Chemistry A, 2014, 2, 3308-3311. | 10.3 | 2 |
| 59 | Strong coupling in a ID plasmonic-exciton hybrid systems. , 2020, , . | | 1 |
| 60 | Black Phosphorus: Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization (Adv. Mater. 43/2018). Advanced Materials, 2018, 30, 1870325. | 21.0 | 0 |
| 61 | Broadband Four-Wave Mixing Enhancement in 2D Transition-Metal Dichalcogenides Using Plasmonic Structures. , 2021, , . | | 0 |
| 62 | Observing grain boundaries in monolayer molybdenum disulphide by multiphoton microscopy. , 2015, , . | | 0 |