# Junfeng Dai

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 24 papers | 5,196 citations | 471371 17 h-index | 642610 23 g-index |
| 26 all docs | 26 docs citations | 26 times ranked | 9163 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Valley polarization in MoS2 monolayers by optical pumping. Nature Nanotechnology, 2012, 7, 490-493. | 15.6 | 3,036 |
| 2 | Optical signature of symmetry variations and spin-valley coupling in atomically thin tungsten dichalcogenides. Scientific Reports, 2013, 3, 1608. | 1.6 | 836 |
| 3 | Is Excess PbI<sub>2</sub> Beneficial for Perovskite Solar Cell Performance?. Advanced Energy Materials, 2016, 6, 1502206. | 10.2 | 322 |
| 4 | Anomalously robust valley polarization and valley coherence in bilayer WS <sub>2</sub>. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11606-11611. | 3.3 | 245 |
| 5 | Effects of Bithiophene Imide Fusion on the Device Performance of Organic Thinâ€Film Transistors and Allâ€Polymer Solar Cells. Angewandte Chemie - International Edition, 2017, 56, 15304-15308. | 7.2 | 152 |
| 6 | Defect Engineering in Single-Layer MoS<sub>2</sub> Using Heavy Ion Irradiation. ACS Applied Materials & Interfaces, 2018, 10, 42524-42533. | 4.0 | 138 |
| 7 | Unraveling the Raman Enhancement Mechanism on 1Tâ€²â€Phase ReS<sub>2</sub> Nanosheets. Small, 2018, 14, e1704079. | 5.2 | 87 |
| 8 | Triimideâ€Functionalized nâ€Type Polymer Semiconductors Enabling Allâ€Polymer Solar Cells with Power Conversion Efficiencies Approaching 9%. Solar Rrl, 2019, 3, 1900107. | 3.1 | 43 |
| 9 | Quinoxaline-Based Wide Band Gap Polymers for Efficient Nonfullerene Organic Solar Cells with Large Open-Circuit Voltages. ACS Applied Materials & Interfaces, 2018, 10, 23235-23246. | 4.0 | 39 |
| 10 | Photon-generated carriers excite superoxide species inducing long-term photoluminescence enhancement of MAPbI<sub>3</sub> perovskite single crystals. Journal of Materials Chemistry A, 2017, 5, 12048-12053. | 5.2 | 34 |
| 11 | Alkynyl-Functionalized Head-to-Head Linkage Containing Bithiophene as a Weak Donor Unit for High-Performance Polymer Semiconductors. Chemistry of Materials, 2017, 29, 4109-4121. | 3.2 | 32 |
| 12 | Defining the composition and electronic structure of large-scale and single-crystalline like Cs2AgBiBr6 films fabricated by capillary-assisted dip-coating method. Materials Today Energy, 2019, 12, 186-197. | 2.5 | 27 |
| 13 | The Study of Spinâ€Valley Coupling in Atomically Thin Group VI Transition Metal Dichalcogenides. Advanced Materials, 2014, 26, 5504-5507. | 11.1 | 26 |
| 14 | Second Harmonic Generation Covering the Entire Visible Range from a 2D Materialâ€“Plasmon Hybrid Metasurface. Advanced Optical Materials, 2021, 9, 2100625. | 3.6 | 22 |
| 15 | Measurements on quantum capacitance of individual single walled carbon nanotubes. Applied Physics Letters, 2009, 94, . | 1.5 | 19 |
| 16 | Pressure-driven switching of magnetism in layered CrCl<sub>3</sub>. Nanoscale, 2020, 12, 22935-22944. | 2.8 | 19 |
| 17 | Probing Ultrafast Dynamics of Ferroelectrics by Timeâ€Resolved Pumpâ€Probe Spectroscopy. Advanced Science, 2021, 8, e2102488. | 5.6 | 19 |
| 18 | Light-Induced Incandescence of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2008, 112, 4172-4175. | 1.5 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Magnetoelectric Photocurrent Generated by Direct Interband Transitions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>InGaAs</mml:mi><mml:mo>/</mml:mo><mml:mi>InAlAs</mml:mi></mml:math>Two-Dimensional Electron Gas. Physical Review Letters, 2010, 104, 246601. | 2.9 | 14 |
| 20 | Electronic Properties of Multilayer MoS<sub>2</sub> Field Effect Transistor with Unique Irradiation Resistance. Journal of Physical Chemistry C, 2021, 125, 2089-2096. | 1.5 | 13 |
| 21 | Determination of the sign of g factors for conduction electrons using time-resolved Kerr rotation. Applied Physics Letters, 2010, 96, 152109. | 1.5 | 10 |
| 22 | Quadratic magnetic field dependence of magnetoelectric photocurrent. Physical Review B, 2011, 83, . | 1.1 | 3 |
| 23 | Optical signature of symmetry variations and spin-valley coupling in atomically thin tungsten dichalcogenides. , 0, . | | 1 |
| 24 | Valley Polarization in Transition-Metal Dichalcogenides by Optical Pumping. Lecture Notes in Nanoscale Science and Technology, 2014, , 269-287. | 0.4 | 0 |