

Junfeng Dai

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

24
papers

4,076
citations

15
h-index

26
g-index

26
ext. papers

4,669
ext. citations

9.8
avg, IF

5.29
L-index

#	Paper	IF	Citations
24	Valley polarization in MoS ₂ monolayers by optical pumping. <i>Nature Nanotechnology</i> , 2012 , 7, 490-3	28.7	2497
23	Optical signature of symmetry variations and spin-valley coupling in atomically thin tungsten dichalcogenides. <i>Scientific Reports</i> , 2013 , 3, 1608	4.9	659
22	Is Excess PbI ₂ Beneficial for Perovskite Solar Cell Performance?. <i>Advanced Energy Materials</i> , 2016 , 6, 1502206	21.8	226
21	Anomalously robust valley polarization and valley coherence in bilayer WS ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11606-11	11.5	189
20	Effects of Bithiophene Imide Fusion on the Device Performance of Organic Thin-Film Transistors and All-Polymer Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 15304-15308	16.4	119
19	Defect Engineering in Single-Layer MoS Using Heavy Ion Irradiation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 42524-42533	9.5	79
18	Unraveling the Raman Enhancement Mechanism on 1T'Phase ReS Nanosheets. <i>Small</i> , 2018 , 14, e1704079	9.1	56
17	Quinoxaline-Based Wide Band Gap Polymers for Efficient Nonfullerene Organic Solar Cells with Large Open-Circuit Voltages. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 23235-23246	9.5	30
16	Alkynyl-Functionalized Head-to-Head Linkage Containing Bithiophene as a Weak Donor Unit for High-Performance Polymer Semiconductors. <i>Chemistry of Materials</i> , 2017 , 29, 4109-4121	9.6	27
15	Photon-generated carriers excite superoxide species inducing long-term photoluminescence enhancement of MAPbI ₃ perovskite single crystals. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 12048-12053	13.3	27
14	Triimide-Functionalized n-Type Polymer Semiconductors Enabling All-Polymer Solar Cells with Power Conversion Efficiencies Approaching 9%. <i>Solar Rrl</i> , 2019 , 3, 1900107	7.1	26
13	The study of spin-valley coupling in atomically thin group VI transition metal dichalcogenides. <i>Advanced Materials</i> , 2014 , 26, 5504-7	24	22
12	Defining the composition and electronic structure of large-scale and single-crystalline like Cs ₂ AgBiBr ₆ films fabricated by capillary-assisted dip-coating method. <i>Materials Today Energy</i> , 2019 , 12, 186-197	7	17
11	Measurements on quantum capacitance of individual single walled carbon nanotubes. <i>Applied Physics Letters</i> , 2009 , 94, 093114	3.4	17
10	Light-Induced Incandescence of Single-Walled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 4172-4175	3.8	13
9	Magnetoelectric photocurrent generated by direct interband transitions in InGaAs/InAlAs two-dimensional electron gas. <i>Physical Review Letters</i> , 2010 , 104, 246601	7.4	10
8	Determination of the sign of g factors for conduction electrons using time-resolved Kerr rotation. <i>Applied Physics Letters</i> , 2010 , 96, 152109	3.4	9

7	Second Harmonic Generation Covering the Entire Visible Range from a 2D Material-Plasmon Hybrid Metasurface. <i>Advanced Optical Materials</i> , 2021 , 9, 2100625	8.1	9
6	Electronic Properties of Multilayer MoS ₂ Field Effect Transistor with Unique Irradiation Resistance. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 2089-2096	3.8	7
5	Probing Ultrafast Dynamics of Ferroelectrics by Time-Resolved Pump-Probe Spectroscopy. <i>Advanced Science</i> , 2021 , 8, e2102488	13.6	3
4	Pressure-driven switching of magnetism in layered CrCl. <i>Nanoscale</i> , 2020 , 12, 22935-22944	7.7	2
3	Quadratic magnetic field dependence of magnetoelectric photocurrent. <i>Physical Review B</i> , 2011 , 83,	3.3	1
2			
1	Valley Polarization in Transition-Metal Dichalcogenides by Optical Pumping. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2014 , 269-287	0.3	