Jun-Feng Dai

List of Publications by Year
in descending order

29	4,238	430874 18	501196 28
papers	citations	h-index	g-index

29	29	29	7342
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Valley polarization in MoS2 monolayers by optical pumping. Nature Nanotechnology, 2012, 7, 490-493.	31.5	3,036
2	Anomalously robust valley polarization and valley coherence in bilayer WS ₂. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11606-11611.	7.1	245
3	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.	13.8	152
4	Effects of Bithiophene Imide Fusion on the Device Performance of Organic Thinâ€Film Transistors and Allâ€Polymer Solar Cells. Angewandte Chemie, 2017, 129, 15506-15510.	2.0	115
5	Distinctive in-Plane Cleavage Behaviors of Two-Dimensional Layered Materials. ACS Nano, 2016, 10, 8980-8988.	14.6	90
6	Phase Identification and Strong Second Harmonic Generation in Pure Îµ-InSe and Its Alloys. Nano Letters, 2019, 19, 2634-2640.	9.1	86
7	Dopant-free hole transport materials based on alkyl-substituted indacenodithiophene for planar perovskite solar cells. Journal of Materials Chemistry C, 2018, 6, 4706-4713.	5.5	52
8	Triimideâ€Functionalized nâ€Type Polymer Semiconductors Enabling Allâ€Polymer Solar Cells with Power Conversion Efficiencies Approaching 9%. Solar Rrl, 2019, 3, 1900107.	5.8	43
9	Raman spectroscopy evidence for dimerization and Mott collapse in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î±</mml:mi><mml:mtext>â^'</mml:mtext><mml:msub> under pressures. Physical Review Materials, 2019, 3, .	2.4	37
10	Photon-generated carriers excite superoxide species inducing long-term photoluminescence enhancement of MAPbI₃ perovskite single crystals. Journal of Materials Chemistry A, 2017, 5, 12048-12053.	10.3	34
11	Bound exciton and free exciton states in GaSe thin slab. Scientific Reports, 2016, 6, 33890.	3.3	33
12	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.	6.7	32
13	Photochemically deoxygenating solvents for tripletâ€“triplet annihilation photon upconversion operating in air. Chemical Communications, 2018, 54, 3907-3910.	4.1	31
14	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.	4.7	27
15	Anomalous enhancement of valley polarization in multilayer WS₂at room temperature. Nanoscale, 2017, 9, 5148-5154.	5.6	25
16	Influence of a substrate on ultrafast interfacial charge transfer and dynamical interlayer excitons in monolayer WSe₂/graphene heterostructures. Nanoscale, 2020, 12, 2498-2506.	5.6	22
17	Second Harmonic Generation Covering the Entire Visible Range from a 2D Materialâ€“Plasmon Hybrid Metasurface. Advanced Optical Materials, 2021, 9, 2100625.	7.3	22
18	Magnetic order in XY-type antiferromagnetic monolayer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>CoPS</mml:mi><mml:mn>3</mml:mn></mml:msub></m revealed by Raman spectroscopy. Physical Review B, 2021, 103, .	3.2	20

#	Article	IF	Citations
19	Pressure-Enhanced Ferromagnetism in Layered CrSiTe₃ Flakes. Nano Letters, 2021, 21, 7946-7952.	9.1	20
20	Probing Ultrafast Dynamics of Ferroelectrics by Timeâ€Resolved Pumpâ€Probe Spectroscopy. Advanced Science, 2021, 8, e2102488.	11.2	19
21	Pressure-Dependent Intermediate Magnetic Phase in Thin Fe3GeTe2 Flakes. Journal of Physical Chemistry Letters, 2020, 11, 7313-7319.	4.6	18
22	Dynamic fingerprint of fractionalized excitations in single-crystalline Cu3Zn(OH)6FBr. Nature Communications, 2021, 12, 3048.	12.8	17
23	Hard ferromagnetic behavior in atomically thin CrSiTe₃ flakes. Nanoscale, 2022, 14, 5851-5858.	5.6	16
24	Pressureâ€Controlled Structural Symmetry Transition in Layered InSe. Laser and Photonics Reviews, 2019, 13, 1900012.	8.7	13
25	Electronic Properties of Multilayer MoS₂ Field Effect Transistor with Unique Irradiation Resistance. Journal of Physical Chemistry C, 2021, 125, 2089-2096.	3.1	13
26	Î“-valley assisted intervalley scattering in monolayer and bilayer WS2 revealed by time-resolved Kerr rotation spectroscopy. Physical Review B, 2018, 97, .	3.2	10
27	An ambipolar transistor based on a monolayer WS₂ using lithium ions injection. Materials Research Express, 2020, 7, 076302.	1.6	6
28	Strain-induced light emission enhancement in CsPbBr3 microwires. Journal of Materials Science, 2022, 57, 5061-5071.	3.7	3
29	Optical signature of symmetry variations and spin-valley coupling in atomically thin tungsten dichalcogenides. , 0, .		1