

Haidong Lu

List of Publications by Year in descending order

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33
papers

3,546
citations

257450

24
h-index

377865

34
g-index

34
all docs

34
docs citations

34
times ranked

6097
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanical Stress Modulation of Resistance in MoS ₂ Junctions. Nano Letters, 2022, 22, 1047-1052.	9.1	14
2	Direct observation of ferroelectricity in two-dimensional MoS ₂ . Npj 2D Materials and Applications, 2022, 6, .	7.9	30
3	Voltage controlled Néel vector rotation in zero magnetic field. Nature Communications, 2021, 12, 1674.	12.8	29
4	In-plane quasi-single-domain BaTiO ₃ via interfacial symmetry engineering. Nature Communications, 2021, 12, 6784.	12.8	16
5	Piezoelectricity in hafnia. Nature Communications, 2021, 12, 7301.	12.8	37
6	Probing Antiferroelectric-Ferroelectric Phase Transitions in PbZrO ₃ Capacitors by Piezoresponse Force Microscopy. Advanced Functional Materials, 2020, 30, 2003622.	14.9	23
7	Resistive Switching in Individual Co/ZnO Core/Shell Nanoparticles Formed via Inert Gas Condensation and Selective Oxidation. Advanced Electronic Materials, 2020, 6, 2000065.	5.1	4
8	Observation of Unconventional Dynamics of Domain Walls in Uniaxial Ferroelectric Lead Germanate. Advanced Functional Materials, 2020, 30, 2000284.	14.9	14
9	Electrical and Elastic Properties of Individual Single-Layer Nb ₄ C ₃ T _x MXene Flakes. Advanced Electronic Materials, 2020, 6, 1901382.	5.1	134
10	Intrinsic Conductance of Domain Walls in BiFeO ₃ . Advanced Materials, 2019, 31, e1902099.	21.0	39
11	Electrical Tunability of Domain Wall Conductivity in LiNbO ₃ Thin Films. Advanced Materials, 2019, 31, e1902890.	21.0	61
12	Molecular doping enabled scalable blading of efficient hole-transport-layer-free perovskite solar cells. Nature Communications, 2018, 9, 1625.	12.8	314
13	Tunneling Hot Spots in Ferroelectric SrTiO ₃ . Nano Letters, 2018, 18, 491-497.	9.1	30
14	Quasi-1D TiS ₃ Nanoribbons: Mechanical Exfoliation and Thickness-Dependent Raman Spectroscopy. ACS Nano, 2018, 12, 12713-12720.	14.6	77
15	Anisotropic polarization-induced conductance at a ferroelectric-insulator interface. Nature Nanotechnology, 2018, 13, 1132-1136.	31.5	53
16	Characterization of domain distributions by second harmonic generation in ferroelectrics. Npj Computational Materials, 2018, 4, .	8.7	25
17	Optical control of polarization in ferroelectric heterostructures. Nature Communications, 2018, 9, 3344.	12.8	119
18	Elastic properties of 2D Ti ₃ C ₂ T _x MXene monolayers and bilayers. Science Advances, 2018, 4, eaat0491.	10.3	637

#	ARTICLE	IF	CITATIONS
19	Self-Assembly of Organic Ferroelectrics by Evaporative Dewetting: A Case of \hat{I}^2 -Glycine. ACS Applied Materials & Interfaces, 2017, 9, 20029-20037.	8.0	23
20	Asymmetry in mechanical polarization switching. Applied Physics Letters, 2017, 110, .	3.3	20
21	Electric-Field-Driven Reversible Conversion Between Methylammonium Lead Triiodide Perovskites and Lead Iodide at Elevated Temperatures. Advanced Energy Materials, 2016, 6, 1501803.	19.5	287
22	Ferroelectric polymer nanopillar arrays on flexible substrates by reverse nanoimprint lithography. Journal of Materials Chemistry C, 2016, 4, 5914-5921.	5.5	23
23	Nanodomain Engineering in Ferroelectric Capacitors with Graphene Electrodes. Nano Letters, 2016, 16, 6460-6466.	9.1	41
24	Ultrathin $\text{Hf}_{0.5}\text{Zr}_{0.5}\text{O}_2$ Ferroelectric Films on Si. ACS Applied Materials & Interfaces, 2016, 8, 7232-7237.	8.0	186
25	Imprint Control of BaTiO_3 Thin Films via Chemically Induced Surface Polarization Pinning. Nano Letters, 2016, 16, 2400-2406.	9.1	56
26	Nanomechanics of flexoelectric switching. Physical Review B, 2015, 92, .	3.2	56
27	Statics and Dynamics of Ferroelectric Domains in Diisopropylammonium Bromide. Advanced Materials, 2015, 27, 7832-7838.	21.0	60
28	Emergence of room-temperature ferroelectricity at reduced dimensions. Science, 2015, 349, 1314-1317.	12.6	259
29	Scaling Behavior of Resistive Switching in Epitaxial Bismuth Ferrite Heterostructures. Advanced Functional Materials, 2014, 24, 3962-3969.	14.9	68
30	Interface control of surface photochemical reactivity in ultrathin epitaxial ferroelectric films. Applied Physics Letters, 2013, 102, .	3.3	31
31	Mechanical Writing of Ferroelectric Polarization. Science, 2012, 336, 59-61.	12.6	645
32	Enhancement of Ferroelectric Polarization Stability by Interface Engineering. Advanced Materials, 2012, 24, 1209-1216.	21.0	118
33	Nanomanufacturing: Direct Fabrication of Arbitrary-Shaped Ferroelectric Nanostructures on Plastic, Glass, and Silicon Substrates (Adv. Mater. 33/2011). Advanced Materials, 2011, 23, 3740-3740.	21.0	13