

Haidong Lu

List of Publications by Year in descending order

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Version: 2024-02-01

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 Writing of Ferroelectric Polarization. <i>Science</i> , 2012, 336, 59-61.	12.6	645
2	Elastic properties of 2D Ti ₃ C ₂ T MXene monolayers and bilayers. <i>Science Advances</i> , 2018, 4, eaat0491.	10.3	637
3	Molecular doping enabled scalable blading of efficient hole-transport-layer-free perovskite solar cells. <i>Nature Communications</i> , 2018, 9, 1625.	12.8	314
4	Electric-Field-Driven Reversible Conversion Between Methylammonium Lead Triiodide Perovskites and Lead Iodide at Elevated Temperatures. <i>Advanced Energy Materials</i> , 2016, 6, 1501803.	19.5	287
5	Emergence of room-temperature ferroelectricity at reduced dimensions. <i>Science</i> , 2015, 349, 1314-1317.	12.6	259
6	Ultrathin Hf _{0.5} Zr _{0.5} O ₂ Ferroelectric Films on Si. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7232-7237.	8.0	186
7	Electrical and Elastic Properties of Individual Single-Layer Nb ₄ C ₃ T MXene Flakes. <i>Advanced Electronic Materials</i> , 2020, 6, 1901382.	5.1	134
8	Optical control of polarization in ferroelectric heterostructures. <i>Nature Communications</i> , 2018, 9, 3344.	12.8	119
9	Enhancement of Ferroelectric Polarization Stability by Interface Engineering. <i>Advanced Materials</i> , 2012, 24, 1209-1216.	21.0	118
10	Quasi-1D TiS ₃ Nanoribbons: Mechanical Exfoliation and Thickness-Dependent Raman Spectroscopy. <i>ACS Nano</i> , 2018, 12, 12713-12720.	14.6	77
11	Scaling Behavior of Resistive Switching in Epitaxial Bismuth Ferrite Heterostructures. <i>Advanced Functional Materials</i> , 2014, 24, 3962-3969.	14.9	68
12	Electrical Tunability of Domain Wall Conductivity in LiNbO ₃ Thin Films. <i>Advanced Materials</i> , 2019, 31, e1902890.	21.0	61
13	Statics and Dynamics of Ferroelectric Domains in Diisopropylammonium Bromide. <i>Advanced Materials</i> , 2015, 27, 7832-7838.	21.0	60
14	Nanomechanics of flexoelectric switching. <i>Physical Review B</i> , 2015, 92, .	3.2	56
15	Imprint Control of BaTiO ₃ Thin Films via Chemically Induced Surface Polarization Pinning. <i>Nano Letters</i> , 2016, 16, 2400-2406.	9.1	56
16	Anisotropic polarization-induced conductance at a ferroelectric-insulator interface. <i>Nature Nanotechnology</i> , 2018, 13, 1132-1136.	31.5	53
17	Nanodomain Engineering in Ferroelectric Capacitors with Graphene Electrodes. <i>Nano Letters</i> , 2016, 16, 6460-6466.	9.1	41
18	Intrinsic Conductance of Domain Walls in BiFeO ₃ . <i>Advanced Materials</i> , 2019, 31, e1902099.	21.0	39

#	ARTICLE	IF	CITATIONS
19	Piezoelectricity in hafnia. <i>Nature Communications</i> , 2021, 12, 7301.	12.8	37
20	Interface control of surface photochemical reactivity in ultrathin epitaxial ferroelectric films. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	31
21	Tunneling Hot Spots in Ferroelectric SrTiO ₃ . <i>Nano Letters</i> , 2018, 18, 491-497.	9.1	30
22	Direct observation of ferroelectricity in two-dimensional MoS ₂ . <i>Npj 2D Materials and Applications</i> , 2022, 6, .	7.9	30
23	Voltage controlled Néel vector rotation in zero magnetic field. <i>Nature Communications</i> , 2021, 12, 1674.	12.8	29
24	Characterization of domain distributions by second harmonic generation in ferroelectrics. <i>Npj Computational Materials</i> , 2018, 4, .	8.7	25
25	Ferroelectric polymer nanopillar arrays on flexible substrates by reverse nanoimprint lithography. <i>Journal of Materials Chemistry C</i> , 2016, 4, 5914-5921.	5.5	23
26	Self-Assembly of Organic Ferroelectrics by Evaporative Dewetting: A Case of β -Glycine. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20029-20037.	8.0	23
27	Probing Antiferroelectric-Ferroelectric Phase Transitions in PbZrO ₃ Capacitors by Piezoresponse Force Microscopy. <i>Advanced Functional Materials</i> , 2020, 30, 2003622.	14.9	23
28	Asymmetry in mechanical polarization switching. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	20
29	In-plane quasi-single-domain BaTiO ₃ via interfacial symmetry engineering. <i>Nature Communications</i> , 2021, 12, 6784.	12.8	16
30	Observation of Unconventional Dynamics of Domain Walls in Uniaxial Ferroelectric Lead Germanate. <i>Advanced Functional Materials</i> , 2020, 30, 2000284.	14.9	14
31	Mechanical Stress Modulation of Resistance in MoS ₂ Junctions. <i>Nano Letters</i> , 2022, 22, 1047-1052.	9.1	14
32	Nanomanufacturing: Direct Fabrication of Arbitrary-Shaped Ferroelectric Nanostructures on Plastic, Glass, and Silicon Substrates (<i>Adv. Mater.</i> 33/2011). <i>Advanced Materials</i> , 2011, 23, 3740-3740.	21.0	13
33	Resistive Switching in Individual Co/ZnO Core/Shell Nanoparticles Formed via Inert Gas Condensation and Selective Oxidation. <i>Advanced Electronic Materials</i> , 2020, 6, 2000065.	5.1	4