

Yen-Lin Huang

List of Publications by Year in descending order

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31
papers

1,378
citations

516561

16
h-index

477173

29
g-index

32
all docs

32
docs citations

32
times ranked

2372
citing authors

#	ARTICLE	IF	CITATIONS
1	Scalable energy-efficient magnetoelectric spin-orbit logic. Nature, 2019, 565, 35-42.	13.7	480
2	Emergent magnetic monopole dynamics in macroscopically degenerate artificial spin ice. Science Advances, 2019, 5, eaav6380.	4.7	108
3	Possible absence of critical thickness and size effect in ultrathin perovskite ferroelectric films. Nature Communications, 2017, 8, 15549.	5.8	104
4	Tunable photoelectrochemical performance of Au/BiFeO ₃ heterostructure. Nanoscale, 2016, 8, 15795-15801.	2.8	76
5	Deterministic optical control of room temperature multiferroicity in BiFeO ₃ thin films. Nature Materials, 2019, 18, 580-587.	13.3	76
6	Atomic mechanism of polarization-controlled surface reconstruction in ferroelectric thin films. Nature Communications, 2016, 7, 11318.	5.8	61
7	Beyond Substrates: Strain Engineering of Ferroelectric Membranes. Advanced Materials, 2020, 32, e2003780.	11.1	58
8	Voltage control of unidirectional anisotropy in ferromagnet-multiferroic system. Science Advances, 2018, 4, eaat4229.	4.7	52
9	Ultralow Voltage Manipulation of Ferromagnetism. Advanced Materials, 2020, 32, e2001943.	11.1	44
10	Manipulating magnetoelectric energy landscape in multiferroics. Nature Communications, 2020, 11, 2836.	5.8	42
11	Complex strain evolution of polar and magnetic order in multiferroic BiFeO ₃ thin films. Nature Communications, 2018, 9, 3764.	5.8	40
12	Toward Intrinsic Ferroelectric Switching in Multiferroic BiFeO_3 . Physical Review Letters, 2020, 125, 067601.	2.9	37
13	Towards artificial Ising spin glasses: Thermal ordering in randomized arrays of Ising-type nanomagnets. Physical Review B, 2019, 99, .	1.1	28
14	The role of lattice dynamics in ferroelectric switching. Nature Communications, 2022, 13, 1110.	5.8	25
15	Unexpected Giant Microwave Conductivity in a Nominally Silent BiFeO ₃ Domain Wall. Advanced Materials, 2020, 32, 1905132.	11.1	22
16	Anomalous Electronic Anisotropy Triggered by Ferroelastic Coupling in Multiferroic Heterostructures. Advanced Materials, 2016, 28, 876-883.	11.1	19
17	Integration of amorphous ferromagnetic oxides with multiferroic materials for room temperature magnetoelectric spintronics. Scientific Reports, 2020, 10, 3583.	1.6	16
18	Dipolar Cairo lattice: Geometrical frustration and short-range correlations. Physical Review Materials, 2019, 3, .	0.9	16

#	ARTICLE	IF	CITATIONS
19	Thermally superactive artificial kagome spin ice structures obtained with the interfacial Dzyaloshinskii-Moriya interaction. <i>Physical Review B</i> , 2020, 102, .	1.1	15
20	Spin filtering of a termination-controlled LSMO/Alq ₃ heterojunction for an organic spin valve. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9128-9137.	2.7	9
21	Interferometric imaging of nonlocal electromechanical power transduction in ferroelectric domains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 5338-5342.	3.3	9
22	Experimental demonstration of integrated magneto-electric and spin-orbit building blocks implementing energy-efficient logic. , 2019, , .		8
23	Phase stability and microstructure of manganese-doped calcia-stabilized zirconia heat treated in a reducing atmosphere. <i>Ceramics International</i> , 2014, 40, 2373-2379.	2.3	6
24	Electric Field Writing of Ferroelectric Nano-Domains Near 71° Domain Walls with Switchable Interfacial Conductivity. <i>Annalen Der Physik</i> , 2018, 530, 1800130.	0.9	6
25	Training the Polarization in Integrated La _{0.15} Bi _{0.85} FeO ₃ -Based Devices. <i>Advanced Materials</i> , 2021, , 2104688.	11.1	5
26	A Study of Low-Temperature Sintering of (Ba _{0.6} Sr _{0.4})(Ti _{0.94} Cu _{0.06})O ₃ Ceramics with B ₂ O ₃ Addition. <i>Ferroelectrics</i> , 2012, 434, 147-156.	0.3	4
27	Atomic-scale mechanism of internal structural relaxation screening at polar interfaces. <i>Physical Review B</i> , 2018, 97, .	1.1	4
28	Anisotropic superconductivity induced by periodic multiferroic domain patterns. <i>NPG Asia Materials</i> , 2019, 11, .	3.8	4
29	Effect of alloying Au on the microstructural, mechanical and electrical properties of Ag-based alloy wires. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 9396-9409.	1.1	2
30	Effect of Au Addition on the Microstructure and Properties of Ag-4Pd Bonding Wires. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 5411-5422.	1.1	1
31	Au-induced improvements in the grain stability and mechanical properties of Ag-based alloy wires under electrical current stressing. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 15897-15911.	1.1	1