

# 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	The role of lattice dynamics in ferroelectric switching. Nature Communications, 2022, 13, 1110.	5.8	25
2	Training the Polarization in Integrated La <sub>0.15</sub> Bi <sub>0.85</sub> FeO <sub>3</sub> Based Devices. Advanced Materials, 2021, , 2104688.	11.1	5
3	Toward Intrinsic Ferroelectric Switching in Multiferroic $\text{BiFeO}_3$ Physical Review Letters, 2020, 125, 067601.	2.9	37
4	Beyond Substrates: Strain Engineering of Ferroelectric Membranes. Advanced Materials, 2020, 32, e2003780.	11.1	58
5	Thermally superactive artificial kagome spin ice structures obtained with the interfacial Dzyaloshinskii-Moriya interaction. Physical Review B, 2020, 102, .	1.1	15
6	Ultralow Voltage Manipulation of Ferromagnetism. Advanced Materials, 2020, 32, e2001943.	11.1	44
7	Manipulating magnetoelectric energy landscape in multiferroics. Nature Communications, 2020, 11, 2836.	5.8	42
8	Integration of amorphous ferromagnetic oxides with multiferroic materials for room temperature magnetoelectric spintronics. Scientific Reports, 2020, 10, 3583.	1.6	16
9	Unexpected Giant Microwave Conductivity in a Nominally Silent BiFeO <sub>3</sub> Domain Wall. Advanced Materials, 2020, 32, 1905132.	11.1	22
10	Au-induced improvements in the grain stability and mechanical properties of Ag-based alloy wires under electrical current stressing. Journal of Materials Science: Materials in Electronics, 2019, 30, 15897-15911.	1.1	1
11	Towards artificial Ising spin glasses: Thermal ordering in randomized arrays of Ising-type nanomagnets. Physical Review B, 2019, 99, .	1.1	28
12	Effect of alloying Au on the microstructural, mechanical and electrical properties of Ag-based alloy wires. Journal of Materials Science: Materials in Electronics, 2019, 30, 9396-9409.	1.1	2
13	Deterministic optical control of room temperature multiferroicity in BiFeO <sub>3</sub> thin films. Nature Materials, 2019, 18, 580-587.	13.3	76
14	Emergent magnetic monopole dynamics in macroscopically degenerate artificial spin ice. Science Advances, 2019, 5, eaav6380.	4.7	108
15	Experimental demonstration of integrated magneto-electric and spin-orbit building blocks implementing energy-efficient logic. , 2019, , .		8
16	Anisotropic superconductivity induced by periodic multiferroic domain patterns. NPG Asia Materials, 2019, 11, .	3.8	4
17	Scalable energy-efficient magnetoelectric spin-orbit logic. Nature, 2019, 565, 35-42.	13.7	480
18	Dipolar Cairo lattice: Geometrical frustration and short-range correlations. Physical Review Materials, 2019, 3, .	0.9	16

#	ARTICLE	IF	CITATIONS
19	Voltage control of unidirectional anisotropy in ferromagnet-multiferroic system. <i>Science Advances</i> , 2018, 4, eaat4229.	4.7	52
20	Complex strain evolution of polar and magnetic order in multiferroic BiFeO <sub>3</sub> thin films. <i>Nature Communications</i> , 2018, 9, 3764.	5.8	40
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	Atomic-scale mechanism of internal structural relaxation screening at polar interfaces. <i>Physical Review B</i> , 2018, 97, .	1.1	4
23	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
24	Electric Field Writing of Ferroelectric Nano-domains Near 71Å° Domain Walls with Switchable Interfacial Conductivity. <i>Annalen Der Physik</i> , 2018, 530, 1800130.	0.9	6
25	Possible absence of critical thickness and size effect in ultrathin perovskite ferroelectric films. <i>Nature Communications</i> , 2017, 8, 15549.	5.8	104
26	Spin filtering of a termination-controlled LSMO/Alq <sub>3</sub> heterojunction for an organic spin valve. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9128-9137.	2.7	9
27	Anomalous Electronic Anisotropy Triggered by Ferroelastic Coupling in Multiferroic Heterostructures. <i>Advanced Materials</i> , 2016, 28, 876-883.	11.1	19
28	Tunable photoelectrochemical performance of Au/BiFeO <sub>3</sub> heterostructure. <i>Nanoscale</i> , 2016, 8, 15795-15801.	2.8	76
29	Atomic mechanism of polarization-controlled surface reconstruction in ferroelectric thin films. <i>Nature Communications</i> , 2016, 7, 11318.	5.8	61
30	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
31	A Study of Low-Temperature Sintering of (Ba <sub>0.6</sub> Sr <sub>0.4</sub> )(Ti <sub>0.94</sub> Cu <sub>0.06</sub> )O <sub>3</sub> Ceramics with B <sub>2</sub> O <sub>3</sub> Addition. <i>Ferroelectrics</i> , 2012, 434, 147-156.	0.3	4