

Hao Pan

List of Publications by Year in descending order

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22
papers

2,247
citations

471061

17
h-index

713013

21
g-index

22
all docs

22
docs citations

22
times ranked

1393
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-high energy density lead-free dielectric films via polymorphic nanodomain design. <i>Science</i> , 2019, 365, 578-582.	6.0	662
2	Giant energy density and high efficiency achieved in bismuth ferrite-based film capacitors via domain engineering. <i>Nature Communications</i> , 2018, 9, 1813.	5.8	408
3	Ultra-high energy storage in superparaelectric relaxor ferroelectrics. <i>Science</i> , 2021, 374, 100-104.	6.0	276
4	$\text{BiFeO}_3/\text{SrTiO}_3$ thin film as a new lead-free relaxor-ferroelectric capacitor with ultrahigh energy storage performance. <i>Journal of Materials Chemistry A</i> , 2017, 5, 5920-5926.	5.2	218
5	High-entropy enhanced capacitive energy storage. <i>Nature Materials</i> , 2022, 21, 1074-1080.	13.3	161
6	Dielectric films for high performance capacitive energy storage: multiscale engineering. <i>Nanoscale</i> , 2020, 12, 19582-19591.	2.8	69
7	A surface-modified TiO_2 nanorod array/P(VDF-HFP) dielectric capacitor with ultra high energy density and efficiency. <i>Journal of Materials Chemistry C</i> , 2017, 5, 12777-12784.	2.7	65
8	Thickness-dependent dielectric and energy storage properties of $(\text{Pb}_{0.96}\text{La}_{0.04})(\text{Zr}_{0.98}\text{Ti}_{0.02})\text{O}_3$ antiferroelectric thin films. <i>Journal of Applied Physics</i> , 2016, 119, .	1.1	52
9	Advances in Dielectric Thin Films for Energy Storage Applications, Revealing the Promise of Group IV Binary Oxides. <i>ACS Energy Letters</i> , 2021, 6, 2208-2217.	8.8	50
10	Controllable electrical, magnetoelectric and optical properties of BiFeO_3 via domain engineering. <i>Progress in Materials Science</i> , 2022, 127, 100943.	16.0	40
11	Enhancements of dielectric and energy storage performances in lead-free films with sandwich architecture. <i>Journal of the American Ceramic Society</i> , 2019, 102, 936-943.	1.9	37
12	Ferroelectric polymers and their nanocomposites for dielectric energy storage applications. <i>APL Materials</i> , 2021, 9, .	2.2	37
13	High-stability transparent flexible energy storage based on $\text{PbZrO}_3/\text{muscovite}$ heterostructure. <i>Nano Energy</i> , 2021, 87, 106149.	8.2	35
14	High energy storage capability of perovskite relaxor ferroelectrics via hierarchical optimization. <i>Rare Metals</i> , 2022, 41, 730-744.	3.6	33
15	Antiferroelectric Anisotropy of Epitaxial PbHfO_3 Films for Flexible Energy Storage. <i>Advanced Functional Materials</i> , 2021, 31, 2105060.	7.8	29
16	Enhanced electric resistivity and dielectric energy storage by vacancy defect complex. <i>Energy Storage Materials</i> , 2021, 42, 836-844.	9.5	24
17	Phase-Field Simulations of Tunable Polar Topologies in Lead-Free Ferroelectric/Paraelectric Multilayers with Ultrahigh Energy Storage Performance. <i>Advanced Materials</i> , 2022, 34, e2108772.	11.1	24
18	Strain Engineering of Energy Storage Performance in Relaxor Ferroelectric Thin Film Capacitors. <i>Advanced Theory and Simulations</i> , 2022, 5, .	1.3	13

#	ARTICLE	IF	CITATIONS
19	Perspectives on domain engineering for dielectric energy storage thin films. Applied Physics Letters, 2022, 120, .	1.5	8
20	Effects of annealing process and the additive on the electrical properties of chemical solution deposition derived $0.65\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3\text{-}0.35\text{PbTiO}_3$ thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 16997-17002.	1.1	3
21	Fabrication and applications of flexible inorganic ferroelectric thin films. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 217708.	0.2	3
22	Investigation of Negative Capacitance Effect from Domain Switching Dynamics. , 2019, , .		0