

Joshua C Agar

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

679
citations

567144

15
h-index

752573

20
g-index

20
all docs

20
docs citations

20
times ranked

1171
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly mobile ferroelastic domain walls in compositionally graded ferroelectric thin films. <i>Nature Materials</i> , 2016, 15, 549-556.	13.3	98
2	New modalities of strain-control of ferroelectric thin films. <i>Journal of Physics Condensed Matter</i> , 2016, 28, 263001.	0.7	86
3	Three- ϵ -State Ferroelastic Switching and Large Electromechanical Responses in PbTiO_3 Thin Films. <i>Advanced Materials</i> , 2017, 29, 1702069.	11.1	74
4	Unexpected Crystal and Domain Structures and Properties in Compositionally Graded $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$ Thin Films. <i>Advanced Materials</i> , 2013, 25, 1761-1767.	11.1	73
5	Complex Evolution of Built-in Potential in Compositionally-Graded $\text{PbZr}_{1-x}\text{Ti}_x\text{O}_3$ Thin Films. <i>ACS Nano</i> , 2015, 9, 7332-7342.	7.3	39
6	Reducing Time to Discovery: Materials and Molecular Modeling, Imaging, Informatics, and Integration. <i>ACS Nano</i> , 2021, 15, 3971-3995.	7.3	36
7	Revealing ferroelectric switching character using deep recurrent neural networks. <i>Nature Communications</i> , 2019, 10, 4809.	5.8	34
8	Understanding the Role of Ferroelastic Domains on the Pyroelectric and Electrocaloric Effects in Ferroelectric Thin Films. <i>Advanced Materials</i> , 2019, 31, e1803312.	11.1	34
9	Local control of defects and switching properties in ferroelectric thin films. <i>Physical Review Materials</i> , 2018, 2, .	0.9	34
10	Strain-induced growth instability and nanoscale surface patterning in perovskite thin films. <i>Scientific Reports</i> , 2016, 6, 26075.	1.6	24
11	Machine learning assisted synthesis of lithium-ion batteries cathode materials. <i>Nano Energy</i> , 2022, 98, 107214.	8.2	24
12	Machine Detection of Enhanced Electromechanical Energy Conversion in $\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$ Thin Films. <i>Advanced Materials</i> , 2018, 30, e1800701.	11.1	23
13	Chemical Phenomena of Atomic Force Microscopy Scanning. <i>Analytical Chemistry</i> , 2018, 90, 3475-3481.	3.2	20
14	Nanoscale Electrochemical Phenomena of Polarization Switching in Ferroelectrics. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38217-38222.	4.0	18
15	Frontiers in strain-engineered multifunctional ferroic materials. <i>MRS Communications</i> , 2016, 6, 151-166.	0.8	17
16	Application of a long short-term memory for deconvoluting conductance contributions at charged ferroelectric domain walls. <i>Npj Computational Materials</i> , 2020, 6, .	3.5	15
17	Local Probe Comparison of Ferroelectric Switching Event Statistics in the Creep and Depinning Regimes in $\text{Pb}_{1-x}\text{Zr}_x\text{O}_3$	2.9	13
18	Subtractive fabrication of ferroelectric thin films with precisely controlled thickness. <i>Nanotechnology</i> , 2018, 29, 155302.	1.3	7

#	ARTICLE	IF	CITATIONS
19	Symmetry-aware recursive image similarity exploration for materials microscopy. Npj Computational Materials, 2021, 7, .	3.5	5
20	Tunable Microwave Conductance of Nanodomains in Ferroelectric PbZr _{0.2} Ti _{0.8} O ₃ Thin Film. Advanced Electronic Materials, 2022, 8, 2100952.	2.6	5