

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	Machine learning assisted synthesis of lithium-ion batteries cathode materials. Nano Energy, 2022, 98, 107214.	8.2	24
2	Tunable Microwave Conductance of Nanodomains in Ferroelectric $\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$ Thin Film. Advanced Electronic Materials, 2022, 8, 2100952.	2.6	5
3	Reducing Time to Discovery: Materials and Molecular Modeling, Imaging, Informatics, and Integration. ACS Nano, 2021, 15, 3971-3995.	7.3	36
4	Local Probe Comparison of Ferroelectric Switching Event Statistics in the Creep and Depinning Regimes in $\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$ Thin Films. Advanced Materials, 2022, 34, 2100952.	2.9	13
5	Symmetry-aware recursive image similarity exploration for materials microscopy. Npj Computational Materials, 2021, 7, .	3.5	5
6	Application of a long short-term memory for deconvoluting conductance contributions at charged ferroelectric domain walls. Npj Computational Materials, 2020, 6, .	3.5	15
7	Revealing ferroelectric switching character using deep recurrent neural networks. Nature Communications, 2019, 10, 4809.	5.8	34
8	Understanding the Role of Ferroelastic Domains on the Pyroelectric and Electrocaloric Effects in Ferroelectric Thin Films. Advanced Materials, 2019, 31, e1803312.	11.1	34
9	Subtractive fabrication of ferroelectric thin films with precisely controlled thickness. Nanotechnology, 2018, 29, 155302.	1.3	7
10	Chemical Phenomena of Atomic Force Microscopy Scanning. Analytical Chemistry, 2018, 90, 3475-3481.	3.2	20
11	Nanoscale Electrochemical Phenomena of Polarization Switching in Ferroelectrics. ACS Applied Materials & Interfaces, 2018, 10, 38217-38222.	4.0	18
12	Machine Detection of Enhanced Electromechanical Energy Conversion in $\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$ Thin Films. Advanced Materials, 2018, 30, e1800701.	11.1	23
13	Local control of defects and switching properties in ferroelectric thin films. Physical Review Materials, 2018, 2, .	0.9	34
14	Three-State Ferroelastic Switching and Large Electromechanical Responses in PbTiO_3 Thin Films. Advanced Materials, 2017, 29, 1702069.	11.1	74
15	New modalities of strain-control of ferroelectric thin films. Journal of Physics Condensed Matter, 2016, 28, 263001.	0.7	86
16	Frontiers in strain-engineered multifunctional ferroic materials. MRS Communications, 2016, 6, 151-166.	0.8	17
17	Strain-induced growth instability and nanoscale surface patterning in perovskite thin films. Scientific Reports, 2016, 6, 26075.	1.6	24
18	Highly mobile ferroelastic domain walls in compositionally graded ferroelectric thin films. Nature Materials, 2016, 15, 549-556.	13.3	98

#	ARTICLE	IF	CITATIONS
19	Complex Evolution of Built-in Potential in Compositionally-Graded PbZr _{1-x} Ti _x O ₃ Thin Films. ACS Nano, 2015, 9, 7332-7342.	7.3	39
20	Unexpected Crystal and Domain Structures and Properties in Compositionally Graded PbZr _{1-x} Ti _x O ₃ Thin Films. Advanced Materials, 2013, 25, 1761-1767.	11.1	73