

Christopher T Nelson

List of Publications by Year in descending order

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19
papers

1,519
citations

759055

12
h-index

940416

16
g-index

21
all docs

21
docs citations

21
times ranked

2230
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous Vortex Nanodomain Arrays at Ferroelectric Heterointerfaces. <i>Nano Letters</i> , 2011, 11, 828-834.	4.5	419
2	Domain Dynamics During Ferroelectric Switching. <i>Science</i> , 2011, 334, 968-971.	6.0	320
3	Atomic-scale mechanisms of ferroelastic domain-wall-mediated ferroelectric switching. <i>Nature Communications</i> , 2013, 4, .	5.8	152
4	Ferroelastic domain switching dynamics under electrical and mechanical excitations. <i>Nature Communications</i> , 2014, 5, 3801.	5.8	135
5	Stability of Polar Vortex Lattice in Ferroelectric Superlattices. <i>Nano Letters</i> , 2017, 17, 2246-2252.	4.5	131
6	Emergent chirality in the electric polarization texture of titanate superlattices. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 915-920.	3.3	121
7	Large polarization gradients and temperature-stable responses in compositionally-graded ferroelectrics. <i>Nature Communications</i> , 2017, 8, 14961.	5.8	60
8	Giant Ferroelectric Polarization in Ultrathin Ferroelectrics via Boundary Condition Engineering. <i>Advanced Materials</i> , 2017, 29, 1701475.	11.1	47
9	Self-assembled oxide nanopillars in epitaxial BaFe ₂ As ₂ thin films for vortex pinning. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	42
10	Tunable and low-loss correlated plasmons in Mott-like insulating oxides. <i>Nature Communications</i> , 2017, 8, 15271.	5.8	42
11	Causal analysis of competing atomistic mechanisms in ferroelectric materials from high-resolution scanning transmission electron microscopy data. <i>Npj Computational Materials</i> , 2020, 6, .	3.5	21
12	Exploring physics of ferroelectric domain walls via Bayesian analysis of atomically resolved STEM data. <i>Nature Communications</i> , 2020, 11, 6361.	5.8	17
13	Deep learning ferroelectric polarization distributions from STEM data via with and without atom finding. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	5
14	Multimodal Acquisition of Properties and Structure with Transmission Electron Reciprocal-space (MAPSTER) Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 1412-1413.	0.2	2
15	Size Effect on Spontaneous Flux-closure Domains in BiFeO ₃ Thin Films. <i>Microscopy and Microanalysis</i> , 2016, 22, 1596-1597.	0.2	2
16	Phase Coexistence of Ferroelectric Vortices and Classical a ₁ /a ₂ Domains in PbTiO ₃ /SrTiO ₃ Superlattices.. <i>Microscopy and Microanalysis</i> , 2018, 24, 1638-1639.	0.2	2
17	Anisotropic growth of zinc oxide pillars on silver nanoparticles by oblique angle deposition. <i>Journal of the Ceramic Society of Japan</i> , 2013, 121, 710-713.	0.5	0
18	Correction of Linear and Nonlinear Raster Distortion from Orthogonal Image Pairs. <i>Microscopy and Microanalysis</i> , 2015, 21, 1217-1218.	0.2	0

#	ARTICLE	IF	CITATIONS
19	Direct mapping of polarization fields from STEM images: A Deep Learning based exploration of ferroelectrics. <i>Microscopy and Microanalysis</i> , 2021, 27, 2990-2992.	0.2	0