

# 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	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
2	Deep learning ferroelectric polarization distributions from STEM data via with and without atom finding. <i>Npj Computational Materials</i> , 2021, 7, .	3.5	5
3	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
4	Exploring physics of ferroelectric domain walls via Bayesian analysis of atomically resolved STEM data. <i>Nature Communications</i> , 2020, 11, 6361.	5.8	17
5	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
6	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
7	Stability of Polar Vortex Lattice in Ferroelectric Superlattices. <i>Nano Letters</i> , 2017, 17, 2246-2252.	4.5	131
8	Tunable and low-loss correlated plasmons in Mott-like insulating oxides. <i>Nature Communications</i> , 2017, 8, 15271.	5.8	42
9	Large polarization gradients and temperature-stable responses in compositionally-graded ferroelectrics. <i>Nature Communications</i> , 2017, 8, 14961.	5.8	60
10	Giant Ferroelectric Polarization in Ultrathin Ferroelectrics via Boundary-Condition Engineering. <i>Advanced Materials</i> , 2017, 29, 1701475.	11.1	47
11	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
12	Size Effect on Spontaneous Flux-closure Domains in $BiFeO_3$ Thin Films. <i>Microscopy and Microanalysis</i> , 2016, 22, 1596-1597.	0.2	2
13	Correction of Linear and Nonlinear Raster Distortion from Orthogonal Image Pairs. <i>Microscopy and Microanalysis</i> , 2015, 21, 1217-1218.	0.2	0
14	Ferroelastic domain switching dynamics under electrical and mechanical excitations. <i>Nature Communications</i> , 2014, 5, 3801.	5.8	135
15	Atomic-scale mechanisms of ferroelastic domain-wall-mediated ferroelectric switching. <i>Nature Communications</i> , 2013, 4, .	5.8	152
16	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
17	Spontaneous Vortex Nanodomain Arrays at Ferroelectric Heterointerfaces. <i>Nano Letters</i> , 2011, 11, 828-834.	4.5	419
18	Domain Dynamics During Ferroelectric Switching. <i>Science</i> , 2011, 334, 968-971.	6.0	320

#	ARTICLE	IF	CITATIONS
19	Self-assembled oxide nanopillars in epitaxial BaFe <sub>2</sub> As <sub>2</sub> thin films for vortex pinning. Applied Physics Letters, 2011, 98, .	1.5	42