

# Yusra Nahas

## List of Publications by Year in descending order

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32  
papers

1,172  
citations

471509

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docs citations

32  
times ranked

1376  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hidden phases with neuromorphic responses and highly enhanced piezoelectricity in an antiferroelectric prototype. <i>Physical Review B</i> , 2022, 105, .	3.2	8
2	High-density switchable skyrmion-like polar nanodomains integrated on silicon. <i>Nature</i> , 2022, 603, 63-67.	27.8	79
3	Domain-wall-induced electromagnons in multiferroics. <i>Physical Review Materials</i> , 2022, 6, .	2.4	2
4	Electrocaloric effects in multiferroics. <i>Physical Review B</i> , 2021, 103, .	3.2	4
5	Probing the dynamics of ferroelectric topological oscillators with the electron beam. <i>Microscopy and Microanalysis</i> , 2021, 27, 690-692.	0.4	2
6	Ferroelectric phase-transition frustration near a tricritical composition point. <i>Nature Communications</i> , 2021, 12, 5322.	12.8	18
7	Freestanding Ferroelectric Bubble Domains. <i>Advanced Materials</i> , 2021, 33, e2105432.	21.0	18
8	Controlling topological defect transitions in nanoscale lead zirconate titanate heterostructures. <i>Physical Review Materials</i> , 2021, 5, .	2.4	7
9	Inverse transition of labyrinthine domain patterns in ferroelectric thin films. <i>Nature</i> , 2020, 577, 47-51.	27.8	71
10	Topology and control of self-assembled domain patterns in low-dimensional ferroelectrics. <i>Nature Communications</i> , 2020, 11, 5779.	12.8	37
11	Evidence for Goldstone-like and Higgs-like structural modes in the model relaxor ferroelectric. <i>Physical Review B</i> , 2020, 102, .	3.2	5
12	Emergence of skyrmionium in a two-dimensional Janus monolayer. <i>Physical Review B</i> , 2020, 102, .	3.2	1
13	Berezinskii-Kosterlitz-Thouless phase in two-dimensional ferroelectrics. <i>Physical Review B</i> , 2020, 101, .	3.2	16
14	Possible Kitaev Quantum Spin Liquid State in 2D Materials with $S_3$ . <i>Physical Review Letters</i> , 2020, 124, 087205.	7.8	88
15	Topological spin texture in Janus monolayers of the chromium trihalides Cr(I, II). <i>Physical Review B</i> , 2020, 101, .	3.2	146
16	Prediction of a novel topological multidefect ground state. <i>Physical Review B</i> , 2019, 100, .	3.2	8
17	Deterministic Switching of Ferroelectric Bubble Nanodomains. <i>Advanced Functional Materials</i> , 2019, 29, 1808573.	14.9	30
18	Topological Defects with Distinct Dipole Configurations in $PbTiO_3$ Multilayer Films. <i>Physical Review Letters</i> , 2018, 120, 177601.	7.8	55

#	ARTICLE	IF	CITATIONS
19	Giant electrocaloric response in the prototypical Pb(Mg,Nb)O <sub>3</sub> relaxor ferroelectric from atomistic simulations. Physical Review B, 2018, 97, .	3.2	24
20	Temperature and electric field control of the bandgap in electrotoroidic nanocomposites by large-scale ab initio methods. Ferroelectrics, 2018, 535, 93-105.	0.6	1
21	Large scale hybrid Monte Carlo simulations for structure and property prediction. Npj Computational Materials, 2018, 4, .	8.7	12
22	Quantum-fluctuation-stabilized orthorhombic ferroelectric ground state in lead-free piezoelectric Ba <sub>0.9</sub> Ca <sub>0.1</sub> (Zr,Ti)O <sub>3</sub> . Physical Review B, 2018, 98, .	8.6	11
23	Nanoscale Bubble Domains and Topological Transitions in Ultrathin Ferroelectric Films. Advanced Materials, 2017, 29, 1702375.	21.0	110
24	Emergent Berezinskii-Kosterlitz-Thouless Phase in Low-Dimensional Ferroelectrics. Physical Review Letters, 2017, 119, 117601.	7.8	17
25	Fluctuations and Topological Defects in Proper Ferroelectric Crystals. Physical Review Letters, 2017, 118, 147601.	7.8	20
26	Electrocaloric effects in the lead-free Ba(Zr,Ti)O <sub>3</sub> relaxor ferroelectric from atomistic simulations. Physical Review B, 2017, 96, .	3.2	24
27	Microscopic origins of the large piezoelectricity of leadfree (Ba,Ca)(Zr,Ti)O <sub>3</sub> . Nature Communications, 2017, 8, 15944.	12.8	69
28	Electrical Control of Chiral Phases in Electrotoroidic Nanocomposites. Advanced Electronic Materials, 2016, 2, 1500218.	5.1	7
29	Topological Point Defects in Relaxor Ferroelectrics. Physical Review Letters, 2016, 116, 127601.	7.8	20
30	Frustration and Self-Ordering of Topological Defects in Ferroelectrics. Physical Review Letters, 2016, 116, 117603.	7.8	17
31	Discovery of stable skyrmionic state in ferroelectric nanocomposites. Nature Communications, 2015, 6, 8542.	12.8	154
32	Local symmetry approach to relaxor ferroelectrics. Europhysics Letters, 2013, 103, 37013.	2.0	3