

# Yusra Nahas

## List of Publications by Year in descending order

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32  
papers

1,172  
citations

471509

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h-index

414414

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32  
all docs

32  
docs citations

32  
times ranked

1376  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of stable skyrmionic state in ferroelectric nanocomposites. Nature Communications, 2015, 6, 8542.	12.8	154
2	Topological spin texture in Janus monolayers of the chromium trihalides Cr(I, $Tj$ ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td ( Physical Review B, 2020, 101, .	3.2	146
3	Nanoscale Bubble Domains and Topological Transitions in Ultrathin Ferroelectric Films. Advanced Materials, 2017, 29, 1702375.	21.0	110
4	Possible Kitaev Quantum Spin Liquid State in 2D Materials with $S$ Physical Review Letters, 2020, 124, 087205.	7.8	88
5	Emergence of skyrmionium in a two-dimensional Janus monolayer. Physical Review B, 2020, 102, .	3.2	16
6	High-density switchable skyrmion-like polar nanodomains integrated on silicon. Nature, 2022, 603, 63-67.	27.8	79
7	Inverse transition of labyrinthine domain patterns in ferroelectric thin films. Nature, 2020, 577, 47-51.	27.8	71
8	Microscopic origins of the large piezoelectricity of leadfree (Ba,Ca)(Zr,Ti)O <sub>3</sub> . Nature Communications, 2017, 8, 15944.	12.8	69
9	Topological Defects with Distinct Dipole Configurations in PbTiO <sub>3</sub> Multilayer Films. Physical Review Letters, 2018, 120, 177601.	7.8	55
10	Topology and control of self-assembled domain patterns in low-dimensional ferroelectrics. Nature Communications, 2020, 11, 5779.	12.8	37
11	Deterministic Switching of Ferroelectric Bubble Nanodomains. Advanced Functional Materials, 2019, 29, 1808573.	14.9	30
12	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
13	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
14	Topological Point Defects in Relaxor Ferroelectrics. Physical Review Letters, 2016, 116, 127601.	7.8	20
15	Fluctuations and Topological Defects in Proper Ferroelectric Crystals. Physical Review Letters, 2017, 118, 147601.	7.8	20
16	Ferroelectric phase-transition frustration near a tricritical composition point. Nature Communications, 2021, 12, 5322.	12.8	18
17	Freestanding Ferroelectric Bubble Domains. Advanced Materials, 2021, 33, e2105432.	21.0	18
18	Frustration and Self-Ordering of Topological Defects in Ferroelectrics. Physical Review Letters, 2016, 116, 117603.	7.8	17

#	ARTICLE	IF	CITATIONS
19	Emergent Berezinskii-Kosterlitz-Thouless Phase in Low-Dimensional Ferroelectrics. Physical Review Letters, 2017, 119, 117601.	7.8	17
20	Berezinskii-Kosterlitz-Thouless phase in two-dimensional ferroelectrics. Physical Review B, 2020, 101, .	3.2	16
21	Quantum-fluctuation-stabilized orthorhombic ferroelectric ground state in lead-free piezoelectric $\text{Ba}_3\text{O}$ . Physical Review B, 2018, 98, .		
22	Large scale hybrid Monte Carlo simulations for structure and property prediction. Npj Computational Materials, 2018, 4, .	8.7	12
23	Prediction of a novel topological multidefect ground state. Physical Review B, 2019, 100, .	3.2	8
24	Hidden phases with neuromorphic responses and highly enhanced piezoelectricity in an antiferroelectric prototype. Physical Review B, 2022, 105, .	3.2	8
25	Electrical Control of Chiral Phases in Electrotoroidic Nanocomposites. Advanced Electronic Materials, 2016, 2, 1500218.	5.1	7
26	Controlling topological defect transitions in nanoscale lead zirconate titanate heterostructures. Physical Review Materials, 2021, 5, .	2.4	7
27	Evidence for Goldstone-like and Higgs-like structural modes in the model relaxor ferroelectric $\text{Pb}_3\text{Mg}_5$ . Physical Review B, 2020, 102, .	3.2	5
28	Electrocaloric effects in multiferroics. Physical Review B, 2021, 103, .	3.2	4
29	Local symmetry approach to relaxor ferroelectrics. Europhysics Letters, 2013, 103, 37013.	2.0	3
30	Probing the dynamics of ferroelectric topological oscillators with the electron beam. Microscopy and Microanalysis, 2021, 27, 690-692.	0.4	2
31	Domain-wall-induced electromagnons in multiferroics. Physical Review Materials, 2022, 6, .	2.4	2
32	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