

# Guillaume F Nataf

## List of Publications by Year in descending order

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24  
papers

856  
citations

471477

17  
h-index

580810

25  
g-index

25  
all docs

25  
docs citations

25  
times ranked

1149  
citing authors

#	ARTICLE	IF	CITATIONS
1	Domain-wall engineering and topological defects in ferroelectric and ferroelastic materials. Nature Reviews Physics, 2020, 2, 634-648.	26.6	154
2	Magnetic properties of the honeycomb oxide $\text{Na}_2\text{Co}_2\text{TeO}_6$ . Physical Review B, 2016, 94, 040405.	3.2	90
3	Avalanches in compressed porous $\text{SiO}_2$ -based materials. Physical Review E, 2014, 90, 022405.	2.1	76
4	Direct Observation of Ferroelectric Domain Walls in $\text{LiNbO}_3$ : Wall Meanders, Kinks, and Local Electric Charges. Advanced Functional Materials, 2016, 26, 7599-7604.	14.9	72
5	Elastic excitations in $\text{BaTiO}_3$ single crystals and ceramics: Mobile domain boundaries and polar nanoregions observed by resonant ultrasonic spectroscopy. Physical Review B, 2013, 87, 114111.	3.2	63
6	Direct observation of polar tweed in $\text{LaAlO}_3$ . Scientific Reports, 2016, 6, 27193.	3.3	45
7	Predicting failure: acoustic emission of berlinite under compression. Journal of Physics Condensed Matter, 2014, 26, 275401.	1.8	44
8	Ultrafast acousto-optic mode conversion in optically birefringent ferroelectrics. Nature Communications, 2016, 7, 12345.	12.8	41
9	Experimental Evidence of Accelerated Seismic Release without Critical Failure in Acoustic Emissions of Compressed Nanoporous Materials. Physical Review Letters, 2018, 120, 245501.	7.8	34
10	Avalanches from charged domain wall motion in $\text{BaTiO}_3$ during ferroelectric switching. APL Materials, 2020, 8, 011105.	5.1	31
11	Avalanche criticality during ferroelectric/ferroelastic switching. Nature Communications, 2021, 12, 345.	12.8	31
12	Low energy electron imaging of domains and domain walls in magnesium-doped lithium niobate. Scientific Reports, 2016, 6, 33098.	3.3	22
13	Control of surface potential at polar domain walls in a nonpolar oxide. Physical Review Materials, 2017, 1, .	2.4	20
14	Ferroelastic aspects of relaxor ferroelectric behaviour in $\text{Pb}(\text{In}_{1/2}\text{Nb}_{1/2})\text{O}_3$ - $\text{Pb}(\text{Mg}_{1/3}\text{Nb}_{2/3})\text{O}_3$ - $\text{PbTiO}_3$ perovskite. Journal of Applied Physics, 2013, 113, 124102.	2.5	19
15	Evolution of defect signatures at ferroelectric domain walls in Mg-doped $\text{LiNbO}_3$ . Physica Status Solidi - Rapid Research Letters, 2016, 10, 222-226.	2.4	19
16	Optical studies of ferroelectric and ferroelastic domain walls. Journal of Physics Condensed Matter, 2020, 32, 183001.	1.8	19
17	Influence of defects and domain walls on dielectric and mechanical resonances in $\text{LiNbO}_3$ . Journal of Physics Condensed Matter, 2016, 28, 015901.	1.8	18
18	Avalanches in ferroelectric, ferroelastic and coelastic materials: phase transition, domain switching and propagation. Ferroelectrics, 2020, 569, 82-107.	0.6	17

#	ARTICLE	IF	CITATIONS
19	Field induced modification of defect complexes in magnesium-doped lithium niobate. Journal of Applied Physics, 2014, 116, 244102.	2.5	10
20	Elastic anomalies associated with domain switching in BaTiO <sub>3</sub> single crystals under in situ electrical cycling. APL Materials, 2019, 7, 051109.	5.1	10
21	Raman signatures of ferroic domain walls captured by principal component analysis. Journal of Physics Condensed Matter, 2018, 30, 035902.	1.8	6
22	Quantitative atomic order characterization of a Mn <sub>2</sub> FeAl Heusler epitaxial thin film. Journal Physics D: Applied Physics, 2022, 55, 185305.	2.8	6
23	High-contrast imaging of 180° ferroelectric domains by optical microscopy using ferroelectric liquid crystals. Applied Physics Letters, 2020, 116, 212901.	3.3	2
24	Suppression of acoustic emission during superelastic tensile cycling of polycrystalline $\text{NiTi}_{50.4}\text{Zr}_{49.6}$ . Physical Review Materials, 2020, 4, .	2.4	50.4