Guillaume F Nataf

List of Publications by Year in Descending Order

24 papers	563 citations	14 h-index	23 g-index
25 ext. papers	706 ext. citations	5.7 avg, IF	4.14 L-index

#	Paper	IF	Citations
24	Quantitative atomic order characterization of a Mn2FeAl Heusler epitaxial thin film. *Journal Physics D: Applied Physics*, **2022**, 55, 185305	3	1
23	Avalanche criticality during ferroelectric/ferroelastic switching. *Nature Communications*, **2021**, 12, 345	17.4	11
22	High-contrast imaging of 180□ferroelectric domains by optical microscopy using ferroelectric liquid crystals. *Applied Physics Letters*, **2020**, 116, 212901	3.4	2
21	Optical studies of ferroelectric and ferroelastic domain walls. *Journal of Physics Condensed Matter*, **2020**, 32, 183001	1.8	14
20	Suppression of acoustic emission during superelastic tensile cycling of polycrystalline Ni50.4Ti49.6. *Physical Review Materials*, **2020**, 4,	3.2	1
19	Avalanches in ferroelectric, ferroelastic and coelastic materials: phase transition, domain switching and propagation. *Ferroelectrics*, **2020**, 569, 82-107	0.6	8
18	Avalanches from charged domain wall motion in BaTiO3 during ferroelectric switching. *APL Materials*, **2020**, 8, 011105	5.7	25
17	Domain-wall engineering and topological defects in ferroelectric and ferroelastic materials. *Nature Reviews Physics*, **2020**, 2, 634-648	23.6	54
16	Elastic anomalies associated with domain switching in BaTiO3 single crystals under in situ electrical cycling. *APL Materials*, **2019**, 7, 051109	5.7	7
15	Raman signatures of ferroic domain walls captured by principal component analysis. *Journal of Physics Condensed Matter*, **2018**, 30, 035902	1.8	5
14	Experimental Evidence of Accelerated Seismic Release without Critical Failure in Acoustic Emissions of Compressed Nanoporous Materials. *Physical Review Letters*, **2018**, 120, 245501	7.4	25
13	Control of surface potential at polar domain walls in a nonpolar oxide. *Physical Review Materials*, **2017**, 1,	3.2	16
12	Direct Observation of Ferroelectric Domain Walls in LiNbO3: Wall-Meanders, Kinks, and Local Electric Charges. *Advanced Functional Materials*, **2016**, 26, 7599-7604	15.6	53
11	Low energy electron imaging of domains and domain walls in magnesium-doped lithium niobate. *Scientific Reports*, **2016**, 6, 33098	4.9	17
10	Direct observation of polar tweed in LaAlO3. *Scientific Reports*, **2016**, 6, 27193	4.9	38
9	Influence of defects and domain walls on dielectric and mechanical resonances in LiNbO3. *Journal of Physics Condensed Matter*, **2016**, 28, 015901	1.8	14
8	Evolution of defect signatures at ferroelectric domain walls in Mg-doped LiNbO3. *Physica Status Solidi - Rapid Research Letters*, **2016**, 10, 222-226	2.5	15

7	Ultrafast acousto-optic mode conversion in optically birefringent ferroelectrics. *Nature Communications*, **2016**, 7, 12345	17.4	32
6	Magnetic properties of the honeycomb oxide Na2Co2TeO6. *Physical Review B*, **2016**, 94,	3.3	40
5	Predicting failure: acoustic emission of berlinite under compression. *Journal of Physics Condensed Matter*, **2014**, 26, 275401	1.8	35
4	Field induced modification of defect complexes in magnesium-doped lithium niobate. *Journal of Applied Physics*, **2014**, 116, 244102	2.5	9
3	Avalanches in compressed porous SiO(2)-based materials. *Physical Review E*, **2014**, 90, 022405	2.4	64
2	Elastic excitations in BaTiO3 single crystals and ceramics: Mobile domain boundaries and polar nanoregions observed by resonant ultrasonic spectroscopy. *Physical Review B*, **2013**, 87,	3.3	55
1	Ferroelastic aspects of relaxor ferroelectric behaviour in Pb(In1/2Nb1/2)O3-Pb(Mg1/3Nb2/3)O3-PbTiO3 perovskite. *Journal of Applied Physics*, **2013**, 113, 124102	2.5	19