

# Guillaume F Nataf

## List of Publications by Citations

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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	Avalanches in compressed porous SiO(2)-based materials. <i>Physical Review E</i> , <b>2014</b> , 90, 022405	2.4	64
23	Elastic excitations in BaTiO3 single crystals and ceramics: Mobile domain boundaries and polar nanoregions observed by resonant ultrasonic spectroscopy. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	55
22	Domain-wall engineering and topological defects in ferroelectric and ferroelastic materials. <i>Nature Reviews Physics</i> , <b>2020</b> , 2, 634-648	23.6	54
21	Direct Observation of Ferroelectric Domain Walls in LiNbO3: Wall-Meanders, Kinks, and Local Electric Charges. <i>Advanced Functional Materials</i> , <b>2016</b> , 26, 7599-7604	15.6	53
20	Magnetic properties of the honeycomb oxide Na2Co2TeO6. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	40
19	Direct observation of polar tweed in LaAlO3. <i>Scientific Reports</i> , <b>2016</b> , 6, 27193	4.9	38
18	Predicting failure: acoustic emission of berlinite under compression. <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 275401	1.8	35
17	Ultrafast acousto-optic mode conversion in optically birefringent ferroelectrics. <i>Nature Communications</i> , <b>2016</b> , 7, 12345	17.4	32
16	Experimental Evidence of Accelerated Seismic Release without Critical Failure in Acoustic Emissions of Compressed Nanoporous Materials. <i>Physical Review Letters</i> , <b>2018</b> , 120, 245501	7.4	25
15	Avalanches from charged domain wall motion in BaTiO3 during ferroelectric switching. <i>APL Materials</i> , <b>2020</b> , 8, 011105	5.7	25
14	Ferroelastic aspects of relaxor ferroelectric behaviour in Pb(In <sub>1/2</sub> Nb <sub>1/2</sub> )O <sub>3</sub> -Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> -PbTiO <sub>3</sub> perovskite. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 124102 <sup>2-5</sup>		19
13	Low energy electron imaging of domains and domain walls in magnesium-doped lithium niobate. <i>Scientific Reports</i> , <b>2016</b> , 6, 33098	4.9	17
12	Control of surface potential at polar domain walls in a nonpolar oxide. <i>Physical Review Materials</i> , <b>2017</b> , 1,	3.2	16
11	Evolution of defect signatures at ferroelectric domain walls in Mg-doped LiNbO3. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2016</b> , 10, 222-226	2.5	15
10	Optical studies of ferroelectric and ferroelastic domain walls. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 183001	1.8	14
9	Influence of defects and domain walls on dielectric and mechanical resonances in LiNbO3. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 015901	1.8	14
8	Avalanche criticality during ferroelectric/ferroelastic switching. <i>Nature Communications</i> , <b>2021</b> , 12, 345	17.4	11

7	Field induced modification of defect complexes in magnesium-doped lithium niobate. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 244102	2.5	9
6	Avalanches in ferroelectric, ferroelastic and coelastic materials: phase transition, domain switching and propagation. <i>Ferroelectrics</i> , <b>2020</b> , 569, 82-107	0.6	8
5	Elastic anomalies associated with domain switching in BaTiO <sub>3</sub> single crystals under in situ electrical cycling. <i>APL Materials</i> , <b>2019</b> , 7, 051109	5.7	7
4	Raman signatures of ferroic domain walls captured by principal component analysis. <i>Journal of Physics Condensed Matter</i> , <b>2018</b> , 30, 035902	1.8	5
3	High-contrast imaging of 180° ferroelectric domains by optical microscopy using ferroelectric liquid crystals. <i>Applied Physics Letters</i> , <b>2020</b> , 116, 212901	3.4	2
2	Quantitative atomic order characterization of a Mn <sub>2</sub> FeAl Heusler epitaxial thin film. <i>Journal Physics D: Applied Physics</i> , <b>2022</b> , 55, 185305	3	1
1	Suppression of acoustic emission during superelastic tensile cycling of polycrystalline Ni <sub>50.4</sub> Ti <sub>49.6</sub> . <i>Physical Review Materials</i> , <b>2020</b> , 4,	3.2	1