

# Daniel Sando

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6523778/publications.pdf>

Version: 2024-02-01

50  
papers

2,203  
citations

304368

22  
h-index

223531

46  
g-index

50  
all docs

50  
docs citations

50  
times ranked

2884  
citing authors

#	ARTICLE	IF	CITATIONS
1	Crafting the magnonic and spintronic response of BiFeO <sub>3</sub> films by epitaxial strain. Nature Materials, 2013, 12, 641-646.	13.3	311
2	Nonvolatile ferroelectric domain wall memory. Science Advances, 2017, 3, e1700512.	4.7	269
3	BiFeO <sub>3</sub> epitaxial thin films and devices: past, present and future. Journal of Physics Condensed Matter, 2014, 26, 473201.	0.7	231
4	Room Temperature Electrical Manipulation of Giant Magnetoresistance in Spin Valves Exchange-Biased with BiFeO <sub>3</sub> . Nano Letters, 2012, 12, 1141-1145.	4.5	157
5	Chemical route derived bismuth ferrite thin films and nanomaterials. Journal of Materials Chemistry C, 2016, 4, 4092-4124.	2.7	148
6	A multiferroic on the brink: Uncovering the nuances of strain-induced transitions in BiFeO <sub>3</sub> . Applied Physics Reviews, 2016, 3, 011106.	5.5	91
7	Large elasto-optic effect and reversible electrochromism in multiferroic BiFeO <sub>3</sub> . Nature Communications, 2016, 7, 10718.	5.8	88
8	Strain and Magnetic Field Induced Spin <sup>2</sup> Structure Transitions in Multiferroic BiFeO <sub>3</sub> . Advanced Materials, 2017, 29, 1602327.	11.1	76
9	Revisiting the Optical Band Gap in Epitaxial BiFeO <sub>3</sub> Thin Films. Advanced Optical Materials, 2018, 6, 1700836.	3.6	61
10	Antiferromagnetic textures in BiFeO <sub>3</sub> controlled by strain and electric field. Nature Communications, 2020, 11, 1704.	5.8	61
11	Thickness-Dependent Polarization of Strained $\text{BiFeO}_3$ Films with Constant Tetragonality. Physical Review Letters, 2012, 109, 267601.	2.9	58
12	Conformational Domain Wall Switch. Advanced Functional Materials, 2019, 29, 1807523.	7.8	47
13	Epitaxial ferroelectric oxide thin films for optical applications. Applied Physics Reviews, 2018, 5, 041108.	5.5	46
14	The Experimentalist's Guide to the Cycloid, or Noncollinear Antiferromagnetism in Epitaxial BiFeO <sub>3</sub> . Advanced Materials, 2020, 32, e2003711.	11.1	45
15	Superior polarization retention through engineered domain wall pinning. Nature Communications, 2020, 11, 349.	5.8	44
16	Full field electron spectromicroscopy applied to ferroelectric materials. Journal of Applied Physics, 2013, 113, .	1.1	43
17	Linear electro-optic effect in multiferroic $\text{BiFeO}_3$ films. Physical Review B, 2014, 89, .	1.1	37
18	Anisotropic epitaxial stabilization of a low-symmetry ferroelectric with enhanced electromechanical response. Nature Materials, 2022, 21, 74-80.	13.3	35

#	ARTICLE	IF	CITATIONS
19	Large Elasto-Optic Effect in Epitaxial $\text{PbTiO}_3$ thin films. Physical Review Letters, 2015, 115, 267602.		
20	Expansion of the spin cycloid in multiferroic $\text{BiFeO}_3$ thin films. Npj Quantum Materials, 2019, 4, .	1.8	33
21	Control of ferroelectricity and magnetism in multi-ferroic $\text{BiFeO}_3$ by epitaxial strain. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20120438.	1.6	32
22	Interfacial Strain Gradients Control Nanoscale Domain Morphology in Epitaxial $\text{BiFeO}_3$ Multiferroic Films. Advanced Functional Materials, 2020, 30, 2000343.	7.8	26
23	Strain and orientation engineering in $\text{ABO}_3$ perovskite oxide thin films. Journal of Physics Condensed Matter, 2022, 34, 153001.	0.7	20
24	Morphology-dependent photo-induced polarization recovery in ferroelectric thin films. Applied Physics Letters, 2017, 111, .	1.5	19
25	A magnetic phase diagram for nanoscale epitaxial $\text{BiFeO}_3$ films. Applied Physics Reviews, 2019, 6, .	5.5	19
26	Designer defect stabilization of the super tetragonal phase in $\sim 70$ -nm-thick $\text{BiFeO}_3$ films on $\text{LaAlO}_3$ substrates. Japanese Journal of Applied Physics, 2018, 57, 0902B2.	0.8	16
27	Structural, magnetic, and electronic properties of $\text{GdTiO}_3$ Mott insulator thin films grown by pulsed laser deposition. Applied Physics Letters, 2014, 105, .	1.5	15
28	Structural, magnetic, and ferroelectric properties of T-like cobalt-doped $\text{BiFeO}_3$ thin films. APL Materials, 2018, 6, .	2.2	15
29	Suppression of creep-regime dynamics in epitaxial ferroelectric $\text{BiFeO}_3$ films. Scientific Reports, 2015, 5, 10485.	1.6	14
30	Mixed-phase bismuth ferrite thin films by chemical solution deposition. Journal of Materials Chemistry C, 2018, 6, 2882-2888.	2.7	11
31	Insight into magnetic, ferroelectric and elastic properties of strained $\text{BiFeO}_3$ thin films through Mössbauer spectroscopy. Applied Physics Letters, 2016, 109, .	1.5	10
32	Tuning Phase Fractions and Leakage Properties of Chemical Solution Deposition-Derived Mixed-Phase $\text{BiFeO}_3$ Thin Films. ACS Applied Electronic Materials, 2020, 2, 4099-4110.	2.0	9
33	Influence of flexoelectricity on the spin cycloid in (110)-oriented $\text{BiFeO}_3$ thin films. Physical Review Materials, 2019, 3, .	0.9	9
34	Controlled Nucleation and Stabilization of Ferroelectric Domain Wall Patterns in Epitaxial (110) Bismuth Ferrite Heterostructures. Advanced Functional Materials, 2020, 30, 2003571.	7.8	8
35	Robust ferroelectric polarization retention in harsh environments through engineered domain wall pinning. Journal of Applied Physics, 2021, 129, .	1.1	8
36	X-ray photoemission studies of $\text{BiInO}_3$ : Surface termination and effective Debye temperature. Journal of Applied Physics, 2021, 130, .	1.1	7

#	ARTICLE	IF	CITATIONS
37	Controlling topological defect transitions in nanoscale lead zirconate titanate heterostructures. <i>Physical Review Materials</i> , 2021, 5, .	0.9	7
38	Optical data encryption using time-dependent dynamics of refractive index changes in LiNbO <sub>3</sub> . <i>Optics Express</i> , 2013, 21, 19510.	1.7	6
39	Probing polarization dynamics at specific domain configurations: Computer-vision based automated experiment in piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	5
40	Depolarization field tuning of nanoscale ferroelectric domains in (001)PbZr <sub>0.4</sub> Ti <sub>0.6</sub> O <sub>3</sub> /SrTiO <sub>3</sub> /PbZr <sub>0.4</sub> Ti <sub>0.6</sub> O <sub>3</sub> epitaxial heterostructures. <i>Journal of Applied Physics</i> , 2021, 129, 024104.	1.1	5
41	Tunable Microwave Conductance of Nanodomains in Ferroelectric PbZr <sub>0.2</sub> Ti <sub>0.8</sub> O <sub>3</sub> Thin Film. <i>Advanced Electronic Materials</i> , 2022, 8, 2100952.	2.6	5
42	Reversal of degradation of information masks in lithium niobate. <i>Applied Optics</i> , 2009, 48, 4676.	2.1	4
43	Antiphase-Boundary-Engineered Domain Switching in a (110)-Oriented BiFeO <sub>3</sub> Film. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3226-3233.	2.0	4
44	Specific Conductivity of a Ferroelectric Domain Wall. <i>ACS Applied Electronic Materials</i> , 0, , .	2.0	4
45	Understanding the Role of Defective Phases on the Conductivity Behavior of Strained Epitaxial LaNiO <sub>3</sub> Thin Films. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1196-1205.	2.0	3
46	A method to remotely measure temperature change in a lithium niobate crystal using birefringence. <i>Journal of the European Optical Society-Rapid Publications</i> , 0, 4, .	0.9	2
47	Effect of gas atmospheres on degradation of MgO thin film magnetic tunneling junctions by deionized water. <i>Thin Solid Films</i> , 2020, 709, 138185.	0.8	2
48	Propagation of priors for more accurate and efficient spectroscopic functional fits and their application to ferroelectric hysteresis. <i>Machine Learning: Science and Technology</i> , 2021, 2, 045002.	2.4	2
49	Synthetic Bilayers on Mica from Self-Assembly of Hydrogen-Bonded Triazines. <i>Langmuir</i> , 2020, 36, 13301-13311.	1.6	1
50	Empirical approach to measuring interface energies in mixed-phase bismuth ferrite. <i>Physical Review Materials</i> , 2021, 5, .	0.9	0