

Daniel Sando

List of Publications by Year in descending order

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50
papers

2,203
citations

304368

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223531

46
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50
all docs

50
docs citations

50
times ranked

2884
citing authors

#	ARTICLE	IF	CITATIONS
1	Anisotropic epitaxial stabilization of a low-symmetry ferroelectric with enhanced electromechanical response. <i>Nature Materials</i> , 2022, 21, 74-80.	13.3	35
2	Strain and orientation engineering in ABO_3 perovskite oxide thin films. <i>Journal of Physics Condensed Matter</i> , 2022, 34, 153001.	0.7	20
3	Understanding the Role of Defective Phases on the Conductivity Behavior of Strained Epitaxial $LaNiO_3$ Thin Films. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1196-1205.	2.0	3
4	Tunable Microwave Conductance of Nanodomains in Ferroelectric $PbZr_{0.2}Ti_{0.8}O_3$ Thin Film. <i>Advanced Electronic Materials</i> , 2022, 8, 2100952.	2.6	5
5	Robust ferroelectric polarization retention in harsh environments through engineered domain wall pinning. <i>Journal of Applied Physics</i> , 2021, 129, .	1.1	8
6	Empirical approach to measuring interface energies in mixed-phase bismuth ferrite. <i>Physical Review Materials</i> , 2021, 5, .	0.9	0
7	Antiphase-Boundary-Engineered Domain Switching in a (110)-Oriented $BiFeO_3$ Film. <i>ACS Applied Electronic Materials</i> , 2021, 3, 3226-3233.	2.0	4
8	X-ray photoemission studies of $BiInO_3$: Surface termination and effective Debye temperature. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	7
9	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
10	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
11	Depolarization field tuning of nanoscale ferroelectric domains in $(001)PbZr_{0.4}Ti_{0.6}O_3/SrTiO_3/PbZr_{0.4}Ti_{0.6}O_3$ epitaxial heterostructures. <i>Journal of Applied Physics</i> , 2021, 129, 024104.	1.1	5
12	Controlling topological defect transitions in nanoscale lead zirconate titanate heterostructures. <i>Physical Review Materials</i> , 2021, 5, .	0.9	7
13	Synthetic Bilayers on Mica from Self-Assembly of Hydrogen-Bonded Triazines. <i>Langmuir</i> , 2020, 36, 13301-13311.	1.6	1
14	The Experimentalist's Guide to the Cycloid, or Noncollinear Antiferromagnetism in Epitaxial $BiFeO_3$. <i>Advanced Materials</i> , 2020, 32, e2003711.	11.1	45
15	Controlled Nucleation and Stabilization of Ferroelectric Domain Wall Patterns in Epitaxial (110) Bismuth Ferrite Heterostructures. <i>Advanced Functional Materials</i> , 2020, 30, 2003571.	7.8	8
16	Tuning Phase Fractions and Leakage Properties of Chemical Solution Deposition-Derived Mixed-Phase $BiFeO_3$ Thin Films. <i>ACS Applied Electronic Materials</i> , 2020, 2, 4099-4110.	2.0	9
17	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
18	Superior polarization retention through engineered domain wall pinning. <i>Nature Communications</i> , 2020, 11, 349.	5.8	44

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19	Interfacial Strain Gradients Control Nanoscale Domain Morphology in Epitaxial BiFeO ₃ Multiferroic Films. <i>Advanced Functional Materials</i> , 2020, 30, 2000343.	7.8	26
20	Antiferromagnetic textures in BiFeO ₃ controlled by strain and electric field. <i>Nature Communications</i> , 2020, 11, 1704.	5.8	61
21	A magnetic phase diagram for nanoscale epitaxial BiFeO ₃ films. <i>Applied Physics Reviews</i> , 2019, 6, .	5.5	19
22	Expansion of the spin cycloid in multiferroic BiFeO ₃ thin films. <i>Npj Quantum Materials</i> , 2019, 4, .	1.8	33
23	Conformational Domain Wall Switch. <i>Advanced Functional Materials</i> , 2019, 29, 1807523.	7.8	47
24	Influence of flexoelectricity on the spin cycloid in (110)-oriented BiFeO ₃ films. <i>Physical Review Materials</i> , 2019, 3, .	0.9	9
25	Structural, magnetic, and ferroelectric properties of T-like cobalt-doped BiFeO ₃ thin films. <i>APL Materials</i> , 2018, 6, .	2.2	15
26	Mixed-phase bismuth ferrite thin films by chemical solution deposition. <i>Journal of Materials Chemistry C</i> , 2018, 6, 2882-2888.	2.7	11
27	Revisiting the Optical Band Gap in Epitaxial BiFeO ₃ Thin Films. <i>Advanced Optical Materials</i> , 2018, 6, 1700836.	3.6	61
28	Epitaxial ferroelectric oxide thin films for optical applications. <i>Applied Physics Reviews</i> , 2018, 5, 041108.	5.5	46
29	Designer defect stabilization of the super tetragonal phase in ~70-nm-thick BiFeO ₃ films on LaAlO ₃ substrates. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 0902B2.	0.8	16
30	Strain and Magnetic Field Induced Spin-Structure Transitions in Multiferroic BiFeO ₃ . <i>Advanced Materials</i> , 2017, 29, 1602327.	11.1	76
31	Morphology-dependent photo-induced polarization recovery in ferroelectric thin films. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	19
32	Nonvolatile ferroelectric domain wall memory. <i>Science Advances</i> , 2017, 3, e1700512.	4.7	269
33	Insight into magnetic, ferroelectric and elastic properties of strained BiFeO ₃ thin films through Mössbauer spectroscopy. <i>Applied Physics Letters</i> , 2016, 109, .	1.5	10
34	A multiferroic on the brink: Uncovering the nuances of strain-induced transitions in BiFeO ₃ . <i>Applied Physics Reviews</i> , 2016, 3, 011106.	5.5	91
35	Chemical route derived bismuth ferrite thin films and nanomaterials. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4092-4124.	2.7	148
36	Large elasto-optic effect and reversible electrochromism in multiferroic BiFeO ₃ . <i>Nature Communications</i> , 2016, 7, 10718.	5.8	88

#	ARTICLE	IF	CITATIONS
37	Large Elasto-Optic Effect in Epitaxial PbTiO_3 Films. Physical Review Letters, 2015, 115, 267602.		
38	Suppression of creep-regime dynamics in epitaxial ferroelectric BiFeO_3 films. Scientific Reports, 2015, 5, 10485.	1.6	14
39	Structural, magnetic, and electronic properties of GdTiO_3 Mott insulator thin films grown by pulsed laser deposition. Applied Physics Letters, 2014, 105, .	1.5	15
40	Linear electro-optic effect in multiferroic BiFeO_3 films. Physical Review B, 2014, 89, .	1.1	37
41	BiFeO_3 epitaxial thin films and devices: past, present and future. Journal of Physics Condensed Matter, 2014, 26, 473201.	0.7	231
42	Control of ferroelectricity and magnetism in multi-ferroic BiFeO_3 by epitaxial strain. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20120438.	1.6	32
43	Full field electron spectromicroscopy applied to ferroelectric materials. Journal of Applied Physics, 2013, 113, .	1.1	43
44	Crafting the magnonic and spintronic response of BiFeO_3 films by epitaxial strain. Nature Materials, 2013, 12, 641-646.	13.3	311
45	Optical data encryption using time-dependent dynamics of refractive index changes in LiNbO_3 . Optics Express, 2013, 21, 19510.	1.7	6
46	Thickness-Dependent Polarization of Strained BiFeO_3 Films with Constant Tetragonality. Physical Review Letters, 2012, 109, 267601.	2.9	58
47	Room Temperature Electrical Manipulation of Giant Magnetoresistance in Spin Valves Exchange-Biased with BiFeO_3 . Nano Letters, 2012, 12, 1141-1145.	4.5	157
48	Reversal of degradation of information masks in lithium niobate. Applied Optics, 2009, 48, 4676.	2.1	4
49	A method to remotely measure temperature change in a lithium niobate crystal using birefringence. Journal of the European Optical Society-Rapid Publications, 0, 4, .	0.9	2
50	Specific Conductivity of a Ferroelectric Domain Wall. ACS Applied Electronic Materials, 0, , .	2.0	4