Shishir Pandya

List of Publications by Year
in descending order

26	1,139	471061 17	552369 26
papers	citations	h-index	g-index

26	26	26	1951
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pyroelectric energy conversion with large energy and power density in relaxor ferroelectric thin films. Nature Materials, 2018, 17, 432-438.	13.3	198
2	Identifying orthogonal solvents for solution processed organic transistors. Organic Electronics, 2016, 30, 18-29.	1.4	90
3	New modalities of strain-control of ferroelectric thin films. Journal of Physics Condensed Matter, 2016, 28, 263001.	0.7	86
4	Resonant domain-wall-enhanced tunable microwave ferroelectrics. Nature, 2018, 560, 622-627.	13.7	82
5	New approach to waste-heat energy harvesting: pyroelectric energy conversion. NPG Asia Materials, 2019, 11, .	3.8	78
6	Threeâ€€state Ferroelastic Switching and Large Electromechanical Responses in PbTiO₃ Thin Films. Advanced Materials, 2017, 29, 1702069.	11.1	74
7	Large polarization gradients and temperature-stable responses in compositionally-graded ferroelectrics. Nature Communications, 2017, 8, 14961.	5.8	60
8	Direct Measurement of Pyroelectric and Electrocaloric Effects in Thin Films. Physical Review Applied, 2017, 7, .	1.5	54
9	Effect of sintering temperature on the mechanical and electrochemical properties of austenitic stainless steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 556, 271-277.	2.6	52
10	Complex Evolution of Built-in Potential in Compositionally-Graded PbZr_{1â€“x}Ti_xO₃ Thin Films. ACS Nano, 2015, 9, 7332-7342.	7.3	39
11	Revealing ferroelectric switching character using deep recurrent neural networks. Nature Communications, 2019, 10, 4809.	5.8	34
12	Understanding the Role of Ferroelastic Domains on the Pyroelectric and Electrocaloric Effects in Ferroelectric Thin Films. Advanced Materials, 2019, 31, e1803312.	11.1	34
13	Designing Optimal Perovskite Structure for High Ionic Conduction. Advanced Materials, 2020, 32, e1905178.	11.1	30
14	Single gate p-n junctions in graphene-ferroelectric devices. Applied Physics Letters, 2016, 108, .	1.5	26
15	Pyroelectric and electrocaloric effects in ferroelectric silicon-doped hafnium oxide thin films. Physical Review Materials, 2018, 2, .	0.9	26
16	Strain-induced growth instability and nanoscale surface patterning in perovskite thin films. Scientific Reports, 2016, 6, 26075.	1.6	24
17	Machine Detection of Enhanced Electromechanical Energy Conversion in PbZr_{0.2}Ti_{0.8}O₃ Thin Films. Advanced Materials, 2018, 30, e1800701.	11.1	23
18	Pyroelectric thin filmsâ€”Past, present, and future. APL Materials, 2021, 9, .	2.2	20

#	Article	IF	Citations
19	Frontiers in strain-engineered multifunctional ferroic materials. MRS Communications, 2016, 6, 151-166.	0.8	17
20	Large Polarization and Susceptibilities in Artificial Morphotropic Phase Boundary PbZr_{1â^'}_xTi_xO₃ Superlattices. Advanced Electronic Materials, 2020, 6, 1901395.	2.6	17
21	Nonstoichiometry, structure, and properties of Ba_{1â^'x}TiO_ythin films. Journal of Materials Chemistry C, 2018, 6, 10751-10759.	2.7	16
22	Quantifying Intrinsic, Extrinsic, Dielectric, and Secondary Pyroelectric Responses in PbZr_{1â€“x}Ti_xO₃ Thin Films. ACS Applied Materials & Interfaces, 2019, 11, 35146-35154.	4.0	16
23	Slow Conductance Relaxation in Grapheneâ€“Ferroelectric Field-Effect Transistors. Journal of Physical Chemistry C, 2017, 121, 7542-7548.	1.5	15
24	Enhanced pyroelectric properties of Bi1â^'xLaxFeO3 thin films. APL Materials, 2019, 7, .	2.2	11
25	Epitaxy on polycrystalline substrates. Science, 2017, 358, 587-588.	6.0	10
26	A Predictive Theory for Domain Walls in Oxide Ferroelectrics Based on Interatomic Interactions and its Implications for Collective Material Properties. Advanced Materials, 2022, 34, e2106021.	11.1	7