

Alp Sehirlioglu

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,134
citations

516710

16
h-index

414414

32
g-index

57
all docs

57
docs citations

57
times ranked

2008
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer Composites for Thermoelectric Applications. Angewandte Chemie - International Edition, 2015, 54, 1710-1723.	13.8	252
2	Experimental search for high-temperature ferroelectric perovskites guided by two-step machine learning. Nature Communications, 2018, 9, 1668.	12.8	189
3	High temperature properties of BiScO ₃ -PbTiO ₃ piezoelectric ceramics. Journal of Applied Physics, 2009, 106, .	2.5	70
4	Uncertainty analysis for common Seebeck and electrical resistivity measurement systems. Review of Scientific Instruments, 2014, 85, 085119.	1.3	60
5	Doping of BiScO ₃ -PbTiO ₃ Ceramics for Enhanced Properties. Journal of the American Ceramic Society, 2010, 93, 1718-1724.	3.8	39
6	Microstructure-Property Relationships in Liquid Phase-Sintered High-Temperature Bismuth Scandium Oxide-Lead Titanate Piezoceramics. Journal of the American Ceramic Society, 2008, 91, 2910-2916.	3.8	35
7	Stabilization of oil-in-water emulsions with graphene oxide and cobalt oxide nanosheets and preparation of armored polymer particles. Journal of Colloid and Interface Science, 2019, 541, 269-278.	9.4	30
8	Thermal expansion of phase transformations in (1-x)Pb(Mg _{1/3} Nb _{2/3})O ₃ -xPbTiO ₃ : Evidence for preferred domain alignment in one of the \hat{y} directions for melt-grown crystals. Physical Review B, 2005, 72, .	3.2	29
9	Effect of poling on dielectric anomalies at phase transitions for lead magnesium niobate-lead titanate crystals in the morphotropic phase boundary region. Journal of Applied Physics, 2006, 99, 064101.	2.5	27
10	Atomic-resolved depth profile of strain and cation intermixing around LaAlO ₃ /SrTiO ₃ interfaces. Scientific Reports, 2016, 6, 28118.	3.3	26
11	Energy-efficient ULF/VLF transmitters based on mechanically-rotating dipoles. , 2017, .		24
12	The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. Journal of the American Ceramic Society, 2017, 100, 1777-1803.	3.8	23
13	Anisotropic electrical resistance in mesoscopic LaAlO ₃ /SrTiO ₃ devices with individual domain walls. Scientific Reports, 2017, 7, 44361.	3.3	20
14	Characterization of the High-Temperature Ferroelectric (100-x-y)BiScO ₃ -xPbTiO ₃ -yZrO ₂ Perovskite Ternary Solid Solution. Journal of the American Ceramic Society, 2014, 97, 490-497.	3.3	19
15	Si/Ge-WSi ₂ composites: Processing and thermoelectric properties. Acta Materialia, 2015, 98, 263-274.	7.9	17
16	Core-level binding energy shifts as a tool to study surface processes on LaAlO ₃ /SrTiO ₃ . Journal of Electron Spectroscopy and Related Phenomena, 2017, 218, 21-29.	1.7	17
17	Ultrathin 2D-oxides: A perspective on fabrication, structure, defect, transport, electron, and phonon properties. Journal of Applied Physics, 2021, 129, .	2.5	17
18	Thermoelectric properties of WSi ₂ -SixGe _{1-x} composites. Journal of Alloys and Compounds, 2014, 604, 196-203.	5.5	16

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19	Structure and Piezoelectric Properties Near the Bismuth Scandium Oxide–Lead Zirconate–Lead Titanate Ternary Morphotropic Phase Boundary. <i>Journal of the American Ceramic Society</i> , 2011, 94, 788-795.	3.8	15
20	Strain relaxation analysis of LaAlO ₃ /SrTiO ₃ heterostructure using reciprocal lattice mapping. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	13
21	Cation deficiency associated with the chemical exfoliation of lithium cobalt oxide. <i>Journal of the American Ceramic Society</i> , 2019, 102, 5603-5612.	3.8	12
22	Thermoelectric Properties of Undoped and Doped (x)Bi(Zn _{0.5} Zr _{0.5})O ₃ –(y)BiScO ₃ –(100–x–y)PbTiO ₃ . <i>Journal of the American Ceramic Society</i> , 2012, 95, 619-626.	3.8	12
23	Thermoelectric characteristics of textured KSr ₂ Nb ₅ O ₁₅ ceramics. <i>Scripta Materialia</i> , 2016, 112, 114-117.	5.2	11
24	Electrical Characterization and Charge Transport in Chemically Exfoliated 2D Li _x CoO ₂ Nanoflakes. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20693-20700.	3.1	11
25	Hyper-Raman-active soft mode in Pb(Mg _{1/3} Nb _{2/3}) _{0.73} Ti _{0.27} O ₃ . <i>Physical Review B</i> , 2006, 73, .	3.2	10
26	Visualizing Charge Transport and Nanoscale Electrochemistry by Hyperspectral Kelvin Probe Force Microscopy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 33361-33369.	8.0	10
27	Role of the different defects, their population and distribution in the LaAlO ₃ /SrTiO ₃ heterostructure's behavior. <i>Journal of Applied Physics</i> , 2018, 123, .	2.5	9
28	Effects of microstructure on fracture strength and conductivity of sintered NMC333. <i>Journal of the American Ceramic Society</i> , 2020, 103, 1527-1535.	3.8	9
29	Superior reactivity of ferroelectric Bi ₂ WO ₆ /aluminum metastable intermolecular composite. <i>Chemical Engineering Science</i> , 2022, 247, 116898.	3.8	9
30	Sputtering of molybdenum and tungsten nano rods and nodules irradiated with 150eV argon ions. <i>Applied Surface Science</i> , 2015, 331, 299-308.	6.1	8
31	Aliovalent MnTi and GaTi substitution in high-temperature piezoelectric (x)Bi(Zn _{0.5} Zr _{0.5})O ₃ –(y)BiScO ₃ –(100–x–y)PbTiO ₃ . <i>Journal of Materials Science</i> , 2016, 51, 6761-6769.	3.7	8
32	High temperature limitation due to onset of depoling in BiScO ₃ –PbTiO ₃ . <i>Journal of Applied Physics</i> , 2017, 121, .	2.5	8
33	Evaluating the chemical exfoliation of lithium cobalt oxide using UV-Vis spectroscopy. <i>Nanoscale Advances</i> , 2020, 2, 5362-5374.	4.6	8
34	Electron microscopy and spectroscopic study of structural changes, electronic properties, and conductivity in annealed Li _x Bi _{1-x} ScO ₃ . <i>Physical Review Materials</i> , 2021, 5, .	2.4	8
35	Analytic thermoelectric couple optimization introducing Device Design Factor and Fin Factor. <i>Applied Energy</i> , 2014, 134, 374-381.	10.1	7
36	Dimensional Stacking for Machine Learning in ToF–SIMS Analysis of Heterostructures. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001648.	3.7	5

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37	Templated grain growth of Bi(Zn _{0.5} Zr _{0.5})O ₃ modified BiScO ₃ ~PbTiO ₃ piezoelectric ceramics for high temperature applications. Journal of Asian Ceramic Societies, 0, , 1-8.	2.3	5
38	Liquid~Phase exfoliation method to access cobalt oxide nanosheets in pH~neutral solutions. Journal of the American Ceramic Society, 2022, 105, 1904.	3.8	5
39	Polymer particles armored with cobalt oxide nanosheets for the catalytic degradation of bisphenol A. Materials Advances, 2022, 3, 2354-2363.	5.4	5
40	High Temperature Piezoelectric Ceramics Based on xPbTiO ₃ ~“(1-x)Bi(Sc _{1/2} Me _{1/4} Ti _{1/4})O ₃ (Me = Tl, Bi, K, Rb, Cs, Ag, Na, Li)	1.6	0
41	Co x Ni~x Sb ₁₂ ~y Sn y skutterudites: processing and thermoelectric properties. Journal of Materials Science, 2016, 51, 6117-6132.	3.7	4
42	Nickel percolation and coarsening in sintered Li ₄ Ti ₅ O ₁₂ anode composite. Journal of the American Ceramic Society, 2020, 103, 4178-4188.	3.8	4
43	Distinct thin film growth characteristics determined through comparative dimension reduction techniques. Journal of Applied Physics, 2021, 130, .	2.5	4
44	Scanning tunneling microscopy of an interfacial two-dimensional electron gas in oxide heterostructures. Physical Review B, 2016, 93, .	3.2	3
45	Single crystal x-ray diffraction of lead magnesium niobate-lead titanate in the transmission mode. Applied Physics Letters, 2006, 89, 092903.	3.3	2
46	Ion blocking dip shape analysis around a LaAlO ₃ /SrTiO ₃ interface. Nuclear Instruments & Methods in Physics Research B, 2018, 423, 67-71.	1.4	2
47	High Temperature Piezoelectric Ceramics Based on xPbTiO ₃ ~“(1-x)Bi(Sc _{1/2} Me _{1/4} Ti _{1/4})O ₃ (Me = Zn, Mg) Ternary Perovskites. Japanese Journal of Applied Physics, 2012, 51, 101802.	1.5	2
48	Surface Dynamics of Charge Transport in LaAlO ₃ /SrTiO ₃ with Time-Resolved Kelvin Probe Force Microscopy. ACS Applied Electronic Materials, 2022, 4, 206-216.	4.3	2
49	Observation of Square-Planar Distortion in Lanthanide-Doped Skutterudite Crystals. Journal of Physical Chemistry C, 2019, 123, 14632-14638.	3.1	1
50	Structure-Property Relations in Sol-Coated PMN Ceramics: Microscopy, Dielectric and Electromechanical Response. Materials Research Society Symposia Proceedings, 1999, 606, 287.	0.1	0
51	Maximizing electromechanical properties of PMN materials ultrasonic transducers. , 0, , .		0
52	Thermoelectric properties of Co~xNi~4-xSb~12-ySn~y Ternary Skutterudites. , 2014, , .		0
53	Introduction to the Ferroelectric Special Issue on 2017 Joint IEEE ISAF~“IWATMD~“PFM. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1506-1507.	3.0	0
54	Characterization of Nano-Scale Defects in Pulsed Laser Deposited (PLD) Thin Films of Li _{3x} Nd _(2/3-x) (1/3-2x)TiO ₃ (NLTO) by Aberration Corrected HR-STEM Imaging and Dual-EELS. Microscopy and Microanalysis, 2020, 26, 3166-3167.	0.4	0