Alp Sehirlioglu

List of Publications by Year
in descending order

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	Superior reactivity of ferroelectric Bi2WO6/aluminum metastable intermolecular composite. Chemical Engineering Science, 2022, 247, 116898.	3.8	9
2	Liquidâ€Phase exfoliation method to access cobalt oxide nanosheets in pHâ€neutral solutions. Journal of the American Ceramic Society, 2022, 105, 1904.	3.8	5
3	Polymer particles armored with cobalt oxide nanosheets for the catalytic degradation of bisphenol A. Materials Advances, 2022, 3, 2354-2363.	5.4	5
4	Surface Dynamics of Charge Transport in LaAlO₃/SrTiO₃ with Time-Resolved Kelvin Probe Force Microscopy. ACS Applied Electronic Materials, 2022, 4, 206-216.	4.3	2
5	Dimensional Stacking for Machine Learning in ToFâ€SIMS Analysis of Heterostructures. Advanced Materials Interfaces, 2021, 8, 2001648.	3.7	5
6	Electron microscopy and spectroscopic study of structural changes, electronic properties, and conductivity in annealed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Li</mml:mi><mml:mi>x</mml:mi></mml:ms Physical Review Materials, 2021, 5, .	2.4	8
7	Ultrathin 2D-oxides: A perspective on fabrication, structure, defect, transport, electron, and phonon properties. Journal of Applied Physics, 2021, 129, .	2.5	17
8	Distinct thin film growth characteristics determined through comparative dimension reduction techniques. Journal of Applied Physics, 2021, 130, .	2.5	4
9	Effects of microstructure on fracture strength and conductivity of sintered NMC333. Journal of the American Ceramic Society, 2020, 103, 1527-1535.	3.8	9
10	Evaluating the chemical exfoliation of lithium cobalt oxide using UV-Vis spectroscopy. Nanoscale Advances, 2020, 2, 5362-5374.	4.6	8
11	Electrical Characterization and Charge Transport in Chemically Exfoliated 2D LixCoO2 Nanoflakes. Journal of Physical Chemistry C, 2020, 124, 20693-20700.	3.1	11
12	Characterization of Nano-Scale Defects in Pulsed Laser Deposited (PLD) Thin Films of Li3xNd(2/3-x)(1/3-2x)TiO3 (NLTO) by Aberration Corrected HR-STEM Imaging and Dual-EELS. Microscopy and Microanalysis, 2020, 26, 3166-3167.	0.4	0
13	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
14	Visualizing Charge Transport and Nanoscale Electrochemistry by Hyperspectral Kelvin Probe Force Microscopy. ACS Applied Materials & Interfaces, 2020, 12, 33361-33369.	8.0	10
15	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
16	Observation of Square-Planar Distortion in Lanthanide-Doped Skutterudite Crystals. Journal of Physical Chemistry C, 2019, 123, 14632-14638.	3.1	1
17	Cation deficiency associated with the chemical exfoliation of lithium cobalt oxide. Journal of the American Ceramic Society, 2019, 102, 5603-5612.	3.8	12
18	Role of the different defects, their population and distribution in the LaAlO3/SrTiO3 heterostructure's behavior. Journal of Applied Physics, 2018, 123, .	2.5	9

#	Article	IF	Citations
19	Experimental search for high-temperature ferroelectric perovskites guided by two-step machine learning. Nature Communications, 2018, 9, 1668.	12.8	189
20	Ion blocking dip shape analysis around a LaAlO3/SrTiO3 interface. Nuclear Instruments & Methods in Physics Research B, 2018, 423, 67-71.	1.4	2
21	Introduction to the Ferroelectric Special Issue on 2017 Joint IEEE ISAFâ€“IWATMDâ€“PFM. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2018, 65, 1506-1507.	3.0	0
22	The role of ceramic and glass science research in meeting societal challenges: Report from an <scp>NSF</scp>â€sponsored workshop. Journal of the American Ceramic Society, 2017, 100, 1777-1803.	3.8	23
23	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
24	High temperature limitation due to onset of depoling in BiScO3â€“PbTiO3. Journal of Applied Physics, 2017, 121, .	2.5	8
25	Anisotropic electrical resistance in mesoscopic LaAlO3/SrTiO3 devices with individual domain walls. Scientific Reports, 2017, 7, 44361.	3.3	20
26	Energy-efficient ULF/VLF transmitters based on mechanically-rotating dipoles. , 2017, , .		24
27	Atomic-resolved depth profile of strain and cation intermixing around LaAlO3/SrTiO3 interfaces. Scientific Reports, 2016, 6, 28118.	3.3	26
28	Co x Ni4â˜'x Sb12â˜'y Sn y skutterudites: processing and thermoelectric properties. Journal of Materials Science, 2016, 51, 6117-6132.	3.7	4
29	Aliovalent MnTi and GaTi substitution in high-temperature piezoelectric (x)Bi(Zn0.5Zr0.5)O3â€"(y)BiScO3â€"(100Âą€“ÂxÂą˜'Ây)PbTiO3. Journal of Materials Science, 2016, 51, 6761-6769.	3.7	8
30	Scanning tunneling microscopy of an interfacial two-dimensional electron gas in oxide heterostructures. Physical Review B, 2016, 93, .	3.2	3
31	Thermoelectric characteristics of textured KSr2Nb5O15 ceramics. Scripta Materialia, 2016, 112, 114-117.	5.2	11
32	Polymer Composites for Thermoelectric Applications. Angewandte Chemie - International Edition, 2015, 54, 1710-1723.	13.8	252
33	Sputtering of molybdenum and tungsten nano rods and nodules irradiated with 150eV argon ions. Applied Surface Science, 2015, 331, 299-308.	6.1	8
34	Si/Geâ€“WSi 2 composites: Processing and thermoelectric properties. Acta Materialia, 2015, 98, 263-274.	7.9	17
35	Thermoelectric properties of Co_xNi_{4-x}Sb_{12-y}Sn_y Ternary Skutterudites. , 2014, , .		0
36	Characterization of the Highâ€Temperature Ferroelectric (100â˜'xâ˜'y)<scp><scp>BiScO</scp></scp>₃â€“(x)<scp><scp>Bi</scp></scp>(3.8 <scp><scp>Zr</scp> Perovskite Ternary Solid Solution. Journal of the American Ceramic Society, 2014, 97, 490-497.		19

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37	Thermoelectric properties of WSi2â€“SixGe1â^'x composites. Journal of Alloys and Compounds, 2014, 604, 196-203.	5.5	16
38	Analytic thermoelectric couple optimization introducing Device Design Factor and Fin Factor. Applied Energy, 2014, 134, 374-381.	10.1	7
39	Uncertainty analysis for common Seebeck and electrical resistivity measurement systems. Review of Scientific Instruments, 2014, 85, 085119.	1.3	60
40	High Temperature Piezoelectric Ceramics Based on xPbTiO₃â€“(1-x)Bi(Sc_{1/2}Me_{1/4}Ti_{1/4})O₃ (Me =) Ti ETQq0 0 0 rgBT /Ov	1.5	40
41	Strain relaxation analysis of LaAlO3/SrTiO3 heterostructure using reciprocal lattice mapping. Applied Physics Letters, 2012, 100, .	3.3	13
42	Thermoelectric Properties of Undoped and Doped (<scp><scp>Ti</scp></scp>_{0.75}<scp><scp>Sn</scp></scp>_{0.25})<scp><scp>O</scp></scp>₂. Journal of the American Ceramic Society, 2012, 95, 619-626.	3.8	22
43	High Temperature Piezoelectric Ceramics Based onxPbTiO3â€“(1-x)Bi(Sc1/2Me1/4Ti1/4)O3(Me = Zn, Mg) Ternary Perovskites. Japanese Journal of Applied Physics, 2012, 51, 101802.	1.5	2
44	Structure and Piezoelectric Properties Near the Bismuth Scandium Oxideâ€“Lead Zirconateâ€“Lead Titanate Ternary Morphotropic Phase Boundary. Journal of the American Ceramic Society, 2011, 94, 788-795.	3.8	15
45	Doping of BiScO₃â€“PbTiO₃ Ceramics for Enhanced Properties. Journal of the American Ceramic Society, 2010, 93, 1718-1724.	3.8	39
46	High temperature properties of BiScO3â€“PbTiO3 piezoelectric ceramics. Journal of Applied Physics, 2009, 106, .	2.5	70
47	Microstructureâ€“Property Relationships in Liquid Phaseâ€Sintered Highâ€Temperature Bismuth Scandium Oxideâ€Lead Titanate Piezoceramics. Journal of the American Ceramic Society, 2008, 91, 2910-2916.	3.8	35
48	Hyper-Raman-active soft mode inPb(Mg1â^•3Nb2â^•3)0.73Ti0.27O3. Physical Review B, 2006, 73, .	3.2	10
49	Single crystal x-ray diffraction of lead magnesium niobate-lead titanate in the transmission mode. Applied Physics Letters, 2006, 89, 092903.	3.3	2
50	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
51	Thermal expansion of phase transformations in(1â^'x)Pb(Mg1â^•3,Nb2â^•3)O3â^'xPbTiO3: Evidence for preferred domain alignment in one of the â¨001â© directions for melt-grown crystals. Physical Review B, 2005, 72, .	3.2	29
52	Structure-Property Relations in Sol-Coated PMN Ceramics: Microscopy, Dielectric and Electromechanical Response. Materials Research Society Symposia Proceedings, 1999, 606, 287.	0.1	0
53	Maximizing electromechanical properties of PMN materials ultrasonic transducers. , 0, , .		0
54	Templated grain growth of Bi(Zn0.5Zr0.5)O3 modified BiScO3â'PbTiO3 piezoelectric ceramics for high temperature applications. Journal of Asian Ceramic Societies, 0, , 1-8.	2.3	5