

I Burc Misirlioglu

List of Publications by Year in descending order

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38
papers

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citations

758635

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Thickness-driven antiferroelectric-to-ferroelectric phase transition of thin PbZrO ₃ layers in epitaxial PbZrO ₃ -Pb(Zr _{0.8} Ti _{0.2})O ₃ multilayers. Applied Physics Letters, 2007, 91, .	1.5	52
2	Asymmetric hysteresis loops and smearing of the dielectric anomaly at the transition temperature due to space charges in ferroelectric thin films. Journal of Applied Physics, 2010, 108, .	1.1	49
3	Ferrofluid actuation with varying magnetic fields for micropumping applications. Microfluidics and Nanofluidics, 2012, 13, 683-694.	1.0	40
4	Defect microstructures in epitaxial PbZr _{0.2} Ti _{0.8} O ₃ films grown on (001) SrTiO ₃ by pulsed laser deposition. Journal of Materials Science, 2006, 41, 697-707.	1.7	34
5	Strong smearing and disappearance of phase transitions into polar phases due to inhomogeneous lattice strains induced by A-site doping in Bi _{1-x} A _x FeO ₃ (A: La, Sm, Gd). Journal of Alloys and Compounds, 2014, 604, 117-129.	2.8	31
6	Compositionally graded ferroelectrics as wide band gap semiconductors: Electrical domain structures and the origin of low dielectric loss. Acta Materialia, 2017, 122, 266-276.	3.8	25
7	Phase transitions in ferroelectric-paraelectric superlattices. Journal of Applied Physics, 2011, 110, .	1.1	23
8	Strong dependence of dielectric properties on electrical boundary conditions and interfaces in ferroelectric superlattices. Applied Physics Letters, 2014, 104, 022906.	1.5	21
9	Potential barrier increase due to Gd doping of BiFeO ₃ layers in Nb:SrTiO ₃ -BiFeO ₃ -Pt structures displaying diode-like behavior. Applied Physics Letters, 2012, 100, 252903.	1.5	19
10	Synthesis and Morphological Control of VO ₂ Nanostructures via a One-Step Hydrothermal Method. Nanomaterials, 2021, 11, 752.	1.9	19
11	Tailoring dielectric properties of ferroelectric-dielectric multilayers. Applied Physics Letters, 2014, 104, 022901.	1.5	18
12	Dielectric tunability of (110) oriented barium strontium titanate epitaxial films on (100) orthorhombic substrates. Applied Physics Letters, 2006, 89, 042903.	1.5	17
13	Antiferroelectric hysteresis loops with two exchange constants using the two dimensional Ising model. Applied Physics Letters, 2007, 91, 202905.	1.5	12
14	Carrier accumulation near electrodes in ferroelectric films due to polarization boundary conditions. Journal of Applied Physics, 2014, 116, 024102.	1.1	12
15	Phase transitions in ferroelectric-paraelectric superlattices: Stability of single domain state. Applied Physics Letters, 2013, 103, 192906.	1.5	11
16	Low-voltage ferroelectric-paraelectric superlattices as gate materials for field-effect transistors. Journal of Materials Science, 2016, 51, 487-498.	1.7	9
17	Selective IR response of highly textured phase change VO ₂ nanostructures obtained via oxidation of electron beam deposited metallic V films. Optical Materials Express, 2018, 8, 2035.	1.6	9
18	Effect of texture on the electrical and electrocaloric properties of 0.90Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.10PbTiO ₃ relaxor ceramics. Journal of Applied Physics, 2020, 128, .	1.1	9

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19	Cation ordering in epitaxial lead zirconate titanate films. Applied Physics Letters, 2008, 93, 262903.	1.5	8
20	Effects of the depolarization field in a perforated film of the biaxial ferroelectric. Physics of the Solid State, 2012, 54, 2243-2252.	0.2	8
21	Fabrication and Characterization of Fe ₁₆ N ₂ Microflake Powders and Their Extrusion-Based 3D Printing into Permanent Magnet Form. Advanced Engineering Materials, 2020, 22, 2000311.	1.6	8
22	Ferroelectric/Antiferroelectric Pb(Zr _{0.8} Ti _{0.2})O ₃ /PbZrO ₃ Epitaxial Multilayers: Growth and Thickness-Dependent Properties. Ferroelectrics, 2008, 370, 140-146.	0.3	7
23	Morphology induced spectral reflectance lineshapes in VO ₂ thin films. Journal of Applied Physics, 2019, 125, .	1.1	6
24	Crossover of spectral reflectance lineshapes in Ge-doped VO ₂ thin films. Optical Materials, 2020, 104, 109890.	1.7	6
25	Influence of long-range dipolar interactions on the phase stability and hysteresis shapes of ferroelectric and antiferroelectric multilayers. Journal of Materials Science, 2009, 44, 5354-5363.	1.7	5
26	Landau, Ginzburg, Devonshire and others. Ferroelectrics, 2020, 569, 310-323.	0.3	5
27	Negative bulk modulus and possibility of loss of elastic stability near tricritical transitions in thin films on substrates. Ferroelectrics, 2016, 500, 116-128.	0.3	4
28	Polarization retention and switching in ferroelectric nanocapacitors with defects on tensile substrates. Solid-State Electronics, 2012, 67, 38-44.	0.8	3
29	Very large dielectric response from ferroelectric nanocapacitor films due to collective surface and strain relaxation effects. Journal of Applied Physics, 2013, 114, 194101.	1.1	3
30	Chirality Switching in Ferromagnetic Nanostructures Via Nanosecond Electric Pulses. Annalen Der Physik, 2021, 533, 2100167.	0.9	3
31	A Theoretical Treatment of THz Resonances in Semiconductor GaAs μ n Junctions. Materials, 2019, 12, 2412.	1.3	2
32	Loss of spin polarization in ferromagnet/ferroelectric tunnel junctions due to screening effects. Journal Physics D: Applied Physics, 2019, 52, 015305.	1.3	2
33	Effects of interphase boundaries in Ginzburg-Landau one-dimensional model of two-phase states in clamped systems. Journal of Applied Physics, 2021, 129, 044102.	1.1	2
34	Temperature Dependent Electrical and Electrocaloric Properties of Textured 0.72PMN - 0.28PT Ceramics*. Integrated Ferroelectrics, 2022, 223, 214-227.	0.3	2
35	Loss of elastic stability and formation of inhomogeneous states at phase transitions in thin films on substrates. Ferroelectrics, 2018, 533, 1-9.	0.3	1
36	Vapor phase synthesis of ferroelectric microislands on PVDF thin films. Nanotechnology, 2021, 32, 435601.	1.3	1

#	ARTICLE	IF	CITATIONS
37	PHASE TRANSFORMATION CHARACTERISTICS OF BARIUM STRONTIUM TITANATE FILMS ON ANISOTROPIC SUBSTRATES WITH (001)//(001) EPITAXY. <i>Integrated Ferroelectrics</i> , 2008, 101, 29-36.	0.3	0
38	LOW-TEMPERATURE MONOCLINIC PHASE IN EPITAXIAL (001) BARIUM TITANATE ON (001) CUBIC SUBSTRATES. <i>Integrated Ferroelectrics</i> , 2008, 101, 4-11.	0.3	0