

Marina Tyunina

List of Publications by Year in descending order

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130
papers

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331259

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134
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134
docs citations

134
times ranked

1506
citing authors

#	ARTICLE	IF	CITATIONS
1	Strain enhancement due to oxygen vacancies in perovskite oxide films. Journal of Materials Chemistry C, 2022, 10, 6770-6777.	2.7	5
2	Low-temperature NIR-VUV optical constants of (001) LaAlO ₃ crystal. Optical Materials Express, 2022, 12, 3081.	1.6	3
3	Conductivity in Ferroelectric Barium Titanate: Electrons Versus Oxygen Vacancies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 296-302.	1.7	6
4	Epitaxial growth of perovskite oxide films facilitated by oxygen vacancies. Journal of Materials Chemistry C, 2021, 9, 1693-1700.	2.7	22
5	Anisotropic chemical expansion due to oxygen vacancies in perovskite films. Scientific Reports, 2021, 11, 15247.	1.6	23
6	Ferroelectric phase transitions induced by a strain gradient. Physical Review Research, 2021, 3, .	1.3	7
7	Hysteresis-Free Piezoresponse in Thermally Strained Ferroelectric Barium Titanate Films. Electronic Materials, 2021, 2, 17-23.	0.9	3
8	Mobile and immobile boundaries in ferroelectric films. Scientific Reports, 2021, 11, 1899.	1.6	4
9	Electrical conductivity in oxygen-substituted SrTiO _{3-\hat{r}} films. Applied Physics Letters, 2021, 119, .	1.5	4
10	Large Negative Photoresistivity in Amorphous NdNiO ₃ Film. Coatings, 2021, 11, 1411.	1.2	2
11	Superior elasto-optic tetragonal SrTiO ₃ films. APL Materials, 2021, 9, .	2.2	2
12	The electronic properties of SrTiO _{3-\hat{r}} with oxygen vacancies or substitutions. Scientific Reports, 2021, 11, 23341.	1.6	14
13	Multiple optical impacts of anion doping in epitaxial barium titanate films. APL Materials, 2020, 8, .	2.2	6
14	Optics of epitaxial strained strontium titanate films. Applied Physics Letters, 2020, 117, 082901.	1.5	6
15	<i>In situ</i> anion-doped epitaxial strontium titanate films. Physical Chemistry Chemical Physics, 2020, 22, 24796-24800.	1.3	5
16	Oxygen Vacancies in Perovskite Oxide Piezoelectrics. Materials, 2020, 13, 5596.	1.3	21
17	Charge transport in epitaxial barium titanate films. Physical Review B, 2020, 101, .	1.1	10
18	Oxygen vacancy dipoles in strained epitaxial BaTiO_3 films. Physical Review Research, 2020, 2, .	1.3	22

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19	Optical revelation of defects in epitaxial barium titanate films. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 7874-7878.	1.3	6
20	Perovskite ferroelectric tuned by thermal strain. <i>Scientific Reports</i> , 2019, 9, 3677.	1.6	25
21	Negative magnetoresistance in epitaxial films of neodymium nickelate. <i>Physical Review B</i> , 2019, 99, .	1.1	14
22	Hybrid polar state in epitaxial (111) PbSc _{0.5} Nb _{0.5} O ₃ relaxor ferroelectric films. <i>Physical Review Materials</i> , 2019, 3, .	0.9	2
23	Dielectric relaxation in epitaxial films of paraelectric-magnetic SrTiO ₃ -SrMnO ₃ solid solution. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	2
24	Optical effects induced by epitaxial tension in lead titanate. <i>Applied Physics Letters</i> , 2018, 112, 031111.	1.5	15
25	Chemical-bond effect on epitaxial strain in perovskite sodium niobate. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 4263-4268.	1.3	6
26	Elasto-optic behaviour in epitaxial films of perovskite oxide ferroelectrics. <i>Advances in Applied Ceramics</i> , 2018, 117, 62-65.	0.6	7
27	Thermooptical evidence of carrier-stabilized ferroelectricity in ultrathin electrodeless films. <i>Scientific Reports</i> , 2018, 8, 8497.	1.6	5
28	Strain fluctuations in BaTiO ₃ /SrTiO ₃ heterostructures. <i>Materials Research Bulletin</i> , 2017, 89, 180-184.	2.7	5
29	PLD prepared bioactive BaTiO ₃ films on TiNb implants. <i>Materials Science and Engineering C</i> , 2017, 70, 334-339.	3.8	16
30	Optical NIR-VIS-VUV constants of advanced substrates for thin-film devices. <i>Optical Materials Express</i> , 2017, 7, 3844.	1.6	7
31	Aging in epitaxial ferroelectric PbTiO ₃ films. <i>Journal of Advanced Dielectrics</i> , 2016, 06, 1650026.	1.5	2
32	Dynamic nonlinearity in epitaxial BaTiO ₃ films. <i>Physical Review B</i> , 2016, 94, .	1.1	6
33	Enhancing polarization by electrode-controlled strain relaxation in PbTiO ₃ heterostructures. <i>APL Materials</i> , 2016, 4, .	2.2	7
34	Quantitative analysis of structural inhomogeneity in nanomaterials using transmission electron microscopy. <i>Journal of Applied Crystallography</i> , 2016, 49, 762-770.	1.9	18
35	Optical Properties of Ferroelectric Epitaxial K _{0.5} Na _{0.5} NbO ₃ Films in Visible to Ultraviolet Range. <i>PLoS ONE</i> , 2016, 11, e0153261.	1.1	7
36	Interband transitions in epitaxial ferroelectric films of $\text{NaNb}_3\text{O}_{10}$. <i>Physical Review B</i> , 2015, 92, .	1.1	13

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37	Effects of doping and epitaxy on optical behavior of NaNbO ₃ films. Applied Physics Letters, 2015, 107, 172906.	1.5	3
38	Polarized Raman scattering study of PSN single crystals and epitaxial thin films. Journal of Advanced Dielectrics, 2015, 05, 1550013.	1.5	2
39	Concurrent bandgap narrowing and polarization enhancement in epitaxial ferroelectric nanofilms. Science and Technology of Advanced Materials, 2015, 16, 026002.	2.8	10
40	Effect of epitaxy on interband transitions in ferroelectric KNbO ₃ . New Journal of Physics, 2015, 17, 043048.	1.2	11
41	Strain-controlled optical absorption in epitaxial ferroelectric BaTiO ₃ films. Applied Physics Letters, 2015, 106, .	1.5	28
42	E-MRS Fall Meeting, Technical University of Warsaw, September 2014, Symposium "Functional Perovskite Systems". Phase Transitions, 2015, 88, 951-952.	0.6	0
43	Quasi-static electric field-temperature diagrams in epitaxial relaxor ferroelectric films. Phase Transitions, 2015, 88, 74-81.	0.6	0
44	Low-temperature evolution of local polarization properties of PbZr _{0.65} Ti _{0.35} O ₃ thin films probed by piezoresponse force microscopy. Applied Physics Letters, 2014, 104, .	1.5	10
45	Ambience-sensitive optical refraction in ferroelectric nanofilms of NaNbO ₃ . Science and Technology of Advanced Materials, 2014, 15, 045001.	2.8	9
46	Ferroelectricity in antiferroelectric NaNbO ₃ crystal. Journal of Physics Condensed Matter, 2014, 26, 125901.	0.7	21
47	Frustration of ferroelectricity in epitaxial film of relaxor ferroelectric PbSc _{1/2} Nb _{1/2} O ₃ . Journal of Physics Condensed Matter, 2014, 26, 325901.	0.7	4
48	Electric-field-induced transformations in epitaxial relaxor ferroelectric $\text{PbMg}_{1-x}\text{Nb}_x\text{O}_3$ Physical Review B, 2014, 89, .	1.1	7
49	Epitaxial Ferroelectric Heterostructures with Nanocolumn-Enhanced Dynamic Properties. Advanced Functional Materials, 2013, 23, 467-474.	1.1	16
50	Optical properties of epitaxial relaxor ferroelectric $\text{PbSc}_{0.5}\text{Nb}_{0.5}\text{O}_3$ films. Applied Physics Letters, 2013, 103, 132901.	1.5	9
52	Ellipsometry applied to phase transitions and relaxation phenomena in Ni ₂ MnGa ferromagnetic shape memory alloy. Applied Physics Letters, 2012, 101, .	1.5	4
53	Dielectric Response of BaTiO_3 Thin Film with Grain Size at Nanometer Scale. Journal of the American Ceramic Society, 2012, 95, 1333-1338.	1.1	16
54		1.9	12

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55	d0Ferromagnetic Interface between Nonmagnetic Perovskites. Physical Review Letters, 2012, 109, 127207.	2.9	45
56	The structure of strained perovskite KTaO_3 thin films prepared by pulsed laser deposition. Journal of Physics Condensed Matter, 2012, 24, 325901.	0.7	11
57	Ferroelectric transitions in epitaxial $\text{Pb}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ films studied by dielectric analysis. Physical Review B, 2011, 84, .	1.1	20
58	Dielectric properties of NaNbO_3 : SrTiO_3 interface nanolayer. Journal of Applied Physics, 2011, 109, 014103.	1.1	1
59	Interfacial nanolayers and permittivity of ferroelectric superlattices. Journal of Applied Physics, 2011, 109, 126101.	1.1	10
60	Tensile strain induced changes in the optical spectra of SrTiO_3 epitaxial thin films. Physics of the Solid State, 2010, 52, 2082-2089.	0.2	27
61	Nanoscale engineering of ferroelectric functionality. Journal of Electroceramics, 2010, 24, 15-19.	0.8	2
62	Enhanced relaxor behavior in epitaxial $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ films. Physical Review B, 2010, 81, .	1.1	2
63	Evidence for Strain-Induced Ferroelectric Order in Epitaxial Thin-Film KTaO_3 . Physical Review Letters, 2010, 104, 227601.	2.9	72
64	Polydomain configuration in epitaxial $\text{Pb}_{0.5}\text{Sr}_{0.5}\text{TiO}_3/\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ heterostructures. Applied Physics Letters, 2010, 97, 202909.	1.5	4
65	Ferroelectric domains in epitaxial $\text{PbZr}_{0.65}\text{Ti}_{0.35}\text{O}_3/\text{La}_{0.5}\text{Sr}_{0.5}\text{CoO}_3$ heterostructures. Applied Physics Letters, 2010, 97, 062902.	1.5	7
66	Anomalous growth and properties of SrTiO_3 . Physical Review B, 2009, 79, .	3.1	11
67	Intrinsic dipolar glass behavior in epitaxial films of relaxor $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$. Physical Review B, 2009, 79, .	1.1	11
68	Ultrathin SrTiO_3 films: epitaxy and optical properties. Journal of Physics Condensed Matter, 2009, 21, 232203.	0.7	21
69	Polar phonons in some compressively stressed epitaxial and polycrystalline SrTiO_3 thin films. Journal of Electroceramics, 2009, 22, 297-301.	0.8	22
70	Unstable state in epitaxial films of sodium niobate. Applied Physics Letters, 2009, 95, .	1.5	24
71	DIELECTRIC PROPERTIES OF ATOMIC LAYER DEPOSITED THIN-FILM BARIUM STRONTIUM TITANATE. Integrated Ferroelectrics, 2008, 102, 29-36.	0.3	11
72	Dynamics of Nanodomains in Epitaxial Thin-Film $\text{PbZr}_{0.65}\text{Ti}_{0.35}\text{O}_3$. Ferroelectrics, 2008, 373, 44-50.	0.3	3

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73	Dynamic disorder in BaTiO ₃ epitaxial films. Physical Review B, 2007, 75, . Diffuse phase transitions in epitaxial	1.1	12
74	Diffuse phase transitions in epitaxial superlattices. Journal of Applied Physics, 2007, 102, 074106.	1.1	11
75	Dielectric relaxation and polar phonon softening in relaxor ferroelectric PbMg _{1/3} Ta _{2/3} O ₃ . Journal of Applied Physics, 2007, 102, 074106.	1.1	32
76	Multilayers and superlattices of ferroelectric barium strontium titanate. Journal of Applied Physics, 2007, 102, 014108.	1.1	11
77	The paraelectric state in thin-film (Ba,Sr)TiO ₃ . Journal of Applied Physics, 2007, 101, 084119.	1.1	15
78	Polarization relaxation in thin-film relaxors compared to that in ferroelectrics. Physical Review B, 2006, 74, .	1.1	25
79	Dielectric Hysteresis in Thin-Film Ferroelectrics and Relaxors. Applications of Ferroelectrics, IEEE International Symposium on, 2006, , .	0.0	0
80	Dielectric Hysteresis in Thin-Film Ferroelectrics and Relaxors. Applications of Ferroelectrics, IEEE International Symposium on, 2006, , .	0.0	0
81	Dynamic Dielectric Nonlinearity in Epitaxial Thin-Film Relaxors and Ferroelectrics. Ferroelectrics, 2006, 339, 85-93.	0.3	0
82	Response to "Comment on "Application of the interface capacitance model to thin-film relaxors and ferroelectrics" [Appl. Phys. Lett. 89, 196101 (2006)]. Applied Physics Letters, 2006, 89, 196102.	1.5	4
83	Application of the interface capacitance model to thin-film relaxors and ferroelectrics. Applied Physics Letters, 2006, 88, 262904.	1.5	34
84	Thin Film Multilayers of Ferroelectric Barium Strontium Titanate. Ferroelectrics, 2006, 335, 127-136.	0.3	2
85	Size effects and dielectric behaviour in ferroelectric heterostructures. Journal of Physics Condensed Matter, 2006, 18, 5725-5738.	0.7	30
86	Relaxation of induced polar state in relaxor PbMg _{1/3} Nb _{2/3} O ₃ thin films studied by piezoresponse force microscopy. Applied Physics Letters, 2005, 86, 222907.	1.5	63
87	Compositional Evolution of Properties in Epitaxial Films of Relaxor PbMg _{1/3} Nb _{2/3} O ₃ -PbTiO ₃ . Ferroelectrics, 2005, 318, 63-66.	0.3	1
88	Effect of ac field on the dielectric behavior in epitaxial films of relaxor ferroelectric PbMg _{1/3} Nb _{2/3} O ₃ . Physical Review B, 2005, 72, .	1.1	21
89	Phase diagram of thin-film relaxor PbMg _{1/3} Nb _{2/3} O ₃ . Journal of Applied Physics, 2005, 97, 114107.	1.1	14
90	Compositional Evolution of Structure and Dielectric Properties in Ba _{1-x} Sr _x TiO ₃ Epitaxial Thin-Film Heterostructures. Ferroelectrics, 2005, 318, 49-53.	0.3	5

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91	Epitaxial Films of Relaxor Ferroelectric $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ in Strong Electric Fields. <i>Ferroelectrics</i> , 2005, 318, 29-34.	0.3	0
92	Polar state in epitaxial films of the relaxor ferroelectric $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$. <i>Physical Review B</i> , 2004, 69, .	1.1	19
93	Ferroelectric Behavior in Epitaxial Films of Relaxor $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$. <i>Ferroelectrics</i> , 2004, 302, 285-288.	0.3	3
94	Dielectric nonlinearity in relaxor and ferroelectric thin films of chemically ordered $\text{PbSc}_{0.5}\text{Nb}_{0.5}\text{O}_3$. <i>Applied Physics Letters</i> , 2004, 85, 4720-4722.	1.5	9
95	Coexistence of ferroelectric and relaxor properties in epitaxial films of $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$. <i>Physical Review B</i> , 2004, 70, .	1.1	44
96	Local Electromechanical Properties of $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ Thin Films Studied by Piezoelectric Force Microscopy. <i>Ferroelectrics</i> , 2004, 302, 323-326.	0.3	11
97	Thin Films of Perovskite Relaxor Ferroelectrics. <i>Ferroelectrics</i> , 2004, 298, 353-359.	0.3	1
98	Relaxor ferroelectric thin-film heterostructures: Scaling of dielectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2003, 14, 369-374.	1.1	9
99	Chemical Ordering and Epitaxy in Relaxor and Ferroelectric $\text{PbSc}_{0.5}\text{Nb}_{0.5}\text{O}_3$ Thin Films. <i>Ferroelectrics</i> , 2003, 291, 11-18.	0.3	14
100	Glassy State in Relaxor Ferroelectric Thin Films. <i>Ferroelectrics</i> , 2003, 291, 93-99.	0.3	1
101	<title>Glass to ferroelectric phase transition induced by ac electric field in $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ thin films</title>. , 2003, 5122, 334.		
102	Structure and Properties of $\text{Pb}(\text{LuNb})\text{O}_3$ - PbTiO_3 Ceramics and Thin Films. <i>Ferroelectrics</i> , 2003, 294, 41-47.	0.3	2
103	Structure and Properties of $\text{Pb}(\text{LuNb})\text{O}_3$ - PbTiO_3 Ceramics and Thin Films. <i>Ferroelectrics</i> , 2003, 294, 41-47.	0.3	3
104	<title>Glass-like behavior in relaxor ferroelectric thin films</title>. , 2003, , .		0
105	Dynamic nonlinear dielectric response of relaxor ferroelectric $(\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3)_{0.68}$ - $(\text{PbTiO}_3)_{0.32}$ thin films. <i>Physical Review B</i> , 2002, 65, .	1.1	12
106	Epitaxy and B-Site Ordering in Thin Film Hetero-Structures of Relaxor Ferroelectric Perovskites. <i>Ferroelectrics</i> , 2002, 271, 137-142.	0.3	13
107	Dielectric Anomalies in Relaxor Ferroelectric Thin Films. <i>Ferroelectrics</i> , 2002, 270, 235-240.	0.3	1
108	Dielectric Fourier - Spectroscopy in Relaxor and Normal Ferroelectric Thin Films. <i>Ferroelectrics</i> , 2002, 270, 241-246.	0.3	3

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109	Relaxor and normal ferroelectric behavior in ordered thin films of $\text{PbSc}_{0.5}\text{Nb}_{0.5}\text{O}_3$. Journal of Applied Physics, 2002, 91, 9277-9287.	1.1	20
110	Dielectric properties of reactor irradiated ferroelectric thin films. Integrated Ferroelectrics, 2001, 37, 275-283.	0.3	11
111	Phase transitions in epitaxial films of relaxor ferroelectric binary systems near the morphotropic phase boundary. Ferroelectrics, 2001, 258, 265-270.	0.3	0
112	Dielectric anomalies in epitaxial films of relaxor ferroelectric $(\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3)_{0.68}\text{PbTiO}_3$. Physical Review B, 2001, 63, .	1.1	79
113	Dielectric nonlinearities in ferroelectric thin-film heterostructures. Applied Physics Letters, 2001, 78, 527-529.	1.5	10
114	Structural characterization of relaxor ferroelectric $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ - PbTiO_3 thin film heterostructures deposited by pulsed laser ablation. Applied Physics A: Materials Science and Processing, 2000, 70, 269-274.	1.1	19
115	Pulsed laser deposition of relaxor-based $\text{Pb}_{0.5}\text{Nb}_{0.5}\text{O}_3$ - PbTiO_3 thin films. Journal of Applied Physics, 2000, 88, 4274.	1.1	7
116	Effects of laser fluence, size, and shape of the laser focal spot in pulsed laser deposition using a multielemental target. Journal of Applied Physics, 2000, 87, 8132-8142.	1.1	33
117	Sorption in pulsed laser deposition of multicomponent materials: Experiment versus modeling. Journal of Applied Physics, 1999, 86, 2901-2908.	1.1	12
118	Domain configuration in pulsed laser deposited films of rhombohedral $\text{PbZr}_{0.65}\text{Ti}_{0.35}\text{O}_3$. Applied Physics Letters, 1999, 74, 3191-3193.	1.5	15
119	Dielectric properties of pulsed laser deposited films of $\text{PbMg}_{1/3}\text{Nb}_{2/3}$ - PbTiO_3 and $\text{PbSc}_{1/2}\text{Nb}_{1/2}\text{O}_3$ - PbTiO_3 relaxor ferroelectrics. Journal of Applied Physics, 1999, 86, 5179-5184.	1.1	51
120	Laser ablation deposition of silicon nanostructures. Scripta Materialia, 1999, 12, 101-106.	0.5	15
121	Agglomeration and surface morphology during pulsed laser deposition of Pb-Zr-Ti-O. Scripta Materialia, 1999, 12, 263-266.	0.5	0
122	Phase transitions and properties of perovskite ferroelectric ceramics and films for certain applications. Ferroelectrics, 1999, 226, 217-241.	0.3	15
123	Effects of structure ordering, structure defects and external conditions on properties of complex ferroelectric perovskites. Ferroelectrics, 1998, 217, 307-317.	0.3	16
124	Experimental studies and modeling of PbZrTiO film growth in pulsed laser deposition. Journal of Applied Physics, 1998, 83, 5489-5496.	1.1	40
125	Relaxor behavior of pulsed laser deposited ferroelectric $(\text{Pb}_{1-x}\text{La}_x)(\text{Zr}_{0.65}\text{Ti}_{0.35})\text{O}_3$ films. Journal of Applied Physics, 1998, 84, 6800-6810.	1.1	58
126	Thickness distribution in pulsed laser deposited PZT films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 2381-2384.	0.9	13

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127	Interface Effects in Ferroelectric Thin Films. , 1998, , 457-464.		0
128	Pulsed laser deposition of relaxor ferroelectric films. European Physical Journal Special Topics, 1998, 08, Pr9-261-Pr9-264.	0.2	0
129	Piezoelectric response of pulsed laser deposited heterostructures PZT/YBCO, PLZT/YBCO. European Physical Journal Special Topics, 1998, 08, Pr9-183-Pr9-186.	0.2	0
130	An experimental study and modeling of the thickness distribution in pulsed laser deposited ferroelectric thin films. Applied Surface Science, 1996, 96-98, 831-835.	3.1	14