

Marina Tyunina

List of Publications by Year in descending order

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130
papers

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#	ARTICLE	IF	CITATIONS
1	Dielectric anomalies in epitaxial films of relaxor ferroelectric $(\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3)_{0.68}\text{-(PbTiO}_3)_{0.32}$. Physical Review B, 2001, 63, .	1.1	79
2	Evidence for Strain-Induced Ferroelectric Order in Epitaxial Thin-Film KTaO_3 . Physical Review Letters, 2010, 104, 227601.	2.9	72
3	Relaxation of induced polar state in relaxor $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$ thin films studied by piezoresponse force microscopy. Applied Physics Letters, 2005, 86, 222907.	1.5	63
4	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
5	Dielectric properties of pulsed laser deposited films of $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{-PbTiO}_3$ and $\text{PbSc}_{1/2}\text{Nb}_{1/2}\text{O}_3\text{-PbTiO}_3$ relaxor ferroelectrics. Journal of Applied Physics, 1999, 86, 5179-5184.	1.1	51
6	d0Ferromagnetic Interface between Nonmagnetic Perovskites. Physical Review Letters, 2012, 109, 127207.	2.9	45
7	Coexistence of ferroelectric and relaxor properties in epitaxial films of $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$. Physical Review B, 2004, 70, .	1.1	44
8	Experimental studies and modeling of Pb-Zr-Ti-O film growth in pulsed laser deposition. Journal of Applied Physics, 1998, 83, 5489-5496.	1.1	40
9	Application of the interface capacitance model to thin-film relaxors and ferroelectrics. Applied Physics Letters, 2006, 88, 262904.	1.5	34
10	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
11	Dielectric relaxation and polar phonon softening in relaxor ferroelectric $\text{PbMg}_{1/3}\text{Ta}_{2/3}\text{O}_3$. Journal of Applied Physics, 2007, 102, 074106.	1.1	32
12	Size effects and dielectric behaviour in ferroelectric heterostructures. Journal of Physics Condensed Matter, 2006, 18, 5725-5738.	0.7	30
13	Strain-controlled optical absorption in epitaxial ferroelectric BaTiO_3 films. Applied Physics Letters, 2015, 106, .	1.5	28
14	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
15	Polarization relaxation in thin-film relaxors compared to that in ferroelectrics. Physical Review B, 2006, 74, .	1.1	25
16	Perovskite ferroelectric tuned by thermal strain. Scientific Reports, 2019, 9, 3677.	1.6	25
17	Unstable state in epitaxial films of sodium niobate. Applied Physics Letters, 2009, 95, .	1.5	24
18	Anisotropic chemical expansion due to oxygen vacancies in perovskite films. Scientific Reports, 2021, 11, 15247.	1.6	23

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19	Polar phonons in some compressively stressed epitaxial and polycrystalline SrTiO ₃ thin films. Journal of Electroceramics, 2009, 22, 297-301.	0.8	22
20	Epitaxial growth of perovskite oxide films facilitated by oxygen vacancies. Journal of Materials Chemistry C, 2021, 9, 1693-1700.	2.7	22
21	Oxygen vacancy dipoles in strained epitaxial BaTiO_3 films. Physical Review Research, 2020, 2, .	1.3	22
22	Effect of ac field on the dielectric behavior in epitaxial films of relaxor ferroelectric $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$. Physical Review B, 2005, 72, .	1.1	21
23	Ultrathin SrTiO ₃ films: epitaxy and optical properties. Journal of Physics Condensed Matter, 2009, 21, 232203.	0.7	21
24	Ferroelectricity in antiferroelectric NaNbO ₃ crystal. Journal of Physics Condensed Matter, 2014, 26, 125901.	0.7	21
25	Oxygen Vacancies in Perovskite Oxide Piezoelectrics. Materials, 2020, 13, 5596.	1.3	21
26	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
27	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
28	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
29	Polar state in epitaxial films of the relaxor ferroelectric $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$. Physical Review B, 2004, 69, .	1.1	19
30	Quantitative analysis of structural inhomogeneity in nanomaterials using transmission electron microscopy. Journal of Applied Crystallography, 2016, 49, 762-770.	1.9	18
31	Effects of structure ordering, structure defects and external conditions on properties of complex ferroelectric perovskites. Ferroelectrics, 1998, 217, 307-317.	0.3	16
32	Phase transitions in ferroelectric $\text{Pb}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ thin film. Physical Review B, 2011, 84, .	1.1	16
33	Phase transitions in ferroelectric $\text{Pb}_{0.5}\text{Nb}_{0.5}\text{TiO}_3$ thin film. Physical Review B, 2011, 84, .	1.1	16
34	PLD prepared bioactive BaTiO ₃ films on TiNb implants. Materials Science and Engineering C, 2017, 70, 334-339.	3.8	16
35	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
36	Laser ablation deposition of silicon nanostructures. Scripta Materialia, 1999, 12, 101-106.	0.5	15

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37	Phase transitions and properties of perovskite ferroelectric ceramics and films for certain applications. <i>Ferroelectrics</i> , 1999, 226, 217-241.	0.3	15
38	The paraelectric state in thin-film (Ba,Sr)TiO ₃ . <i>Journal of Applied Physics</i> , 2007, 101, 084119.	1.1	15
39	Epitaxial Ferroelectric Heterostructures with Nanocolumn-Enhanced Dynamic Properties. <i>Advanced Functional Materials</i> , 2013, 23, 467-474.	7.8	15
40	Optical effects induced by epitaxial tension in lead titanate. <i>Applied Physics Letters</i> , 2018, 112, 031111.	1.5	15
41	An experimental study and modeling of the thickness distribution in pulsed laser deposited ferroelectric thin films. <i>Applied Surface Science</i> , 1996, 96-98, 831-835.	3.1	14
42	Chemical Ordering and Epitaxy in Relaxor and Ferroelectric PbSc _{0.5} Nb _{0.5} O ₃ Thin Films. <i>Ferroelectrics</i> , 2003, 291, 11-18.	0.3	14
43	Phase diagram of thin-film relaxor PbMg _{1-x} Nb _{2-x} O ₃ . <i>Journal of Applied Physics</i> , 2005, 97, 114107.	1.1	14
44	Anomalous growth and properties of SrTiO ₃ thin films. <i>Physical Review B</i> , 2009, 79, .	3.1	14
45	Negative magnetoresistance in epitaxial films of neodymium nickelate. <i>Physical Review B</i> , 2019, 99, .	1.1	14
46	The electronic properties of SrTiO ₃ with oxygen vacancies or substitutions. <i>Scientific Reports</i> , 2021, 11, 23341.	1.6	14
47	Thickness distribution in pulsed laser deposited PZT films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1998, 16, 2381-2384.	0.9	13
48	Epitaxy and B-Site Ordering in Thin Film Hetero-Structures of Relaxor Ferroelectric Perovskites. <i>Ferroelectrics</i> , 2002, 271, 137-142.	0.3	13
49	Interband transitions in epitaxial ferroelectric films of NaNbO ₃ . <i>Physical Review B</i> , 2015, 92, .	1.1	13
50	Sorption in pulsed laser deposition of multicomponent materials: Experiment versus modeling. <i>Journal of Applied Physics</i> , 1999, 86, 2901-2908.	1.1	12
51	Dynamic nonlinear dielectric response of relaxor ferroelectric (PbMg _{1/3} Nb _{2/3} O ₃) _{0.68} (PbTiO ₃) _{0.32} thin films. <i>Physical Review B</i> , 2002, 65, .	1.1	12
52	Dynamic disorder in BaTiO ₃ epitaxial films. <i>Physical Review B</i> , 2007, 75, .	1.1	12
53	Dielectric Response of BaTiO ₃ Thin Film with Grain Size at Nanometer Scale. <i>Journal of the American Ceramic Society</i> , 2012, 95, 1333-1338.	1.9	12
54	Dielectric properties of reactor irradiated ferroelectric thin films. <i>Integrated Ferroelectrics</i> , 2001, 37, 275-283.	0.3	11

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55	Local Electromechanical Properties of PbMg _{1/3} Nb _{2/3} O ₃ Thin Films Studied by Piezoelectric Force Microscopy. <i>Ferroelectrics</i> , 2004, 302, 323-326. Diffuse phase transitions in epitaxial $\langle \text{mml:mrow} \langle \text{mml:mrow} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 712 Td} \langle \text{mathvariant=}$	0.3	11
56	$\langle \text{mathvariant=}$ Ti $\langle \text{mml:mrow} \langle \text{mml:mrow} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 712 Td} \langle \text{mathvariant=}$ superlattices. Multilayers and superlattices of ferroelectric barium strontium titanate. <i>Journal of Applied Physics</i> , 2007, 102, 014108.	1.1	11
57	DIELECTRIC PROPERTIES OF ATOMIC LAYER DEPOSITED THIN-FILM BARIUM STRONTIUM TITANATE. <i>Integrated Ferroelectrics</i> , 2008, 102, 29-36.	1.1	11
58	Intrinsic dipolar glass behavior in epitaxial films of relaxor $\langle \text{mml:mrow} \langle \text{mml:mrow} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 712 Td} \langle \text{mathvariant=}$ Physical Review B, 2009, 79, .	0.3	11
59	The structure of strained perovskite KTaO ₃ thin films prepared by pulsed laser deposition. <i>Journal of Physics Condensed Matter</i> , 2012, 24, 325901.	1.1	11
60	Effect of epitaxy on interband transitions in ferroelectric KNbO ₃ . <i>New Journal of Physics</i> , 2015, 17, 043048.	0.7	11
61	Dielectric nonlinearities in ferroelectric thin-film heterostructures. <i>Applied Physics Letters</i> , 2001, 78, 527-529.	1.2	11
62	Interfacial nanolayers and permittivity of ferroelectric superlattices. <i>Journal of Applied Physics</i> , 2011, 109, 126101.	1.5	10
63	Low-temperature evolution of local polarization properties of PbZr _{0.65} Ti _{0.35} O ₃ thin films probed by piezoresponse force microscopy. <i>Applied Physics Letters</i> , 2014, 104, .	1.1	10
64	Concurrent bandgap narrowing and polarization enhancement in epitaxial ferroelectric nanofilms. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 026002.	1.5	10
65	Charge transport in epitaxial barium titanate films. <i>Physical Review B</i> , 2020, 101, .	2.8	10
66	Relaxor ferroelectric thin-film heterostructures: Scaling of dielectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2003, 14, 369-374.	1.1	10
67	Dielectric nonlinearity in relaxor and ferroelectric thin films of chemically ordered PbSc _{0.5} Nb _{0.5} O ₃ . <i>Applied Physics Letters</i> , 2004, 85, 4720-4722.	1.1	9
68	Optical properties of epitaxial relaxor ferroelectric PbSc _{0.5} Nb _{0.5} O ₃ films. <i>Applied Physics Letters</i> , 2013, 103, 132901.	1.5	9
69	Ambience-sensitive optical refraction in ferroelectric nanofilms of NaNbO ₃ . <i>Science and Technology of Advanced Materials</i> , 2014, 15, 045001.	1.5	9
70	Pulsed laser deposition of relaxor-based PbLu _{0.5} Nb _{0.5} O ₃ thin films. <i>Journal of Applied Physics</i> , 2000, 88, 4274.	2.8	9
71	Ferroelectric domains in epitaxial PbZr _{0.65} Ti _{0.35} O ₃ /La _{0.5} Sr _{0.5} CoO ₃ heterostructures. <i>Applied Physics Letters</i> , 2010, 97, 062902.	1.1	7
72		1.5	7

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73	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
74	Enhancing polarization by electrode-controlled strain relaxation in PbTiO_3 heterostructures. APL Materials, 2016, 4, .	2.2	7
75	Optical NIR-VIS-VUV constants of advanced substrates for thin-film devices. Optical Materials Express, 2017, 7, 3844.	1.6	7
76	Elasto-optic behaviour in epitaxial films of perovskite oxide ferroelectrics. Advances in Applied Ceramics, 2018, 117, 62-65.	0.6	7
77	Ferroelectric phase transitions induced by a strain gradient. Physical Review Research, 2021, 3, .	1.3	7
78	Optical Properties of Ferroelectric Epitaxial $\text{K}_{0.5}\text{Na}_{0.5}\text{NbO}_3$ Films in Visible to Ultraviolet Range. PLoS ONE, 2016, 11, e0153261.	1.1	7
79	Dynamic nonlinearity in epitaxial BaTiO_3 films. Physical Review B, 2016, 94, .	1.1	6
80	Chemical-bond effect on epitaxial strain in perovskite sodium niobate. Physical Chemistry Chemical Physics, 2018, 20, 4263-4268.	1.3	6
81	Optical revelation of defects in epitaxial barium titanate films. Physical Chemistry Chemical Physics, 2019, 21, 7874-7878.	1.3	6
82	Multiple optical impacts of anion doping in epitaxial barium titanate films. APL Materials, 2020, 8, .	2.2	6
83	Optics of epitaxial strained strontium titanate films. Applied Physics Letters, 2020, 117, 082901.	1.5	6
84	Conductivity in Ferroelectric Barium Titanate: Electrons Versus Oxygen Vacancies. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2021, 68, 296-302.	1.7	6
85	Compositional Evolution of Structure and Dielectric Properties in $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$ Epitaxial Thin-Film Heterostructures. Ferroelectrics, 2005, 318, 49-53.	0.3	5
86	Strain fluctuations in $\text{BaTiO}_3/\text{SrTiO}_3$ heterostructures. Materials Research Bulletin, 2017, 89, 180-184.	2.7	5
87	Thermo-optical evidence of carrier-stabilized ferroelectricity in ultrathin electrodeless films. Scientific Reports, 2018, 8, 8497.	1.6	5
88	<i>In situ</i> anion-doped epitaxial strontium titanate films. Physical Chemistry Chemical Physics, 2020, 22, 24796-24800.	1.3	5
89	Strain enhancement due to oxygen vacancies in perovskite oxide films. Journal of Materials Chemistry C, 2022, 10, 6770-6777.	2.7	5
90	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

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91	Polydomain configuration in epitaxial Pb _{0.5} Sr _{0.5} TiO ₃ /La _{0.5} Sr _{0.5} CoO ₃ heterostructures. Applied Physics Letters, 2010, 97, 202909.	1.5	4
92	Ellipsometry applied to phase transitions and relaxation phenomena in Ni ₂ MnGa ferromagnetic shape memory alloy. Applied Physics Letters, 2012, 101, .	1.5	4
93	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
94	Mobile and immobile boundaries in ferroelectric films. Scientific Reports, 2021, 11, 1899.	1.6	4
95	Electrical conductivity in oxygen-substituted SrTiO _{3-δ} films. Applied Physics Letters, 2021, 119, .	1.5	4
96	Dielectric Fourier - Spectroscopy in Relaxor and Normal Ferroelectric Thin Films. Ferroelectrics, 2002, 270, 241-246.	0.3	3
97	Ferroelectric Behavior in Epitaxial Films of Relaxor PbMg _{1/3} Nb _{2/3} O ₃ . Ferroelectrics, 2004, 302, 285-288.	0.3	3
98	Dynamics of Nanodomains in Epitaxial Thin-Film PbZr _{0.65} Ti _{0.35} O ₃ . Ferroelectrics, 2008, 373, 44-50.	0.3	3
99	Effects of doping and epitaxy on optical behavior of NaNbO ₃ films. Applied Physics Letters, 2015, 107, 172906.	1.5	3
100	Hysteresis-Free Piezoresponse in Thermally Strained Ferroelectric Barium Titanate Films. Electronic Materials, 2021, 2, 17-23.	0.9	3
101	Structure and Properties of Pb(LuNb)O ₃ -PbTiO ₃ Ceramics and Thin Films. Ferroelectrics, 2003, 294, 41-47.	0.3	3
102	Low-temperature NIR-VUV optical constants of (001) LaAlO ₃ crystal. Optical Materials Express, 2022, 12, 3081.	1.6	3
103	Structure and Properties of Pb(LuNb)O ₃ -PbTiO ₃ Ceramics and Thin Films. Ferroelectrics, 2003, 294, 41-47.	0.3	2
104	Thin Film Multilayers of Ferroelectric Barium Strontium Titanate. Ferroelectrics, 2006, 335, 127-136.	0.3	2
105	Nanoscale engineering of ferroelectric functionality. Journal of Electroceramics, 2010, 24, 15-19.	0.8	2
106	Enhanced relaxor behavior in epitaxial PbMg _{1/3} Nb _{2/3} O ₃ films. Physical Review B, 2010, 81, .	1.1	2
107	Polarized Raman scattering study of PSN single crystals and epitaxial thin films. Journal of Advanced Dielectrics, 2015, 05, 1550013.	1.5	2
108	Aging in epitaxial ferroelectric PbTiO ₃ films. Journal of Advanced Dielectrics, 2016, 06, 1650026.	1.5	2

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109	Dielectric relaxation in epitaxial films of paraelectric-magnetic SrTiO ₃ -SrMnO ₃ solid solution. Applied Physics Letters, 2018, 112, .	1.5	2
110	Hybrid polar state in epitaxial (111) PbSc _{0.5} Nb _{0.5} O ₃ relaxor ferroelectric films. Physical Review Materials, 2019, 3, .	0.9	2
111	Large Negative Photoresistivity in Amorphous NdNiO ₃ Film. Coatings, 2021, 11, 1411.	1.2	2
112	Superior elasto-optic tetragonal SrTiO ₃ films. APL Materials, 2021, 9, .	2.2	2
113	Dielectric Anomalies in Relaxor Ferroelectric Thin Films. Ferroelectrics, 2002, 270, 235-240.	0.3	1
114	Glassy State in Relaxor Ferroelectric Thin Films. Ferroelectrics, 2003, 291, 93-99.	0.3	1
115	Thin Films of Perovskite Relaxor Ferroelectrics. Ferroelectrics, 2004, 298, 353-359.	0.3	1
116	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
117	Dielectric properties of NaNbO ₃ :SrTiO ₃ interface nanolayer. Journal of Applied Physics, 2011, 109, 014103.	1.1	1
118	Agglomeration and surface morphology during pulsed laser deposition of Pb-Zr-Ti-O. Scripta Materialia, 1999, 12, 263-266.	0.5	0
119	Phase transitions in epitaxial films of relaxor ferroelectric binary systems near the morphotropic phase boundary. Ferroelectrics, 2001, 258, 265-270.	0.3	0
120	<title>Glass to ferroelectric phase transition induced by ac electric field in PbMg<math>\langle \inf \rangle \langle \text{roman} \rangle 1/3 \langle / \text{roman} \rangle \langle / \inf \rangle \langle / \text{formula} \rangle \text{Nb} \langle \text{formula} \rangle \langle \inf \rangle \langle \text{roman} \rangle 2/3 \langle / \text{roman} \rangle \langle / \inf \rangle \langle / \text{formula} \rangle \text{O} \langle \text{formula} \rangle \langle \inf \rangle \langle / \text{formula} \rangle \text{ thin films}</title>. , 2003, 5122, 334.		
121	Epitaxial Films of Relaxor Ferroelectric PbMg _{1/3} Nb _{2/3} O ₃ in Strong Electric Fields. Ferroelectrics, 2005, 318, 29-34.	0.3	0
122	Dielectric Hysteresis in Thin-Film Ferroelectrics and Relaxors. Applications of Ferroelectrics, IEEE International Symposium on, 2006, , .	0.0	0
123	Dielectric Hysteresis in Thin-Film Ferroelectrics and Relaxors. Applications of Ferroelectrics, IEEE International Symposium on, 2006, , .	0.0	0
124	Dynamic Dielectric Nonlinearity in Epitaxial Thin-Film Relaxors and Ferroelectrics. Ferroelectrics, 2006, 339, 85-93.	0.3	0
125	E-MRS Fall Meeting, Technical University of Warsaw, September 2014, Symposium "Functional Perovskite Systems". Phase Transitions, 2015, 88, 951-952.	0.6	0
126	Quasi-static electric field "temperature diagrams in epitaxial relaxor ferroelectric films. Phase Transitions, 2015, 88, 74-81.	0.6	0

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127	<title>Glass-like behavior in relaxor ferroelectric thin films</title>. , 2003, , .		0
128	Interface Effects in Ferroelectric Thin Films. , 1998, , 457-464.		0
129	Pulsed laser deposition of relaxor ferroelectric films. European Physical Journal Special Topics, 1998, 08, Pr9-261-Pr9-264.	0.2	0
130	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