

# A L Kholkin

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

509  
papers

13,024  
citations

58  
h-index

91  
g-index

546  
ext. papers

14,387  
ext. citations

3.5  
avg. IF


6.47  
L-index

#	Paper	IF	Citations
509	Core-Shell Magnetoactive PHB/Gelatin/Magnetite Composite Electrospun Scaffolds for Biomedical Applications.. <i>Polymers</i> , <b>2022</b> , 14,	4.5	4
508	Temperature dependent structural, dielectric, Raman, piezoresponse and photoluminescence investigations in sol-gel derived BCZT ceramics. <i>Materials Chemistry and Physics</i> , <b>2022</b> , 277, 125526	4.4	1
507	Instrumented electromagnetic generator: Optimized performance by automatic self-adaptation of the generator structure. <i>Mechanical Systems and Signal Processing</i> , <b>2022</b> , 171, 108898	7.8	0
506	Towards Self-Adaptability of Instrumented Electromagnetic Energy Harvesters. <i>Machines</i> , <b>2022</b> , 10, 414	2.9	0
505	Piezoactive dense diphenylalanine thin films via solid-phase crystallization. <i>Applied Materials Today</i> , <b>2021</b> , 101261	6.6	0
504	Magnetolectric effect: principles and applications in biology and medicine- a review. <i>Materials Today Bio</i> , <b>2021</b> , 12, 100149	9.9	9
503	2D Layered Dipeptide Crystals for Piezoelectric Applications (Adv. Funct. Mater. 43/2021). <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2170320	15.6	
502	Wake-up Free Ferroelectric Rhombohedral Phase in Epitaxially Strained ZrO Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 51383-51392	9.5	6
501	Nanoscale Piezoelectric Properties and Phase Separation in Pure and La-Doped BiFeO Films Prepared by Sol-Gel Method. <i>Materials</i> , <b>2021</b> , 14,	3.5	1
500	Multiferroic properties of barium strontium titanate ceramics doped with gadolinium and iron. <i>Ferroelectrics</i> , <b>2021</b> , 574, 109-114	0.6	
499	Modeling and physical properties of diphenylalanine peptide nanotubes containing water molecules. <i>Ferroelectrics</i> , <b>2021</b> , 574, 78-91	0.6	5
498	Temperature-dependent Raman spectroscopy, domain morphology and photoluminescence studies in lead-free BCZT ceramic. <i>Ceramics International</i> , <b>2021</b> , 47, 2828-2838	5.1	5
497	Local electronic transport across probe/ionic conductor interface in scanning probe microscopy. <i>Ultramicroscopy</i> , <b>2021</b> , 220, 113147	3.1	3
496	Nanoconfined water governs polarization-related properties of self-assembled peptide nanotubes. <i>Nano Select</i> , <b>2021</b> , 2, 817-829	3.1	6
495	Statics and dynamics of ferroelectric domains in molecular multiaxial ferroelectric (Me <sub>3</sub> NOH) <sub>2</sub> [KCo(CN) <sub>6</sub> ]. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 10741-10748	7.1	3
494	A combined theoretical and experimental study of the phase coexistence and morphotropic boundaries in ferroelectric-antiferroelectric-antiferrodistortive multiferroics. <i>Acta Materialia</i> , <b>2021</b> , 213, 116939	8.4	1
493	2D Layered Dipeptide Crystals for Piezoelectric Applications. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2102524	15.6	7

492	Local Polarization Reversal by Ion Beam Irradiation in SBN Single Crystals Covered by Dielectric Layer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 2824-2831	3.2	0
491	Hybrid Triboelectric-Electromagnetic Nanogenerators for Mechanical Energy Harvesting: A Review. <i>Nano-Micro Letters</i> , <b>2021</b> , 13, 199	19.5	14
490	Modeling of Self-Assembled Peptide Nanotubes and Determination of Their Chirality Sign Based on Dipole Moment Calculations. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
489	Enhanced piezoresponse and surface electric potential of hybrid biodegradable polyhydroxybutyrate scaffolds functionalized with reduced graphene oxide for tissue engineering. <i>Nano Energy</i> , <b>2021</b> , 89, 106473	17.1	9
488	Synthesis and characterisation of lead free BaFe <sub>12</sub> O <sub>19</sub> (K <sub>0.5</sub> Na <sub>0.5</sub> )NbO <sub>3</sub> magnetoelectric composites, and the comparison of various synthetic routes. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 883, 160819	5.7	
487	Exploring Charged Defects in Ferroelectrics by the Switching Spectroscopy Piezoresponse Force Microscopy.. <i>Small Methods</i> , <b>2021</b> , e2101289	12.8	2
486	Impact of Alkali Ions Codoping on Magnetic Properties of La <sub>0.9</sub> A <sub>0.1</sub> Mn <sub>0.9</sub> Co <sub>0.1</sub> O <sub>3</sub> (A: Li, K, Na) Powders and Ceramics. <i>Applied Sciences (Switzerland)</i> , <b>2020</b> , 10, 8786	2.6	
485	The effect of water molecules on elastic and piezoelectric properties of diphenylalanine microtubes. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 1474-1477	2.3	4
484	Surface Piezoelectricity and Pyroelectricity in Centrosymmetric Materials: A Case of Glycine. <i>Materials</i> , <b>2020</b> , 13,	3.5	5
483	Perovskite ferroelectric thin film as an efficient interface to enhance the photovoltaic characteristics of Si/SnOx heterojunctions. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 11314-11326	13	5
482	Chemical Solution Deposition of BiFeO <sub>3</sub> Films with Layer-by-Layer Control of the Coverage and Composition. <i>Coatings</i> , <b>2020</b> , 10, 438	2.9	2
481	Efficient Water Self-Diffusion in Diphenylalanine Peptide Nanotubes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 27485-27492	9.5	6
480	Interferometric measurements of graphene-based membranes for micromechanical applications. <i>Ferroelectrics</i> , <b>2020</b> , 560, 95-101	0.6	
479	Calibration of the in-plane PFM response by the lateral force curves. <i>Ferroelectrics</i> , <b>2020</b> , 559, 15-21	0.6	6
478	Piezoelectric Actuation of Graphene-Coated Polar Structures. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 2142-2147	3.2	1
477	Raman Spectra of Diphenylalanine Microtubes: Polarisation and Temperature Effects. <i>Crystals</i> , <b>2020</b> , 10, 224	2.3	4
476	Piezoelectricity in Self-Assembled Peptides: A New Way towards Electricity Generation at Nanoscale <b>2020</b> ,		1
475	Strain-polarization coupling mechanism of enhanced conductivity at the grain boundaries in BiFeO <sub>3</sub> thin films. <i>Applied Materials Today</i> , <b>2020</b> , 20, 100740	6.6	4

474	Natural and Eco-Friendly Materials for Triboelectric Energy Harvesting. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 42	19.5	32
473	Dual Vibration and Magnetic Energy Harvesting With Bidomain LiNbO-Based Composite. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 1219-1229	3.2	11
472	Magnetic Properties of LaAMnO (A: Li, Na, K) Nanopowders and Nanoceramics. <i>Materials</i> , <b>2020</b> , 13,	3.5	3
471	Peculiarities of the Crystal Structure Evolution of BiFeO-BaTiO Ceramics across Structural Phase Transitions. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	26
470	Domain Switching by Electron Beam Irradiation in SBN61:Ce Single Crystals Covered by Dielectric Layer. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2020</b> , 67, 191-196	3.2	3
469	Electromagnetic energy harvesting using magnetic levitation architectures: A review. <i>Applied Energy</i> , <b>2020</b> , 260, 114191	10.7	51
468	Fracture strength and fatigue endurance in Gd-doped ceria thermal actuators. <i>Sensors and Actuators A: Physical</i> , <b>2020</b> , 304, 111885	3.9	1
467	Local electromechanical response in doped ceria: Rigorous analysis of the phase and amplitude. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , <b>2020</b> , 27, 1478-1485	2.3	3
466	Piezoelectric Properties of PbLa(ZrTi)O Thin Films Studied by In Situ X-ray Diffraction. <i>Materials</i> , <b>2020</b> , 13,	3.5	1
465	Photoresponsive Organic-Inorganic Hybrid Ferroelectric Designed at the Molecular Level. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 16990-16998	16.4	40
464	Magnetoelectric Effect in the Bidomain Lithium Niobate/Nickel/Metglas Gradient Structure. <i>Physica Status Solidi (B): Basic Research</i> , <b>2020</b> , 257, 1900398	1.3	8
463	To switch or not to switch a machine learning approach for ferroelectricity. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 2063-2072	5.1	6
462	Optical, Dielectric and Magnetic Properties of La <sub>1-x</sub> NdxFeO <sub>3</sub> Powders and Ceramics. <i>Ceramics</i> , <b>2019</b> , 2, 1-12	1.7	3
461	Controlled Growth of Stable $\beta$ -Glycine via Inkjet Printing. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 3869-3875	3.5	4
460	Correlative Confocal Raman and Scanning Probe Microscopy in the Ionically Active Particles of LiMnO Cathodes. <i>Materials</i> , <b>2019</b> , 12,	3.5	8
459	Highly sensitive magnetic field sensor based on a metglas/bidomain lithium niobate composite shaped in form of a tuning fork. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 486, 165209	2.8	21
458	Low-Frequency Vibration Energy Harvesting With Bidomain LiNbO Single Crystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2019</b> , 66, 1480-1487	3.2	14
457	Domain Diversity and Polarization Switching in Amino Acid $\beta$ -Glycine. <i>Materials</i> , <b>2019</b> , 12,	3.5	6

456	Strong sub-resonance magnetoelectric coupling in PZT-NiFe <sub>2</sub> O <sub>4</sub> -PZT thin film composite. <i>Nano Structures Nano Objects</i> , <b>2019</b> , 18, 100272	5.6	19
455	Hybrid organic-inorganic perovskites: Polar properties and applications. <i>Coordination Chemistry Reviews</i> , <b>2019</b> , 387, 398-414	23.2	60
454	Narrow optical gap ferroelectric Bi <sub>2</sub> ZnTiO <sub>6</sub> thin films deposited by RF sputtering. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 10696-10701	13	6
453	Crystal Structure and Strong Piezoelectricity of New Amino Acid Based Hybrid Crystals: [H-[3-Pyridyl)-Ala-OH][ClO <sub>4</sub> ] and [H-[4-Pyridyl)-Ala-OH][ClO <sub>4</sub> ]. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 2583-2593	3.5	3
452	Electro-chemomechanical Contribution to Mechanical Actuation in Gd-Doped Ceria Membranes. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1801592	4.6	15
451	Structure and piezoelectric properties of Sm-doped BiFeO <sub>3</sub> ceramics near the morphotropic phase boundary. <i>Materials Research Bulletin</i> , <b>2019</b> , 112, 420-425	5.1	8
450	Effect of ferroelectric domains on electric properties of single layer graphene. <i>Ferroelectrics</i> , <b>2019</b> , 542, 93-101	0.6	1
449	Indentation induced local polarization reversal in La doped BiFeO <sub>3</sub> ceramics. <i>Ferroelectrics</i> , <b>2019</b> , 541, 1-9	0.6	3
448	Chirality-Dependent Growth of Self-Assembled Diphenylalanine Microtubes. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 6414-6421	3.5	24
447	Mn-Doped BaTiOCeramics: Thermal and Electrical Properties for Multicaloric Applications. <i>Materials</i> , <b>2019</b> , 12,	3.5	3
446	Surface wettability modification of poly(vinylidene fluoride) and copolymer films and membranes by plasma treatment. <i>Polymer</i> , <b>2019</b> , 169, 138-147	3.9	30
445	Nanoplasmonic response of porous Au-TiO thin films prepared by oblique angle deposition. <i>Nanotechnology</i> , <b>2019</b> , 30, 225701	3.4	22
444	Diphenylalanine-Based Microribbons for Piezoelectric Applications via Inkjet Printing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 10543-10551	9.5	22
443	Low-frequency magnetic sensing by magnetoelectric metglas/bidomain LiNbO <sub>3</sub> long bars. <i>Journal Physics D: Applied Physics</i> , <b>2018</b> , 51, 214001	3	22
442	Local switching in SBN:Ni single crystals with various initial domain states. <i>Ferroelectrics</i> , <b>2018</b> , 525, 100-107	10.7	8
441	Local electromechanical characterization of Pr doped BiFeO <sub>3</sub> ceramics. <i>Ferroelectrics</i> , <b>2018</b> , 525, 64-75	0.6	2
440	Investigation of physical properties of diphenylalanine peptide nanotubes having different chiralities and embedded water molecules. <i>Ferroelectrics</i> , <b>2018</b> , 525, 168-177	0.6	10
439	Piezoelectric properties and Young's moduli of diphenylalanine microtubes/oxide nanoparticles composites. <i>Ferroelectrics</i> , <b>2018</b> , 525, 146-155	0.6	3

438	Domain structure evolution in relaxor PLZT 8/65/35 ceramics after chemical etching and electron beam irradiation. <i>Ferroelectrics</i> , <b>2018</b> , 525, 83-92	0.6	4
437	Converse piezoelectricity and ferroelectricity in crystals of lysozyme protein revealed by piezoresponse force microscopy. <i>Ferroelectrics</i> , <b>2018</b> , 525, 135-145	0.6	5
436	Pressure-dependent large area synthesis and electronic structure of MoS <sub>2</sub> . <i>Materials Research Bulletin</i> , <b>2018</b> , 97, 265-271	5.1	4
435	Fixed volume effect on polar properties and phase diagrams of ferroelectric semi-ellipsoidal nanoparticles. <i>European Physical Journal B</i> , <b>2018</b> , 91, 1	1.2	5
434	Graphene-based materials and structures for energy harvesting with fluids – A review. <i>Materials Today</i> , <b>2018</b> , 21, 1019-1041	21.8	50
433	Local Study of Lithiation and Degradation Paths in LiMn <sub>2</sub> O <sub>4</sub> Battery Cathodes: Confocal Raman Microscopy Approach. <i>Batteries</i> , <b>2018</b> , 4, 21	5.7	7
432	Effect of the Chloride Anions on the Formation of Self-Assembled Diphenylalanine Peptide Nanotubes. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2018</b> , 65, 1563-1570	3.2	4
431	 <i>Technical Physics</i> , <b>2018</b> , 88, 1355	0	
430	An atomic force microscopy mode for nondestructive electromechanical studies and its application to diphenylalanine peptide nanotubes. <i>Ultramicroscopy</i> , <b>2018</b> , 185, 49-54	3.1	13
429	Quantitative characterization of the ionic mobility and concentration in Li-battery cathodes via low frequency electrochemical strain microscopy. <i>Nanoscale</i> , <b>2018</b> , 10, 2503-2511	7.7	22
428	Structure and properties of various fast neutron irradiated magnets. <i>Physica B: Condensed Matter</i> , <b>2018</b> , 551, 132-136	2.8	1
427	Control of piezoelectricity in amino acids by supramolecular packing. <i>Nature Materials</i> , <b>2018</b> , 17, 180-186	7	118
426	Influence of the domain structure on piezoelectric and dielectric properties of relaxor SBN single crystals. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 443, 012031	0.4	4
425	Imprint behavior and polarization relaxation of PLZT thin films. <i>Ferroelectrics</i> , <b>2018</b> , 533, 10-18	0.6	2
424	Decoupling Mesoscale Functional Response in PLZT across the Ferroelectric-Relaxor Phase Transition with Contact Kelvin Probe Force Microscopy and Machine Learning. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 42674-42680	9.5	6
423	Non-Hydrostatic Pressure-Induced Phase Transitions in Self-Assembled Diphenylalanine Microtubes. <i>Technical Physics</i> , <b>2018</b> , 63, 1311-1315	0.5	2
422	Built-in bias in Gd-doped ceria films and its implication for electromechanical actuation devices. <i>Solid State Ionics</i> , <b>2018</b> , 327, 47-51	3.3	6
421	A comparative study of structural and electrical properties in lead-free BCZT ceramics: Influence of the synthesis method. <i>Acta Materialia</i> , <b>2018</b> , 155, 331-342	8.4	46

420	Magnetoelectric metglas/bidomain y + 140 $\mu$ m-cut lithium niobate composite for sensing FT magnetic fields. <i>Applied Physics Letters</i> , <b>2018</b> , 112, 262906	3.4	31
419	Magnetization reversal behavior and magnetocaloric effect in SmCr <sub>0.85</sub> Mn <sub>0.15</sub> O <sub>3</sub> chromites. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 043907	2.5	30
418	Impact of low level praseodymium substitution on the magnetic properties of YCrO <sub>3</sub> orthochromites. <i>Physica B: Condensed Matter</i> , <b>2017</b> , 510, 104-108	2.8	13
417	High Resolution Piezoresponse Force Microscopy Study of Self-Assembled Peptide Nanotubes. <i>MRS Advances</i> , <b>2017</b> , 2, 63-69	0.7	
416	Raman study of structural transformations in self-assembled diphenylalanine nanotubes at elevated temperatures. <i>Journal of Raman Spectroscopy</i> , <b>2017</b> , 48, 1401-1405	2.3	27
415	Dielectric relaxation and charged domain walls in (K,Na)NbO <sub>3</sub> -based ferroelectric ceramics. <i>Journal of Applied Physics</i> , <b>2017</b> , 121, 074101	2.5	31
414	Raman spectroscopy, Big data and local heterogeneity of solid state synthesized lithium titanate. <i>Journal of Power Sources</i> , <b>2017</b> , 346, 143-150	8.9	14
413	Thermal and aqueous stability improvement of graphene oxide enhanced diphenylalanine nanocomposites. <i>Science and Technology of Advanced Materials</i> , <b>2017</b> , 18, 172-179	7.1	13
412	Equivalent Magnetic Noise in Magnetoelectric Laminates Comprising Bidomain LiNbO Crystals. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2017</b> , 64, 1102-1119	3.2	22
411	Characterization of domain structure and domain wall kinetics in lead-free Sr <sup>2+</sup> doped K <sub>0.5</sub> Na <sub>0.5</sub> NbO <sub>3</sub> piezoelectric ceramics by piezoresponse force microscopy. <i>Ferroelectrics</i> , <b>2017</b> , 508, 77-86	0.6	7
410	Surface potential distribution of multilayer graphene using Kelvin probe and electric-field force microscopies. <i>Ferroelectrics</i> , <b>2017</b> , 508, 115-123	0.6	5
409	Physical properties and reentrant behavior in PLZT thin films. <i>Ferroelectrics</i> , <b>2017</b> , 509, 1-9	0.6	
408	Effect of surface disorder on the domain structure of PLZT ceramics. <i>Ferroelectrics</i> , <b>2017</b> , 509, 19-26	0.6	2
407	Self-Assembly of Organic Ferroelectrics by Evaporative Dewetting: A Case of $\beta$ -Glycine. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 20029-20037	9.5	14
406	Flexible nanofilms coated with aligned piezoelectric microfibers preserve the contractility of cardiomyocytes. <i>Biomaterials</i> , <b>2017</b> , 139, 213-228	15.6	39
405	Electromechanical properties of electrostrictive CeO <sub>2</sub> :Gd membranes: Effects of frequency and temperature. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 142902	3.4	17
404	Structural, magnetic, magnetocaloric and specific heat investigations on Mn doped PrCrO orthochromites. <i>Journal of Physics Condensed Matter</i> , <b>2017</b> , 29, 195802	1.8	19
403	Defect concentration in nitrogen-doped graphene grown on Cu substrate: A thickness effect. <i>Physica B: Condensed Matter</i> , <b>2017</b> , 513, 62-68	2.8	2

402	The effect of phase assemblages, grain boundaries and domain structure on the local switching behavior of rare-earth modified bismuth ferrite ceramics. <i>Acta Materialia</i> , <b>2017</b> , 125, 265-273	8.4	31
401	The direct piezoelectric effect in the globular protein lysozyme. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 142902	3.4	23
400	Enhancement of local piezoelectric properties of a perforated ferroelectric thin film visualized via piezoresponse force microscopy. <i>Journal Physics D: Applied Physics</i> , <b>2017</b> , 50, 425303	3	2
399	Piezoelectric poly(lactide) stereocomplexes with a cholinium organic ionic plastic crystal. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 12134-12142	7.1	9
398	Piezoelectric response and electrical properties of Pb(Zr <sub>1-x</sub> Ti <sub>x</sub> )O <sub>3</sub> thin films: The role of imprint and composition. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 164104	2.5	8
397	Single particle structure characterization of solid-state synthesized Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> . <i>Journal of Raman Spectroscopy</i> , <b>2017</b> , 48, 278-283	2.3	5
396	Local Young's moduli of as-grown and annealed diphenylalanine nanotubes. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 256, 012012	0.4	2
395	Thermal excitation contribution into the electromechanical performance of self-supported Gd-doped ceria membranes. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2017</b> , 256, 012008	0.4	1
394	Giant Strain and Induced Ferroelectricity in Amorphous BaTiO <sub>3</sub> Films under Poling. <i>Materials</i> , <b>2017</b> , 10,	3.5	1
393	Ferroelectric Domain Structure and Local Piezoelectric Properties of Lead-Free (KNa)NbO <sub>3</sub> and BiFeO <sub>3</sub> Based Piezoelectric Ceramics. <i>Materials</i> , <b>2017</b> , 10,	3.5	27
392	Local electric field distribution in ferroelectric films and photonic crystals during polarization reversal. <i>Ferroelectrics</i> , <b>2016</b> , 503, 138-148	0.6	4
391	Strong piezoelectricity in [H-(2-pyridyl)-Ala-OH][BF <sub>4</sub> ] and [H-(2-pyridyl)-Ala-OH][ClO <sub>4</sub> ] chiral amino acid based hybrid crystals. <i>Journal of Materials Chemistry C</i> , <b>2016</b> , 4, 7622-7631	7.1	4
390	On the origin of the great rigidity of self-assembled diphenylalanine nanotubes. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 29681-29685	3.6	34
389	Energy Harvesting with Biomaterials <b>2016</b> , 297-316		1
388	Piezoresponse Force Microscopy for Bioelectromechanics <b>2016</b> , 435-450		0
387	Correspondence: Reply to 'On the nature of strong piezoelectricity in graphene on SiO <sub>2</sub> '. <i>Nature Communications</i> , <b>2016</b> , 7, 11571	17.4	3
386	Defect chemistry and relaxation processes: effect of an amphoteric substituent in lead-free BCZT ceramics. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 31184-31201	3.6	29
385	Piezoelectric properties of diphenylalanine microtubes prepared from the solution. <i>Journal of Physics and Chemistry of Solids</i> , <b>2016</b> , 93, 68-72	3.9	55



384	Evaporation-Driven Crystallization of Diphenylalanine Microtubes for Microelectronic Applications. <i>Crystal Growth and Design</i> , <b>2016</b> , 16, 1472-1479	3.5	26
383	Phase stability and dynamics of hybrid organic-organic crystals [(CH <sub>3</sub> ) <sub>3</sub> PH][SbCl <sub>4</sub> ] and [(CH <sub>3</sub> ) <sub>3</sub> PH][SbBr <sub>4</sub> ]: a computational and NMR approach. <i>CrystEngComm</i> , <b>2016</b> , 18, 2413-2424	3.3	6
382	Low-temperature photoluminescence in self-assembled diphenylalanine microtubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2016</b> , 380, 1658-1662	2.3	31
381	Piezoresponse Force Microscopy and Spectroscopy <b>2016</b> , 3252-3263		
380	Probing ferroelectric behaviour in charge-transfer organic meta-nitroaniline. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 162903	3.4	9
379	Thickness effect on the structure, grain size, and local piezoresponse of self-polarized lead lanthanum zirconate titanate thin films. <i>Journal of Applied Physics</i> , <b>2016</b> , 120, 054101	2.5	16
378	Dual strain mechanisms in a lead-free morphotropic phase boundary ferroelectric. <i>Scientific Reports</i> , <b>2016</b> , 6, 19630	4.9	49
377	Pyroelectric effect and polarization instability in self-assembled diphenylalanine microtubes. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 142902	3.4	39
376	Characterization of LiMn <sub>2</sub> O <sub>4</sub> cathodes by electrochemical strain microscopy. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 113106	3.4	20
375	Domain wall orientation and domain shape in KTiOPO <sub>4</sub> crystals. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 132901	3.4	9
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252	Preparation, structures, and multiferroic properties of single-phase BiRFeO <sub>3</sub> , R=La and Er ceramics. <i>Current Applied Physics</i> , <b>2011</b> , 11, 508-512	2.6	51
251	Study of structural and ferromagnetic properties of pure and Cd doped copper ferrite. <i>Journal of Physics and Chemistry of Solids</i> , <b>2011</b> , 72, 862-868	3.9	15
250	Enhanced ferroelectric, magnetic and magnetoelectric properties of Bi <sub>1-x</sub> CaxFe <sub>1-x</sub> TixO <sub>3</sub> solid solutions. <i>Solid State Communications</i> , <b>2011</b> , 151, 536-540	1.6	36
249	Preface to special topic: Piezoresponse force microscopy and nanoscale phenomena in polar materials. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 051901	2.5	2
248	Ferroelectric domain structure of PbZr <sub>0.35</sub> Ti <sub>0.65</sub> O <sub>3</sub> single crystals by piezoresponse force microscopy. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 052003	2.5	30
247	Local domain engineering in relaxor 0.77PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> -0.23PbSc <sub>1/2</sub> Nb <sub>1/2</sub> O <sub>3</sub> single crystals. <i>Journal of Applied Physics</i> , <b>2011</b> , 110, 052002	2.5	12
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245	Enhanced piezoelectric and magnetic properties of Bi <sub>1-x</sub> CaxFe <sub>1-x</sub> /2Nbx/2O <sub>3</sub> solid solutions. <i>Journal of Applied Physics</i> , <b>2011</b> , 109, 114102	2.5	9
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241	Study of Ni <sub>2</sub> MnGa phase formation by magnetron sputtering film deposition at low temperature onto Si substrates and LaNiO <sub>3</sub> Pb(Ti,Zr)O <sub>3</sub> buffer. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2010</b> , 28, 6-10	2.9	27



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238	Investigation of the ferroelectric-relaxor transition in PbMg <sub>1/3</sub> Nb <sub>2/3</sub> O <sub>3</sub> PbTiO <sub>3</sub> ceramics by piezoresponse force microscopy. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 042007	2.5	22
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235	Polar Structures in Relaxors by Piezoresponse Force Microscopy <b>2010</b> , 345-383		5
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126	X- ray and AFM studies of Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8+x</sub> single-crystals grown by different methods. <i>Journal of Crystal Growth</i> , <b>2005</b> , 275, e1799-e1805	1.6	2
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124	Structure-microstructure-dielectric tunability relationship in Mn-doped strontium titanate ceramics. <i>Acta Materialia</i> , <b>2005</b> , 53, 5061-5069	8.4	94
123	Domain populations in lead zirconate titanate thin films of different compositions via piezoresponse force microscopy. <i>Nanotechnology</i> , <b>2005</b> , 16, 2587-2595	3.4	82
122	Direct characterization of nanoscale domain switching and local piezoelectric loops of (Pb,La)TiO <sub>3</sub> thin films by piezoresponse force microscopy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2005</b> , 81, 1207-1212	2.6	6
121	Effect of nonstoichiometry on the microstructure and dielectric properties of strontium titanate ceramics. <i>Journal of the European Ceramic Society</i> , <b>2005</b> , 25, 2769-2772	6	44
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116	Evolution of bias field and offset piezoelectric coefficient in bulk lead zirconate titanate with fatigue. <i>Applied Physics Letters</i> , <b>2005</b> , 86, 012910	3.4	25
115	Fatigue-induced evolution of domain structure in ferroelectric lead zirconate titanate ceramics investigated by piezoresponse force microscopy. <i>Journal of Applied Physics</i> , <b>2005</b> , 98, 094109	2.5	40

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112	A green-emitting CdSe/poly(butyl acrylate) nanocomposite. <i>Nanotechnology</i> , <b>2005</b> , 16, 1969-1973	3.4	23
111	Broad-band dielectric spectroscopy of SrTiO <sub>3</sub> :Bi ceramics. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	31
110	Imaginary Time Schrödinger Treatment for Microstructure Modeling in Ferroelectrics. <i>Integrated Ferroelectrics</i> , <b>2004</b> , 64, 51-59	0.8	
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89	Domain structure of 0.8Pb(Mg <sub>1/3</sub> Nb <sub>2/3</sub> )O <sub>3</sub> ·0.2PbTiO <sub>3</sub> studied by piezoresponse force microscopy. <i>Physical Review B</i> , <b>2004</b> , 69,	3.3	176
88	Structural and Dielectric Properties of Mn-Doped Strontium Titanate Ceramics. <i>Ferroelectrics</i> , <b>2004</b> , 304, 87-90	0.6	21
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77	Ferroelectric Domain Structure and Local Piezoelectric Properties of Sol-Gel Derived Pb(Zr <sub>1-x</sub> Ti <sub>x</sub> )O <sub>3</sub> Films. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 784, 3101		3
76	Frequency-Dependent Electromechanical Response in Ferroelectric Materials Measured via Piezoresponse Force Microscopy. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 784, 1131		13
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38	Electromechanical properties and domain-related effects in ferroelectric thin films. <i>Ferroelectrics</i> , <b>1999</b> , 221, 219-228	0.6	16
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5	YBCO thin films on ferroelectric substrates: the polarization-induced changes of superconductive properties. <i>Superconductor Science and Technology</i> , <b>1993</b> , 6, 814-818	3.1	12
4	On the charge transport mechanisms in high-resistive SrTiO <sub>3</sub> crystals. <i>Ferroelectrics</i> , <b>1988</b> , 83, 135-139	0.6	9
3	Transient photocurrents and photoconductivity in strontium titanate. <i>Ferroelectrics</i> , <b>1982</b> , 43, 195-198	0.6	3
2	Vacuum Ultraviolet Reflection Spectra of Pb-Containing ABO <sub>3</sub> Perovskites. Application to Electrooptic Properties. <i>Physica Status Solidi A</i> , <b>1982</b> , 69, 425-429		1
1	Magnetoactive electrospun hybrid scaffolds based on poly(vinylidene fluoride-co-trifluoroethylene) and magnetite particles with varied sizes. <i>Polymer Engineering and Science</i> ,	2.3	1