

Ekhard K H Salje

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.

573
papers

17,890
citations

65
h-index

102
g-index

599
ext. papers

19,096
ext. citations

2.9
avg, IF

6.94
L-index

#	Paper	IF	Citations
573	Probing the dynamic response of ferroelectric and ferroelastic materials by simultaneous detection of elastic and piezoelectric properties. <i>Journal of Alloys and Compounds</i> , 2022 , 903, 163857	5.7	0
572	Internal friction in complex ferroelastic twin patterns. <i>Acta Materialia</i> , 2022 , 228, 117787	8.4	1
571	Symmetry and strain analysis of combined electronic and structural instabilities in tungsten trioxide, WO ₃ . <i>Journal of Applied Physics</i> , 2022 , 131, 215101	2.5	1
570	Piezoelectricity in nominally centrosymmetric phases. <i>Physical Review Research</i> , 2021 , 3,	3.9	4
569	Static and dynamic strain relaxation associated with the paraelectric-antiferroelectric phase transition in PbZrO ₃ . <i>Journal of Alloys and Compounds</i> , 2021 , 898, 162804	5.7	1
568	Energy exponents of avalanches and Hausdorff dimensions of collapse patterns.. <i>Physical Review E</i> , 2021 , 104, 054138	2.4	2
567	Porosity in minerals. <i>AIMS Materials Science</i> , 2021 , 9, 1-8	1.9	0
566	The duration-energy-size enigma for acoustic emission. <i>Scientific Reports</i> , 2021 , 11, 5590	4.9	11
565	Crackling noise and bio-cementation. <i>Engineering Fracture Mechanics</i> , 2021 , 247, 107675	4.2	6
564	Ferroelastic Twinning in Minerals: A Source of Trace Elements, Conductivity, and Unexpected Piezoelectricity. <i>Minerals (Basel, Switzerland)</i> , 2021 , 11, 478	2.4	1
563	Crackling noise and avalanches in minerals. <i>Physics and Chemistry of Minerals</i> , 2021 , 48, 1	1.6	6
562	Twisting of a Pristine tFe Nanowire: From Wild Dislocation Avalanches to Mild Local Amorphization. <i>Nanomaterials</i> , 2021 , 11,	5.4	1
561	Cracking of human teeth: An avalanche and acoustic emission study. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 122, 104666	4.1	3
560	Avalanche criticality during ferroelectric/ferroelastic switching. <i>Nature Communications</i> , 2021 , 12, 345	17.4	11
559	Tip-induced flexoelectricity, polar vortices, and magnetic moments in ferroelastic materials. <i>Journal of Applied Physics</i> , 2021 , 129, 084104	2.5	1
558	Acoustic Emission Spectroscopy: Applications in Geomaterials and Related Materials. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 8801	2.6	1
557	Real-time monitoring dislocations, martensitic transformations and detwinning in stainless steel: Statistical analysis and machine learning. <i>Journal of Materials Science and Technology</i> , 2021 , 92, 31-39	9.1	4

556	Mild and wild ferroelectrics and their potential role in neuromorphic computation. <i>APL Materials</i> , 2021 , 9, 010903	5.7	4
555	Ferroelastic domain walls as templates for multiferroic devices. <i>Journal of Applied Physics</i> , 2020 , 128, 164104	2.5	6
554	Direct evidence of polar ferroelastic domain boundaries in semiconductor BiVO ₄ . <i>Applied Physics Letters</i> , 2020 , 116, 232901	3.4	9
553	Twisting of pre-twinned Fe nanowires: from mild to wild avalanche dynamics. <i>Acta Materialia</i> , 2020 , 195, 50-58	8.4	7
552	Polaronic States and Superconductivity in WO _{3-x} . <i>Condensed Matter</i> , 2020 , 5, 32	1.8	6
551	Statistical analysis of emission, interaction and annihilation of phonons by kink motion in ferroelastic materials. <i>Applied Physics Letters</i> , 2020 , 116, 102902	3.4	6
550	Avalanches and mixing behavior of porous 316L stainless steel under tension. <i>Applied Physics Letters</i> , 2020 , 116, 111901	3.4	6
549	Enhancement of polar nature of domain boundaries in ferroelastic Pb(PO) by doping divalent-metal ions. <i>Journal of Physics Condensed Matter</i> , 2020 , 32, 345401	1.8	5
548	Enhanced piezoelectricity in twinned ferroelastics with nanocavities. <i>Physical Review Materials</i> , 2020 , 4,	3.2	7
547	First-principles characterization of single-electron polaron in WO ₃ . <i>Physical Review Research</i> , 2020 , 2,	3.9	8
546	Fine structures of acoustic emission spectra: How to separate dislocation movements and entanglements in 316L stainless steel. <i>Applied Physics Letters</i> , 2020 , 117, 262901	3.4	8
545	Avalanches in ferroelectric, ferroelastic and coelastic materials: phase transition, domain switching and propagation. <i>Ferroelectrics</i> , 2020 , 569, 82-107	0.6	8
544	Avalanches from charged domain wall motion in BaTiO ₃ during ferroelectric switching. <i>APL Materials</i> , 2020 , 8, 011105	5.7	25
543	Domain Dynamics in Quantum-Paraelectric SrTiO ₃ . <i>Physical Review Letters</i> , 2020 , 124, 016801	7.4	14
542	Domain wall generated polarity in ferroelastics: Results from resonance piezoelectric spectroscopy, piezoelectric force microscopy, and optical second harmonic generation measurements in LaAlO ₃ with twin and tweed microstructures. <i>Physical Review B</i> , 2020 , 102,	3.3	7
541	Order-parameter coupling and strain relaxation behavior of Ti ₅₀ Pd _{50-x} Cr _x martensites. <i>Physical Review B</i> , 2020 , 102,	3.3	2
540	Anisotropic avalanche dynamics during ferroelectric switching in BaTiO ₃ and 0.7Pb(Mg _{2/3} Nb _{1/3})O ₃ -0.3PbTiO ₃ . <i>Applied Physics Letters</i> , 2020 , 117, 172901	3.4	5
539	Current vortices and magnetic fields driven by moving polar twin boundaries in ferroelastic materials. <i>Npj Computational Materials</i> , 2020 , 6,	10.9	6

538	Domain-wall engineering and topological defects in ferroelectric and ferroelastic materials. <i>Nature Reviews Physics</i> , 2020 , 2, 634-648	23.6	54
537	Piezoelectricity and electrostriction in ferroelastic materials with polar twin boundaries and domain junctions. <i>Applied Physics Letters</i> , 2019 , 114, 202901	3.4	14
536	Rotatable precipitates change the scale-free to scale dependent statistics in compressed Ti nano-pillars. <i>Scientific Reports</i> , 2019 , 9, 3778	4.9	10
535	Temperature Chaos, Memory Effect, and Domain Fluctuations in the Spiral Antiferromagnet Dy. <i>Scientific Reports</i> , 2019 , 9, 5076	4.9	3
534	Acoustic Emission from Porous Collapse and Moving Dislocations in Granular Mg-Ho Alloys under Compression and Tension. <i>Scientific Reports</i> , 2019 , 9, 1330	4.9	19
533	Nano-indentation and avalanches in compressed porous SiO ₂ . <i>Applied Physics Letters</i> , 2019 , 115, 071902	3.4	4
532	Periodicity-Doubling Cascades: Direct Observation in Ferroelastic Materials. <i>Physical Review Letters</i> , 2019 , 123, 087603	7.4	20
531	Avalanche dynamics of ferroelectric phase transitions in BaTiO ₃ and 0.7Pb(Mg ₂ Nb ₁)O ₃ -0.3PbTiO ₃ single crystals. <i>Applied Physics Letters</i> , 2019 , 115, 022901	3.4	7
530	Scale-invariant avalanche dynamics in the temperature-driven martensitic transition of a Cu-Al-Be single crystal. <i>Physical Review B</i> , 2019 , 99,	3.3	11
529	The interaction between vacancies and twin walls, junctions, and kinks, and their mechanical properties in ferroelastic materials. <i>Acta Materialia</i> , 2019 , 178, 26-35	8.4	16
528	Polar nature of domain boundaries in purely ferroelastic Pb ₃ (PO ₄) ₂ investigated by second harmonic generation microscopy. <i>Physical Review B</i> , 2019 , 100,	3.3	15
527	Correlations between elastic, calorimetric, and polar properties of ferroelectric PbSc _{0.5} Ta _{0.5} O ₃ (PST). <i>Applied Physics Letters</i> , 2019 , 115, 161904	3.4	1
526	Ferroelectric switching in ferroelastic materials with rough surfaces. <i>Scientific Reports</i> , 2019 , 9, 15834	4.9	11
525	Change of crackling noise in granite by thermal damage: Monitoring nuclear waste deposits. <i>American Mineralogist</i> , 2019 , 104, 1578-1584	2.9	10
524	Ferroelectric switching and scale invariant avalanches in BaTiO ₃ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	40
523	Electrical studies of Barkhausen switching noise in ferroelectric PZT: Critical exponents and temperature dependence. <i>Physical Review Materials</i> , 2019 , 3,	3.2	20
522	Interaction of low-energy electrons with surface polarity near ferroelastic domain boundaries. <i>Physical Review Materials</i> , 2019 , 3,	3.2	9
521	Electrically driven ferroelastic domain walls, domain wall interactions, and moving needle domains. <i>Physical Review Materials</i> , 2019 , 3,	3.2	10

520	Electric-field-induced avalanches and glassiness of mobile ferroelastic twin domains in cryogenic SrTiO ₃ . <i>Physical Review Research</i> , 2019 , 1,	3.9	9
519	Avalanche mixing and the simultaneous collapse of two media under uniaxial stress. <i>Physical Review E</i> , 2019 , 99, 023002	2.4	9
518	Avalanches in Compressed Sandstone: Crackling Noise under Confinement. <i>Crystals</i> , 2019 , 9, 582	2.3	6
517	Avalanches during recrystallization in radiation-damaged pyrochlore and allanite: Statistical similarity to phase transitions in functional materials. <i>Applied Physics Letters</i> , 2019 , 115, 231904	3.4	3
516	Annealing of metamict gadolinite-(Y): X-ray diffraction, Raman, IR, and Mössbauer spectroscopy. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2019 , 234, 587-593	1	2
515	LaAlO ₃ : A substrate material with unusual ferroelastic properties. <i>Applied Physics Letters</i> , 2018 , 112, 042902	3.4	13
514	Locally preserved P ₄ phase transition in natural radiation-damaged titanite (CaTiSiO ₅): evidence from laser-induced photoluminescence and dielectric measurements. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 035403	1.8	3
513	Glassy behavior and dynamic tweed in defect-free multiferroics. <i>Applied Physics Letters</i> , 2018 , 112, 012904	3.4	7
512	Immobile defects in ferroelastic walls: Wall nucleation at defect sites. <i>Applied Physics Letters</i> , 2018 , 112, 092904	3.4	8
511	Evidence for a surface anomaly during the cubic-tetragonal phase transition in BaTiO ₃ (001). <i>Applied Physics Letters</i> , 2018 , 113, 022901	3.4	10
510	Polarity of modulated Na _{0.5} Bi _{0.5} TiO ₃ and its slow structural relaxation. <i>Applied Physics Letters</i> , 2018 , 113, 032901	3.4	7
509	Experimental Evidence of Accelerated Seismic Release without Critical Failure in Acoustic Emissions of Compressed Nanoporous Materials. <i>Physical Review Letters</i> , 2018 , 120, 245501	7.4	25
508	Macroscopic symmetry breaking and piezoelectricity in relaxor ferroelectric lead magnesium niobate. <i>Applied Physics Letters</i> , 2018 , 113, 202901	3.4	10
507	Glasslike Dynamics of Polar Domain Walls in Cryogenic SrTiO ₃ . <i>Physical Review Letters</i> , 2018 , 121, 235701	7.4	15
506	Symmetry and three-dimensional anisotropy of polar domain boundaries observed in ferroelastic LaAlO ₃ in the complete absence of ferroelectric instability. <i>Physical Review B</i> , 2018 , 98,	3.3	20
505	Surface Proximity Effect, Imprint Memory of Ferroelectric Twins, and Tweed in the Paraelectric Phase of BaTiO ₃ . <i>Scientific Reports</i> , 2018 , 8, 13660	4.9	13
504	Intermittent flow under constant forcing: Acoustic emission from creep avalanches. <i>Applied Physics Letters</i> , 2018 , 112, 054101	3.4	19
503	Radiation-damage-induced transitions in zircon: Percolation theory applied to hardness and elastic moduli as a function of density. <i>Applied Physics Letters</i> , 2018 , 112, 201901	3.4	7

502	Quantification by aberration corrected (S)TEM of boundaries formed by symmetry breaking phase transformations. <i>Ultramicroscopy</i> , 2017 , 176, 194-199	3.1	2
501	Strain intermittency due to avalanches in ferroelastic and porous materials. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 224002	1.8	7
500	Ultrafast Switching in Avalanche-Driven Ferroelectrics by Supersonic Kink Movements. <i>Advanced Functional Materials</i> , 2017 , 27, 1700367	15.6	24
499	The noise of many needles: Jerky domain wall propagation in PbZrO ₃ and LaAlO ₃ . <i>APL Materials</i> , 2017 , 5, 046102	5.7	21
498	Twinning in NiFeCo shape memory alloy: Temperature scaling beyond the Seeger model. <i>Scripta Materialia</i> , 2017 , 134, 24-27	5.6	8
497	Large recovery of six-fold twinned nanowires of Fe. <i>Acta Materialia</i> , 2017 , 125, 296-302	8.4	7
496	Analysis of crackling noise using the maximum-likelihood method: Power-law mixing and exponential damping. <i>Physical Review E</i> , 2017 , 96, 042122	2.4	41
495	Predicting mining collapse: Superjerks and the appearance of record-breaking events in coal as collapse precursors. <i>Physical Review E</i> , 2017 , 96, 023004	2.4	29
494	Imaging and tuning polarity at SrTiO ₃ domain walls. <i>Nature Materials</i> , 2017 , 16, 1203-1208	27	52
493	Ferroelectricity in the metal-organic ferroelectric tris-sarcosine calcium chloride. <i>Physical Review B</i> , 2017 , 95,	3.3	6
492	Re-entrant spin glass transitions: new insights from acoustic absorption by domain walls. <i>Scientific Reports</i> , 2017 , 7, 16846	4.9	6
491	Towards a Quantitative Analysis of Crackling Noise by Strain Drop Measurements. <i>Understanding Complex Systems</i> , 2017 , 59-76	0.4	
490	Ferroelastic Domain Collapse and Acoustic Emission: Non-equilibrium Behaviour of Multiferroic Materials. <i>Understanding Complex Systems</i> , 2017 , 137-156	0.4	3
489	Control of surface potential at polar domain walls in a nonpolar oxide. <i>Physical Review Materials</i> , 2017 , 1,	3.2	16
488	Avalanches and the Propagation and Retraction of Ferroelastic Needle Domains. <i>Understanding Complex Systems</i> , 2017 , 157-165	0.4	1
487	Direct Observation of Ferroelectric Domain Walls in LiNbO ₃ : Wall-Meanders, Kinks, and Local Electric Charges. <i>Advanced Functional Materials</i> , 2016 , 26, 7599-7604	15.6	53
486	Avalanche criticalities and elastic and calorimetric anomalies of the transition from cubic Cu-Al-Ni to a mixture of 18R and 2H structures. <i>Physical Review B</i> , 2016 , 94,	3.3	22
485	Functional Twin Boundaries: Multiferroicity in Confined Spaces 2016 , 765-788		

484	Avalanche criticality during compression of porcine cortical bone of different ages. <i>Physical Review E</i> , 2016 , 93, 053001	2.4	20
483	Direct observation of polar tweed in LaAlO ₃ . <i>Scientific Reports</i> , 2016 , 6, 27193	4.9	38
482	Robust templates for domain boundary engineering in ErMnO ₃ . <i>New Journal of Physics</i> , 2016 , 18, 051001	1.9	8
481	Interface Driven Pseudo-Elasticity in a-Fe Nanowires. <i>Advanced Functional Materials</i> , 2016 , 26, 760-767	15.6	16
480	Influence of defects and domain walls on dielectric and mechanical resonances in LiNbO ₃ . <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 015901	1.8	14
479	Breakdown of Shape Memory Effect in Bent Cu-Al-Ni Nanopillars: When Twin Boundaries Become Stacking Faults. <i>Nano Letters</i> , 2016 , 16, 194-8	11.5	7
478	Functional Topologies in (Multi-) Ferroics: The Ferroelastic Template. <i>Springer Series in Materials Science</i> , 2016 , 83-101	0.9	3
477	Ferroelastic shear bands in Pb ₃ (PO ₄) ₂ . <i>Applied Physics Letters</i> , 2016 , 108, 022901	3.4	6
476	Ferroelastic Domain Boundary-Based Multiferroicity. <i>Crystals</i> , 2016 , 6, 163	2.3	6
475	Flexoelectricity, incommensurate phases and the Lifshitz point. <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 075902	1.8	16
474	Parabolic temporal profiles of non-spanning avalanches and their importance for ferroic switching. <i>Applied Physics Letters</i> , 2016 , 108, 072904	3.4	15
473	Collapsing minerals: Crackling noise of sandstone and coal, and the predictability of mining accidents. <i>American Mineralogist</i> , 2016 , 101, 2751-2758	2.9	30
472	First-principles reinvestigation of bulk WO ₃ . <i>Physical Review B</i> , 2016 , 94,	3.3	39
471	Metastable phase transformation and hcp- β transformation pathways in Ti and Zr under high hydrostatic pressures. <i>Applied Physics Letters</i> , 2016 , 109, 031912	3.4	13
470	Fracking and labquakes. <i>Philosophical Magazine</i> , 2016 , 96, 3686-3696	1.6	15
469	Flexoelectricity and the polarity of complex ferroelastic twin patterns. <i>Physical Review B</i> , 2016 , 94,	3.3	52
468	Tweed, twins, and holes. <i>American Mineralogist</i> , 2015 , 100, 343-351	2.9	19
467	Acoustic emission during the ferroelectric transition Pm $\bar{3}m$ to P4mm in BaTiO ₃ and the ferroelastic transition R $\bar{3}m-C2/c$ in Pb ₃ (PO ₄) ₂ . <i>Applied Physics Letters</i> , 2015 , 106, 152903	3.4	25

466	Modulated minerals as potential ferroic materials. <i>Journal of Physics Condensed Matter</i> , 2015 , 27, 305901.	1.8	2
465	Polar twin boundaries and nonconventional ferroelectric switching. <i>Applied Physics Letters</i> , 2015 , 106, 212907	3.4	18
464	Domain glasses: Twin planes, Bloch lines, and Bloch points. <i>Physica Status Solidi (B): Basic Research</i> , 2015 , 252, 2639-2648	1.3	20
463	Avalanches in compressed Ti-Ni shape-memory porous alloys: An acoustic emission study. <i>Physical Review E</i> , 2015 , 91, 060401	2.4	31
462	The exploration of the effect of microstructure on crackling noise systems. <i>Applied Physics Letters</i> , 2015 , 107, 071902	3.4	23
461	Polar domain walls trigger magnetoelectric coupling. <i>Scientific Reports</i> , 2015 , 5, 13784	4.9	23
460	Friction in ferroelastic and martensitic materials. <i>Journal of Physics: Conference Series</i> , 2015 , 602, 012018.	0.3	1
459	Elastic softening of leucite and the lack of polar domain boundaries. <i>American Mineralogist</i> , 2015 , 100, 2159-2162	2.9	5
458	Effect of pores and grain size on the elastic and piezoelectric properties of quartz-based materials. <i>American Mineralogist</i> , 2015 , 100, 1165-1171	2.9	9
457	Heat transport by phonons and the generation of heat by fast phonon processes in ferroelastic materials. <i>AIP Advances</i> , 2015 , 5, 053604	1.5	8
456	Evidence of presence of tweed in PbSc _{0.5} Ta _{0.5} O ₃ crystals based on acoustic emission frequency spectrum analysis. <i>Europhysics Letters</i> , 2015 , 111, 47001	1.6	
455	Strain-controlled thermal conductivity in ferroic twinned films. <i>Scientific Reports</i> , 2014 , 4, 6375	4.9	28
454	Direct evidence of polar nature of ferroelastic twin boundaries in CaTiO ₃ obtained by second harmonic generation microscope. <i>Physical Review B</i> , 2014 , 89,	3.3	62
453	Domain boundary-dominated systems: adaptive structures and functional twin boundaries. <i>Advances in Physics</i> , 2014 , 63, 267-326	18.4	85
452	Crackling Noise in Disordered Materials. <i>Annual Review of Condensed Matter Physics</i> , 2014 , 5, 233-254	19.7	141
451	Twin boundary profiles with linear-quadratic coupling between order parameters. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 342201	1.8	10
450	Predicting failure: acoustic emission of berlinite under compression. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 275401	1.8	35
449	Ferroelectric Bloch-line switching: A paradigm for memory devices?. <i>Applied Physics Letters</i> , 2014 , 105, 252904	3.4	37

448	Functional twin boundaries and tweed microstructures: a comparison between minerals and device materials. <i>Mineralogical Magazine</i> , 2014 , 78, 1725-1741	1.7	
447	Ferroelectric precursor behavior of highly cation-ordered PbSc _{0.5} Ta _{0.5} O ₃ detected by acoustic emission: Tweed and polar nanoregions. <i>Applied Physics Letters</i> , 2014 , 105, 212901	3.4	21
446	Thermal avalanches near a Mott transition. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 035701	1.8	3
445	Simulating acoustic emission: The noise of collapsing domains. <i>Physical Review B</i> , 2014 , 90,	3.3	36
444	Flicker vortex structures in multiferroic materials. <i>Applied Physics Letters</i> , 2014 , 105, 112906	3.4	18
443	Strain rate dependence of twinning avalanches at high speed impact. <i>Applied Physics Letters</i> , 2014 , 104, 162906	3.4	20
442	Highly mobile vortex structures inside polar twin boundaries in SrTiO ₃ . <i>Applied Physics Letters</i> , 2014 , 104, 082907	3.4	34
441	Polar correlations and defect-induced ferroelectricity in cryogenic KTaO ₃ . <i>Physical Review B</i> , 2014 , 90,	3.3	27
440	Avalanches in compressed porous SiO ₂ -based materials. <i>Physical Review E</i> , 2014 , 90, 022405	2.4	64
439	Domain glass. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 2061-2066	1.3	30
438	Avalanche correlations in the martensitic transition of a Cu-Zn-Al shape memory alloy: analysis of acoustic emission and calorimetry. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 125401	1.8	29
437	Thermal and athermal crackling noise in ferroelastic nanostructures. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 142201	1.8	19
436	Functional Twin Boundaries: Steps Towards Domain Boundary Engineering. <i>Springer Series in Materials Science</i> , 2014 , 201-223	0.9	
435	Mechanical spectroscopy in twinned minerals: Simulation of resonance patterns at high frequencies. <i>American Mineralogist</i> , 2013 , 98, 1449-1458	2.9	15
434	Twinning in Strained Ferroelastics: Microstructure and Statistics. <i>Jom</i> , 2013 , 65, 401-407	2.1	7
433	Polar precursor ordering in BaTiO ₃ detected by resonant piezoelectric spectroscopy. <i>Applied Physics Letters</i> , 2013 , 103, 142902	3.4	45
432	Multidomains made of different structural phases in multiferroic BiFeO ₃ : A first-principles-based study. <i>Physical Review B</i> , 2013 , 88,	3.3	21
431	Ferroelectric precursor behavior in PbSc _{0.5} Ta _{0.5} O ₃ detected by field-induced resonant piezoelectric spectroscopy. <i>Physical Review B</i> , 2013 , 88,	3.3	39

430	Domains within domains and walls within walls: evidence for polar domains in cryogenic SrTiO ₃ . <i>Physical Review Letters</i> , 2013 , 111, 247603	7.4	120
429	Elastic excitations in BaTiO ₃ single crystals and ceramics: Mobile domain boundaries and polar nanoregions observed by resonant ultrasonic spectroscopy. <i>Physical Review B</i> , 2013 , 87,	3.3	55
428	Interfaces in metamict titanite: the macroscopic mechanical properties after stepwise annealing. <i>Phase Transitions</i> , 2013 , 86, 23-32	1.3	
427	Dedicated TEM on domain boundaries from phase transformations and crystal growth. <i>Phase Transitions</i> , 2013 , 86, 15-22	1.3	1
426	Domain boundary engineering [Recent progress and many open questions. <i>Phase Transitions</i> , 2013 , 86, 2-14	1.3	9
425	Statistical similarity between the compression of a porous material and earthquakes. <i>Physical Review Letters</i> , 2013 , 110, 088702	7.4	180
424	Functional twin boundaries. <i>Phase Transitions</i> , 2013 , 86, 1052-1059	1.3	7
423	Dynamically strained ferroelastics: Statistical behavior in elastic and plastic regimes. <i>Physical Review B</i> , 2013 , 87,	3.3	37
422	Noise and finite size effects in multiferroics with strong elastic interactions. <i>Applied Physics Letters</i> , 2013 , 102, 152909	3.4	13
421	Intermediate structures in radiation damaged titanite (CaTiSiO ₅): a Raman spectroscopic study. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 115402	1.8	14
420	Calorimetric Study of Avalanche Criticality in the Martensitic Phase Transition of Cu _{67.64} Zn _{16.71} Al _{15.65} . <i>Materials Science Forum</i> , 2013 , 738-739, 46-50	0.4	
419	Noise of collapsing minerals: Predictability of the compressional failure in goethite mines. <i>American Mineralogist</i> , 2013 , 98, 609-615	2.9	46
418	Crackling noise during failure of alumina under compression: the effect of porosity. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 292202	1.8	36
417	Guest editors[Note. <i>Phase Transitions</i> , 2013 , 86, 1051-1051	1.3	
416	Mechanical loss in multiferroic materials at high frequencies: friction and the evolution of ferroelastic microstructures. <i>Advanced Materials</i> , 2013 , 25, 3244-8	2.4	21
415	Resonant ultrasonic spectroscopy and resonant piezoelectric spectroscopy in ferroelastic lead phosphate, Pb ₃ (PO ₄) ₂ . <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 465401	1.8	13
414	Direct observation of ferrielectricity at ferroelastic domain boundaries in CaTiO ₃ by electron microscopy. <i>Advanced Materials</i> , 2012 , 24, 523-7	2.4	200
413	Experimental and theoretical study of the vibrational properties of diasporite (AlOOH). <i>Physics and Chemistry of Minerals</i> , 2012 , 39, 93-102	1.6	14

412	Nucleation, growth, and control of ferroelectric-ferroelastic domains in thin polycrystalline films. <i>Physical Review B</i> , 2012 , 86,	3.3	28
411	Magnetoelastic coupling and multiferroic ferroelastic/magnetic phase transitions in the perovskite KMnF ₃ . <i>Physical Review B</i> , 2012 , 85,	3.3	48
410	Local Symmetry Breaking in the Bulk and in Domain Boundaries: Breit-Wigner Damping of Phonons and Acoustic Resonances. <i>Ferroelectrics</i> , 2012 , 433, 111-122	0.6	1
409	Domain wall damping and elastic softening in SrTiO ₃ : evidence for polar twin walls. <i>Physical Review Letters</i> , 2012 , 109, 187601	7.4	101
408	Domain Boundary Engineering in Ferroic and Multiferroic Materials: A Simple Introduction. <i>Springer Series in Materials Science</i> , 2012 , 1-18	0.9	3
407	Ferroelastic Materials. <i>Annual Review of Materials Research</i> , 2012 , 42, 265-283	12.8	227
406	Order-parameter coupling in the improper ferroelectric lawsonite. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 255901	1.8	4
405	High junction and twin boundary densities in driven dynamical systems. <i>Advanced Materials</i> , 2012 , 24, 5385-9	24	42
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