Ekhard K H Salje

List of Publications by Year
in descending order

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583 papers	21,665 citations	10351 72 h-index	22102 113 g-index
599 all docs	599 docs citations	599 times ranked	10099 citing authors

#	Article	IF	Citations
1	Static and dynamic strain relaxation associated with the paraelectric-antiferroelectric phase transition in PbZrO3. Journal of Alloys and Compounds, 2022, 898, 162804.	2.8	4
2	Multiple Avalanche Processes in Acoustic Emission Spectroscopy: Multibranching of the Energyâ^'Amplitude Scaling. Physica Status Solidi (B): Basic Research, 2022, 259, 2100465.	0.7	11
3	Probing the dynamic response of ferroelectric and ferroelastic materials by simultaneous detection of elastic and piezoelectric properties. Journal of Alloys and Compounds, 2022, 903, 163857.	2.8	4
4	Internal friction in complex ferroelastic twin patterns. Acta Materialia, 2022, 228, 117787.	3.8	11
5	Symmetry and strain analysis of combined electronic and structural instabilities in tungsten trioxide, WO3. Journal of Applied Physics, 2022, 131, .	1.1	4
6	Depolarization of ferroelectric materials measured by their piezoelectric and elastic response. Journal of Alloys and Compounds, 2022, 918, 165783.	2.8	1
7	Avalanche criticality during ferroelectric/ferroelastic switching. Nature Communications, 2021, 12, 345.	5.8	31
8	Tip-induced flexoelectricity, polar vortices, and magnetic moments in ferroelastic materials. Journal of Applied Physics, 2021, 129, .	1.1	6
9	The duration-energy-size enigma for acoustic emission. Scientific Reports, 2021, 11, 5590.	1.6	26
10	Crackling noise and bio-cementation. Engineering Fracture Mechanics, 2021, 247, 107675.	2.0	16
11	Ferroelastic Twinning in Minerals: A Source of Trace Elements, Conductivity, and Unexpected Piezoelectricity. Minerals (Basel, Switzerland), 2021, 11, 478.	0.8	7
12	Crackling noise and avalanches in minerals. Physics and Chemistry of Minerals, 2021, 48, 1.	0.3	14
13	Twisting of a Pristine Î±-Fe Nanowire: From Wild Dislocation Avalanches to Mild Local Amorphization. Nanomaterials, 2021, 11, 1602.	1.9	5
14	Cracking of human teeth: An avalanche and acoustic emission study. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 122, 104666.	1.5	7
15	Acoustic Emission Spectroscopy: Applications in Geomaterials and Related Materials. Applied Sciences (Switzerland), 2021, 11, 8801.	1.3	9
16	Real-time monitoring dislocations, martensitic transformations and detwinning in stainless steel: Statistical analysis and machine learning. Journal of Materials Science and Technology, 2021, 92, 31-39.	5.6	16
17	Mild and wild ferroelectrics and their potential role in neuromorphic computation. APL Materials, 2021, 9, .	2.2	19
18	Energy exponents of avalanches and Hausdorff dimensions of collapse patterns. Physical Review E, 2021, 104, 054138.	0.8	8

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19	Porosity in minerals. AIMS Materials Science, 2021, 9, 1-8.	0.7	1
20	Piezoelectricity in nominally centrosymmetric phases. Physical Review Research, 2021, 3, .	1.3	19
21	Mild fluctuations in ferroelastic domain switching. Physical Review B, 2021, 104, .	1.1	7
22	Avalanches from charged domain wall motion in BaTiO₃ during ferroelectric switching. APL Materials, 2020, 8, 011105.	2.2	31
23	Domain Dynamics in Quantum-Paraelectric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SrTiO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub Physical Review Letters, 2020, 124, 016801.	2.9	24
24	Domain wall generated polarity in ferroelastics: Results from resonance piezoelectric spectroscopy, piezoelectric force microscopy, and optical second harmonic generation measurements in LaAlO3 with twin and tweed microstructures. Physical Review B, 2020, 102, .	1.1	11
25	xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Ti</mml:mi><mml:mn>50</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">Pd</mml:mi><mml:mrow><mml:mn>50</mml:mn><mml:mo>â^'</mml:mo><mml:mi>x</mml:mi></mml:mrow mathvariant="normal">Cr</mml:mi><mml:mi>x</mml:mi></mml:msub></mml:mrow></mml:math> martensites. Physical Review B, 2020, 102, .	1.1	3
26	Anisotropic avalanche dynamics during ferroelectric switching in BaTiO3 and 0.7Pb(Mg2/3Nb1/3)O3â€“0.3PbTiO3. Applied Physics Letters, 2020, 117, .	1.5	7
27	Current vortices and magnetic fields driven by moving polar twin boundaries in ferroelastic materials. Npj Computational Materials, 2020, 6, .	3.5	11
28	Domain-wall engineering and topological defects in ferroelectric and ferroelastic materials. Nature Reviews Physics, 2020, 2, 634-648.	11.9	154
29	Ferroelastic domain walls as templates for multiferroic devices. Journal of Applied Physics, 2020, 128, 164104.	1.1	14
30	Direct evidence of polar ferroelastic domain boundaries in semiconductor BiVO4. Applied Physics Letters, 2020, 116, .	1.5	14
31	Twisting of pre-twinned Î±-Fe nanowires: from mild to wild avalanche dynamics. Acta Materialia, 2020, 195, 50-58.	3.8	19
32	Polaronic States and Superconductivity in WO3-x. Condensed Matter, 2020, 5, 32.	0.8	9
33	Statistical analysis of emission, interaction and annihilation of phonons by kink motion in ferroelastic materials. Applied Physics Letters, 2020, 116, 102902.	1.5	10
34	Avalanches and mixing behavior of porous 316L stainless steel under tension. Applied Physics Letters, 2020, 116, 111901.	1.5	9
35	Enhancement of polar nature of domain boundaries in ferroelastic Pb₃(PO₄)₂ by doping divalent-metal ions. Journal of Physics Condensed Matter, 2020, 32, 345401.	0.7	7
36	Fine structures of acoustic emission spectra: How to separate dislocation movements and entanglements in 316L stainless steel. Applied Physics Letters, 2020, 117, .	1.5	16

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37	Avalanches in ferroelectric, ferroelastic and coelastic materials: phase transition, domain switching and propagation. Ferroelectrics, 2020, 569, 82-107.	0.3	17
38	Enhanced piezoelectricity in twinned ferroelastics with nanocavities. Physical Review Materials, 2020, 4, .	0.9	10
39	First-principles characterization of single-electron polaron in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WO</mml:mi><mml:mn>3</mml:mn></mml:msub></m Physical Review Research, 2020, 2, .	1.3	15
40	Nano-indentation and avalanches in compressed porous SiO2. Applied Physics Letters, 2019, 115, 071902.	1.5	5
41	Periodicity-Doubling Cascades: Direct Observation in Ferroelastic Materials. Physical Review Letters, 2019, 123, 087603.	2.9	32
42	Avalanche dynamics of ferroelectric phase transitions in BaTiO3 and 0.7Pb(Mg2â•3Nb1â•3)O3-0.3PbTiO3 single crystals. Applied Physics Letters, 2019, 115, .	1.5	9
43	Scale-invariant avalanche dynamics in the temperature-driven martensitic transition of a Cu-Al-Be single crystal. Physical Review B, 2019, 99, .	1.1	12
44	The interaction between vacancies and twin walls, junctions, and kinks, and their mechanical properties in ferroelastic materials. Acta Materialia, 2019, 178, 26-35.	3.8	23
45	Polar nature of domain boundaries in purely ferroelastic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">P</mml:mi><mml:msub><mml:mi mathvariant="normal">b</mml:mi><mml:mn>3</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mrow>	1.1	20
46	Correlations between elastic, calorimetric, and polar properties of ferroelectric PbSc0.5Ta0.5O3 (PST). Applied Physics Letters, 2019, 115, .	1.5	5
47	Ferroelectric switching in ferroelastic materials with rough surfaces. Scientific Reports, 2019, 9, 15834.	1.6	20
48	Change of crackling noise in granite by thermal damage: Monitoring nuclear waste deposits. American Mineralogist, 2019, 104, 1578-1584.	0.9	15
49	Piezoelectricity and electrostriction in ferroelastic materials with polar twin boundaries and domain junctions. Applied Physics Letters, 2019, 114, .	1.5	21
50	Rotatable precipitates change the scale-free to scale dependent statistics in compressed Ti nano-pillars. Scientific Reports, 2019, 9, 3778.	1.6	13
51	Temperature Chaos, Memory Effect, and Domain Fluctuations in the Spiral Antiferromagnet Dy. Scientific Reports, 2019, 9, 5076.	1.6	5
52	Acoustic Emission from Porous Collapse and Moving Dislocations in Granular Mg-Ho Alloys under Compression and Tension. Scientific Reports, 2019, 9, 1330.	1.6	29
53	Avalanche mixing and the simultaneous collapse of two media under uniaxial stress. Physical Review E, 2019, 99, 023002.	0.8	10
54	Avalanches in Compressed Sandstone: Crackling Noise under Confinement. Crystals, 2019, 9, 582.	1.0	10

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55	Avalanches during recrystallization in radiation-damaged pyrochlore and allanite: Statistical similarity to phase transitions in functional materials. Applied Physics Letters, 2019, 115, .	1.5	5
56	Annealing of metamict gadolinite-(Y): X-ray diffraction, Raman, IR, and MÃ¶ssbauer spectroscopy. Zeitschrift Fur Kristallographie - Crystalline Materials, 2019, 234, 587-593.	0.4	3
57	Ferroelectric switching and scale invariant avalanches in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BaTi</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>. Physical Review Materials, 2019, 3, .	0.9	52
58	Electrical studies of Barkhausen switching noise in ferroelectric PZT: Critical exponents and temperature dependence. Physical Review Materials, 2019, 3, .	0.9	21
59	Interaction of low-energy electrons with surface polarity near ferroelastic domain boundaries. Physical Review Materials, 2019, 3, .	0.9	11
60	Electrically driven ferroelastic domain walls, domain wall interactions, and moving needle domains. Physical Review Materials, 2019, 3, .	0.9	21
61	Electric-field-induced avalanches and glassiness of mobile ferroelastic twin domains in cryogenic SrTiO3. Physical Review Research, 2019, 1, .	1.3	16
62	LaAlO3: A substrate material with unusual ferroelastic properties. Applied Physics Letters, 2018, 112, 042902.	1.5	17
63	Locally preservedÎ±â€‰â€‰â†’â€‰â€‰Î²phase transition in natural radiation-damaged titanite (CaTiSiO₅): evidence from laser-induced photoluminescence and dielectric measurements. Journal of Physics Condensed Matter, 2018, 30, 035403.	0.7	3
64	Glassy behavior and dynamic tweed in defect-free multiferroics. Applied Physics Letters, 2018, 112, .	1.5	10
65	Immobile defects in ferroelastic walls: Wall nucleation at defect sites. Applied Physics Letters, 2018, 112, .	1.5	8
66	Macroscopic symmetry breaking and piezoelectricity in relaxor ferroelectric lead magnesium niobate. Applied Physics Letters, 2018, 113, .	1.5	12
67	Glasslike Dynamics of Polar Domain Walls in Cryogenic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>SrTiO</mml:mi></mml:mrow><mml:mn>3</mml:mn></mml:msub> Physical Review Letters, 2018, 121, 235701.	2.9	22
68	Symmetry and three-dimensional anisotropy of polar domain boundaries observed in ferroelastic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>LaAl</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math> in the complete absence of ferroelectric instability. Physical Review B, 2018, 98, .	1.1	28
69	Surface Proximity Effect, Imprint Memory of Ferroelectric Twins, and Tweed in the Paraelectric Phase of BaTiO3. Scientific Reports, 2018, 8, 13660.	1.6	17
70	Intermittent flow under constant forcing: Acoustic emission from creep avalanches. Applied Physics Letters, 2018, 112, .	1.5	25
71	Radiation-damage-induced transitions in zircon: Percolation theory applied to hardness and elastic moduli as a function of density. Applied Physics Letters, 2018, 112, .	1.5	9
72	Evidence for a surface anomaly during the cubic-tetragonal phase transition in BaTiO3(001). Applied Physics Letters, 2018, 113, 022901.	1.5	12

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73	Polarity of modulated Na0.5Bi0.5TiO3 and its slow structural relaxation. Applied Physics Letters, 2018, 113, .	1.5	10
74	Experimental Evidence of Accelerated Seismic Release without Critical Failure in Acoustic Emissions of Compressed Nanoporous Materials. Physical Review Letters, 2018, 120, 245501.	2.9	34
75	Quantification by aberration corrected (S)TEM of boundaries formed by symmetry breaking phase transformations. Ultramicroscopy, 2017, 176, 194-199.	0.8	2
76	Strain intermittency due to avalanches in ferroelastic and porous materials. Journal of Physics Condensed Matter, 2017, 29, 224002.	0.7	10
77	Ultrafast Switching in Avalancheâ€Driven Ferroelectrics by Supersonic Kink Movements. Advanced Functional Materials, 2017, 27, 1700367.	7.8	32
78	The noise of many needles: Jerky domain wall propagation in PbZrO3 and LaAlO3. APL Materials, 2017, 5, .	2.2	28
79	Twinning in Niâ€“Feâ€“Gaâ€“Co shape memory alloy: Temperature scaling beyond the Seeger model. Scripta Materialia, 2017, 134, 24-27.	2.6	8
80	Large recovery of six-fold twinned nanowires of Î±-Fe. Acta Materialia, 2017, 125, 296-302.	3.8	13
81	Analysis of crackling noise using the maximum-likelihood method: Power-law mixing and exponential damping. Physical Review E, 2017, 96, 042122.	0.8	56
82	Predicting mining collapse: Superjerks and the appearance of record-breaking events in coal as collapse precursors. Physical Review E, 2017, 96, 023004.	0.8	38
83	Imaging and tuning polarity at SrTiO3 domainÂwalls. Nature Materials, 2017, 16, 1203-1208.	13.3	68
84	Ferrielectricity in the metal-organic ferroelectric tris-sarcosine calcium chloride. Physical Review B, 2017, 95, .	1.1	9
85	Re-entrant spin glass transitions: new insights from acoustic absorption by domain walls. Scientific Reports, 2017, 7, 16846.	1.6	8
86	Towards a Quantitative Analysis of Crackling Noise by Strain Drop Measurements. Understanding Complex Systems, 2017, , 59-76.	0.3	1
87	Ferroelastic Domain Collapse and Acoustic Emission: Non-equilibrium Behaviour of Multiferroic Materials. Understanding Complex Systems, 2017, , 137-156.	0.3	3
88	Control of surface potential at polar domain walls in a nonpolar oxide. Physical Review Materials, 2017, 1, .	0.9	20
89	Ferroelastic shear bands in Pb3(PO4)2. Applied Physics Letters, 2016, 108, .	1.5	9
90	Ferroelastic Domain Boundary-Based Multiferroicity. Crystals, 2016, 6, 163.	1.0	8

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91	Flexoelectricity, incommensurate phases and the Lifshitz point. Journal of Physics Condensed Matter, 2016, 28, 075902.	0.7	21
92	Parabolic temporal profiles of non-spanning avalanches and their importance for ferroic switching. Applied Physics Letters, 2016, 108, .	1.5	16
93	Collapsing minerals: Crackling noise of sandstone and coal, and the predictability of mining accidents. American Mineralogist, 2016, 101, 2751-2758.	0.9	44
94	First-principles reinvestigation of bulk <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>WO</mml:mi><mml:mn>3</mml:mn></mml:msub></mm Physical Review B, 2016, 94, .	1.1	46
95	Metastable phase transformation and hcp- Ï‰ transformation pathways in Ti and Zr under high hydrostatic pressures. Applied Physics Letters, 2016, 109, .	1.5	16
96	Fracking and labquakes. Philosophical Magazine, 2016, 96, 3686-3696.	0.7	15
97	Flexoelectricity and the polarity of complex ferroelastic twin patterns. Physical Review B, 2016, 94, .	1.1	62
98	Direct Observation of Ferroelectric Domain Walls in LiNbO₃: Wallâ€Meanders, Kinks, and Local Electric Charges. Advanced Functional Materials, 2016, 26, 7599-7604.	7.8	72
99	Avalanche criticalities and elastic and calorimetric anomalies of the transition from cubic Cu-Al-Ni to a mixture of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>18</mml:mn><mml:mi>R</mml:mi></mml:mrow></mml xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>2</mml:mn><mml:mi>H</mml:mi></mml:mrow></mml Physical Review B, 2016, 94, .	1.1	24
100	Avalanche criticality during compression of porcine cortical bone of different ages. Physical Review E, 2016, 93, 053001.	0.8	22
101	Direct observation of polar tweed in LaAlO3. Scientific Reports, 2016, 6, 27193.	1.6	45
102	Robust templates for domain boundary engineering in ErMnO3. New Journal of Physics, 2016, 18, 051001.	1.2	10
103	Interface Driven Pseudoâ€Elasticity in aâ€Fe Nanowires. Advanced Functional Materials, 2016, 26, 760-767.	7.8	23
104	Influence of defects and domain walls on dielectric and mechanical resonances in LiNbO₃. Journal of Physics Condensed Matter, 2016, 28, 015901.	0.7	18
105	Breakdown of Shape Memory Effect in Bent Cuâ€“Alâ€“Ni Nanopillars: When Twin Boundaries Become Stacking Faults. Nano Letters, 2016, 16, 194-198.	4.5	11
106	Functional Topologies in (Multi-) Ferroics: The Ferroelastic Template. Springer Series in Materials Science, 2016, , 83-101.	0.4	3
107	Domain glasses: Twin planes, Bloch lines, and Bloch points. Physica Status Solidi (B): Basic Research, 2015, 252, 2639-2648.	0.7	23
108	Avalanches in compressed Ti-Ni shape-memory porous alloys: An acoustic emission study. Physical Review E, 2015, 91, 060401.	0.8	39

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109	The exploration of the effect of microstructure on crackling noise systems. Applied Physics Letters, 2015, 107, .	1.5	24
110	Polar domain walls trigger magnetoelectric coupling. Scientific Reports, 2015, 5, 13784.	1.6	27
111	Friction in ferroelastic and martensitic materials. Journal of Physics: Conference Series, 2015, 602, 012018.	0.3	1
112	Elastic softening of leucite and the lack of polar domain boundaries. American Mineralogist, 2015, 100, 2159-2162.	0.9	5
113	Effect of pores and grain size on the elastic and piezoelectric properties of quartz-based materials. American Mineralogist, 2015, 100, 1165-1171.	0.9	13
114	Heat transport by phonons and the generation of heat by fast phonon processes in ferroelastic materials. AIP Advances, 2015, 5, .	0.6	12
115	Evidence of presence of tweed in PbSc _{0.5} Ta _{0.5} O ₃ crystals based on acoustic emission frequency spectrum analysis. Europhysics Letters, 2015, 111, 47001.	0.7	1
116	Tweed, twins, and holes. American Mineralogist, 2015, 100, 343-351.	0.9	22
117	Acoustic emission during the ferroelectric transition Pm3Â¯m to P4mm in BaTiO3 and the ferroelastic transition R3Â¯m-C2/c in Pb3(PO4)2. Applied Physics Letters, 2015, 106, .	1.5	27
118	Modulated minerals as potential ferroic materials. Journal of Physics Condensed Matter, 2015, 27, 305901.	0.7	3
119	Polar twin boundaries and nonconventional ferroelectric switching. Applied Physics Letters, 2015, 106, .	1.5	20
120	Ferroelectric Bloch-line switching: A paradigm for memory devices?. Applied Physics Letters, 2014, 105, .	1.5	43
121	Functional twin boundaries and tweed microstructures: a comparison between minerals and device materials. Mineralogical Magazine, 2014, 78, 1725-1741.	0.6	1
122	Ferroelectric precursor behavior of highly cation-ordered PbSc0.5Ta0.5O3 detected by acoustic emission: Tweed and polar nanoregions. Applied Physics Letters, 2014, 105, 212901.	1.5	22
123	Thermal avalanches near a Mott transition. Journal of Physics Condensed Matter, 2014, 26, 035701.	0.7	5
124	Simulating acoustic emission: The noise of collapsing domains. Physical Review B, 2014, 90, .	1.1	42
125	Flicker vortex structures in multiferroic materials. Applied Physics Letters, 2014, 105, .	1.5	21
126	Strain rate dependence of twinning avalanches at high speed impact. Applied Physics Letters, 2014, 104, .	1.5	23

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127	Highly mobile vortex structures inside polar twin boundaries in SrTiO₃. Applied Physics Letters, 2014, 104, 082907.	1.5	39
128	Polar correlations and defect-induced ferroelectricity in cryogenic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">KTaO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 90, .	1.1	33
129	Publisher's Note: Avalanches in compressed porousSiO2-based materials [Phys. Rev. E90, 022405 (2014)]. Physical Review E, 2014, 90, .	0.8	1
130	Avalanches in compressed porous<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi mathvariant="normal">Si</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>-based materials. Physical Review E, 2014, 90, 022405.	0.8	76
131	Domain glass. Physica Status Solidi (B): Basic Research, 2014, 251, 2061-2066.	0.7	34
132	Avalanche correlations in the martensitic transition of a Cuâ€“Znâ€“Al shape memory alloy: analysis of acoustic emission and calorimetry. Journal of Physics Condensed Matter, 2014, 26, 125401.	0.7	31
133	Thermal and athermal crackling noise in ferroelastic nanostructures. Journal of Physics Condensed Matter, 2014, 26, 142201.	0.7	22
134	Direct evidence of polar nature of ferroelastic twin boundaries in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>CaTiO</mml:mi></mml:mrow><mml:mn>3</mml:mn> by second harmonic generation microscope. Physical Review B, 2014, 89, .	1.1	75
135	Domain boundary-dominated systems: adaptive structures and functional twin boundaries. Advances in Physics, 2014, 63, 267-326.	35.9	100
136	Crackling Noise in Disordered Materials. Annual Review of Condensed Matter Physics, 2014, 5, 233-254.	5.2	181
137	Twin boundary profiles with linear-quadratic coupling between order parameters. Journal of Physics Condensed Matter, 2014, 26, 342201.	0.7	13
138	Predicting failure: acoustic emission of berlinite under compression. Journal of Physics Condensed Matter, 2014, 26, 275401.	0.7	44
139	Strain-controlled thermal conductivity in ferroic twinned films. Scientific Reports, 2014, 4, 6375.	1.6	39
140	Functional Twin Boundaries: Steps Towards Domain Boundary Engineering. Springer Series in Materials Science, 2014, , 201-223.	0.4	1
141	Mechanical spectroscopy in twinned minerals: Simulation of resonance patterns at high frequencies. American Mineralogist, 2013, 98, 1449-1458.	0.9	16
142	Twinning in Strained Ferroelastics: Microstructure and Statistics. Jom, 2013, 65, 401-407.	0.9	9
143	Polar precursor ordering in BaTiO3 detected by resonant piezoelectric spectroscopy. Applied Physics Letters, 2013, 103, 142902.	1.5	49
144	Multidomains made of different structural phases in multiferroic BiFeO3: A first-principles-based study. Physical Review B, 2013, 88, .	1.1	21

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145	...electric precursor behavior in PbSc<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>Ta<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mrow><mml:mn>0.5</mml:mn></mml:mrow></mml:msub></mml:math>O<mml:math ...	1.1	45
146	Domains within Domains and Walls within Walls: Evidence for Polar Domains in Cryogenic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>SrTiO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2013, 111, 247603.	2.9	145
147	Elastic excitations in BaTiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>single crystals and ceramics: Mobile domain boundaries and polar nanoregions observed by resonant ultrasonic spectroscopy. Physical Review B, 2013, 87, .	1.1	63
148	Interfaces in metamict titanite: the macroscopic mechanical properties after stepwise annealing. Phase Transitions, 2013, 86, 23-32.	0.6	1
149	Dedicated TEM on domain boundaries from phase transformations and crystal growth. Phase Transitions, 2013, 86, 15-22.	0.6	1
150	Domain boundary engineering â€“ recent progress and many open questions. Phase Transitions, 2013, 86, 2-14.	0.6	9
151	Statistical Similarity between the Compression of a Porous Material and Earthquakes. Physical Review Letters, 2013, 110, 088702.	2.9	213
152	Functional twin boundaries. Phase Transitions, 2013, 86, 1052-1059.	0.6	7
153	Dynamically strained ferroelastics: Statistical behavior in elastic and plastic regimes. Physical Review B, 2013, 87, .	1.1	40
154	Noise and finite size effects in multiferroics with strong elastic interactions. Applied Physics Letters, 2013, 102, .	1.5	13
155	Intermediate structures in radiation damaged titanite (CaTiSiO₅): a Raman spectroscopic study. Journal of Physics Condensed Matter, 2013, 25, 115402.	0.7	22
156	Guest editorsâ€™ note. Phase Transitions, 2013, 86, 1-1.	0.6	2
157	Noise of collapsing minerals: Predictability of the compressional failure in goethite mines. American Mineralogist, 2013, 98, 609-615.	0.9	53
158	Crackling noise during failure of alumina under compression: the effect of porosity. Journal of Physics Condensed Matter, 2013, 25, 292202.	0.7	48
159	Guest editorsâ€™ note. Phase Transitions, 2013, 86, 1051-1051.	0.6	0
160	Mechanical Loss in Multiferroic Materials at High Frequencies: Friction and the Evolution of Ferroelastic Microstructures. Advanced Materials, 2013, 25, 3244-3248.	11.1	29
161	Resonant ultrasonic spectroscopy and resonant piezoelectric spectroscopy in ferroelastic lead phosphate, Pb3(PO4)2. Journal of Physics Condensed Matter, 2013, 25, 465401.	0.7	14
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