

Ekhard K H Salje

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573
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599
ext. papers

19,096
ext. citations

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6.94
L-index

#	Paper	IF	Citations
573	Radiation effects in crystalline ceramics for the immobilization of high-level nuclear waste and plutonium. <i>Journal of Materials Research</i> , 1998 , 13, 1434-1484	2.5	758
572	Domain wall conductivity in La-doped BiFeO ₃ . <i>Physical Review Letters</i> , 2010 , 105, 197603	7.4	319
571	Elastic anomalies in minerals due to structural phase transitions. <i>European Journal of Mineralogy</i> , 1998 , 10, 693-812	2.2	242
570	Ferroelastic Materials. <i>Annual Review of Materials Research</i> , 2012 , 42, 265-283	12.8	227
569	Spontaneous strain as a determinant of thermodynamic properties for phase transitions in minerals. <i>European Journal of Mineralogy</i> , 1998 , 10, 621-691	2.2	220
568	Sheet superconductivity in twin walls: experimental evidence of. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, L377-L380	1.8	212
567	Direct observation of ferroelectricity at ferroelastic domain boundaries in CaTiO ₃ by electron microscopy. <i>Advanced Materials</i> , 2012 , 24, 523-7	24	200
566	Multiferroic domain boundaries as active memory devices: trajectories towards domain boundary engineering. <i>ChemPhysChem</i> , 2010 , 11, 940-50	3.2	200
565	Physical properties and phase transitions in WO ₃ . <i>The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography</i> , 1975 , 31, 356-359		194
564	Order-parameter saturation and low-temperature extension of Landau theory. <i>European Physical Journal B</i> , 1991 , 82, 399-404	1.2	190
563	The orthorhombic phase of WO ₃ . <i>Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry</i> , 1977 , 33, 574-577		184
562	Transformation processes in LaAlO ₃ : Neutron diffraction, dielectric, thermal, optical, and Raman studies. <i>Physical Review B</i> , 2005 , 72,	3.3	183
561	Statistical similarity between the compression of a porous material and earthquakes. <i>Physical Review Letters</i> , 2013 , 110, 088702	7.4	180
560	The crystal structure of triclinic WO ₃ . <i>Acta Crystallographica Section B: Structural Crystallography and Crystal Chemistry</i> , 1978 , 34, 1105-1111		160
559	Calibration of excess thermodynamic properties and elastic constant variations associated with the alpha beta phase transition in quartz. <i>American Mineralogist</i> , 1998 , 83, 2-22	2.9	159
558	Lattice dynamics of WO ₃ . <i>The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography</i> , 1975 , 31, 360-363		148
557	Crackling Noise in Disordered Materials. <i>Annual Review of Condensed Matter Physics</i> , 2014 , 5, 233-254	19.7	141

556	Ferrielectric twin walls in CaTiO ₃ . <i>Physical Review Letters</i> , 2008 , 101, 097602	7.4	136
555	Twin formation and structural modulations in orthorhombic and tetragonal YBa ₂ (Cu _{1-x} Cox) ₃ O _{7-δ} . <i>Philosophical Magazine Letters</i> , 1989 , 60, 241-248	1	131
554	Domain boundary engineering. <i>Phase Transitions</i> , 2009 , 82, 452-469	1.3	128
553	Anderson transition and intermediate polaron formation in WO _{3-x} Transport properties and optical absorption. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1984 , 50, 607-620		125
552	Dynamical excitation and anelastic relaxation of ferroelastic domain walls in LaAlO ₃ . <i>Physical Review B</i> , 2004 , 69,	3.3	123
551	Low-frequency superelasticity and nonlinear elastic behavior of SrTiO ₃ crystals. <i>Physical Review B</i> , 2000 , 61, 946-956	3.3	123
550	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
549	Order parameter coupling and chirality of domain walls. <i>Journal of Physics Condensed Matter</i> , 1991 , 3, 5163-5169	1.8	120
548	Is the metamictization of zircon a phase transition?. <i>American Mineralogist</i> , 1999 , 84, 1107-1116	2.9	114
547	Thermally activated avalanches: Jamming and the progression of needle domains. <i>Physical Review B</i> , 2011 , 83,	3.3	110
546	Metamictization of zircon: Raman spectroscopic study. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 1915-1925	1.8	108
545	Trapping of oxygen vacancies on twin walls of CaTiO ₃ : a computer simulation study. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, 2301-2307	1.8	107
544	Temperature dependence of the domain wall width in LaAlO ₃ . <i>Journal of Applied Physics</i> , 1999 , 85, 722-727		106
543	Avalanche criticality in the martensitic transition of Cu _{67.64} Zn _{16.71} Al _{15.65} shape-memory alloy: A calorimetric and acoustic emission study. <i>Physical Review B</i> , 2010 , 81,	3.3	104
542	The degree and nature of radiation damage in zircon observed by ²⁹ Si nuclear magnetic resonance. <i>Journal of Applied Physics</i> , 2001 , 89, 2084-2090	2.5	103
541	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
540	The cubic-tetragonal phase transition in strontium titanate: excess specific heat measurements and evidence for a near-tricritical, mean field type transition mechanism. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 5535-5543	1.8	101
539	Thermodynamics of sodium feldspar II: Experimental results and numerical calculations. <i>Physics and Chemistry of Minerals</i> , 1985 , 12, 99-107	1.6	100

538	Thermodynamics of sodium feldspar I: Order parameter treatment and strain induced coupling effects. <i>Physics and Chemistry of Minerals</i> , 1985 , 12, 93-98	1.6	97
537	Phase transitions in ferroelastic and co-elastic crystals. <i>Ferroelectrics</i> , 1990 , 104, 111-120	0.6	96
536	Application of real-time, stroboscopic x-ray diffraction with dynamical mechanical analysis to characterize the motion of ferroelastic domain walls. <i>Journal of Applied Physics</i> , 2004 , 95, 1706-1717	2.5	95
535	Amorphization in zircon: evidence for direct impact damage. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 2401-2412	1.8	92
534	Conduction bipolarons in low-temperature crystalline WO _{3-x} . <i>Journal of Physics C: Solid State Physics</i> , 1980 , 13, L1067-L1072		89
533	Domain boundary-dominated systems: adaptive structures and functional twin boundaries. <i>Advances in Physics</i> , 2014 , 63, 267-326	18.4	85
532	Crystal structure and paramagnetic behaviour of. <i>Journal of Physics Condensed Matter</i> , 1997 , 9, 6563-6577	1.8	85
531	The W ⁵⁺ polaron in crystalline low temperature WO ₃ ESR and optical absorption. <i>Solid State Communications</i> , 1980 , 33, 333-336	1.6	85
530	Nanoscale properties of thin twin walls and surface layers in piezoelectric WO ₃ . <i>Applied Physics Letters</i> , 2010 , 96, 032904	3.4	84
529	Cubic-tetragonal phase transition in SrTiO ₃ revisited: Landau theory and transition mechanism. <i>Phase Transitions</i> , 1999 , 68, 501-522	1.3	84
528	Phenomena due to strain coupling in phase transitions. <i>Physical Review Letters</i> , 1991 , 66, 2480-2483	7.4	83
527	Structural states of Mg-cordierite I: Order parameters from synchrotron X-ray and NMR data. <i>Physics and Chemistry of Minerals</i> , 1987 , 14, 446-454	1.6	82
526	Phase transitions in langbeinites I: Crystal chemistry and structures of K-double sulfates of the langbeinite type M + +2 K ₂ (SO ₄) ₃ , M + +=Mg, Ni, Co, Zn, Ca. <i>Physics and Chemistry of Minerals</i> , 1986 , 13, 17-24	1.6	81
525	Sheet superconductivity in : crystal structure of the tetragonal matrix. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, L569-L574	1.8	80
524	Application of Landau theory for the analysis of phase transitions in minerals. <i>Physics Reports</i> , 1992 , 215, 49-99	27.7	80
523	Hard mode spectroscopy: The concept and applications. <i>Phase Transitions</i> , 1997 , 63, 1-75	1.3	79
522	Autocorrelation analysis of infrared spectra from minerals. <i>European Journal of Mineralogy</i> , 2000 , 12, 503-519	2.2	79
521	The theory of fluctuations and texture embryos in structural phase transitions mediated by strain. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 3679-3696	1.8	79

520	High-temperature enthalpy at the orientational order-disorder transition in calcite: implications for the calcite/aragonite phase equilibrium. <i>Contributions To Mineralogy and Petrology</i> , 1989 , 101, 479-484	3.5	77
519	Annealing of alpha-decay damage in zircon: a Raman spectroscopic study. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 3131-3148	1.8	75
518	On the thickness of ferroelastic twin walls in lead phosphate $Pb_3(PO_4)_2$ an X-ray diffraction study. <i>Phase Transitions</i> , 1994 , 48, 135-148	1.3	70
517	The effect of reduction and temperature on the electronic core levels of tungsten and molybdenum in WO_3 and $W_xMo_{1-x}O_3$, photoelectron spectroscopic study. <i>Journal of Solid State Chemistry</i> , 1979 , 29, 237-251	3.3	69
516	Order parameter saturation at low temperatures -numerical results for displacive and O/D systems. <i>Ferroelectrics</i> , 1991 , 124, 185-188	0.6	68
515	Microstructures in high T_c superconductors. <i>Superconductor Science and Technology</i> , 1991 , 4, 93-97	3.1	68
514	In situ observation of the polytypic phase transition 2H-12R in PbI_2 : investigations of the thermodynamic structural and dielectric properties. <i>Journal of Physics C: Solid State Physics</i> , 1987 , 20, 4077-4096		68
513	Intrinsic activation energy for twin-wall motion in the ferroelastic perovskite $CaTiO_3$. <i>Physical Review B</i> , 2006 , 73,	3.3	67
512	Lattice parameters and spontaneous strain in AX ₂ polytypes: CdI_2 , PbI_2 , SnS_2 and $SnSe_2$. <i>Journal of Applied Crystallography</i> , 1989 , 22, 622-623	3.8	67
511	Hard mode Spectroscopy: Experimental studies of structural phase transitions. <i>Phase Transitions</i> , 1992 , 37, 83-110	1.3	66
510	Ferroelastic phases in $Pb_3(PO_4)_2$ and $Pb_3(AsO_4)_2$; X-ray and optical experiments. <i>The Acta Crystallographica Section A, Crystal Physics, Diffraction and General Crystallography</i> , 1981 , 37, 145-153		66
509	Origin of tweed texture in the simulation of a cuprate superconductor. <i>Journal of Physics Condensed Matter</i> , 1993 , 5, 497-518	1.8	65
508	Avalanches in compressed porous SiO_2 -based materials. <i>Physical Review E</i> , 2014 , 90, 022405	2.4	64
507	Mesoscopic structures in ferroelastic crystals: needle twins and right-angled domains. <i>Journal of Physics Condensed Matter</i> , 1996 , 8, 8477-8495	1.8	64
506	Crystal structure and charge carrier concentration of $W_{18}O_{49}$. <i>Journal of Solid State Chemistry</i> , 1981 , 36, 45-51	3.3	64
505	Failure mechanism in porous materials under compression: crackling noise in mesoporous SiO_2 . <i>Philosophical Magazine Letters</i> , 2011 , 91, 554-560	1	63
504	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
503	Low-temperature phase diagrams: non-linearities due to quantum mechanical saturation of order parameters. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 1421-1430	1.8	62

502	Phonon spectra of alkali feldspars; phase transitions and solid solutions. <i>American Mineralogist</i> , 1996 , 81, 92-104	2.9	62
501	The noise of the needle: Avalanches of a single progressing needle domain in LaAlO ₃ . <i>Applied Physics Letters</i> , 2010 , 97, 021907	3.4	61
500	Line-broadening effects in the powder infrared spectrum of apatite. <i>Physics and Chemistry of Minerals</i> , 2011 , 38, 111-122	1.6	60
499	Structural changes in zircon under decay irradiation. <i>Physical Review B</i> , 2002 , 65,	3.3	59
498	Relaxations near surfaces and interfaces for first-, second- and third-neighbour interactions: theory and applications to polytypism. <i>Journal of Physics Condensed Matter</i> , 1992 , 4, 9779-9794	1.8	58
497	Thermodynamics of plagioclase II: Temperature evolution of the spontaneous strain at the (1bar 1 leftrightarrow Pbar 1) phase transition in anorthite. <i>Physics and Chemistry of Minerals</i> , 1987 , 14, 189-195	1.6	58
496	Phase transitions in Pb ₃ (P _{1-x} As _x O ₄) ₂ : influence of the central peak and flip mode on the Raman scattering of hard modes. <i>Journal of Physics C: Solid State Physics</i> , 1983 , 16, 5233-5243		58
495	Structural phase transition in mixed crystals W _x MO _{1-x} O ₃ . <i>Journal of Solid State Chemistry</i> , 1978 , 25, 239-250	3.3	58
494	Trapping of oxygen vacancies in the twin walls of perovskite. <i>Physical Review B</i> , 2010 , 81,	3.3	57
493	A TEM investigation of natural metamict zircons: structure and recovery of amorphous domains. <i>Physics and Chemistry of Minerals</i> , 2000 , 27, 545-556	1.6	57
492	Specific-heat measurements and critical exponents of the ferroelastic phase transition in Pb ₃ (PO ₄) ₂ and Pb ₃ (P _{1-x} As _x O ₄) ₂ . <i>Physical Review B</i> , 1983 , 28, 6510-6518	3.3	57
491	Ferroelastic phase transitions: structure and microstructure. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2005 , 61, 3-18		56
490	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
489	Influence of lattice imperfections on the transition temperatures of structural phase transitions: The plateau effect. <i>Phase Transitions</i> , 1991 , 35, 61-74	1.3	54
488	Kinetic rate laws as derived from order parameter theory I: Theoretical concepts. <i>Physics and Chemistry of Minerals</i> , 1988 , 15, 336-348	1.6	54
487	Domain-wall engineering and topological defects in ferroelectric and ferroelastic materials. <i>Nature Reviews Physics</i> , 2020 , 2, 634-648	23.6	54
486	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
485	Evidence of hexagonal diamond in plasma-deposited carbon films. <i>Journal of Materials Science</i> , 1994 , 29, 4962-4966	4.3	53

484	Imaging and tuning polarity at SrTiO domain walls. <i>Nature Materials</i> , 2017 , 16, 1203-1208	27	52
483	Dielectric properties and polaronic conductivity of WO ₃ and W _x Mo _{1-x} O ₃ . <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1983 , 47, 229-245		52
482	Flexoelectricity and the polarity of complex ferroelastic twin patterns. <i>Physical Review B</i> , 2016 , 94,	3-3	52
481	Phase transition(s) in titanite CaTiSiO ₅ : An infrared spectroscopic, dielectric response and heat capacity study. <i>Physics and Chemistry of Minerals</i> , 1995 , 22, 41	1.6	51
480	Jerky elasticity: Avalanches and the martensitic transition in Cu _{74.08} Al _{23.13} Be _{2.79} shape-memory alloy. <i>Applied Physics Letters</i> , 2009 , 95, 231908	3-4	50
479	Infrared and Raman spectra of ZrSiO ₄ experimentally shocked at high pressures. <i>Mineralogical Magazine</i> , 2004 , 68, 801-811	1-7	50
478	Impact of self-irradiation damage on the aqueous durability of zircon (ZrSiO ₄): implications for its suitability as a nuclear waste form. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, L597-L605	1.8	50
477	Annealing of tweed microstructure in high T _c superconductors studied by a computer simulation. <i>Acta Metallurgica Et Materialia</i> , 1993 , 41, 839-847		49
476	Magnetoelastic coupling and multiferroic ferroelastic/magnetic phase transitions in the perovskite KMnF ₃ . <i>Physical Review B</i> , 2012 , 85,	3-3	48
475	Coupling of order parameters, chirality, and interfacial structures in multiferroic materials. <i>Journal of Physics Condensed Matter</i> , 2011 , 23, 142203	1.8	48
474	Recrystallization of almost fully amorphous zircon under hydrothermal conditions: An infrared spectroscopic study. <i>Journal of Nuclear Materials</i> , 2003 , 320, 280-291	3-3	48
473	Needle twins and right-angled twins in minerals: Comparison between experiment and theory. <i>American Mineralogist</i> , 1998 , 83, 811-822	2.9	48
472	Thin domain walls in YBa ₂ Cu ₃ O _{7-δ} and their rocking curves an x-ray diffraction study. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 225, 111-116	1-3	48
471	Lattice parameters, spontaneous strain and phase transitions in Pb ₃ (PO ₄) ₂ . <i>Acta Crystallographica Section B: Structural Science</i> , 1993 , 49, 387-392		48
470	Phase transitions in leucite: X-ray diffraction studies. <i>Physics and Chemistry of Minerals</i> , 1989 , 16, 714	1.6	48
469	Influence of point defects on the distribution of twin wall widths. <i>Physical Review B</i> , 2005 , 72,	3-3	47
468	X-ray diffraction study of the orientational order/disorder transition in NaNO ₃ : Evidence for order parameter coupling. <i>Physics and Chemistry of Minerals</i> , 1989 , 16, 790-798	1.6	47
467	The phase equilibrium between sillimanite and andalusite as determined from lattice vibrations. <i>Contributions To Mineralogy and Petrology</i> , 1982 , 79, 56-67	3-5	47

466	Noise of collapsing minerals: Predictability of the compressional failure in goethite mines. <i>American Mineralogist</i> , 2013 , 98, 609-615	2.9	46
465	On the displacive character of the phase transition in quartz: a hard-mode spectroscopy study. <i>Journal of Physics Condensed Matter</i> , 1992 , 4, 571-577	1.8	46
464	The phase diagram calcite-aragonite as derived from the crystallographic properties. <i>Contributions To Mineralogy and Petrology</i> , 1976 , 55, 55-67	3.5	46
463	Polar precursor ordering in BaTiO ₃ detected by resonant piezoelectric spectroscopy. <i>Applied Physics Letters</i> , 2013 , 103, 142902	3.4	45
462	Thermodynamics of plagioclases I: Theory of the (Ibar 1 - Pbar 1) phase transition in anorthite and Ca-rich plagioclases. <i>Physics and Chemistry of Minerals</i> , 1987 , 14, 181-188	1.6	45
461	Dynamic elastic response of KMn _{1-x} CaxF ₃ : Elastic softening and domain freezing. <i>Physical Review B</i> , 2009 , 80,	3.3	44
460	Small-polaron absorption in W x Mo _{1-x} O ₃ . <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1981 , 43, 105-114		44
459	Atomistic modelling of radiation damage in zircon. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 1947-1959		43
458	Transition to a new tetragonal phase of WO ₃ : crystal structure and distortion parameters. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 4143-4156	1.8	43
457	Overview of the origin of tweed texture. <i>Phase Transitions</i> , 1994 , 52, 77-83	1.3	43
456	Thickness of pericline twin walls in anorthoclase: an X-ray diffraction study. <i>European Journal of Mineralogy</i> , 1997 , 8, 1301-1310	2.2	43
455	High junction and twin boundary densities in driven dynamical systems. <i>Advanced Materials</i> , 2012 , 24, 5385-9	2.4	42
454	Order parameter saturation in LaAlO ₃ . <i>Journal of Physics Condensed Matter</i> , 2002 , 14, 10131-10144	1.8	42
453	Nonlinear elastic behaviour of SrTiO ₃ crystals in the quantum paraelectric regime. <i>Europhysics Letters</i> , 2000 , 50, 41-47	1.6	42
452	Surface structure of domain walls. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, L359-L366	1.8	42
451	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
450	Mechanical resonance of the austenite/martensite interface and the pinning of the martensitic microstructures by dislocations in Cu _{74.08} Al _{23.13} Be _{2.79} . <i>Physical Review B</i> , 2009 , 80,	3.3	41
449	Theory and computer simulation of tweed texture. <i>Phase Transitions</i> , 1994 , 48, 1-13	1.3	41

448	Crystallography and structural phase transitions, an introduction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 1991 , 47, 453-469		41
447	Dehydroxylation, proton migration, and structural changes in heated talc: An infrared spectroscopic study. <i>American Mineralogist</i> , 2006 , 91, 816-825	2.9	40
446	Spontaneous strain at the structural phase transition in NaNO ₃ . <i>Physics and Chemistry of Minerals</i> , 1988 , 15, 605-611	1.6	40
445	Ferroelectric switching and scale invariant avalanches in BaTiO ₃ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	40
444	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
443	Infrared spectroscopic analysis of zircon: Radiation damage and the metamict state. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 3057-3071	1.8	39
442	Hard mode infrared spectroscopy of plagioclase feldspars. <i>European Journal of Mineralogy</i> , 1999 , 11, 7-22	2.2	39
441	First-principles reinvestigation of bulk WO ₃ . <i>Physical Review B</i> , 2016 , 94,	3.3	39
440	Direct observation of polar tweed in LaAlO ₃ . <i>Scientific Reports</i> , 2016 , 6, 27193	4.9	38
439	Surface relaxations in hydroxyapatite. <i>Journal of Physics Condensed Matter</i> , 2000 , 12, 9829-9841	1.8	38
438	Ferroelectric Bloch-line switching: A paradigm for memory devices?. <i>Applied Physics Letters</i> , 2014 , 105, 252904	3.4	37
437	Dynamically strained ferroelastics: Statistical behavior in elastic and plastic regimes. <i>Physical Review B</i> , 2013 , 87,	3.3	37
436	X-ray analysis of mesoscopic twin structures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1996 , 354, 2815-2845	3	37
435	An infrared spectroscopic study of the internal modes of sodium nitrate: implications for the structural phase transition. <i>Journal of Physics Condensed Matter</i> , 1990 , 2, 5517-5527	1.8	37
434	Reinvestigation of the stepwise character of the ferroelastic phase transition in lead phosphate-arsenate, Pb ₃ (PO ₄) ₂ -Pb ₃ (AsO ₄) ₂ . <i>Journal De Physique</i> , 1982 , 43, 1379-1388		37
433	Simulating acoustic emission: The noise of collapsing domains. <i>Physical Review B</i> , 2014 , 90,	3.3	36
432	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
431	Large swelling and percolation in irradiated zircon. <i>Journal of Physics Condensed Matter</i> , 2003 , 15, L1-L7	1.8	36

430	Domain wall formation in minerals: I. theory of twin boundary shapes in Na-feldspar. <i>Physics and Chemistry of Minerals</i> , 1985 , 12, 132-140	1.6	36
429	A new type of electro-optic effect in semiconducting WO ₃ . <i>Journal of Applied Crystallography</i> , 1974 , 7, 615-617	3.8	36
428	Predicting failure: acoustic emission of berlinite under compression. <i>Journal of Physics Condensed Matter</i> , 2014 , 26, 275401	1.8	35
427	A Theory of Ferroelectric 90 Degree Domain Wall. <i>Journal of the Physical Society of Japan</i> , 2002 , 71, 2800-2803	1.3	35
426	A molecular dynamics study of orientational disordering in crystalline sodium nitrate. <i>Journal of Physics Condensed Matter</i> , 1989 , 1, 6523-6542	1.8	35
425	Direct observation of ferroelasticity in Pb ₃ (PO ₄) ₂ ? Pb ₃ (VO ₄) ₂ . <i>Materials Research Bulletin</i> , 1976 , 11, 1545-1549	5.1	35
424	Highly mobile vortex structures inside polar twin boundaries in SrTiO ₃ . <i>Applied Physics Letters</i> , 2014 , 104, 082907	3.4	34
423	Low-temperature infrared spectroscopic study of OH-stretching modes in kaolinite and dickite. <i>American Mineralogist</i> , 2010 , 95, 1257-1266	2.9	34
422	Localized defects in radiation-damaged zircon. <i>Acta Crystallographica Section B: Structural Science</i> , 2000 , 56 (Pt 6), 947-52		34
421	Near-surface domain structures in uniaxially stressed. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, 2817-2827	1.8	34
420	The effect of the superconducting phase transition on the near-infrared absorption of YBa ₂ Cu ₃ O _{7-δ} . <i>Superconductor Science and Technology</i> , 1992 , 5, 50-53	3.1	34
419	The effect of high polaron concentration on the polaron transport in NbO _{2.5-x} : optical and electrical properties. <i>Journal of Physics C: Solid State Physics</i> , 1988 , 21, 3737-3749		34
418	Temperature dependence of IR absorption of hydrous/hydroxyl species in minerals and synthetic materials. <i>American Mineralogist</i> , 2007 , 92, 1502-1517	2.9	33
417	Interfaces and ripple states in ferroelastic crystals – a simple model. <i>Phase Transitions</i> , 1992 , 38, 77-87	1.3	33
416	Structural states of Mg-cordierite II: Landau theory. <i>Physics and Chemistry of Minerals</i> , 1987 , 14, 455-460	1.6	33
415	XPS studies on WO _{2.90} and WO _{2.72} and the influence of metallic impurities. <i>Journal of Solid State Chemistry</i> , 1983 , 49, 318-324	3.3	33
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