

Wolfgang Kleemann

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376
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h-index

95
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393
ext. papers

12,942
ext. citations

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#	Paper	IF	Citations
376	Diffuse phase transitions and random-field-induced domain states of the "relaxor" ferroelectric $\text{PbMg}_{1/3}\text{Nb}_{2/3}\text{O}_3$. <i>Physical Review Letters</i> , 1992 , 68, 847-850	7.4	877
375	Supermagnetism. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 013001	3	777
374	Magnetoelectric switching of exchange bias. <i>Physical Review Letters</i> , 2005 , 94, 117203	7.4	379
373	RANDOM-FIELD INDUCED ANTIFERROMAGNETIC, FERROELECTRIC AND STRUCTURAL DOMAIN STATES. <i>International Journal of Modern Physics B</i> , 1993 , 07, 2469-2507	1.1	356
372	Large bulk polarization and regular domain structure in ceramic BiFeO_3 . <i>Applied Physics Letters</i> , 2007 , 90, 172115	3.4	207
371	The relaxor enigma \square charge disorder and random fields in ferroelectrics. <i>Journal of Materials Science</i> , 2006 , 41, 129-136	4.3	191
370	Diffuse phase transition in $\text{BaTi}_{1-x}\text{Sn}_x\text{O}_3$ ceramics: An intermediate state between ferroelectric and relaxor behavior. <i>Journal of Applied Physics</i> , 2006 , 99, 124111	2.5	178
369	Interacting ferromagnetic nanoparticles in discontinuous $\text{Co}_{80}\text{Fe}_{20}/\text{Al}_2\text{O}_3$ multilayers: From superspin glass to reentrant superferromagnetism. <i>Physical Review B</i> , 2001 , 63,	3.3	175
368	Two-stage processes of electrically induced-ferroelectric to relaxor transition in $0.94(\text{Bi}_{1/2}\text{Na}_{1/2})\text{TiO}_3\text{-}0.06\text{BaTiO}_3$. <i>Applied Physics Letters</i> , 2013 , 102, 192903	3.4	162
367	Cluster and domain-state dynamics of ferroelectric $\text{Sr}_{1-x}\text{Ca}_x\text{TiO}_3$ ($x=0.007$). <i>Physical Review B</i> , 1995 , 51, 8737-8746	3.3	154
366	Crystal structure and multiferroic properties of Gd-substituted BiFeO_3 . <i>Applied Physics Letters</i> , 2008 , 93, 262905	3.4	151
365	Doping strategies for increased performance in BiFeO_3 . <i>Journal of Magnetism and Magnetic Materials</i> , 2009 , 321, 1692-1698	2.8	149
364	Magnetoelectric exchange bias systems in spintronics. <i>Applied Physics Letters</i> , 2006 , 89, 202508	3.4	147
363	$(\text{Sr},\text{Mn})\text{TiO}_3$: a magnetoelectric multiglass. <i>Physical Review Letters</i> , 2008 , 101, 165704	7.4	138
362	Collective states of interacting ferromagnetic nanoparticles. <i>Journal of Magnetism and Magnetic Materials</i> , 2006 , 300, 192-197	2.8	137
361	Coexistence of antiferromagnetic and spin cluster glass order in the magnetoelectric relaxor multiferroic $\text{PbFe}_{0.5}\text{Nb}_{0.5}\text{O}_3$. <i>Physical Review Letters</i> , 2010 , 105, 257202	7.4	136
360	Overcoming the Dipolar Disorder in Dense CoFe Nanoparticle Ensembles: Superferromagnetism. <i>Physical Review Letters</i> , 2007 , 98,	7.4	130

359	Effect of Gd substitution on the crystal structure and multiferroic properties of BiFeO ₃ . <i>Acta Materialia</i> , 2009 , 57, 5137-5145	8.4	128
358	Crystal optical studies of spontaneous and precursor polarization in KNbO ₃ . <i>Physical Review B</i> , 1984 , 30, 1148-1154	3.3	121
357	Ferroelectric nanodomains in the uniaxial relaxor system Sr _{0.61} Ba _{0.39} Nb ₂ O ₆ :Cex ³⁺ . <i>Physical Review B</i> , 2001 , 64,	3.3	119
356	Superparamagnetism versus superspin glass behavior in dilute magnetic nanoparticle systems. <i>Physical Review B</i> , 2005 , 72,	3.3	116
355	Electric in-plane polarization in multiferroic CoFe ₂ O ₄ /BaTiO ₃ nanocomposite tuned by magnetic fields. <i>Nature Communications</i> , 2013 , 4, 2051	17.4	112
354	Nanopolar structure in Sr _x Ba _{1-x} Nb ₂ O ₆ single crystals tuned by Sr/Ba ratio and investigated by piezoelectric force microscopy. <i>Physical Review B</i> , 2008 , 77,	3.3	111
353	Uniaxial relaxor ferroelectrics: The ferroic random-field Ising model materialized at last. <i>Europhysics Letters</i> , 2002 , 57, 14-19	1.6	108
352	Universal Domain Wall Dynamics in Disordered Ferriic Materials. <i>Annual Review of Materials Research</i> , 2007 , 37, 415-448	12.8	107
351	Cluster Glass and Domain State Properties of KTaO ₃ Li. <i>Europhysics Letters</i> , 1987 , 4, 239-245	1.6	104
350	Aging and memory in a superspin glass. <i>Physical Review B</i> , 2003 , 67,	3.3	93
349	RANDOM FIELDS IN RELAXOR FERROELECTRICS A JUBILEE REVIEW. <i>Journal of Advanced Dielectrics</i> , 2012 , 02, 1241001	1.3	92
348	Large off-diagonal magnetoelectric coupling in the quantum paraelectric antiferromagnet EuTiO ₃ . <i>Physical Review B</i> , 2010 , 81,	3.3	89
347	Relaxor ferroelectrics: Cluster glass ground state via random fields and random bonds. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 1993-2002	1.3	87
346	Large Electrocaloric Effect in Relaxor Ferroelectric and Antiferroelectric Lanthanum Doped Lead Zirconate Titanate Ceramics. <i>Scientific Reports</i> , 2017 , 7, 45335	4.9	86
345	Freezing field dependence of the exchange bias in uniaxial Fe ₂ O ₃ /Pt heterosystems with perpendicular anisotropy. <i>Journal of Magnetism and Magnetic Materials</i> , 2000 , 217, 139-146	2.8	85
344	Raman scattering of ferroelectric Sr _{1-x} CaxTiO ₃ , x=0.007. <i>Journal of Physics Condensed Matter</i> , 1994 , 6, 1229-1238	1.8	83
343	Diffuse ferroelectric phase transition and long-range order of dilute KTa _{1-x} NbxO ₃ . <i>Physical Review Letters</i> , 1985 , 54, 2038-2041	7.4	83
342	Effect of Sm substitution on ferroelectric and magnetic properties of BiFeO ₃ . <i>Scripta Materialia</i> , 2010 , 62, 238-241	5.6	82

- 341 Training of the exchange-bias effect in NiO-Fe heterostructures. *Physical Review B*, **2002**, 66, 3-3 77
- 340 Two-dimensional Ising model criticality in a three-dimensional uniaxial relaxor ferroelectric with frozen polar nanoregions. *Physical Review Letters*, **2006**, 97, 065702 7-4 75
- 339 Domain wall relaxation, creep, sliding, and switching in superferromagnetic discontinuous Co(80)Fe(20)/Al(2)O₃ multilayers. *Physical Review Letters*, **2002**, 89, 137203 7-4 75
- 338 Bias-field effect on the temperature anomalies of dielectric permittivity in PbMg_{1/3}Nb_{2/3}BO₃BbTiO₃ single crystals. *Physical Review B*, **2005**, 72, 3-3 73
- 337 Influence of pinning effects on the ferroelectric hysteresis in cerium-doped Sr_{0.61}Ba_{0.39}Nb₂O₆. *Physical Review B*, **2001**, 63, 3-3 69
- 336 Superspin-glass nature of discontinuous Co₈₀Fe₂₀/Al₂O₃ multilayers. *Physical Review B*, **2002**, 65, 3-3 68
- 335 Phase transitions in Sr_{0.61}Ba_{0.39}Nb₂O₆:Ce³⁺. I. Susceptibility of clusters and domains. *European Physical Journal B*, **2000**, 14, 627-632 1.2 68
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- 333 Crossover from ferroelectric to relaxor behavior in BaTi_{1-x}Sn_xO₃ solid solutions. *Phase Transitions*, **2008**, 81, 1013-1021 1-3 65
- 332 Superconducting quantum interference device setup for magnetoelectric measurements. *Review of Scientific Instruments*, **2007**, 78, 106105 1-7 65
- 331 Cooperative versus superparamagnetic behavior of dense magnetic nanoparticles in Co₈₀Fe₂₀/Al₂O₃ multilayers. *Applied Physics Letters*, **2003**, 82, 4116-4118 3-4 58
- 330 Exchange bias in a generalized Meiklejohn-Bean approach. *Journal of Magnetism and Magnetic Materials*, **2001**, 234, 353-358 2.8 58
- 329 Metastability of the uniform magnetization in three-dimensional random-field Ising model systems. II. Fe_{0.47}Zn. *Physical Review B*, **1988**, 38, 4773-4780 3-3 58
- 328 The Dielectric Relaxation in Solid Solutions BaTi_{1-x}Zr_xO₃. *Ferroelectrics*, **2009**, 379, 77-85 0.6 57
- 327 Optical detection of symmetry breaking on a nanoscale in SrTiO₃:Ca. *Ferroelectrics*, **1997**, 203, 57-74 0.6 57
- 326 Electrically controlled exchange bias for spintronic applications. *Journal of Applied Physics*, **2005**, 97, 10C514 2-5 57
- 325 Cluster and domain-wall dynamics of ferroelectric Sr_{1-x}Ca_xTiO₃. *Physical Review B*, **1989**, 40, 7428-7431 3-3 57
- 324 Creep and relaxation dynamics of domain walls in periodically poled KTiOPO₄. *Physical Review Letters*, **2005**, 94, 117601 7-4 55

323	Susceptibility scaling behavior of quantum paraelectric SrTiO ₃ :Ca. <i>Physical Review B</i> , 1998 , 58, 8985-8996.	3	53
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321	Spin-lattice coupling in multiferroic Pb(Fe _{1/2} Nb _{1/2})O ₃ thin films. <i>Applied Physics Letters</i> , 2009 , 94, 012509.	9	51
320	Crossover from ferroelectric to relaxor and cluster glass in BaTi _{1-x} Zr _x O ₃ (x = 0.25-0.35) studied by non-linear permittivity. <i>Applied Physics Letters</i> , 2013 , 102, 232907	3-4	50
319	Ferroelectric domain structures of PbTiO ₃ studied by scanning force microscopy. <i>Journal Physics D: Applied Physics</i> , 2000 , 33, 1932-1936	3	49
318	Non-Debye domain-wall-induced dielectric response in Sr _{0.61} Ce _x Ba _{0.39} Nb ₂ O ₆ . <i>Physical Review B</i> , 2002 , 65,	3-3	48
317	Polarization-based adjustable memory behavior in relaxor ferroelectrics. <i>Physical Review Letters</i> , 2002 , 89, 127601	7-4	47
316	Relaxation and aging of a superferromagnetic domain state. <i>Physical Review B</i> , 2003 , 68,	3-3	46
315	Critical behavior of the magnetization of a d=3 random-field Ising system. <i>Physical Review B</i> , 1986 , 34, 479-482	3-3	46
314	Critical behavior and metastability of the magnetization in the random-field Ising system Fe. <i>Physical Review B</i> , 1987 , 35, 8696-8700	3-3	46
313	Crystal optical studies of precursor and spontaneous polarization in PbTiO ₃ . <i>Physical Review B</i> , 1986 , 34, 7873-7879	3-3	45
312	From barrett to generalized quantum curie-weiss law. <i>Solid State Communications</i> , 1998 , 106, 695-699	1-6	44
311	Metastability of the uniform magnetization in three-dimensional random-field Ising model systems. I. Fe _{0.7} Mg. <i>Physical Review B</i> , 1988 , 38, 4765-4772	3-3	44
310	Strain-induced quadrupolar ordering of dipole-glass-like K _{1-x} Li _x TaO ₃ . <i>Physical Review B</i> , 1988 , 37, 5856-5859	3-3	44
309	Phase transitions in. <i>European Physical Journal B</i> , 2000 , 14, 633	1-2	42
308	Modes of periodic domain wall motion in ultrathin ferromagnetic layers. <i>Physical Review Letters</i> , 2007 , 99, 097203	7-4	41
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305	Random-field Ising-type transition of pure and doped SBN from the relaxor into the ferroelectric state. <i>Europhysics Letters</i> , 2001 , 55, 781-787	1.6	40
304	Absorption of colloidal silver in KCl. <i>Zeitschrift für Physik A</i> , 1968 , 215, 113-120		40
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302	Seeking Supersolidity in Helium Layers. <i>Physics Magazine</i> , 2009 , 2,	1.1	39
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300	Universal and scaled relaxation of interacting magnetic nanoparticles. <i>Physical Review B</i> , 2004 , 70,	3.3	39
299	Multiglass order and magnetoelectricity in Mn ²⁺ doped incipient ferroelectrics. <i>European Physical Journal B</i> , 2009 , 71, 407-410	1.2	38
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297	Computer-controlled susceptometer for investigating the linear and nonlinear dielectric response. <i>Review of Scientific Instruments</i> , 2007 , 78, 033902	1.7	38
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295	Magnetoelectric spintronics. <i>Journal of Applied Physics</i> , 2013 , 114, 027013	2.5	37
294	Study on surface and domain structures of PbTiO ₃ crystals by atomic force microscopy. <i>Journal of Applied Physics</i> , 1998 , 84, 6795-6799	2.5	37
293	Exciton and magnon-sideband absorption in the pyroelectric antiferromagnet BaMnF ₄ . <i>Physical Review B</i> , 1983 , 27, 3762-3779	3.3	37
292	Multiferroic Clusters: A New Perspective for Relaxor-Type Room-Temperature Multiferroics. <i>Advanced Functional Materials</i> , 2016 , 26, 2111-2121	15.6	37
291	Dynamic behavior of polar nanodomains in PbMg _{1/3} Nb _{2/3} O ₃ . <i>Ferroelectrics</i> , 1997 , 199, 1-10	0.6	36
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289	Athermal magnetization avalanches and domain states in the site-diluted metamagnet Fe _x Mg _{1-x} Cl ₂ . <i>Physical Review B</i> , 1996 , 53, 11647-11655	3.3	36
288	Dipolar freezing of glassy K _{1-x} Li _x TaO ₃ x = 0.011. <i>Ferroelectrics</i> , 1991 , 124, 237-242	0.6	36

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286	Optical transitions of Ag ⁺ centers in alkali halides. <i>European Physical Journal A</i> , 1970 , 234, 362-378	2.5	35
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262	Study of Ni ₂ MnTa phase formation by magnetron sputtering film deposition at low temperature onto Si substrates and LaNiO ₃ Bb(Ti,Zr)O ₃ buffer. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010 , 28, 6-10	2.9	27
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260	Dynamics of nanoscale polar regions and critical behavior of the uniaxial relaxor Sr _{0.61} Ba _{0.39} Nb ₂ O ₆ :Co. <i>Physical Review B</i> , 2005 , 72,	3.3	27
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258	Scaling behaviour of strontium titanate. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, L379-L384	1.8	27
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251	Crystal structure and its correlation to intrinsic and extrinsic magnetic properties of epitaxial hard magnetic Pr-Co films. <i>Physical Review B</i> , 2007 , 75,	3.3	25
250	Exchange bias and ferromagnetic coercivity in heterostructures with antiferromagnetic Cr ₂ O ₃ . <i>Journal of Applied Physics</i> , 2011 , 110, 033917	2.5	24
249	ENHANCED MAGNETIZATION IN BiFeO ₃ /BaTiO ₃ MULTILAYERS: AN INTERFACE EFFECT?. <i>Integrated Ferroelectrics</i> , 2008 , 100, 165-176	0.8	24
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243	Second-harmonic study of polar symmetry and domain structure in SrTi ₁₈ O ₃ . <i>Applied Physics Letters</i> , 2002 , 81, 3022-3024	3.4	23
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234	Non-linear permittivity study of the crossover from ferroelectric to relaxor and cluster glass in BaTi _{1-x} Sr _x O ₃ (x = 0.175-0.30). <i>Applied Physics Letters</i> , 2014 , 104, 182910	3.4	20

233	Multiferroic and Magnetoelectric Materials. <i>Springer Tracts in Modern Physics</i> , 2013 , 163-187	0.1	20
232	From mesoscopic to global polar order in the uniaxial relaxor ferroelectric Sr _{0.8} Ba _{0.2} Nb ₂ O ₆ . <i>Applied Physics Letters</i> , 2012 , 100, 052903	3.4	20
231	Photoinduced phenomena in Sr _{1-x} Ca _x TiO ₃ , 0 ≤ x ≤ 0.12. <i>Ferroelectrics</i> , 1996 , 183, 255-264	0.6	20
230	Optical properties and spin dynamics of ferromagnetic K ₂ CuF ₄ . <i>Journal De Physique (Paris), Lettres</i> , 1974 , 35, 135-137		20
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228	Single-particle blocking and collective magnetic states in discontinuous CoFe/Al ₂ O ₃ multilayers. <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 474002	3	19
227	Multiferroic and magnetoelectric materials--novel developments and perspectives. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 2228-32	3.2	19
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225	Dielectric properties of doped quantum paraelectrics. <i>Europhysics Letters</i> , 1998 , 42, 173-178	1.6	19
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