## Alexander Belov

List of Publications by Year in descending order

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ALEXANDER RELOV

#	Article	IF	CITATIONS
1	Fast Polarization Reversal in Polycrystalline Ferroelectric Thin Films: The Origin of Size Effects. Ferroelectrics, 2019, 544, 27-32.	0.6	1
2	1/E2 Law: Solution of the Unsolved Problem in the Physics of Ferroelectrics. JETP Letters, 2018, 108, 221-225.	1.4	3
3	First-principles estimate of Peierls energy in sodium chloride. Crystallography Reports, 2017, 62, 270-274.	0.6	0
4	Low-frequency spectra of dislocation paths in NaCl crystals in the electron spin resonance scheme. Bulletin of the Russian Academy of Sciences: Physics, 2014, 78, 1086-1091.	0.6	4
5	Determination of the positions of impurity centers in a dislocation core in a NaCl crystal from magnetoplasticity spectra. JETP Letters, 2014, 99, 82-88.	1.4	13
6	Strain and x-ray diffraction from axial nanowire heterostructures. Physical Review B, 2012, 85, .	3.2	31
7	The Evaluation of Activation Parameters for Ferroelectric Switching in Soft PZT Ceramics. Ferroelectrics, 2009, 391, 42-50.	0.6	7
8	Creep in Soft PZT: The Effect of Internal Fields. Ferroelectrics, 2009, 391, 12-21.	0.6	12
9	Micromechanics of Ferroelectrics: From Domain Walls to Piezoceramic Devices. Ferroelectrics, 2007, 351, 79-87.	0.6	6
10	Simulation of microstructure evolution in polycrystalline ferroelectrics–ferroelasticsâ~†. Acta Materialia, 2006, 54, 3463-3469.	7.9	24
11	Viscoplastic models for ferroelectric ceramics. Journal of the European Ceramic Society, 2005, 25, 2567-2571.	5.7	19
12	Viscoplastic behaviour of perovskite type ferroelectrics. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2005, 118, 7-11.	3.5	13
13	Relaxation kinetics in amorphous carbon films: An insight from atomic scale simulation. Thin Solid Films, 2005, 482, 74-78.	1.8	5
14	Formation and evolution of sp2 clusters in amorphous carbon networks as predicted by molecular dynamics annealing simulations. Diamond and Related Materials, 2005, 14, 1014-1018.	3.9	9
15	Evolution ofsp2networks with substrate temperature in amorphous carbon films: Experiment and theory. Physical Review B, 2005, 72, .	3.2	61
16	ta-C deposition simulations: Film properties and time-resolved dynamics of film formation. Physical Review B, 2003, 68, .	3.2	58
17	Simulation of the non-equilibrium processes for tetrahedral amorphous carbon: Deposition and structural relaxation. Nuclear Instruments & Methods in Physics Research B, 2003, 202, 242-248.	1.4	10
18	Atomistic study of ion-beam deposition conditions for hard amorphous carbon. Computational Materials Science, 2003, 27, 16-22.	3.0	4

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19	Atomic scale simulation of structural relaxation processes in tetrahedral amorphous carbon. Computational Materials Science, 2003, 27, 30-35.	3.0	14
20	Domain Wall Interactions and Transformation of Domain Pattern Near the Improper Ferroelastic Phase Transition of K 2 Ba(NO 2 ) 4. Ferroelectrics, 2003, 290, 133-140.	0.6	6
21	Calculation of intrinsic stresses in amorphous carbon films grown by molecular dynamics simulation: from atomic to macroscopic scale. Computational Materials Science, 2002, 24, 154-158.	3.0	17
22	Atomic processes at bonded Si-interfaces studied by molecular dynamics: tayloring densities and bandgaps?. Computational Materials Science, 2002, 24, 33-41.	3.0	4
23	Elastic constants of tetrahedral amorphous carbon films: the effect of intrinsic stresses. Surface and Coatings Technology, 2002, 151-152, 128-132.	4.8	6
24	Elastic Properties of Diamond-Like Amorphous Carbon Films Grown by Computer Simulation of Ion-Beam Deposition Process. Materials Research Society Symposia Proceedings, 2000, 648, 1.	0.1	1
25	Enhanced semi-empirical potentials in molecular dynamics simulations of wafer bonding. Materials Science in Semiconductor Processing, 2000, 3, 129-135.	4.0	6
26	Atomic structures of dislocation intersections at (001) low-angle twist and shear boundaries in silicon. Philosophical Magazine Letters, 1999, 79, 107-114.	1.2	2
27	Dissociation of screw dislocations in (001) low-angle twist boundaries: A source of the 30 o partial dislocations in silicon. Philosophical Magazine Letters, 1999, 79, 531-538.	1.2	28
28	Extended Point Defect Structures at Intersections of Screw Dislocations in Si: A Molecular Dynamics Study. Physica Status Solidi A, 1999, 171, 159-166.	1.7	13
29	Atomistic study of the (001), 90° twist boundary in silicon. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 77, 55-65.	0.6	16
30	Atomistic study of the (001 ), 90 o twist boundary in silicon. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1998, 77, 55-65.	0.6	1
31	Molecular dynamics modelling of silicon wafer bonding. Computational Materials Science, 1997, 9, 108-115.	3.0	4
32	Universal weight functions for elastically anisotropic, angularly inhomogeneous media with notches or cracks. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 73, 1621-1646.	0.6	7
33	Critical Angles in Bending of Rotationally Inhomogeneous Elastic Wedges. Journal of Applied Mechanics, Transactions ASME, 1995, 62, 429-440.	2.2	11
34	Higher order weight functions in fracture mechanics of inhomogeneous anisotropic solids. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1995, 72, 1471-1483.	0.6	6
35	Scaling regimes and anomalies of wedge disclination stresses in anisotropic rotationally inhomogeneous media. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1993, 68, 1215-1231.	0.6	10
36	Anomalies of compatibility stresses in elastically anisotropic solids with wedge-like inhomogeneities. Physica Scripta, 1992, T44, 113-121.	2.5	2

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37	A wedge disclination along the vertex of the wedge-like inhomogeneity in an elastically anisotropic solid. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1992, 65, 1429-1444.	0.6	6
38	Dislocations Emerging at Planar Boundaries. Modern Problems in Condensed Matter Sciences, 1992, 31, 391-446.	0.1	19
39	Real temperature of nanoparticles in electron microscope beams. Philosophical Magazine Letters, 1991, 63, 275-279.	1.2	37
40	The analogue of the Carothers' effect and stress anomalies in the theory of disclinations. Philosophical Magazine Letters, 1991, 64, 207-210.	1.2	9
41	Elastic fields of dislocations piercing the interface of an anisotropic bicrystal. Physica Status Solidi (B): Basic Research, 1983, 119, 565-578.	1.5	25