Vladimir Koval

List of Publications by Year
in descending order

43 papers	1,224 citations	430874 18 h-index	377865 34 g-index
44 all docs	44 docs citations	44 times ranked	1453 citing authors

#	Article	IF	Citations
1	Unfolding grain size effects in barium titanate ferroelectric ceramics. Scientific Reports, 2015, 5, 9953.	3.3	227
2	Lithium-Induced Phase Transitions in Lead-Free Bi_{0.5}Na_{0.5}TiO₃ Based Ceramics. Journal of Physical Chemistry C, 2014, 118, 8564-8570.	3.1	152
3	Ultrahigh field-induced strain in lead-free ceramics. Nano Energy, 2020, 76, 105037.	16.0	85
4	Effect of PMN modification on structure and electrical response of xPMNâ€“(1âˆ’x)PZT ceramic systems. Journal of the European Ceramic Society, 2003, 23, 1157-1166.	5.7	81
5	Effect of dysprosium substitution on crystal structure and physical properties of multiferroic BiFeO3 ceramics. Journal of the European Ceramic Society, 2014, 34, 641-651.	5.7	65
6	Dielectric Properties and Phase Transition Behavior of xPMN-(1 âˆ’ x)PZT Ceramic Systems. , 2003, 10, 19-29.		56
7	Tuning the electrocaloric enhancement near the morphotropic phase boundary in lead-free ceramics. Scientific Reports, 2016, 6, 28251.	3.3	52
8	On the origin of grain size effects in Ba(Ti0.96Sn0.04)O3 perovskite ceramics. Journal of the European Ceramic Society, 2019, 39, 2064-2075.	5.7	52
9	Effect of Ce and La substitution on dielectric properties of bismuth titanate ceramics. Ceramics International, 2011, 37, 487-492.	4.8	40
10	Electric field-induced transformations in bismuth sodium titanate-based materials. Progress in Materials Science, 2021, 122, 100837.	32.8	36
11	Terbium-induced phase transitions and weak ferromagnetism in multiferroic bismuth ferrite ceramics. Journal of Materials Chemistry C, 2017, 5, 2669-2685.	5.5	32
12	Ferroelectric/ferroelastic behavior and piezoelectric response of lead zirconate titanate thin films under nanoindentation. Journal of Applied Physics, 2005, 97, 074301.	2.5	29
13	Development of Al 2 O 3 electrospun fibers prepared by conventional sintering method or plasma assisted surface calcination. Applied Surface Science, 2017, 415, 90-98.	6.1	27
14	Crystal Chemistry and Magnetic Properties of Gd-Substituted Aurivillius-Type Bi₅FeTi₃O₁₅ Ceramics. Journal of Physical Chemistry C, 2018, 122, 15733-15743.	3.1	25
15	Polar nano-clusters in nominally paraelectric ceramics demonstrating high microwave tunability for wireless communication. Journal of the European Ceramic Society, 2020, 40, 3996-4003.	5.7	25
16	Room temperature magnetoelectric coupling in intrinsic multiferroic Aurivillius phase textured ceramics. Dalton Transactions, 2016, 45, 14049-14052.	3.3	20
17	Bi_{3.25}La_{0.75}Ti_{2.5}Nb_{0.25}(Fe_{0.5}Co_{0.5})_{0.25} a single phase room temperature multiferroic. Journal of Materials Chemistry C, 2018, 6, 2733-2740.	5.5	19
18	Topological thermal Hall effect driven by spin-chirality fluctuations in frustrated antiferromagnets. Physical Review B, 2019, 99, .	3.2	19

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19	Perovskite Bi0.5Na0.5TiO3-based materials for dielectric capacitors with ultrahigh thermal stability. Materials and Design, 2021, 198, 109344.	7.0	19
20	Crystal structure and electrical properties of textured Ba2Bi4Ti5O18 ceramics. Journal of the European Ceramic Society, 2019, 39, 1042-1049.	5.7	17
21	Grain Size Effects in Mn-Modified 0.67BiFeO₃â€“0.33BaTiO₃ Ceramics. ACS Applied Materials & Interfaces, 2021, 13, 57548-57559.	8.0	16
22	Phase evolution and electrical behaviour of samarium-substituted bismuth ferrite ceramics. Journal of the European Ceramic Society, 2018, 38, 1374-1380.	5.7	15
23	Cobalt-induced structural modulation in multiferroic Aurivillius-phase oxides. Journal of Materials Chemistry C, 2020, 8, 8466-8483.	5.5	14
24	Lead free Bi 3 TaTiO 9 ferroelectric ceramics with high Curie point. Materials Letters, 2016, 175, 79-81.	2.6	13
25	Effect of poling process on the piezoelectric and dielectric properties of Nb and Sr-doped PZT ceramics. Ferroelectrics, 1997, 193, 41-49.	0.6	12
26	Temperature-dependent deformation processes in two-phase TiAlÂ+ÂTi3Al nano-polycrystalline alloys. Materials and Design, 2021, 199, 109422.	7.0	12
27	Biasing Effects in Ferroic Materials. , 0, , .		10
28	Terahertz Probing Irreversible Phase Transitions Related to Polar Clusters in Bi_{0.5}Na_{0.5}TiO₃â€Based Ferroelectric. Advanced Electronic Materials, 2020, 6, 1901373.	5.1	10
29	Enhanced ferroelectric loop asymmetry of lead zirconate titanate thin films under nanoindentation. Journal of Applied Physics, 2007, 101, 024113.	2.5	8
30	Room-temperature multiferroic behavior in layer-structured Aurivillius phase ceramics. Applied Physics Letters, 2020, 117, .	3.3	7
31	Electrical tuning of skyrmion dynamics in multiferroic composite thin films. Physical Review B, 2019, 100, .	3.2	6
32	Orthoenstatite to forsterite phase transformation in magnesium germanate ceramics. Ceramics International, 2019, 45, 7878-7884.	4.8	6
33	Relaxation Processes in Dielectric and Electromechanical Response of PZT Thin Films Under Nanoindentation. Ferroelectrics, 2005, 318, 55-61.	0.6	4
34	Lowâ€Temperature Magnetic and Dielectric Anomalies in Rareâ€Earthâ€Substituted <scp><scp>BiFeO</scp></scp>₃ Ceramics. Journal of the American Ceramic Society, 2014, 97, 3729-3732.	3.8	4
35	Preparation and physical properties of M-type hexaferrite SrCo2Ti2Fe8O19. Ferroelectrics, 2016, 499, 1-8.	0.6	4
36	Dielectrophoretic assembly of lead zirconate titanate microtubes. Solid State Communications, 2011, 151, 1990-1993.	1.9	2

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37	Local switching behavior and electrical polarization of ferroelectric thin films under nanoindentation. Journal of the European Ceramic Society, 2007, 27, 4403-4406.	5.7	1
38	Mist Deposited Lead Zirconate Titanate Films. Ferroelectrics, 2011, 421, 23-29.	0.6	1
39	Lead zirconate titanate films prepared by liquid source misted chemical deposition. Metallic Materials, 2010, 48, 361-365.	0.3	1
40	Low-temperature spontaneous polarization. Ferroelectrics, 2000, 237, 135-143.	0.6	0
41	Dynamical anisotropic magnetoelectric effects at ferroelectric/ferromagnetic insulator interfaces. Chinese Physics B, 2019, 28, 097501.	1.4	0
42	Dynamic phase fluctuations in potential-driven Boseâ€“Einstein condensate. New Journal of Physics, 2020, 22, 013046.	2.9	0
43	Fe/MgO Powder Composite Sintered by Microwave Heating. , 0, , .		0