Tor Grande

List of Publications by Year
in descending order

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319 papers	11,694 citations	31949 53 h-index	42364 92 g-index
347 all docs	347 docs citations	347 times ranked	12223 citing authors

#	Article	IF	Citations
1	Polymorphic Phase Transitions in Liquids and Glasses. Science, 1997, 275, 322-323.	6.0	427
2	Effect of Hydrogen Bonds on the Thermodynamic Behavior of Liquid Water. Physical Review Letters, 1994, 73, 1632-1635.	2.9	409
3	Structural instability of cubic perovskite BaxSr1â^'xCo1â^'yFeyO3â^'Î´. Solid State Ionics, 2008, 178, 1787-1791.	1.3	376
4	Strain-controlled oxygen vacancy formation and ordering in CaMnO<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>. Physical Review B, 2013, 88, .	1.1	315
5	On the Thermodynamic Stability of BiFeO₃. Chemistry of Materials, 2009, 21, 169-173.	3.2	308
6	Size-Dependent Properties of Multiferroic BiFeO₃ Nanoparticles. Chemistry of Materials, 2007, 19, 6478-6484.	3.2	290
7	Oneâ€Dimensional Nanostructures of Ferroelectric Perovskites. Advanced Materials, 2011, 23, 4007-4034.	11.1	266
8	Direct observation of ferroelectric field effect andÂvacancy-controlled screening at the BiFeO3/LaxSr1â^'xMnO3 interface. Nature Materials, 2014, 13, 1019-1025.	13.3	218
9	Combustion Synthesis and Characterization of Nanocrystalline CeO2-Based Powders. Chemistry of Materials, 2004, 16, 5489-5494.	3.2	207
10	The Ferroic Phase Transitions of BiFeO₃. Advanced Materials, 2008, 20, 3692-3696.	11.1	196
11	Electronic properties of reduced molybdenum oxides. Physical Chemistry Chemical Physics, 2017, 19, 9232-9245.	1.3	171
12	Crystal Structure and Thermal Expansion of La_{1â^'x}Sr_xFeO_{3â^'Î´} Materials. Journal of the American Ceramic Society, 2004, 87, 1952-1958.	1.9	163
13	Electronic structure and magnetic properties of cubic and hexagonalSrMnO3. Physical Review B, 2006, 74, .	1.1	152
14	Synthesis of BiFeO₃ by Wet Chemical Methods. Journal of the American Ceramic Society, 2007, 90, 3430-3434.	1.9	148
15	Van der Waals density functional study of the energetics of alkali metal intercalation in graphite. RSC Advances, 2014, 4, 3973-3983.	1.7	145
16	Effects of Oxygen Mobility in Laâ€“Fe-Based Perovskites on the Catalytic Activity and Selectivity of Methane Oxidation. ACS Catalysis, 2020, 10, 3707-3719.	5.5	132
17	Densification and properties of zirconia prepared by three different sintering techniques. Ceramics International, 2007, 33, 1603-1610.	2.3	120
18	Synthesis and CO2Capture Properties of Nanocrystalline Lithium Zirconate. Chemistry of Materials, 2006, 18, 6037-6046.	3.2	116

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19	Pressureless Sintering of Titanium Diboride with Nickel, Nickel Boride, and Iron Additives. Journal of the American Ceramic Society, 1997, 80, 3013-3020.	1.9	113
20	Oxygen stoichiometry and structural properties of La1Ââ€“ÂxAxMnO3ÂÂ±ÂÎ´ (AÂ=ÂCa or Sr and 0Ââ‰ÂxÂâ‰Â1). Journal of Materials Chemistry, 2002, 12, 1058-1067.	6.7	112
21	Effect of Weight Loss on Liquidâ€Phaseâ€Sintered Silicon Carbide. Journal of the American Ceramic Society, 1997, 80, 1047-1052.	1.9	109
22	Transparent and conducting ITO thin films by spin coating of an aqueous precursor solution. Journal of Materials Chemistry, 2012, 22, 15740.	6.7	106
23	1D oxide nanostructures from chemical solutions. Chemical Society Reviews, 2014, 43, 2187-2199.	18.7	105
24	Breakdown of intermediate-range order in liquid GeSe2 at high pressure. Nature, 2001, 414, 622-625.	13.7	96
25	Structure and Properties of Multiferroic Oxygen Hyperstoichiometric BiFe_{1â^'x}Mn_xO_{3+Î´}. Chemistry of Materials, 2009, 21, 5176-5186.	3.2	95
26	Nanocrystalline Lithium Zirconate with Improved Kinetics for High-Temperature CO2Capture. Chemistry of Materials, 2006, 18, 1383-1385.	3.2	93
27	A van der Waals Density Functional Study of MoO₃ and Its Oxygen Vacancies. Journal of Physical Chemistry C, 2016, 120, 8959-8968.	1.5	91
28	Reactions between Strontiumâ€Substituted Lanthanum Manganite and Yttriaâ€Stabilized Zirconia: I, Powder Samples. Journal of the American Ceramic Society, 1999, 82, 721-728.	1.9	87
29	Hydrothermal synthesis and characterization of KNbO3 nanorods. CrystEngComm, 2009, 11, 1958.	1.3	84
30	Chemical Expansion Due to Hydration of Protonâ€Conducting Perovskite Oxide Ceramics. Journal of the American Ceramic Society, 2014, 97, 2654-2661.	1.9	84
31	Thermal and chemical expansion of mixed conducting La0.5Sr0.5Fe1â^'xCoxO3â^'Î´ materials. Solid State Ionics, 2006, 177, 1795-1798.	1.3	83
32	Self-Assembled Growth of PbTiO3Nanoparticles into Microspheres and Bur-like Structures. Chemistry of Materials, 2007, 19, 2213-2221.	3.2	80
33	Non-linear thermal evolution of the crystal structure and phase transitions of LaFeO3 investigated by high temperature X-ray diffraction. Journal of Solid State Chemistry, 2012, 196, 249-254.	1.4	80
34	Kinetic demixing and decomposition of oxygen permeable membranes. Solid State Ionics, 2006, 177, 1587-1590.	1.3	76
35	Corner- versus face-sharing octahedra inAMnO3perovskites (A=Ca, Sr, and Ba). Physical Review B, 2007, 75, .	1.1	76
36	Compositional Effects of Nanocrystalline Lithium Zirconate on Its CO₂ Capture Properties. Industrial & Engineering Chemistry Research, 2008, 47, 434-442.	1.8	74

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37	Enthalpies of Oxidation of CaMnO3-Î´, Ca2MnO4-Î´and SrMnO3-Î´Deduced Redox Properties. Chemistry of Materials, 2001, 13, 4005-4013.	3.2	73
38	Phase diagram of silica from computer simulation. Physical Review E, 2004, 70, 061507.	0.8	73
39	Amorphous polymorphism. Computational Materials Science, 1995, 4, 373-382.	1.4	72
40	Solid solubility and phase transitions in the system LaNb1â^'xTaxo4. Journal of Solid State Chemistry, 2008, 181, 2580-2585.	1.4	72
41	Anisotropic Thermal and Chemical Expansion in Sr-Substituted LaMnO_{3+Î´}: Implications for Chemical Strain Relaxation. Chemistry of Materials, 2012, 24, 338-345.	3.2	70
42	Mechanical properties of LaCoO3 based ceramics. Journal of the European Ceramic Society, 2000, 20, 51-56.	2.8	66
43	Fragility transition in GeSe2â€“Se liquids. Physical Chemistry Chemical Physics, 2002, 4, 3396-3399.	1.3	66
44	Structural and Thermal Properties of La1-xSrxCoO3-Î´. Chemistry of Materials, 2006, 18, 6047-6053.	3.2	66
45	High-Temperature Proton-Conducting Lanthanum Ortho-Niobate-Based Materials. Part II: Sintering Properties and Solubility of Alkaline Earth Oxides. Journal of the American Ceramic Society, 2008, 91, 879-886.	1.9	66
46	Diffusion of alkali metals in the first stage graphite intercalation compounds by vdW-DFT calculations. RSC Advances, 2015, 5, 15985-15992.	1.7	64
47	Development of Proton Conducting SOFCs Based on LaNbO₄ Electrolyte â€“ Status in Norway. Fuel Cells, 2011, 11, 17-25.	1.5	63
48	Luminescent properties of rare earth (Er, Yb) doped yttrium aluminium garnet thin films and bulk samples synthesised by an aqueous solâ€“gel technique. Journal of the European Ceramic Society, 2010, 30, 1707-1715.	2.8	60
49	Phase equilibria in the pseudo-binary system SrOâ€“Fe2O3. Journal of Solid State Chemistry, 2004, 177, 2933-2942.	1.4	59
50	Ferroelastic Behavior of LaCoO₃â€Based Ceramics. Journal of the American Ceramic Society, 2001, 84, 2029-2033.	1.9	57
51	Thermal and mechanical properties of LaNbO4-based ceramics. Ceramics International, 2009, 35, 2877-2883.	2.3	57
52	High-Temperature Proton-Conducting LaNbO4-Based Materials: Powder Synthesis by Spray Pyrolysis. Journal of the American Ceramic Society, 2007, 90, 3395-3400.	1.9	55
53	Electronic structure of multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mtext>BiFeO</mml:mtext></mml:mrow><mml:mn>3</mml:mn></mml:mrow> related compounds: Electron energy loss spectroscopy and density functional study. Physical Review B, 2010, 82, .	1.1	55
54	Polarization and strain response in Bi0.5K0.5TiO3-BiFeO3 ceramics. Applied Physics Letters, 2012, 101, .	1.5	54

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55	Reactions between Strontiumâ€Substituted Lanthanum Manganite and Yttriaâ€Stabilized Zirconia: II, Diffusion Couples. Journal of the American Ceramic Society, 1999, 82, 729-734.	1.9	52
56	Effect of A-Site Cation Ordering on Chemical Stability, Oxygen Stoichiometry and Electrical Conductivity in Layered LaBaCo2O5+Î´ Double Perovskite. Materials, 2016, 9, 154.	1.3	52
57	Monoclinic Ferroelastic Domains in LaCoO₃â€Based Perovskites. Advanced Materials, 2007, 19, 4399-4403.	11.1	51
58	Synthesis, structure and magnetic properties of nanocrystalline YMnO3. Dalton Transactions, 2011, 40, 7583.	1.6	51
59	Local Structure of Disordered Bi_{0.5}K_{0.5}TiO₃ Investigated by Pair Distribution Function Analysis and First-Principles Calculations. Chemistry of Materials, 2017, 29, 4244-4252.	3.2	51
60	Electronic properties of polycrystalline LaFeO. Part I: Experimental results and the qualitative role of Schottky defects. Solid State Ionics, 2005, 176, 2783-2790.	1.3	50
61	Processing of high performance composite cathodes for protonic ceramic fuel cells by exsolution. Journal of Materials Chemistry A, 2019, 7, 8609-8619.	5.2	50
62	Chemical compatibility of candidate oxide cathodes for BaZrO3 electrolytes. Solid State Ionics, 2007, 178, 593-599.	1.3	49
63	Influence of Volatile Chlorides on the Molten Salt Synthesis of Ternary Oxide Nanorods and Nanoparticles. Inorganic Chemistry, 2008, 47, 3173-3181.	1.9	49
64	Molten salt synthesis of K₄Nb₆O₁₇, K₂Nb₄O₁₁and KNb₃O₈crystals with needle- or plate-like morphology. CrystEngComm, 2011, 13, 1304-1313.	1.3	49
65	Cation Self-Diffusion in LaCoO3and La2CoO4Studied by Diffusion Couple Experiments. Journal of Physical Chemistry B, 2007, 111, 2299-2308.	1.2	48
66	High-temperature compressive creep behaviour of the perovskite-type oxide Ba0.5Sr0.5Co0.8Fe0.2O3â^’Î´. Solid State Ionics, 2009, 180, 1564-1568.	1.3	46
67	Effect of <scp>CO</scp>₂ Exposure on the Chemical Stability and Mechanical Properties of BaZrO₃â€Ceramics. Journal of the American Ceramic Society, 2016, 99, 3685-3695.	1.9	46
68	Phase transitions, electrical conductivity and chemical stability of BiFeO3 at high temperatures. Journal of Solid State Chemistry, 2010, 183, 1205-1208.	1.4	45
69	Cation diffusion in La1â^’xSrxFeO3â^’Î´, x=0 and 0.1 measured by SIMS. Solid State Ionics, 2007, 178, 907-914.	1.3	44
70	Origin of ferroelectric polarization in tetragonal tungsten-bronze-type oxides. Physical Review B, 2016, 93, .	1.1	44
71	Effect of Cation Ordering on the Performance and Chemical Stability of Layered Double Perovskite Cathodes. Materials, 2018, 11, 196.	1.3	43
72	Cation Self-Diffusion and Nonstoichiometry of Lanthanum Manganite Studied by Diffusion Couple Measurements. Journal of Physical Chemistry C, 2007, 111, 813-822.	1.5	41

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73	Microstructural characterization and electrical properties of spray pyrolyzed conventionally sintered or hot-pressed BaZrO3 and BaZr0.9Y0.1O3â^'Î´. Solid State Ionics, 2011, 182, 32-40.	1.3	41
74	Solid state sintering of nano-crystalline indium tin oxide. Journal of the European Ceramic Society, 2013, 33, 565-574.	2.8	40
75	Functionalized TiO₂ nanoparticles by single-step hydrothermal synthesis: the role of the silane coupling agents. Beilstein Journal of Nanotechnology, 2017, 8, 304-312.	1.5	40
76	Impurity diffusion of 141Pr in LaMnO3, LaCoO3 and LaFeO3 materials. Physical Chemistry Chemical Physics, 2008, 10, 6544.	1.3	39
77	Atmosphere controlled conductivity and Maxwell-Wagner relaxation in Bi0.5K0.5TiO3â€"BiFeO3 ceramics. Journal of Applied Physics, 2014, 115, .	1.1	39
78	In-situ structural investigations of ferroelasticity in soft and hard rhombohedral and tetragonal PZT. Journal of Applied Physics, 2015, 118, .	1.1	39
79	Mechanical properties of LaFeO3 ceramics. Journal of the European Ceramic Society, 2005, 25, 927-933.	2.8	38
80	Electrical conductivity and thermopower of (1 â^' x) BiFeO₃â€" xBi_{0.5}K_{0.5}TiO₃ (x = 0.1, 0.2) ceramics near the ferroelectric to paraelectric phase transition. Physical Chemistry Chemical Physics, 2015, 17, 9420-9428.	1.3	38
81	Sintering of sub-micron K 0.5 Na 0.5 NbO 3 powders fabricated by spray pyrolysis. Journal of the European Ceramic Society, 2015, 35, 1449-1457.	2.8	38
82	PbTiO₃nanorod arrays grown by self-assembly of nanocrystals. Nanotechnology, 2008, 19, 225605.	1.3	36
83	Hydrogen permeation, transport properties and microstructure of Ca-doped LaNbO4 and LaNb3O9 composites. Journal of Membrane Science, 2012, 415-416, 878-885.	4.1	36
84	Anisotropic Chemical Expansion of La_{1â€"x}Sr_xCoO_{3â^'Î´}. Chemistry of Materials, 2013, 25, 927-934.	3.2	36
85	Toughening of Y-doped BaZrO₃ proton conducting electrolytes by hydration. Journal of Materials Chemistry A, 2017, 5, 5846-5857.	5.2	36
86	Entropy of oxidation and redox energetics of CaMnO. Solid State Ionics, 2005, 176, 2261-2267.	1.3	35
87	Stress-Strain Behavior During Compression of Polycrystalline La1-xCaxCoO3 Ceramics. Journal of the American Ceramic Society, 2005, 88, 726-730.	1.9	35
88	Crystal Structure and Thermal Properties of La1-xCaxCoO3-Î´(0 â‰¤xâ‰¤ 0.4). Chemistry of Materials, 2006, 18, 1680-1687.	3.2	35
89	Chemical Degradation of Cathode Linings in Hall-HÃ©roult Cellsâ€"An Autopsy Study of Three Spent Pot Linings. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2012, 43, 290-301.	1.0	35
90	Melting of Bi Sublattice in Nanosized<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>BiFeO</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:math>Perovskite by Resonant X-Ray Diffraction. Physical Review Letters, 2010, 105, 185501.	7.9	34

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91	Anisotropic and Nonlinear Thermal and Chemical Expansion of La1â€“xSrxFeO3â^'Î´ (x = 0.3, 0.4, 0.5) Perovskite Materials. Chemistry of Materials, 2013, 25, 3296-3306.	3.2	34
92	Progression of reduction of MoO3 observed in powders and solution-processed films. Thin Solid Films, 2017, 626, 94-103.	0.8	34
93	Nitride glasses obtained by high-pressure synthesis. Nature, 1994, 369, 43-45.	13.7	33
94	Structure, Stoichiometry, and Phase Purity of Calcium Substituted Lanthanum Manganite Powders. Journal of Solid State Chemistry, 1998, 140, 320-330.	1.4	33
95	High-temperature semiconducting cubic phase ofBiFe0.7Mn0.3O3+Î´. Physical Review B, 2009, 79, .	1.1	33
96	The effect of cation non-stoichiometry in LaNbO4 materials. International Journal of Hydrogen Energy, 2012, 37, 8017-8026.	3.8	33
97	Structural Properties of GeSe2 at High Pressures. Journal of Solid State Chemistry, 1999, 145, 167-173.	1.4	32
98	Electronic properties of polycrystalline LaFeO. Part II: Defect modelling including Schottky defects. Solid State Ionics, 2005, 176, 2609-2616.	1.3	32
99	Synthesis and Characterization of Nanocrystalline YSZ Powder by Smoldering Combustion Synthesis. Journal of Nanomaterials, 2006, 2006, 1-7.	1.5	32
100	Mechanical properties of mixed conducting La0.5Sr0.5Fe1â^'x Co x O3â^'Î´ (0â‰¤xâ‰¤1) materials. Journal of Solid State Electrochemistry, 2006, 10, 635-642.	1.2	32
101	Preferential Grain Orientation in Hot Pressed TiB2. Journal of the American Ceramic Society, 2007, 90, 1339-1341.	1.9	32
102	Degradation of TiB2 ceramics in liquid aluminum. Journal of the European Ceramic Society, 2008, 28, 3155-3164.	2.8	32
103	Cation inter-diffusion between LaMnO3 and LaCoO3 materials. Solid State Ionics, 2011, 202, 6-13.	1.3	32
104	Structure, thermal expansion and electrical conductivity of Nb-substituted LaCoO3. Journal of Solid State Chemistry, 2012, 192, 246-254.	1.4	31
105	Piezoelectric <scp><scp>K</scp></scp>_{0.5}<scp><scp>Na</scp></scp>_{0.5}<scp><scp>NbO</scp></scp>₃ Ceramics Textured Using Needlelike <scp><scp>K</scp></scp>_{0.5}<scp><scp>Na</scp></scp>_{0.5}<scp><scp>NbO</scp></scp>₃ Templates. Journal of the American Ceramic Society, 2014, 97, 3818-3825.	1.9	31
106	Spectroscopic Investigations of Fluorozirconate Glasses in the Ternary Systems ZrF4â^'BaF2â^'AF (A = Na,) Tj ETQq0 0 0 rgBT /Overlock	2.9	30
107	Mechanical stability of piezoelectric properties in ferroelectric perovskites. Journal of Applied Physics, 2015, 117, .	1.1	30
108	Heat capacity and lattice dynamics of cubic and hexagonalSrMnO3: Calorimetry and density functional theory simulations. Physical Review B, 2007, 75, .	1.1	29

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109	Synthesis, densification and electrical properties of strontium cerate ceramics. Journal of the European Ceramic Society, 2007, 27, 4461-4471.	2.8	29
110	Oxygen and Hydrogen Separation Membranes Based on Dense Ceramic Conductors. Membrane Science and Technology, 2008, , 401-458.	0.5	29
111	Synthesis of KNbO₃ Nanorods by Hydrothermal Method. Journal of Nanoscience and Nanotechnology, 2009, 9, 1465-1469.	0.9	29
112	Thermal evolution of the crystal structure of proton conducting BaCe_{0.8}Y_{0.2}O_{3â^'Î´} from high-resolution neutron diffraction in dry and humid atmosphere. Dalton Transactions, 2015, 44, 10834-10846.	1.6	29
113	Sintering of LaCoO3 based ceramics. Journal of the European Ceramic Society, 2000, 20, 185-193.	2.8	28
114	Chemical compatibility of proton conducting LaNbO4 electrolyte with potential oxide cathodes. Journal of the European Ceramic Society, 2009, 29, 2823-2830.	2.8	28
115	Control of conductivity and electric field induced strain in bulk Bi0.5K0.5TiO3â€“BiFeO3 ceramics. Applied Physics Letters, 2014, 104, .	1.5	28
116	Sintering Behavior, Microstructure, and Phase Composition of Sr(Fe,Co)O_{3â^'Î´} Ceramics. Journal of the American Ceramic Society, 2000, 83, 3158-3164.	1.9	27
117	Enthalpies of Formation of La1â^'xAxMnO3Â±Î´ (A=Ca and Sr) Measured by High-Temperature Solution Calorimetry. Journal of Solid State Chemistry, 2002, 163, 186-193.	1.4	27
118	Sintering of LaFeO₃ Ceramics. Journal of the American Ceramic Society, 2000, 83, 2318-2320.	1.9	26
119	Crystal structure, chemical expansion and phase stability of HoMnO3 at high temperature. Journal of Solid State Chemistry, 2012, 196, 528-535.	1.4	26
120	Lead-Free Relaxor-Like 0.75Bi_{0.5}K_{0.5}TiO₃â€“ 0.25BiFeO₃Ceramics with Large Electric Field-Induced Strain. Ferroelectrics, 2012, 439, 88-94.	0.3	26
121	Lanthanum zirconate thermal barrier coatings deposited by spray pyrolysis. Surface and Coatings Technology, 2013, 227, 10-14.	2.2	26
122	Solidâ€State Synthesis and Properties of Relaxor (1â^'x)BKTâ€“xBNZ Ceramics. Journal of the American Ceramic Society, 2014, 97, 2928-2935.	1.9	26
123	Controlling Oriented Attachment and in Situ Functionalization of TiO₂ Nanoparticles During Hydrothermal Synthesis with APTES. Journal of Physical Chemistry C, 2017, 121, 11897-11906.	1.5	26
124	Stable and metastable phase equilibria in the GeSe2-Se system. Journal of Phase Equilibria and Diffusion, 1999, 20, 17-28.	0.3	25
125	Phase equilibria and microstructure in Sr4Fe6â^'xCoxO13 0â‰¤xâ‰¤4 mixed conductors. Solid State Ionics, 2001, 143, 367-377.	1.3	25
126	Preparation and characterisation of aluminium nitrideâ€“titanium nitride composites. Journal of the European Ceramic Society, 2004, 24, 2169-2179.	2.8	25

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127	Mass transport in La1?xSrxFeO3(x=0 and 0.1) measured by SIMS. Solid State Ionics, 2004, 175, 69-71.	1.3	25
128	Influence of processing on stability, microstructure and thermoelectric properties of Ca3Co4â^'xO9+Î´. Journal of the European Ceramic Society, 2018, 38, 1592-1599.	2.8	25
129	Dense ceramic membranes based on ion conducting oxides. Annales De Chimie: Science Des Materiaux, 2007, 32, 197-212.	0.2	25
130	Sintering of AlN Using CaOâ€Al₂O₃ as a Sintering Additive: Chemistry and Microstructural Development. Journal of the American Ceramic Society, 2002, 85, 2971-2976.	1.9	24
131	Highâ€Temperature Creep Behavior of Mixed Conducting La_{0.5}Sr_{0.5}Fe_{1â^'x}Co_xO_{3â€Î´} (0.5â‰¤xâ‰¤1) Materials. Journal of the American Ceramic Society, 2006, 89, 2895-2898.	1.9	24
132	In situ synchrotron X-ray diffraction of ferroelastic La0.8Ca0.2CoO3 ceramics during uniaxial compression. Acta Materialia, 2006, 54, 2615-2624.	3.8	24
133	Hierarchical PbTiO3 Nanostructures Grown on SrTiO3 Substrates. Crystal Growth and Design, 2009, 9, 1979-1984.	1.4	24
134	Structural Disorder and Coherence across the Phase Transitions of Lead-Free Piezoelectric Bi_{0.5}K_{0.5}TiO₃. Chemistry of Materials, 2018, 30, 2631-2640.	3.2	24
135	Structural Transformations in Three-Dimensional Crystalline GeSe2 at High Pressures and High Temperatures. Journal of Solid State Chemistry, 2000, 150, 121-127.	1.4	23
136	State-of-the-art alumino-silicate refractories for al electrolysis cells. Jom, 2002, 54, 46-55.	0.9	23
137	High temperature transport kinetics in heteroepitaxial LaFeO3 thin films. Solid-State Electronics, 2003, 47, 2279-2282.	0.8	23
138	Template-assisted synthesis of PbTiO3 nanotubes. Journal of the European Ceramic Society, 2009, 29, 2575-2579.	2.8	23
139	Structure and Optical Properties of Titania-PDMS Hybrid Nanocomposites Prepared by In Situ Non-Aqueous Synthesis. Nanomaterials, 2017, 7, 460.	1.9	23
140	Microstructure and the influence of spontaneous strain in LaCoO3, La0.8Sr0.2CoO3 and La0.8Ca0.2CoO3. Journal of Materials Science, 2000, 35, 4251-4260.	1.7	22
141	Chemical Degradation of Si₃N₄â€Bonded SiC Sidelining Materials in Aluminum Electrolysis Cells. Journal of the American Ceramic Society, 2009, 92, 1296-1302.	1.9	22
142	Synthesis of anisometric KNbO₃and K_{0.5}Na_{0.5}NbO₃single crystals by chemical conversion of non-perovskite templates. CrystEngComm, 2011, 13, 1350-1359.	1.3	22
143	Solid Solutions of Lead Metaniobateâ€"Stabilization of the Ferroelectric Polymorph and the Effect on the Lattice Parameters, Dielectric, Ferroelectric, and Piezoelectric Properties. Journal of the American Ceramic Society, 2014, 97, 220-227.	1.9	22
144	Tracer diffusion of⁹⁶Zr and¹³⁴Ba in polycrystalline BaZrO₃. Physical Chemistry Chemical Physics, 2017, 19, 21878-21886.	1.3	22

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145	High-pressure synthesis of nitride glasses. Journal of Non-Crystalline Solids, 1995, 184, 151-154.	1.5	21
146	Short-Range Order in Se-Rich Geâ€“Se Glassesâ€”An Extended X-Ray Absorption Fine Structure Study. Journal of Solid State Chemistry, 1999, 145, 253-259.	1.4	21
147	Preparation and characterisation of aluminium nitrideâ€“silicon carbide composites. Ceramics International, 2004, 30, 931-938.	2.3	21
148	Phase Relations In The Pseudo-Ternary System La2O3-SrO-Fe2O3. Journal of the American Ceramic Society, 2005, 88, 1988-1991.	1.9	21
149	TEM observations of rhombohedral and monoclinic domains in LaCoO₃-based ceramics. Philosophical Magazine, 2008, 88, 1187-1208.	0.7	21
150	Surface reactivity and cation non-stoichiometry in BaZr_{1â^'x}Y_xO_{3â^'Î´} (x = 0â€“0.2) exposed to CO₂ at elevated temperature. Journal of Materials Chemistry A, 2019, 7, 3848-3856.	5.2	21
151	Decomposition and Crystallization of a Sol?Gel-Derived PbTiO3Precursor. Journal of the American Ceramic Society, 2007, 90, 2649-2652.	1.9	20
152	Cohesive zone modeling of grain boundary microcracking induced by thermal anisotropy in titanium diboride ceramics. Computational Materials Science, 2008, 43, 440-449.	1.4	20
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