E Andrew Payzant

List of Publications by Year
in descending order

183	8,031	53751	54882
papers	citations	45 h-index	84 g-index

198	198	198	10709
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Consumable development to tailor residual stress in parts fabricated using directed energy deposition processes. Additive Manufacturing, 2021, 39, 101837.	1.7	4
2	Quantitative texture analysis using the NOMAD time-of-flight neutron diffractometer. Journal of Applied Crystallography, 2021, 54, 867-877.	1.9	4
3	Neutron diffraction illustrates residual stress behavior of welded alloys used as radioactive confinement boundary. International Journal of Pressure Vessels and Piping, 2021, 191, 104348.	1.2	4
4	Effective residual stress prediction validated with neutron diffraction method for metal large-scale additive manufacturing. Materials and Design, 2021, 205, 109751.	3.3	33
5	Mapping of Texture and Phase Fractions in Heterogeneous Stress States during Multiaxial Loading of Biomedical Superelastic NiTi. Advanced Materials, 2021, 33, e2005092.	11.1	7
6	Doping-driven electronic and lattice dynamics in the phase-change material vanadium dioxide. Physical Review B, 2020, 102, .	1.1	8
7	Experimental determination of precision, resolution, accuracy and trueness of time-of-flight neutron diffraction strain measurements. Journal of Applied Crystallography, 2020, 53, 494-511.	1.9	5
8	Probing orientation information using 3-dimensional reciprocal space volume analysis. Review of Scientific Instruments, 2019, 90, 013902.	0.6	5
9	Current capabilities of the residual stress diffractometer at the high flux isotope reactor. Review of Scientific Instruments, 2018, 89, 092804.	0.6	28
10	â€¢Exploring the Cooling Process for Residual Stress Reduction in Dissimilar Welds. Welding Journal, 2018, 97, 315-325.	0.9	5
11	Study on the residual stress relaxation in girth-welded steel pipes under bending load using diffraction methods. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 688, 289-300.	2.6	20
12	Path length dependent neutron diffraction peak shifts observed during residual strain measurements in Uâ€“8â€…wt% Mo castings. Journal of Applied Crystallography, 2017, 50, 851-858.	1.9	1
13	Non-congruence of high-temperature mechanical and structural behaviors of LaCoO3 based perovskites. Journal of the European Ceramic Society, 2017, 37, 1563-1576.	2.8	10
14	Resolving the degradation pathways in high-voltage oxides for high-energy-density lithium-ion batteries; Alternation in chemistry, composition and crystal structures. Nano Energy, 2017, 36, 76-84.	8.2	30
15	Degradation and onset of plastic anisotropy in marine aluminum alloy due to fire exposure by bulk neutron diffraction and in situ loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017, 700, 583-591.	2.6	1
16	Residual Stress Analysis in Girth-welded Ferritic and Austenitic Steel Pipes Using Neutron and X-Ray Diffraction. , 2017, , .		2
17	Tensile Residual Stress Mitigation Using Low Temperature Phase Transformation Filler Wire in Welded Armor Plates. , 2017, , .		2
18	Neutron and X-ray powder diffraction study of skutterudite thermoelectrics. Powder Diffraction, 2016, 31, 16-22.	0.4	1

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19	Anisotropic storage medium development in a full-scale, sodium alanate-based, hydrogen storage system. International Journal of Hydrogen Energy, 2016, 41, 13557-13574.	3.8	4
20	Structural and magnetic phase transitions in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>CeCu</mml:mi><mml:mrow><mml:mn>6</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>-xAux		

#	Article	IF	Citations
37	Correlating cation ordering and voltage fade in a lithiumâ€“manganese-rich lithium-ion battery cathode oxide: a joint magnetic susceptibility and TEM study. Physical Chemistry Chemical Physics, 2013, 15, 19496.	1.3	108
38	Effect of Na-doped Mo on selenization pathways for CuGa/In metallic precursors. , 2013, , .		1
39	Solvent quality-induced nucleation and growth of parallelepiped nanorods in dilute poly(3-hexylthiophene) (P3HT) solution and the impact on the crystalline morphology of solution-cast thin film. CrystEngComm, 2013, 15, 1114-1124.	1.3	51
40	Structural transformation of a lithium-rich Li1.2Co0.1Mn0.55Ni0.15O2 cathode during high voltage cycling resolved by in situ X-ray diffraction. Journal of Power Sources, 2013, 229, 239-248.	4.0	472
41	Anomalous High Ionic Conductivity of Nanoporous Î²-Li₃PS₄. Journal of the American Chemical Society, 2013, 135, 975-978.	6.6	709
42	Characterization and analyses of degradation and recovery of LaNi4.78Sn0.22 hydrides following thermal aging. Journal of Alloys and Compounds, 2013, 580, S207-S210.	2.8	12
43	Surface-Induced Orientation Control of CuPc Molecules for the Epitaxial Growth of Highly Ordered Organic Crystals on Graphene. Journal of the American Chemical Society, 2013, 135, 3680-3687.	6.6	125
44	Kinetics of Methane Hydrate Decomposition Studied via in Situ Low Temperature X-ray Powder Diffraction. Journal of Physical Chemistry A, 2013, 117, 3593-3598.	1.1	25
45	Aromatic Polythiourea Dielectrics with Ultrahigh Breakdown Field Strength, Low Dielectric Loss, and High Electric Energy Density. Advanced Materials, 2013, 25, 1734-1738.	11.1	285
46	Structural transformation in a Li1.2Co0.1Mn0.55Ni0.15O2 lithium-ion battery cathode during high-voltage hold. RSC Advances, 2013, 3, 7479.	1.7	44
47	Investigating phase transformation in the Li1.2Co0.1Mn0.55Ni0.15O2 lithium-ion battery cathode during high-voltage hold (4.5 V) via magnetic, X-ray diffraction and electron microscopy studies. Journal of Materials Chemistry A, 2013, 1, 6249.	5.2	125
48	Sustainable Mesoporous Carbons as Storage and Controlled-Delivery Media for Functional Molecules. ACS Applied Materials & Interfaces, 2013, 5, 5868-5874.	4.0	75
49	Synthesis, Annealing, and Performances of Pdâ€“Au Asymmetric Composite Membranes for Hydrogen Purification. Industrial & Engineering Chemistry Research, 2013, 52, 8732-8744.	1.8	9
50	X-Ray Diffraction Studies of Forward and Reverse Plastic Flow in Nanoscale Layers During Thermal Cycling. Materials Research Letters, 2013, 1, 233-243.	4.1	11
51	Aromatic Polythiourea with Ultrahigh Breakdown Strength for High Energy Density and Low Loss Capacitor Applications. Materials Research Society Symposia Proceedings, 2013, 1499, 1.	0.1	0
52	Investigation of Crystallization Processes from Hafnium Silicate Powders Prepared from an Oxychloride Solâ€Gel. Journal of the American Ceramic Society, 2012, 95, 3985-3991.	1.9	4
53	Device degradation studies of CIGS solar cells using in-situ high temperature X-ray diffraction. , 2012, , .		1
54	Understanding the Metal-Directed Growth of Single-Crystal M-TCNQF₄ Organic Nanowires with Time-Resolved, in Situ X-ray Diffraction and First-Principles Theoretical Studies. Journal of the American Chemical Society, 2012, 134, 14353-14361.	6.6	17

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55	Non-congruence of thermally driven structural and electronic transitions in VO2. Journal of Applied Physics, 2012, 112, .	1.1	43
56	The temperature dependence of thermal expansion for p-type Ce_{0.9}Fe_{3.5}Co_{0.5}Sb₁₂and n-type Co_{0.95}Pd_{0.05}Te_{0.05}Sb₃skutterudite thermoelectric materials. Philosophical Magazine, 2012, 92, 1261-1286.	0.7	16
57	Reaction routes for the synthesis of CuInSe₂ using bilayer compound precursors. Progress in Photovoltaics: Research and Applications, 2012, 20, 543-556.	4.4	7
58	A Topotactic Synthetic Methodology for Highly Fluorineâ€Doped Mesoporous Metal Oxides. Angewandte Chemie - International Edition, 2012, 51, 2888-2893.	7.2	13
59	Structural and magnetic analysis of nanocrystalline lead europium sulfide (PbxEuyS). Materials Chemistry and Physics, 2012, 134, 1-6.	2.0	4
60	Synthesis of silica supported AuCu nanoparticle catalysts and the effects of pretreatment conditions for the CO oxidation reaction. Physical Chemistry Chemical Physics, 2011, 13, 2571.	1.3	92
61	Synthesis of CIGS absorber layers from bilayer metal precursors. , 2011, , .		1
62	Combined in situXRD and in situXANES studies on the reduction behavior of a rhenium promoted cobaltcatalyst. Physical Chemistry Chemical Physics, 2011, 13, 14735.	1.3	24
63	Size-Dependent Crystalline to Amorphous Uphill Phase Transformation of Hydroxyapatite Nanoparticles. Crystal Growth and Design, 2011, 11, 45-52.	1.4	16
64	High-temperature order/disorder transition in the thermoelectric Cu₃SbSe₃. Journal of Materials Research, 2011, 26, 2001-2005.	1.2	27
65	Effects of Growth Temperature on Epitaxial Thin Films of Vanadium Dioxide Grown by Pulsed Laser Deposition. , 2011, , .		0
66	Characterization of Hafnia Powder Prepared from an Oxychloride Solâ€“Gel. Journal of the American Ceramic Society, 2011, 94, 886-894.	1.9	5
67	Effect of Laser Sintering on Tiâ€“ZrB₂ Mixtures. Journal of the American Ceramic Society, 2011, 94, 3282-3285.	1.9	7
68	Influence of zeolite crystal expansion/contraction on NaA zeolite membrane separations. Journal of Membrane Science, 2011, 366, 413-420.	4.1	48
69	Elevated-Temperature Mechanical Behavior of As-Cast and Wrought Ti-6Al-4V-1B. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 3046-3061.	1.1	18
70	Probing Local and Global Ferroelectric Phase Stability and Polarization Switching in Ordered Macroporous PZT. Advanced Functional Materials, 2011, 21, 941-947.	7.8	23
71	Ferroelectric Materials: Probing Local and Global Ferroelectric Phase Stability and Polarization Switching in Ordered Macroporous PZT (Adv. Funct. Mater. 5/2011). Advanced Functional Materials, 2011, 21, 802-802.	7.8	1
72	PSâ€bâ€P3HT Copolymers as P3HT/PCBM Interfacial Compatibilizers for High Efficiency Photovoltaics. Advanced Materials, 2011, 23, 5529-5535.	11.1	110

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73	Extremely Durable Highâ€Rate Capability of a LiNi_{0.4}Mn_{0.4}Co_{0.2}O₂ Cathode Enabled with Singleâ€Walled Carbon Nanotubes. Advanced Energy Materials, 2011, 1, 58-62.	10.2	74
74	Impact of dopants on the sulfation, desulfation and NOx reduction performance of Ba-based NOx storage-reduction catalystsâ˜†. Catalysis Today, 2011, 160, 131-136.	2.2	6
75	High-growth rate YSZ thermal barrier coatings deposited by MOCVD demonstrate high thermal cycling lifetime. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 978-985.	2.6	14
76	Structure and magnetic order in the series BixRE1â^'xFe0.5Mn0.5O3 (RE=La,Nd). Journal of Solid State Chemistry, 2011, 184, 830-842.	1.4	16
77	Enhanced performance of room-temperature-grown epitaxial thin films of vanadium dioxide. Applied Physics Letters, 2011, 98, 251916.	1.5	47
78	Isothermal solidâ€state transformation kinetics applied to Pd/Cu alloy membrane fabrication. AICHE Journal, 2010, 56, 3062-3073.	1.8	19
79	Influence of crystal expansion/contraction on zeolite membrane permeation. Journal of Membrane Science, 2010, 357, 98-104.	4.1	25
80	Mechanical behavior and electrical conductivity of La1â^'xCaxCoO3 (x=0, 0.2, 0.4, 0.55) perovskites. Journal of Power Sources, 2010, 195, 3612-3620.	4.0	27
81	The effect of processing on the 455Â°C tensile and fatigue behavior of boron-modified Tiâ€“6Alâ€“4V. International Journal of Fatigue, 2010, 32, 627-638.	2.8	47
82	Organo-montmorillonite barrier layers formed by combustion: Nanostructure and permeability. Applied Clay Science, 2010, 49, 213-223.	2.6	7
83	Reaction kinetics and pathways of MoSe<inf>2</inf>. , 2010, , .		2
84	Metastable Copperâ€Phthalocyanine Singleâ€Crystal Nanowires and Their Use in Fabricating Highâ€Performance Fieldâ€Effect Transistors. Advanced Functional Materials, 2009, 19, 3776-3780.	7.8	81
85	The effects of fabrication and annealing on the structure and hydrogen permeation of Pdâ€“Au binary alloy membranes. Journal of Membrane Science, 2009, 340, 227-233.	4.1	56
86	Mechanical behavior of La0.8Sr0.2Ga0.8Mg0.2O3 perovskites. Ceramics International, 2009, 35, 1235-1241.	2.3	19
87	MOCVD of YSZ coatings using Î²-diketonate precursors. Journal of Alloys and Compounds, 2009, 470, 354-359.	2.8	14
88	Other Topics. , 2009, , 365-380.		3
89	Thermal and mechanical properties of LaCoO3 and La0.8Ca0.2CoO3 perovskites. Journal of Power Sources, 2008, 182, 230-239.	4.0	40
90	Thermal, mechanical and phase stability of LaCoO3 in reducing and oxidizing environments. Journal of Power Sources, 2008, 184, 77-83.	4.0	46

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91	Thermodynamic analysis and growth of ZrO2 by chloride chemical vapor deposition. Thin Solid Films, 2008, 516, 6133-6139.	0.8	12
92	Synthesis of RE(OH)2Cl and REOCl (RE=Eu, Tb) nanostructures. Journal of Rare Earths, 2008, 26, 131-135.	2.5	11
93	Consecutive Nucleation Events During Divetrification of Zr_{52.5}Cu_{17.9}Ni_{14.6}Al₁₀Ti₅ Bulk Metallic Glass. Advanced Engineering Materials, 2008, 10, 1043-1047.	1.6	5
94	Reaction kinetics of CuGaSe2 formation from a GaSe/CuSe bilayer precursor film. Journal of Crystal Growth, 2008, 310, 2987-2994.	0.7	33
95	Isothermal nucleation and growth kinetics of Pd/Ag alloy phase via in situ time-resolved high-temperature X-ray diffraction (HTXRD) analysis. Journal of Membrane Science, 2008, 316, 97-111.	4.1	31
96	An Oxide Ion and Proton Co-Ion Conducting Sn[sub 0.9]In[sub 0.1]P[sub 2]O[sub 7] Electrolyte for Intermediate-Temperature Fuel Cells. Journal of the Electrochemical Society, 2008, 155, B1264.	1.3	50
97	Phase transitions in LaFeAsO: Structural, magnetic, elastic, and transport properties, heat capacity and MÃ¶ssbauer spectra. Physical Review B, 2008, 78, .	1.1	284
98	Synthesis, Symmetry, and Physical Properties of Cerium Pyrophosphate. Chemistry of Materials, 2008, 20, 3728-3734.	3.2	32
99	Development of Novel Polycrystalline Ceramic Scintillators. IEEE Transactions on Nuclear Science, 2008, 55, 1501-1508.	1.2	41
100	Design strategies for oxidation-resistant intermetallic and advanced metallic alloys. , 2008, , 3-18.		0
101	Three-Dimensional Magnetic Correlations in Multiferroic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>LuFe</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mi2.9 mathvariant="normal">O</mml:mi><mml:mn>4</mml:mn></mml:msub></mml:math>. Physical Review Letters, 2008, 100, 157601.		130
102	Elaboration on the hexagonal grid and spiral trace schemes for pole figure data collection. Powder Diffraction, 2008, 23, 87-91.	0.4	3
103	Creep-Resistant, Al2O3-Forming Austenitic Stainless Steels. Science, 2007, 316, 433-436.	6.0	337
104	In situ high pressure XRD study on hydrogen uptake behavior of Pd-carbon systems. Materials Research Society Symposia Proceedings, 2007, 1042, 1.	0.1	0
105	In situ investigation of the selenization kinetics of Cuâ€“Ga precursors using time-resolved high-temperature X-ray diffraction. Thin Solid Films, 2007, 515, 5837-5842.	0.8	22
106	Protective nitride formation on stainless steel alloys for proton exchange membrane fuel cell bipolar plates. Journal of Power Sources, 2007, 174, 228-236.	4.0	45
107	Fatigue-Property Enhancement of Magnesium Alloy, AZ31B, through Equal-Channel-Angular Pressing. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2007, 38, 2283-2289.	1.1	24
108	Comparison of High Temperature Crystal Lattice and Bulk Thermal Expansion Measurements of LGT Single Crystal. , 2006, , .		18

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109	Microstrains and Stresses Analysis in Electroless Deposited Thin Pd Films. Industrial & Engineering Chemistry Research, 2006, 45, 8145-8153.	1.8	27
110	Tensile and Compressive Creep Behavior of Magnesium Die Casting Alloys Containing Aluminum. , 2006, , 685-692.		4
111	In situ investigation on selenization kinetics of Cuâ€“In precursor using time-resolved, high temperature X-ray diffraction. Journal of Crystal Growth, 2006, 294, 231-235.	0.7	53
112	Nanocrystalline BaTiO3 powder via a sol process ambient conditions. Journal of the European Ceramic Society, 2006, 26, 2319-2326.	2.8	26
113	In-situ Observation of Selenization of Cu-Ga-In Metallic Precursors. , 2006, , .		3
114	Growth and characterization of chromium oxide thin films prepared by reactive ac magnetron sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1870-1877.	0.9	15
115	Preparation and thermal expansion of with the cubic ZrP2O7 structure. Journal of Solid State Chemistry, 2005, 178, 3541-3546.	1.4	15
116	Reaction kinetics of Î±-CuInSe2 formation from an In2Se3/CuSe bilayer precursor film. Journal of Physics and Chemistry of Solids, 2005, 66, 1915-1919.	1.9	46
117	Crystal growth of B12As2 on SiC substrate by CVD method. Journal of Crystal Growth, 2005, 273, 431-438.	0.7	26
118	Processing of YSZ thin films on dense and porous substrates. Surface and Coatings Technology, 2005, 200, 1242-1247.	2.2	25
119	Effect of strain path on texture and annealing microstructure development in bulk pure copper processed by simple shear. Acta Materialia, 2005, 53, 801-810.	3.8	66
120	Electrical Conductivity of the Manganese Chromite Spinel Solid Solution. Journal of the American Ceramic Society, 2005, 88, 1050-1053.	1.9	110
121	Formation of YSZ-SDC Solid Solution in a Nanocrystalline Heterophase System and Its Effect on the Electrical Conductivity. Journal of the American Ceramic Society, 2005, 88, 1812-1818.	1.9	41
122	Characterization of the Piezoelectric Properties of Pb_{0.98}Ba_{0.02}(Mg_{1/3}Nb_{2/3})O₃â€“PbTiO₃ Epitaxial Thin Films. International Journal of Applied Ceramic Technology, 2005, 2, 51-58.	1.1	20
123	Coating and near-surface modification design strategies for protective and functional surfaces. Materials and Corrosion - Werkstoffe Und Korrosion, 2005, 56, 748-755.	0.8	13
124	Solution Deposition Approach to High<tex>$rm J_rm c$</tex>Coated Conductor Fabrication. IEEE Transactions on Applied Superconductivity, 2005, 15, 2974-2976.	1.1	12
125	Reaction kinetics of CuInSe2 thin films grown from bilayer InSe/CuSe precursors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 310-315.	0.9	44
126	Size effects in PbTiO3 nanocrystals: Effect of particle size on spontaneous polarization and strains. Journal of Applied Physics, 2005, 97, 084305.	1.1	66

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127	Assessment of Chemical Solution Synthesis and Properties of Gd2Zr2O7 Thin Films as Buffer Layers for Second-Generation High-Temperature Superconductor Wires. Journal of Materials Research, 2005, 20, 2988-2996.	1.2	20
128	Sublimation Growth of Aluminum Nitride-Silicon Carbide Alloy Crystals on SiC (0001) Substrates. Materials Research Society Symposia Proceedings, 2004, 831, 347.	0.1	3
129	Chemical solution deposition of lanthanum zirconate barrier layers applied to low-cost coated-conductor fabrication. Journal of Materials Research, 2004, 19, 2117-2123.	1.2	44
130	Development of Proton Conductors Using Pyrochlore-Perovskite Phase Boundaries. Journal of Materials Engineering and Performance, 2004, 13, 303-308.	1.2	13
131	Oxidation Behavior of Cr₂N, CrNbN, and CrTaN Phase Mixtures Formed on Nitrided Cr and Laves-Reinforced Cr Alloys. Oxidation of Metals, 2004, 61, 379-401.	1.0	24
132	Structural Effects on the High Temperature Adsorption of CO2on a Synthetic Hydrotalcite. Chemistry of Materials, 2004, 16, 4135-4143.	3.2	186
133	Formation of Cadmium Sulfide Nanoparticles in Reverse Micelles:Â Extreme Sensitivity to Preparation Procedure. Langmuir, 2004, 20, 5642-5644.	1.6	31
134	Controlling the thermal expansion anisotropy of Mo5Si3 and Ti5Si3 silicides. Intermetallics, 2004, 12, 845-850.	1.8	45
135	Synthesis of Ternary Nitrides from Intermetallic Precursors:â€‰ Modes of Nitridation in Model Cr3Pt Alloys To Form Cr3PtN Antiperovskite and Application to Other Systems. Chemistry of Materials, 2004, 16, 1984-1990.	3.2	12
136	D-89 In-Situ HTXRD Characterization for Thin Films. Powder Diffraction, 2004, 19, 195-195.	0.4	0
137	Mechanism of nanocrystalline BaTiO3 particle formation by hydrothermal refluxing synthesis. Journal of Materials Science: Materials in Electronics, 2003, 14, 495-500.	1.1	20
138	Title is missing!. Journal of Materials Science, 2003, 38, 3831-3844.	1.7	13
139	Title is missing!. Journal of Materials Science, 2003, 38, 979-985.	1.7	21
140	Synthesis of nanocrystalline BaTiO3 by solvent refluxing method. Journal of Materials Science Letters, 2003, 22, 557-559.	0.5	12
141	MOD approach for the growth of epitaxial CeO2buffer layers on biaxially textured Niâ€“W substrates for YBCO coated conductors. Superconductor Science and Technology, 2003, 16, 1305-1309.	1.8	123
142	Kinetics of the cubic to trigonal transformation in ZrMo2O8 and their dependence on precursor chemistry. Journal of Materials Chemistry, 2002, 12, 990-994.	6.7	20
143	Thermal expansion anisotropy of ternary molybdenum silicides based onMo5Si3. Physical Review B, 2002, 65, .	1.1	30
144	Dimensional changes and creep of silica core ceramics used in investment casting of superalloys. Journal of Materials Science, 2002, 37, 4235-4245.	1.7	90

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145	Properties of Ionicâ€Conducting Î²â€Bi₂O₃ Containing Mixed Dopants. Journal of the American Ceramic Society, 2002, 85, 2633-2636.	1.9	6
146	Grain Growth in Nanocrystalline Yttrium-Stabilized Zirconia Thin Films Synthesized by Spin Coating of Polymeric Precursors. Journal of Nanoscience and Nanotechnology, 2002, 2, 161-169.	0.9	13
147	Preparation of the negative thermal expansion material cubic ZrMo2O8. Journal of Materials Chemistry, 2001, 11, 3354-3359.	6.7	65
148	In-situ characterization of Î³/Î³â€² lattice stability in a nickel-base superalloy by neutron diffraction. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2001, 32, 1551-1552.	1.1	4
149	In situ high-temperature X-ray diffraction studies of mixed-conducting perovskite-type oxides. Journal of Materials Science Letters, 2001, 20, 1631-1633.	0.5	4
150	Thermal Decomposition of Zircon Refractories. Journal of the American Ceramic Society, 2001, 84, 2930-2936.	1.9	46
151	Error Corrections For X-RAY Powder Diffractometry. Canadian Metallurgical Quarterly, 2001, 40, 385-394.	0.4	17
152	Templated growth of a complex nitride island dispersion through an internal nitridation reaction. Journal of Materials Research, 2001, 16, 2784-2787.	1.2	11
153	Solâ€“Gel and Ultrafine Particle Formation via Dielectric Tuning of Inorganic Saltâ€“Alcoholâ€“Water Solutions. Journal of Colloid and Interface Science, 2000, 222, 20-36.	5.0	73
154	Template-removal-associated microstructural development of porous-ceramic-supported MFI zeolite membranes. Microporous and Mesoporous Materials, 2000, 34, 241-253.	2.2	230
155	Wet-chemical synthesis of monodispersed barium titanate particles â€" hydrothermal conversion of TiO2 microspheres to nanocrystalline BaTiO3. Powder Technology, 2000, 110, 2-14.	2.1	101
156	Title is missing!. Journal of Materials Science, 2000, 35, 2927-2936.	1.7	57
157	Thermal properties of Ti3SiC2. Journal of Physics and Chemistry of Solids, 1999, 60, 429-439.	1.9	315
158	Nanocrystallization and Phase Transformation in Monodispersed Ultrafine Zirconia Particles from Various Homogeneous Precipitation Methods. Journal of the American Ceramic Society, 1999, 82, 2313-2320.	1.9	108
159	Perovskite-related ZrO2-doped SrCo0.4 Fe0.6O3-Î´ membrane for oxygen permeation. AICHE Journal, 1999, 45, 276-284.	1.8	56
160	Structure-property relations in mesoscopic BaTiO₃and PbTiO₃. Ferroelectrics, 1999, 223, 11-18.	0.3	27
161	Engineering applications of neutron scattering at the high flux isotope reactor. Neutron News, 1999, 10, 26-30.	0.1	3
162	Comparison of Oxygen Permeability and Stability of Perovskite Type La0.2A0.8Co0.2Fe0.8O3-Î´(A = Sr, Ba,) Tj ETQq0 0 0 rgBT /Overlock	1.8	90

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163	<title>Infrared imaging of temperature distribution in a high-temperature x-ray diffraction furnace</title>. , 1999, 3700, 377.		2
164	Epitaxial growth of Cu(111) films on Si(110) by magnetron sputtering: orientation and twin growth. Thin Solid Films, 1998, 315, 13-16.	0.8	41
165	Residual stresses and microstructure of H13 steel formed by combining two different direct fabrication methods. Scripta Materialia, 1998, 39, 1471-1476.	2.6	29
166	Texture formation in bulk iron processed by simple shear. Scripta Materialia, 1998, 39, 1699-1704.	2.6	63
167	High temperature phase transformation in rhombohedral bismuth strontium oxide. Thermochimica Acta, 1998, 318, 45-50.	1.2	2
168	Measurement of the electrostrictive coefficients of modified lead magnesium niobate using neutron powder diffraction. Applied Physics Letters, 1998, 72, 1042-1044.	1.5	17
169	Magnetic and structural properties of epitaxially grown FeTaN thin films. Journal of Applied Physics, 1998, 83, 5955-5966.	1.1	33
170	Epitaxial growth of Cu on Si by magnetron sputtering. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 3376-3383.	0.9	63
171	Experimental determination of the residual stresses in a spiral weld overlay tube. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1997, 232, 31-38.	2.6	23
172	X-ray and neutron diffraction strain measurement developments at ORNL. Acta Crystallographica Section A: Foundations and Advances, 1996, 52, C369-C369.	0.3	0
173	Suppression of the phase transformation of ZrO2 and PSZ in colloidally processed zirconia-alumina composites. Journal of Materials Science Letters, 1995, 14, 1135-1137.	0.5	0
174	Critical current density of La1.85Sr0.15Cu1-yVyO4- deltaceramics. Superconductor Science and Technology, 1995, 8, 883-886.	1.8	2
175	Low Temperature Attachment for X-ray Powder Diffractometry. , 1994, , 457-463.		1
176	An Experimental Evaluation of Computational Methods for Determining Lattice Parameters Using Bragg-Brentano Powder Diffractometry. , 1994, , 87-93.		0
177	Magnetic field induced texture during KCl flux synthesis of strontium hexaferrite. Journal of Magnetism and Magnetic Materials, 1993, 124, 9-14.	1.0	3
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179	Disposable Heater Strips for High Temperature Powder Diffractometer Furnaces. , 1993, , 433-437.		0
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