

E Andrew Payzant

List of Publications by Year in descending order

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papers

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53751

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198
all docs

198
docs citations

198
times ranked

10709
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous High Ionic Conductivity of Nanoporous Li_3PS_4 . Journal of the American Chemical Society, 2013, 135, 975-978.	6.6	709
2	Structural transformation of a lithium-rich $\text{Li}_{1.2}\text{Co}_0.1\text{Mn}_{0.55}\text{Ni}_{0.15}\text{O}_2$ cathode during high voltage cycling resolved by in situ X-ray diffraction. Journal of Power Sources, 2013, 229, 239-248.	4.0	472
3	Creep-Resistant, Al_2O_3 -Forming Austenitic Stainless Steels. Science, 2007, 316, 433-436.	6.0	337
4	Thermal properties of Ti_3SiC_2 . Journal of Physics and Chemistry of Solids, 1999, 60, 429-439.	1.9	315
5	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
6	Phase transitions in LaFeAsO : Structural, magnetic, elastic, and transport properties, heat capacity and Mössbauer spectra. Physical Review B, 2008, 78, .	1.1	284
7	Unraveling the Voltage-Fade Mechanism in High-Energy-Density Lithium-Ion Batteries: Origin of the Tetrahedral Cations for Spinel Conversion. Chemistry of Materials, 2014, 26, 6272-6280.	3.2	236
8	Template-removal-associated microstructural development of porous-ceramic-supported MFI zeolite membranes. Microporous and Mesoporous Materials, 2000, 34, 241-253.	2.2	230
9	Comparison of Residual Stresses in Inconel 718 Simple Parts Made by Electron Beam Melting and Direct Laser Metal Sintering. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 1419-1432.	1.1	220
10	Structural Effects on the High Temperature Adsorption of CO_2 on a Synthetic Hydrotalcite. Chemistry of Materials, 2004, 16, 4135-4143.	3.2	186
11	Three-Dimensional Magnetic Correlations in Multiferroic LuFe_2O_7 . Physical Review Letters, 2008, 100, 107601.		130
12	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
13	Investigating phase transformation in the $\text{Li}_{1.2}\text{Co}_0.1\text{Mn}_{0.55}\text{Ni}_{0.15}\text{O}_2$ 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
14	MOD approach for the growth of epitaxial CeO_2 buffer layers on biaxially textured Ni-W substrates for YBCO coated conductors. Superconductor Science and Technology, 2003, 16, 1305-1309.	1.8	123
15	Electrical Conductivity of the Manganese Chromite Spinel Solid Solution. Journal of the American Ceramic Society, 2005, 88, 1050-1053.	1.9	110
16	$\text{PS-}b\text{-P3HT}$ Copolymers as P3HT/PCBM Interfacial Compatibilizers for High Efficiency Photovoltaics. Advanced Materials, 2011, 23, 5529-5535.	11.1	110
17	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
18	Correlating cation ordering and voltage fade in a lithium-manganese-rich lithium-ion battery cathode oxide: a joint magnetic susceptibility and TEM study. Physical Chemistry Chemical Physics, 2013, 15, 19496.	1.3	108

#	ARTICLE	IF	CITATIONS
19	Wet-chemical synthesis of monodispersed barium titanate particles and hydrothermal conversion of TiO ₂ microspheres to nanocrystalline BaTiO ₃ . Powder Technology, 2000, 110, 2-14.	2.1	101
20	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
21	Comparison of Oxygen Permeability and Stability of Perovskite Type La _{0.2} A _{0.8} Co _{0.2} Fe _{0.8} O _{3-δ} (A = Sr, Ba, Tj) ETQq1.1 0.784314 rgBT	1.8	90
22	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
23	Neutron Diffraction and Magnetic Susceptibility Studies on a High-Voltage Li _{1.2} Mn _{0.55} Ni _{0.15} Co _{0.10} O ₂ Lithium Ion Battery Cathode: Insight into the Crystal Structure. Chemistry of Materials, 2013, 25, 4064-4070.	3.2	89
24	Metastable Copper-Phthalocyanine Single-Crystal Nanowires and Their Use in Fabricating High-Performance Field-Effect Transistors. Advanced Functional Materials, 2009, 19, 3776-3780.	7.8	81
25	Sustainable Mesoporous Carbons as Storage and Controlled-Delivery Media for Functional Molecules. ACS Applied Materials & Interfaces, 2013, 5, 5868-5874.	4.0	75
26	Extremely Durable High-Rate Capability of a LiNi _{0.4} Mn _{0.4} Co _{0.2} O ₂ Cathode Enabled with Single-Walled Carbon Nanotubes. Advanced Energy Materials, 2011, 1, 58-62.	10.2	74
27	Sol-Gel and Ultrafine Particle Formation via Dielectric Tuning of Inorganic Salt-Alcohol-Water Solutions. Journal of Colloid and Interface Science, 2000, 222, 20-36.	5.0	73
28	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
29	Size effects in PbTiO ₃ nanocrystals: Effect of particle size on spontaneous polarization and strains. Journal of Applied Physics, 2005, 97, 084305.	1.1	66
30	Preparation of the negative thermal expansion material cubic ZrMo ₂ O ₈ . Journal of Materials Chemistry, 2001, 11, 3354-3359.	6.7	65
31	A comparative study of phosphoric acid-doped <i>m</i> -PBI membranes. Journal of Polymer Science, Part B: Polymer Physics, 2014, 52, 26-35.	2.4	65
32	Texture formation in bulk iron processed by simple shear. Scripta Materialia, 1998, 39, 1699-1704.	2.6	63
33	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
34	Title is missing!. Journal of Materials Science, 2000, 35, 2927-2936.	1.7	57
35	Perovskite-related ZrO ₂ -doped SrCo _{0.4} Fe _{0.6} O _{3-δ} membrane for oxygen permeation. AIChE Journal, 1999, 45, 276-284.	1.8	56
36	The effects of fabrication and annealing on the structure and hydrogen permeation of Pd-Au binary alloy membranes. Journal of Membrane Science, 2009, 340, 227-233.	4.1	56

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37	In situ investigation on selenization kinetics of Cu ²⁺ In precursor using time-resolved, high temperature X-ray diffraction. <i>Journal of Crystal Growth</i> , 2006, 294, 231-235.	0.7	53
38	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. <i>CrystEngComm</i> , 2013, 15, 1114-1124.	1.3	51
39	An Oxide Ion and Proton Co-Ion Conducting Sn _{0.9} In _{0.1} P ₂ O ₇ Electrolyte for Intermediate-Temperature Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2008, 155, B1264.	1.3	50
40	Advanced surface and microstructural characterization of natural graphite anodes for lithium ion batteries. <i>Carbon</i> , 2014, 72, 393-401.	5.4	50
41	Influence of zeolite crystal expansion/contraction on NaA zeolite membrane separations. <i>Journal of Membrane Science</i> , 2011, 366, 413-420.	4.1	48
42	The effect of processing on the 455°C tensile and fatigue behavior of boron-modified Ti-6Al-4V. <i>International Journal of Fatigue</i> , 2010, 32, 627-638.	2.8	47
43	Enhanced performance of room-temperature-grown epitaxial thin films of vanadium dioxide. <i>Applied Physics Letters</i> , 2011, 98, 251916.	1.5	47
44	Thermal Decomposition of Zircon Refractories. <i>Journal of the American Ceramic Society</i> , 2001, 84, 2930-2936.	1.9	46
45	Reaction kinetics of δ -CuInSe ₂ formation from an In ₂ Se ₃ /CuSe bilayer precursor film. <i>Journal of Physics and Chemistry of Solids</i> , 2005, 66, 1915-1919.	1.9	46
46	Thermal, mechanical and phase stability of LaCoO ₃ in reducing and oxidizing environments. <i>Journal of Power Sources</i> , 2008, 184, 77-83.	4.0	46
47	Controlling the thermal expansion anisotropy of Mo ₅ Si ₃ and Ti ₅ Si ₃ silicides. <i>Intermetallics</i> , 2004, 12, 845-850.	1.8	45
48	Protective nitride formation on stainless steel alloys for proton exchange membrane fuel cell bipolar plates. <i>Journal of Power Sources</i> , 2007, 174, 228-236.	4.0	45
49	Chemical solution deposition of lanthanum zirconate barrier layers applied to low-cost coated-conductor fabrication. <i>Journal of Materials Research</i> , 2004, 19, 2117-2123.	1.2	44
50	Reaction kinetics of CuInSe ₂ thin films grown from bilayer InSe/CuSe precursors. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2005, 23, 310-315.	0.9	44
51	Structural transformation in a Li _{1.2} Co _{0.1} Mn _{0.55} Ni _{0.15} O ₂ lithium-ion battery cathode during high-voltage hold. <i>RSC Advances</i> , 2013, 3, 7479.	1.7	44
52	Non-congruence of thermally driven structural and electronic transitions in VO ₂ . <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	43
53	Epitaxial growth of Cu(111) films on Si(110) by magnetron sputtering: orientation and twin growth. <i>Thin Solid Films</i> , 1998, 315, 13-16.	0.8	41
54	Formation of YSZ-SDC Solid Solution in a Nanocrystalline Heterophase System and Its Effect on the Electrical Conductivity. <i>Journal of the American Ceramic Society</i> , 2005, 88, 1812-1818.	1.9	41

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55	Development of Novel Polycrystalline Ceramic Scintillators. IEEE Transactions on Nuclear Science, 2008, 55, 1501-1508.	1.2	41
56	Thermal and mechanical properties of LaCoO ₃ and La _{0.8} Ca _{0.2} CoO ₃ perovskites. Journal of Power Sources, 2008, 182, 230-239.	4.0	40
57	Magnetic and structural properties of epitaxially grown FeTaN thin films. Journal of Applied Physics, 1998, 83, 5955-5966.	1.1	33
58	Reaction kinetics of CuGaSe ₂ formation from a GaSe/CuSe bilayer precursor film. Journal of Crystal Growth, 2008, 310, 2987-2994.	0.7	33
59	Effective residual stress prediction validated with neutron diffraction method for metal large-scale additive manufacturing. Materials and Design, 2021, 205, 109751.	3.3	33
60	Synthesis, Symmetry, and Physical Properties of Cerium Pyrophosphate. Chemistry of Materials, 2008, 20, 3728-3734.	3.2	32
61	Formation of Cadmium Sulfide Nanoparticles in Reverse Micelles: Extreme Sensitivity to Preparation Procedure. Langmuir, 2004, 20, 5642-5644.	1.6	31
62	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
63	Novel high pressure hexagonal OsB ₂ by mechanochemistry. Journal of Solid State Chemistry, 2014, 215, 16-21.	1.4	31
64	Thermal expansion anisotropy of ternary molybdenum silicides based on Mo ₅ Si ₃ . Physical Review B, 2002, 65, .	1.1	30
65	Characterization of residual stress as a function of friction stir welding parameters in oxide dispersion strengthened (ODS) steel MA956. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2015, 647, 313-321.	2.6	30
66	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
67	Residual stresses and microstructure of H13 steel formed by combining two different direct fabrication methods. Scripta Materialia, 1998, 39, 1471-1476.	2.6	29
68	High temperature X-ray studies of mayenite synthesized using the citrate sol-gel method. Ceramics International, 2014, 40, 1117-1123.	2.3	29
69	Current capabilities of the residual stress diffractometer at the high flux isotope reactor. Review of Scientific Instruments, 2018, 89, 092804.	0.6	28
70	Structure-property relations in mesoscopic BaTiO ₃ and PbTiO ₃ . Ferroelectrics, 1999, 223, 11-18.	0.3	27
71	Microstrains and Stresses Analysis in Electroless Deposited Thin Pd Films. Industrial & Engineering Chemistry Research, 2006, 45, 8145-8153.	1.8	27
72	Mechanical behavior and electrical conductivity of La _{1-x} CaxCoO ₃ (x=0, 0.2, 0.4, 0.55) perovskites. Journal of Power Sources, 2010, 195, 3612-3620.	4.0	27

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73	High-temperature order/disorder transition in the thermoelectric Cu ₃ SbSe ₃ . Journal of Materials Research, 2011, 26, 2001-2005.	1.2	27
74	Crystal growth of B12As ₂ on SiC substrate by CVD method. Journal of Crystal Growth, 2005, 273, 431-438.	0.7	26
75	Nanocrystalline BaTiO ₃ powder via a sol process ambient conditions. Journal of the European Ceramic Society, 2006, 26, 2319-2326.	2.8	26
76	Ferromagnetism and Nonmetallic Transport of Thin-Film $\text{FeSi}_{1-x}\text{Ge}_x$. A Stabilized Metastable Material. Physical Review Letters, 2015, 114, 147202.	2.9	26
77	Processing of YSZ thin films on dense and porous substrates. Surface and Coatings Technology, 2005, 200, 1242-1247.	2.2	25
78	Influence of crystal expansion/contraction on zeolite membrane permeation. Journal of Membrane Science, 2010, 357, 98-104.	4.1	25
79	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
80	Oxidation Behavior of Cr ₂ N, CrNbN, and CrTaN Phase Mixtures Formed on Nitrided Cr and Laves-Reinforced Cr Alloys. Oxidation of Metals, 2004, 61, 379-401.	1.0	24
81	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
82	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
83	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
84	Probing Local and Global Ferroelectric Phase Stability and Polarization Switching in Ordered Macroporous PZT. Advanced Functional Materials, 2011, 21, 941-947.	7.8	23
85	In situ investigation of the selenization kinetics of Cu-Ga precursors using time-resolved high-temperature X-ray diffraction. Thin Solid Films, 2007, 515, 5837-5842.	0.8	22
86	Title is missing!. Journal of Materials Science, 2003, 38, 979-985.	1.7	21
87	Kinetics of the cubic to trigonal transformation in ZrMo ₂ O ₈ and their dependence on precursor chemistry. Journal of Materials Chemistry, 2002, 12, 990-994.	6.7	20
88	Mechanism of nanocrystalline BaTiO ₃ particle formation by hydrothermal refluxing synthesis. Journal of Materials Science: Materials in Electronics, 2003, 14, 495-500.	1.1	20
89	Characterization of the Piezoelectric Properties of Pb _{0.98} Ba _{0.02} (Mg _{1/3} Nb _{2/3})O ₃ -PbTiO ₃ Epitaxial Thin Films. International Journal of Applied Ceramic Technology, 2005, 2, 51-58.		20
90	Assessment of Chemical Solution Synthesis and Properties of Gd ₂ Zr ₂ O ₇ Thin Films as Buffer Layers for Second-Generation High-Temperature Superconductor Wires. Journal of Materials Research, 2005, 20, 2988-2996.	1.2	20

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91	Study on the residual stress relaxation in girth-welded steel pipes under bending load using diffraction methods. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2017, 688, 289-300.	2.6	20
92	Mechanical behavior of La _{0.8} Sr _{0.2} Ga _{0.8} Mg _{0.2} O ₃ perovskites. <i>Ceramics International</i> , 2009, 35, 1235-1241.	2.3	19
93	Isothermal solid-state transformation kinetics applied to Pd/Cu alloy membrane fabrication. <i>AICHE Journal</i> , 2010, 56, 3062-3073.	1.8	19
94	Comparison of High Temperature Crystal Lattice and Bulk Thermal Expansion Measurements of LGT Single Crystal. , 2006, , .		18
95	Elevated-Temperature Mechanical Behavior of As-Cast and Wrought Ti-6Al-4V-1B. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 3046-3061.	1.1	18
96	Measurement of the electrostrictive coefficients of modified lead magnesium niobate using neutron powder diffraction. <i>Applied Physics Letters</i> , 1998, 72, 1042-1044.	1.5	17
97	Error Corrections For X-RAY Powder Diffractometry. <i>Canadian Metallurgical Quarterly</i> , 2001, 40, 385-394.	0.4	17
98	Understanding the Metal-Directed Growth of Single-Crystal M-TCNQF ₄ Organic Nanowires with Time-Resolved, in Situ X-ray Diffraction and First-Principles Theoretical Studies. <i>Journal of the American Chemical Society</i> , 2012, 134, 14353-14361.	6.6	17
99	Unconventional irreversible structural changes in a high-voltage Li-Mn-rich oxide for lithium-ion battery cathodes. <i>Journal of Power Sources</i> , 2015, 283, 423-428.	4.0	17
100	A search for temperature induced time-dependent structural transitions in 10 mol%Sc ₂ O ₃ -1 mol%CeO ₂ -ZrO ₂ and 8 mol%Y ₂ O ₃ -ZrO ₂ electrolyte ceramics. <i>Journal of the European Ceramic Society</i> , 2015, 35, 951-958.	2.8	17
101	Size-Dependent Crystalline to Amorphous Uphill Phase Transformation of Hydroxyapatite Nanoparticles. <i>Crystal Growth and Design</i> , 2011, 11, 45-52.	1.4	16
102	Structure and magnetic order in the series BixRE _{1-x} Fe _{0.5} Mn _{0.5} O ₃ (RE=La,Nd). <i>Journal of Solid State Chemistry</i> , 2011, 184, 830-842.	1.4	16
103	The temperature dependence of thermal expansion for p-type Ce _{0.9} Fe _{3.5} Co _{0.5} Sb ₁₂ and n-type Co _{0.95} Pd _{0.05} Te _{0.05} Sb ₃ skutterudite thermoelectric materials. <i>Philosophical Magazine</i> , 2012, 92, 1261-1286.	0.7	16
104	Preparation and thermal expansion of with the cubic ZrP ₂ O ₇ structure. <i>Journal of Solid State Chemistry</i> , 2005, 178, 3541-3546.	1.4	15
105	Growth and characterization of chromium oxide thin films prepared by reactive ac magnetron sputtering. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 1870-1877.	0.9	15
106	MOCVD of YSZ coatings using Î ² -diketonate precursors. <i>Journal of Alloys and Compounds</i> , 2009, 470, 354-359.	2.8	14
107	High-growth rate YSZ thermal barrier coatings deposited by MOCVD demonstrate high thermal cycling lifetime. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 528, 978-985.	2.6	14
108	Thermal stability of hexagonal OsB ₂ . <i>Journal of Solid State Chemistry</i> , 2014, 219, 210-219.	1.4	14

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109	Title is missing!. Journal of Materials Science, 2003, 38, 3831-3844.	1.7	13
110	Development of Proton Conductors Using Pyrochlore-Perovskite Phase Boundaries. Journal of Materials Engineering and Performance, 2004, 13, 303-308.	1.2	13
111	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
112	A Topotactic Synthetic Methodology for Highly Fluorine-Doped Mesoporous Metal Oxides. Angewandte Chemie - International Edition, 2012, 51, 2888-2893.	7.2	13
113	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
114	Synthesis of nanocrystalline BaTiO ₃ by solvent refluxing method. Journal of Materials Science Letters, 2003, 22, 557-559.	0.5	12
115	Synthesis of Ternary Nitrides from Intermetallic Precursors: Modes of Nitridation in Model Cr ₃ Pt Alloys To Form Cr ₃ PtN Antiperovskite and Application to Other Systems. Chemistry of Materials, 2004, 16, 1984-1990.	3.2	12
116	Solution Deposition Approach to High- J_c Coated Conductor Fabrication. IEEE Transactions on Applied Superconductivity, 2005, 15, 2974-2976.	1.1	12
117	Thermodynamic analysis and growth of ZrO ₂ by chloride chemical vapor deposition. Thin Solid Films, 2008, 516, 6133-6139.	0.8	12
118	Characterization and analyses of degradation and recovery of LaNi _{4.78} Sn _{0.22} hydrides following thermal aging. Journal of Alloys and Compounds, 2013, 580, S207-S210.	2.8	12
119	Templated growth of a complex nitride island dispersion through an internal nitridation reaction. Journal of Materials Research, 2001, 16, 2784-2787.	1.2	11
120	Synthesis of RE(OH) ₂ Cl and REOCl (RE=Eu, Tb) nanostructures. Journal of Rare Earths, 2008, 26, 131-135.	2.5	11
121	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
122	Topochemical Synthesis of Alkali-Metal Hydroxide Layers within Double- and Triple-Layered Perovskites. Inorganic Chemistry, 2014, 53, 1773-1778.	1.9	11
123	Non-congruence of high-temperature mechanical and structural behaviors of LaCoO ₃ based perovskites. Journal of the European Ceramic Society, 2017, 37, 1563-1576.	2.8	10
124	Synthesis, Annealing, and Performances of Pd-Au Asymmetric Composite Membranes for Hydrogen Purification. Industrial & Engineering Chemistry Research, 2013, 52, 8732-8744.	1.8	9
125	Doping-driven electronic and lattice dynamics in the phase-change material vanadium dioxide. Physical Review B, 2020, 102, .	1.1	8
126	Identification of a second phase in La _{2-x} Sr _x CuO ₄ superconductors resulting from precursor lanthanum deficiency. Solid State Communications, 1990, 76, 409-410.	0.9	7

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127	Organo-montmorillonite barrier layers formed by combustion: Nanostructure and permeability. <i>Applied Clay Science</i> , 2010, 49, 213-223.	2.6	7
128	Effect of Laser Sintering on Ti ²⁺ ZrB ₂ Mixtures. <i>Journal of the American Ceramic Society</i> , 2011, 94, 3282-3285.	1.9	7
129	Reaction routes for the synthesis of CuInSe ₂ using bilayer compound precursors. <i>Progress in Photovoltaics: Research and Applications</i> , 2012, 20, 543-556.	4.4	7
130	Mapping of Texture and Phase Fractions in Heterogeneous Stress States during Multiaxial Loading of Biomedical Superelastic NiTi. <i>Advanced Materials</i> , 2021, 33, e2005092.	11.1	7
131	Properties of Ionic-Conducting Bi ₂ O ₃ Containing Mixed Dopants. <i>Journal of the American Ceramic Society</i> , 2002, 85, 2633-2636.	1.9	6
132	Impact of dopants on the sulfation, desulfation and NO _x reduction performance of Ba-based NO _x storage-reduction catalysts†. <i>Catalysis Today</i> , 2011, 160, 131-136.	2.2	6
133	Consecutive Nucleation Events During Divitrification of Zr _{52.5} Cu _{17.9} Ni _{14.6} Al ₁₀ Ti ₅ Bulk Metallic Glass. <i>Advanced Engineering Materials</i> , 2008, 10, 1043-1047.	1.6	5
134	Characterization of Hafnia Powder Prepared from an Oxychloride Sol-Gel. <i>Journal of the American Ceramic Society</i> , 2011, 94, 886-894.	1.9	5
135	Structural and magnetic phase transitions in CeCu_6		

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145	Structural and magnetic analysis of nanocrystalline lead europium sulfide (PbxEuyS). Materials Chemistry and Physics, 2012, 134, 1-6.	2.0	4
146	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
147	Consumable development to tailor residual stress in parts fabricated using directed energy deposition processes. Additive Manufacturing, 2021, 39, 101837.	1.7	4
148	Quantitative texture analysis using the NOMAD time-of-flight neutron diffractometer. Journal of Applied Crystallography, 2021, 54, 867-877.	1.9	4
149	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
150	An Experimental Examination of Error Functions for Bragg-Brentano Powder Diffractometry. , 1993, , 663-670.		4
151	Magnetic field induced texture during KCl flux synthesis of strontium hexaferrite. Journal of Magnetism and Magnetic Materials, 1993, 124, 9-14.	1.0	3
152	Engineering applications of neutron scattering at the high flux isotope reactor. Neutron News, 1999, 10, 26-30.	0.1	3
153	Sublimation Growth of Aluminum Nitride-Silicon Carbide Alloy Crystals on SiC (0001) Substrates. Materials Research Society Symposia Proceedings, 2004, 831, 347.	0.1	3
154	In-situ Observation of Selenization of Cu-Ga-In Metallic Precursors. , 2006, , .		3
155	Elaboration on the hexagonal grid and spiral trace schemes for pole figure data collection. Powder Diffraction, 2008, 23, 87-91.	0.4	3
156	Other Topics. , 2009, , 365-380.		3
157	The magnetization of superconducting $\text{La}_{1.85}\text{Sr}_{0.15}\text{Cu}_1\text{xVxO}_4$. Journal of Applied Physics, 1991, 69, 4857-4859.	1.1	2
158	Critical current density of $\text{La}_{1.85}\text{Sr}_{0.15}\text{Cu}_1\text{-yVyO}_4$ delatceramics. Superconductor Science and Technology, 1995, 8, 883-886.	1.8	2
159	High temperature phase transformation in rhombohedral bismuth strontium oxide. Thermochemica Acta, 1998, 318, 45-50.	1.2	2
160	<title>Infrared imaging of temperature distribution in a high-temperature x-ray diffraction furnace</title>. , 1999, 3700, 377.		2
161	Reaction kinetics and pathways of MoSe_2 . , 2010, , .		2
162	Residual Stress Analysis in Girth-welded Ferritic and Austenitic Steel Pipes Using Neutron and X-Ray Diffraction. , 2017, , .		2

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