

Richard Eric Riman

List of Publications by Year in descending order

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168
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53660

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60497

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g-index

174
all docs

174
docs citations

174
times ranked

7492
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermochemistry of stoichiometric rare earth oxyfluorides REOF. Journal of the American Ceramic Society, 2022, 105, 1472-1480.	1.9	4
2	Microbial Carbonation of Monocalcium Silicate. ACS Omega, 2022, 7, 12524-12535.	1.6	1
3	Thermochemistry of 3D and 2D Rare Earth Oxychlorides (REOCls). Inorganic Chemistry, 2022, 61, 7590-7596.	1.9	4
4	Recovery of Rare Earth Elements from Recycled Hard Disk Drive Mixed Steel and Magnet Scrap. Minerals, Metals and Materials Series, 2021, , 139-154.	0.3	5
5	Microwave Hydrothermal Growth of Thick Epitaxial Lead Zirconate Titanate Films. Jom, 2021, 73, 3010-3020.	0.9	0
6	Short-Wave Infrared Emitting Nanocomposites for Fluorescence-Guided Surgery. IEEE Journal of Selected Topics in Quantum Electronics, 2021, 27, 1-7.	1.9	0
7	Thermochemistry of sodium rare earth ternary fluorides, NaREF ₄ . Acta Materialia, 2021, 220, 117289.	3.8	10
8	Thermochemical Investigation of the Stability and Conversion of Nanocrystalline and High-Temperature Phases in Sodium Neodymium Fluorides. Chemistry of Materials, 2021, 33, 9571-9579.	3.2	1
9	Shortwave infrared emitting multicolored nanoprobes for biomarker-specific cancer imaging in vivo. BMC Cancer, 2020, 20, 1082.	1.1	5
10	Shortwave Infrared-Emitting Theranostics for Breast Cancer Therapy Response Monitoring. Frontiers in Molecular Biosciences, 2020, 7, 569415.	1.6	11
11	Rare Earth Element Recovery Using Monoethanolamine. Journal of Materials Engineering and Performance, 2020, 29, 5564-5573.	1.2	2
12	Non-Rare-Earth Na ₃ AlF ₆ :Cr ³⁺ Phosphors for Far-Red Light-Emitting Diodes. ACS Applied Electronic Materials, 2019, 1, 2325-2333.	2.0	93
13	Bio- and mineral acid leaching of rare earth elements from synthetic phosphogypsum. Journal of Chemical Thermodynamics, 2019, 132, 491-496.	1.0	54
14	Rare earth sulfates in aqueous systems: Thermodynamic modeling of binary and multicomponent systems over wide concentration and temperature ranges. Journal of Chemical Thermodynamics, 2019, 131, 49-79.	1.0	51
15	Lithium aluminum-layered double hydroxide chlorides (LDH): Formation enthalpies and energetics for lithium ion capture. Journal of the American Ceramic Society, 2019, 102, 2398-2404.	1.9	34
16	Refractive Index Tuning of Hybrid Materials for Highly Transmissive Luminescent Lanthanide Particle-Polymer Composites. ACS Applied Materials & Interfaces, 2018, 10, 9038-9047.	4.0	24
17	Efficient NIR Emission from Nd, Er, and Tm Complexes with Fluorinated Selenolate Ligands. Inorganic Chemistry, 2018, 57, 1912-1918.	1.9	21
18	Trends in Structure and Thermodynamic Properties of Normal Rare Earth Carbonates and Rare Earth Hydroxycarbonates. Minerals (Basel, Switzerland), 2018, 8, 106.	0.8	53

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19	Multiscale optical imaging of rare-earth-doped nanocomposites in a small animal model. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	1.4	10
20	A comparative study of surface energies and water adsorption on Ce-bastnaesite, La-bastnaesite, and calcite via density functional theory and water adsorption calorimetry. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7820-7832.	1.3	30
21	Rare-earth doped nanocomposites enable multiscale targeted short-wave infrared imaging of metastatic breast cancer. <i>Proceedings of SPIE</i> , 2017, , .	0.8	1
22	Rare-earth elements in aqueous chloride systems: Thermodynamic modeling of binary and multicomponent systems in wide concentration ranges. <i>Fluid Phase Equilibria</i> , 2017, 452, 16-57.	1.4	13
23	Surveillance nanotechnology for multi-organ cancer metastases. <i>Nature Biomedical Engineering</i> , 2017, 1, 993-1003.	11.6	51
24	A Novel Strategy for Carbon Capture and Sequestration by rHLPD Processing. <i>Frontiers in Energy Research</i> , 2016, 3, .	1.2	22
25	Thermodynamics of bastnaesite: A major rare earth ore mineral. <i>American Mineralogist</i> , 2016, 101, 1129-1134.	0.9	23
26	Early detection and longitudinal imaging of cancer micrometastases using biofunctionalized rare-earth albumin nanocomposites. <i>Proceedings of SPIE</i> , 2016, , .	0.8	0
27	Temperature-Dependence of Multiphonon Relaxation of Rare-Earth Ions in Solid-State Hosts. <i>Journal of Physical Chemistry C</i> , 2016, 120, 9958-9964.	1.5	45
28	Reactive Hydrothermal Liquid-Phase Densification (rHLPD) of Ceramics "A Study of the BaTiO ₃ /TiO ₂ Composite System. <i>Journal of the American Ceramic Society</i> , 2016, 99, 3893-3901.	1.9	30
29	Location and stability of europium in calcium sulfate and its relevance to rare earth recovery from phosphogypsum waste. <i>American Mineralogist</i> , 2016, 101, 1854-1861.	0.9	21
30	Crystal Structures, Surface Stability, and Water Adsorption Energies of La-Bastnaesite via Density Functional Theory and Experimental Studies. <i>Journal of Physical Chemistry C</i> , 2016, 120, 16767-16781.	1.5	28
31	Bioadsorption of Rare Earth Elements through Cell Surface Display of Lanthanide Binding Tags. <i>Environmental Science & Technology</i> , 2016, 50, 2735-2742.	4.6	113
32	Light absorption properties of the New York/New Jersey Harbor Estuary. <i>Hydrobiologia</i> , 2016, 766, 173-188.	1.0	0
33	High-Resolution Imaging of Molecularly Targeted Rare-Earth Based Nanocomposites. , 2016, , .		0
34	CXCR4 Targeted, Short Wave Infrared (SWIR) Emitting Nanoprobes for Enhanced Deep Tissue Imaging and Micrometastatic Cancer Lesion Detection. <i>Small</i> , 2015, 11, 6347-6357.	5.2	58
35	Line-scanning confocal microscopy for high-resolution imaging of upconverting rare-earth-based contrast agents. <i>Journal of Biomedical Optics</i> , 2015, 20, 110506.	1.4	12
36	Effects of Simulated Rare Earth Recycling Wastewaters on Biological Nitrification. <i>Environmental Science & Technology</i> , 2015, 49, 9460-9468.	4.6	27

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37	Small animal imaging platform for quantitative assessment of short-wave infrared-emitting contrast agents. Proceedings of SPIE, 2015, , .	0.8	1
38	Thermodynamics of solid phases containing rare earth oxides. Journal of Chemical Thermodynamics, 2015, 88, 126-141.	1.0	72
39	Abstract 1482: Early detection and longitudinal imaging of breast cancer metastatic microlesions using short-wave infrared light emitting rare-earth nanoprob. , 2015, , .		0
40	NIR emission from molecules and clusters with lanthanide-chalcogen bonds. Coordination Chemistry Reviews, 2014, 273-274, 111-124.	9.5	30
41	Rare earth nanoprob. for functional biomolecular imaging and theranostics. Journal of Materials Chemistry B, 2014, 2, 2958-2973.	2.9	68
42	Rare-earth-doped biological composites as in vivo shortwave infrared reporters. Nature Communications, 2013, 4, 2199.	5.8	631
43	Engineering the Design of Brightly-Emitting Luminescent Nanostructured Photonic Composite Systems. Australian Journal of Chemistry, 2013, 66, 1008.	0.5	17
44	Optoelectronic properties of graphene thin films deposited by a Langmuir-Blodgett assembly. Nanoscale, 2013, 5, 12365.	2.8	44
45	Solvothermal Synthesis of Acmite Conversion Coatings on Steel. Journal of the American Ceramic Society, 2013, 96, 3656-3661.	1.9	3
46	Comprehensive Study on the Size Effects of the Optical Properties of NaYF ₄ :Yb,Er Nanocrystals. Journal of Physical Chemistry C, 2013, 117, 13297-13304.	1.5	91
47	Rare-earth doped particles with tunable infrared emissions for biomedical imaging. Optical Materials Express, 2013, 3, 566.	1.6	39
48	Optical Efficiency of Short Wave Infrared Emitting Phosphors. Journal of Physical Chemistry C, 2011, 115, 17952-17957.	1.5	19
49	Surfactant Effects on Efficiency Enhancement of Infrared-to-Visible Upconversion Emissions of NaYF ₄ :Yb-Er. ACS Applied Materials & Interfaces, 2011, 3, 3910-3915.	4.0	82
50	Lanthanide Clusters with Chalcogen Encapsulated Ln: NIR Emission from Nanoscale NdSex. Journal of the American Chemical Society, 2011, 133, 373-378.	6.6	41
51	Size-Dependent Crystalline to Amorphous Uphill Phase Transformation of Hydroxyapatite Nanoparticles. Crystal Growth and Design, 2011, 11, 45-52.	1.4	16
52	Highly NIR-Emissive Lanthanide Polyselenides. Inorganic Chemistry, 2011, 50, 9184-9190.	1.9	19
53	Glycothermal process for barium magnesium tantalate nanopowders synthesis. Journal of the European Ceramic Society, 2011, 31, 2319-2329.	2.8	2
54	Synthesis and Cytotoxicity of Y ₂ O ₃ Nanoparticles of Various Morphologies. Nanoscale Research Letters, 2010, 5, 263-273.	3.1	67

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55	Crystallographically engineered, hydrothermally crystallized hydroxyapatite films: an in vitro study of bioactivity. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 1531-1542.	1.7	7
56	Albumin Nanoshell Encapsulation of Near-Infrared-Excitable Rare-Earth Nanoparticles Enhances Biocompatibility and Enables Targeted Cell Imaging. <i>Small</i> , 2010, 6, 1631-1640.	5.2	60
57	Thermochemical engineering of hydrothermal crystallisation processes. <i>Materials Research Innovations</i> , 2010, 14, 9-15.	1.0	11
58	Materials Synthesis – Novel Approaches. <i>Materials Research Innovations</i> , 2010, 14, 2-2.	1.0	0
59	A Solvothermal Route to Size- and Phase-Controlled Highly Luminescent NaYF ₄ :Yb,Er Up-Conversion Nanocrystals. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 1685-1692.	0.9	33
60	Transparent Infrared-Emitting CeF ₃ :Yb~Er Polymer Nanocomposites for Optical Applications. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1884-1891.	4.0	45
61	Thermodynamic Modeling of Hydroxyapatite Crystallization with Biomimetic Precursor Design Considerations. <i>Chemistry of Materials</i> , 2010, 22, 36-46.	3.2	21
62	Calcium phosphate-encapsulated silver powder. <i>Surface and Coatings Technology</i> , 2009, 203, 1555-1558.	2.2	1
63	Highly dispersible polymer-coated silver Nanoparticles. <i>Surface and Coatings Technology</i> , 2009, 203, 2841-2844.	2.2	33
64	Phase-Sequenced Deposition of Calcium Titanate/Hydroxyapatite Films with Controllable Crystallographic Texture onto Ti6Al4V by Triethyl Phosphate-Regulated Hydrothermal Crystallization. <i>Crystal Growth and Design</i> , 2009, 9, 3412-3422.	1.4	15
65	Near infrared-emitting Er- and Yb-Er- doped CeF ₃ nanoparticles with no visible upconversion. <i>Optics Express</i> , 2009, 17, 15904.	1.7	35
66	Lanthanide Compounds with Fluorinated Aryloxy Ligands: Near-Infrared Emission from Nd, Tm, and Er. <i>Inorganic Chemistry</i> , 2009, 48, 3573-3580.	1.9	46
67	Synthesis and optical properties of infrared-emitting YF ₃ :Nd nanoparticles. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	54
68	Large area deposition of graphene thin films by Langmuir-Blodgett assembly and their optoelectronic properties. , 2009, , .		1
69	Intense Near-IR Emission from Nanoscale Lanthanoid Fluoride Clusters. <i>Angewandte Chemie - International Edition</i> , 2008, 47, 6049-6051.	7.2	80
70	Chemisorption of silane compounds on hydroxyapatites of various morphologies. <i>Scripta Materialia</i> , 2008, 58, 1039-1042.	2.6	40
71	TEP/EDTA Doubly Regulated Hydrothermal Crystallization of Hydroxyapatite Films on Metal Substrates. <i>Chemistry of Materials</i> , 2008, 20, 7177-7187.	3.2	23
72	Thiolate-Bound Thulium Compounds: Synthesis, Structure, and NIR Emission. <i>Chemistry of Materials</i> , 2008, 20, 4367-4373.	3.2	25

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73	Quantification of Hydroxyl Content in Ceramic Oxides: A Prompt \hat{I}^3 Activation Analysis Study of $BaTiO_3$. Analytical Chemistry, 2008, 80, 6626-6632.	3.2	12
74	Optical spectroscopy and confocal fluorescence imaging of upconverting Er^{3+} -doped CaF_2 nanocrystals. Applied Physics Letters, 2007, 90, 093123.	1.5	30
75	Engineered solution synthesis of rare-earth nanomaterials and their optical properties. , 2007, , .		1
76	Preparation of Hydroxyapatite Microspheres by Interfacial Reaction in a Multiple Emulsion. Journal of the Ceramic Society of Japan, 2007, 115, 888-893.	0.5	17
77	Near-Infrared Optical Characteristics of Chalcogenide-Bound Nd^{3+} -Molecules and Clusters. Chemistry of Materials, 2007, 19, 2937-2946.	3.2	39
78	Oxoclusters of the Lanthanides Begin to Resemble Solid-State Materials at Very Small Cluster Sizes: \hat{A} Structure and NIR Emission from $Nd(III)$. Journal of the American Chemical Society, 2007, 129, 5926-5931.	6.6	41
79	Self-Assembly of Monolayer-Thick Alumina Particle \hat{A} Epoxy Composite Films. Langmuir, 2007, 23, 11399-11403.	1.6	8
80	Optical Characterization of Infrared Emitting Rare-Earth-Doped Fluoride Nanocrystals and Their Transparent Nanocomposites. Chemistry of Materials, 2007, 19, 1523-1528.	3.2	148
81	The role of ammonium citrate washing on the characteristics of mechanochemical \hat{A} hydrothermal derived magnesium-containing apatites. Journal of Materials Science: Materials in Medicine, 2007, 18, 1413-1421.	1.7	3
82	Precursor and processing effects on $BaPbO_3$ formation kinetics. Journal of Materials Research, 2006, 21, 584-596.	1.2	2
83	Hydrothermal Synthesis of Advanced Ceramic Powders. Advances in Science and Technology, 2006, 45, 184.	0.2	156
84	The optical performance of perfluorocyclobutyl-based fluoropolymers and waveguides. , 2006, , .		0
85	Molecular Mineralstm: Lyophilic Colloids for Ceramists. Journal of the American Ceramic Society, 2006, 89, 1809-1815.	1.9	16
86	Photoluminescence of bound rare earth nanoscale complexes. Optical Materials, 2006, 29, 12-18.	1.7	3
87	Calculation of interparticle spacing in colloidal systems. Journal of Colloid and Interface Science, 2006, 297, 374-377.	5.0	91
88	Heterometallic Chalcogenido Clusters Containing Lanthanides and Main Group Metals: Emissive Precursors to Ternary Solid-State Compounds.. ChemInform, 2006, 37, no.	0.1	0
89	Infrared fluorescence and optical gain characteristics of chalcogenide-bound erbium cluster-fluoropolymer nanocomposites. Applied Physics Letters, 2006, 88, 091902.	1.5	20
90	Optical properties of single crystal Nd^{3+} -doped $Bi_4Ge_3O_{12}$: Laser transitions at room and low temperature. Physical Review B, 2006, 74, .	1.1	14

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91	Glycothermal synthesis and characterization of tetragonal barium titanate. <i>Journal of Crystal Growth</i> , 2005, 274, 638-652.	0.7	53
92	Mechanically activated synthesis of PZT and its electromechanical properties. <i>Applied Physics A: Materials Science and Processing</i> , 2005, 81, 531-537.	1.1	4
93	Optical properties of a transparent CaF ₂ :Er ³⁺ fluoropolymer nanocomposite. <i>Applied Physics Letters</i> , 2005, 86, 241105.	1.5	33
94	Chalcogenide-Bound Erbium Complexes: Paradigm Molecules for Infrared Fluorescence Emission. <i>Chemistry of Materials</i> , 2005, 17, 5130-5135.	3.2	63
95	Single-Crystal-like Materials by the Self-Assembly of Cube-Shaped Lead Zirconate Titanate (PZT) Microcrystals. <i>Langmuir</i> , 2005, 21, 3207-3212.	1.6	28
96	Heterometallic Chalcogenido Clusters Containing Lanthanides and Main Group Metals: Emissive Precursors to Ternary Solid-State Compounds. <i>Journal of the American Chemical Society</i> , 2005, 127, 14008-14014.	6.6	64
97	Hydrothermal Deposition of Oriented Epitaxial Pb(Zr,Ti)O ₃ Films under Varying Hydrodynamic Conditions. <i>Crystal Growth and Design</i> , 2005, 5, 1715-1727.	1.4	18
98	Lanthanide Clusters with Internal Ln Ions: Highly Emissive Molecules with Solid-State Cores. <i>Journal of the American Chemical Society</i> , 2005, 127, 3501-3505.	6.6	94
99	Oxoselenido Clusters of the Lanthanides: Rational Introduction of Oxo Ligands and Near-IR Emission from Nd(III). <i>Journal of the American Chemical Society</i> , 2005, 127, 15900-15906.	6.6	65
100	Synthesis and spectroscopic characterization of CaF ₂ :Er ³⁺ single crystal for highly efficient 1.53 μ m amplification. <i>Journal of Applied Physics</i> , 2004, 95, 3243-3249.	1.1	55
101	Preparation of magnesium-substituted hydroxyapatite powders by the mechanochemical-hydrothermal method. <i>Biomaterials</i> , 2004, 25, 4647-4657.	5.7	308
102	Mechanochemical-hydrothermal synthesis of calcium phosphate powders with coupled magnesium and carbonate substitution. <i>Journal of Solid State Chemistry</i> , 2004, 177, 793-799.	1.4	102
103	Mechanochemical-hydrothermal synthesis of hydroxyapatite from nonionic surfactant emulsion precursors. <i>Journal of Crystal Growth</i> , 2004, 270, 615-623.	0.7	35
104	Synthesis, characterization, and dispersion properties of hydroxyapatite prepared by mechanochemical-hydrothermal methods. <i>Journal of Materials Chemistry</i> , 2004, 14, 2425-2432.	6.7	59
105	Solution synthesis and spectroscopic characterization of high Er ³⁺ content LaF ₃ for broadband 1.5 μ m amplification. <i>Journal of Applied Physics</i> , 2004, 95, 40-47.	1.1	41
106	Hydrothermal synthesis of ceramic materials. , 2004, , 717-744.		15
107	DEVELOPMENT OF LOW TEMPERATURE SINTERING OF HYDROXYAPATITE CERAMICS USING HYDROTHERMAL HOT-PRESSING METHOD. <i>Phosphorus Research Bulletin</i> , 2004, 17, 231-234.	0.1	3
108	Low-Temperature Hydrothermal Synthesis of Phase-Pure (Ba,Sr)TiO ₃ Perovskite using EDTA. <i>Journal of the American Ceramic Society</i> , 2004, 87, 2025-2032.	1.9	29

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109	Low temperature hydrothermal synthesis and formation mechanisms of lead titanate (PbTiO ₃) particles using tetramethylammonium hydroxide: thermodynamic modelling and experimental verification. <i>Journal of the European Ceramic Society</i> , 2003, 23, 2323-2335.	2.8	57
110	A New Glycothermal Process for Barium Titanate Nanoparticle Synthesis. <i>Journal of the American Ceramic Society</i> , 2003, 86, 1793-1796.	1.9	18
111	Influence of Precursor on Microstructure and Phase Composition of Epitaxial Hydrothermal PbZr _{0.7} Ti _{0.3} O ₃ Films. <i>Chemistry of Materials</i> , 2003, 15, 1090-1098.	3.2	29
112	Luminescent properties of nanostructured Dy ³⁺ - and Tm ³⁺ -doped lanthanum chloride prepared by reactive atmosphere processing of sol-gel derived lanthanum hydroxide. <i>Journal of Applied Physics</i> , 2003, 93, 2946-2951.	1.1	46
113	Low-temperature solution route to BaTiO ₃ thin films on titanium metal substrate. <i>Materials Letters</i> , 2003, 57, 4302-4308.	1.3	6
114	Methodology for Determination of the Maximum Packing Fraction for Particle-Filled Polymer Suspensions. <i>Particulate Science and Technology</i> , 2003, 21, 317-325.	1.1	8
115	Thermodynamics of Multicomponent Perovskite Synthesis in Hydrothermal Solution. , 2003, , 271-297.		4
116	Engineered Low Temperature Hydrothermal Synthesis of Phase-Pure Lead-Based Perovskites Using Ethylenediamine Tetra-acetic Acid Complexation. <i>Chemistry of Materials</i> , 2002, 14, 1950-1960.	3.2	19
117	Mechanochemical hydrothermal synthesis of carbonated apatite powders at room temperature. <i>Biomaterials</i> , 2002, 23, 699-710.	5.7	286
118	Cristallisation hydrothermale de ceramiques. <i>Annales De Chimie: Science Des Materiaux</i> , 2002, 27, 15-36.	0.2	130
119	A simple a priori determination of optical transmission gaps in photonic crystals of weak symmetry. <i>Optical Materials</i> , 2002, 20, 51-55.	1.7	1
120	Structure Determination in Colloidal Crystal Photonic Bandgap Structures. <i>Journal of the American Ceramic Society</i> , 2002, 85, 1366-1368.	1.9	5
121	Solution synthesis of hydroxyapatite designer particulates. <i>Solid State Ionics</i> , 2002, 151, 393-402.	1.3	168
122	Hydrothermal synthesis of acicular lead zirconate titanate (PZT). <i>Journal of Crystal Growth</i> , 2001, 226, 313-326.	0.7	92
123	Mechanochemical-hydrothermal preparation of crystalline hydroxyapatite powders at room temperature. <i>Journal of Materials Research</i> , 2001, 16, 1231-1234.	1.2	53
124	Design, Synthesis, and Characterization of Hydroxyapatite Particulates. <i>Materials Research Society Symposia Proceedings</i> , 2000, 662, 1.	0.1	0
125	Hydrothermal synthesis of lead titanate from complexed precursor solutions. <i>Journal of Crystal Growth</i> , 2000, 211, 497-500.	0.7	25
126	Hydrothermal Synthesis of Sodium and Potassium Bismuth Titanates. <i>Chemistry of Materials</i> , 2000, 12, 1323-1330.	3.2	96

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127	DIRECT COMPARISONS BETWEEN VIRTUAL AND EXPERIMENTAL POWDER MIXTURES. International Journal of the Society of Materials Engineering for Resources, 2000, 8, 33-37.	0.1	0
128	Phase stability, solubility and hydrothermal crystal growth of PbTiO ₃ . Journal of Crystal Growth, 1999, 197, 195-203.	0.7	31
129	Hydrothermal Synthesis of BaTiO ₃ on a Titanium-Loaded Polymer Support. Chemistry of Materials, 1999, 11, 1931-1935.	3.2	20
130	Highly Efficient 13- $\frac{1}{4}$ m Luminescence from Rare-earth-doped Halides Prepared from Low Temperature Aqueous Solutions. Optics and Photonics News, 1998, 9, 17.	0.4	0
131	Helical etch channels in quartz. Journal of Materials Research, 1998, 13, 3144-3148.	1.2	6
132	Patterning for planar waveguides. Electronics Letters, 1997, 33, 83.	0.5	2
133	Hydrothermal Synthesis of Carbonate-Free Strontium Zirconate: Thermodynamic Modeling and Experimental Verification. Chemistry of Materials, 1997, 9, 1116-1125.	3.2	57
134	Sol-gel synthesis of rare-earth-doped lanthanum halides for highly efficient 13- μ m optical amplification. Optics Letters, 1997, 22, 691.	1.7	21
135	Sol-gel synthesis of fluoride optical materials for planar integrated photonic applications. Journal of Non-Crystalline Solids, 1997, 213-214, 126-136.	1.5	31
136	High-temperature calorimetric study of glass-forming fluorozirconates. Journal of Non-Crystalline Solids, 1997, 215, 113-124.	1.5	5
137	Spectroscopic characterization of Eu ³⁺ -doped inorganic and alkoxide sol-gel derived fluorozirconate glass and zirconium fluoride gels. Journal of Non-Crystalline Solids, 1996, 202, 23-34.	1.5	60
138	Energetics of formation of KFi ₃ -GdF ₃ binary-intermediate compounds. Thermochemica Acta, 1996, 286, 233-243.	1.2	10
139	Kinetics and Mechanisms of Hydrothermal Synthesis of Barium Titanate. Journal of the American Ceramic Society, 1996, 79, 2929-2939.	1.9	368
140	Sol-gel synthesis of rare-earth-doped fluoride glass thin films. Journal of Materials Research, 1996, 11, 841-849.	1.2	30
141	Hydrothermal Precipitation of Lead Zirconate Titanate Solid Solutions: Thermodynamic Modeling and Experimental Synthesis. Journal of the American Ceramic Society, 1995, 78, 2609-2618.	1.9	111
142	Pyrolysis of Titanium-Metal-Filled Poly(siloxane) Pre-ceramic Polymers: Effect of Atmosphere on Pyrolysis Product Chemistry. Journal of the American Ceramic Society, 1995, 78, 1818-1824.	1.9	20
143	Blue, green and red fluorescence and energy transfer of Eu ³⁺ in fluoride glasses. Journal of Luminescence, 1995, 65, 227-245.	1.5	322
144	Estimation of thermochemical properties for ceramic oxides: a focus on PbZrO ₃ . Thermochemica Acta, 1995, 256, 193-203.	1.2	18

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145	Determination of homogeneity scale in ordered and partially ordered mixtures. Powder Technology, 1995, 82, 93-104.	2.1	15
146	The structure of mixtures of particles generated by time-dependent flows. Powder Technology, 1995, 84, 231-240.	2.1	38
147	Thermodynamics of the Hydrothermal Synthesis of Calcium Titanate with Reference to Other Alkaline-Earth Titanates. Chemistry of Materials, 1995, 7, 18-25.	3.2	127
148	Hydrothermal synthesis of perovskite materials: Thermodynamic modeling and experimental verification. Ferroelectrics, 1994, 151, 159-164.	0.3	67
149	Synthesis of halide glasses by reactive processing of sol-gel materials. Journal of Sol-Gel Science and Technology, 1994, 2, 849-853.	1.1	3
150	Morphology Control of Lead Carboxylate Powders via Anionic Substitutional Effects. Journal of Colloid and Interface Science, 1994, 167, 358-370.	5.0	12
151	Hydrothermal growth and properties of KGdF ₄ . Journal of Crystal Growth, 1994, 144, 243-252.	0.7	18
152	Thermogravimetric Determination of Carbon, Nitrogen, and Oxygen in Aluminum Nitride. Journal of the American Ceramic Society, 1994, 77, 2265-2272.	1.9	28
153	Automated generation and analysis of powder compaction diagrams. Powder Technology, 1994, 79, 111-119.	2.1	29
154	Evaluation of Dispersion Stability. Journal of Colloid and Interface Science, 1993, 157, 394-398.	5.0	6
155	Synthesis of Lead Titanate: Thermodynamic Modeling and Experimental Verification. Journal of the American Ceramic Society, 1993, 76, 2649-2659.	1.9	107
156	Sol-Gel Synthesis of High-Quality Heavy-Metal Fluoride Glasses. Journal of the American Ceramic Society, 1993, 76, 3147-3150.	1.9	22
157	Thermodynamic modeling of hydrothermal synthesis of ceramic powders. Chemistry of Materials, 1993, 5, 61-70.	3.2	338
158	Sol-gel synthesis of amorphous five-component oxide systems using crown ether complexation: ZBLAN gels. Journal of Non-Crystalline Solids, 1993, 163, 133-147.	1.5	2
159	Reactive atmosphere synthesis of sol-gel heavy metal fluoride glasses. Journal of Materials Research, 1992, 7, 1534-1540.	1.2	26
160	Role of intermediate phase formation in the preparation of barium yttrium oxide.cntdot.carbon dioxide (Ba ₄ Y ₂ O ₇ .cntdot.CO ₂). Chemistry of Materials, 1992, 4, 197-204.	3.2	3
161	Reactive Multicomponent Powder Mixtures Prepared by Microencapsulation: Pb(Mg _{1/3} Nb _{2/3})O ₃ Synthesis. Journal of the American Ceramic Society, 1992, 75, 1581-1586.	1.9	10
162	Uniform hydrolysis of metal alkoxides via homogeneous generation of water. Journal of Non-Crystalline Solids, 1991, 135, 259-264.	1.5	15

#	ARTICLE	IF	CITATIONS
163	Experimental design applied to a low-temperature synthetic route to crystalline, submicron barium titanate zirconate powder. <i>Materials Research Bulletin</i> , 1991, 26, 1067-1076.	2.7	2
164	Colloidal Processing for Improved Piezoelectric Properties of Flexible 0-3 Ceramic-Polymer Composites. <i>Journal of the American Ceramic Society</i> , 1991, 74, 1699-1702.	1.9	28
165	Observed phase transformations of oxalate-derived lead monoxide powder. <i>Journal of Thermal Analysis</i> , 1991, 37, 2555-2566.	0.7	14
166	Reliable Electrokinetic Characterization Procedures For Ceramic Powders. <i>Materials Research Society Symposia Proceedings</i> , 1990, 180, 293.	0.1	2
167	Synthesis of Uniform Titanium and 1:1 Strontium-Titanium Carboxyhydrosols by Controlled Hydrolysis of Alkoxy-metal Carboxylate Precursors. <i>Journal of the American Ceramic Society</i> , 1989, 72, 821-826.	1.9	22
168	Processing of anatase prepared from hydrothermally treated alkoxy-derived hydrous titania. <i>Journal of Materials Science</i> , 1988, 23, 2897-2904.	1.7	88