

Ludwig J Gauckler

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9416228/publications.pdf>

Version: 2024-02-01

331
papers

22,175
citations

9234

74
h-index

10708

138
g-index

363
all docs

363
docs citations

363
times ranked

16582
citing authors

#	ARTICLE	IF	CITATIONS
1	Processing Routes to Macroporous Ceramics: A Review. <i>Journal of the American Ceramic Society</i> , 2006, 89, 1771-1789.	1.9	1,567
2	Bioinspired Design and Assembly of Platelet Reinforced Polymer Films. <i>Science</i> , 2008, 319, 1069-1073.	6.0	946
3	Ultrastable Particle-Stabilized Foams. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 3526-3530.	7.2	542
4	Fabrication of thin electrolytes for second-generation solid oxide fuel cells. <i>Solid State Ionics</i> , 2000, 131, 79-96.	1.3	528
5	Thin Film Deposition Using Spray Pyrolysis. <i>Journal of Electroceramics</i> , 2005, 14, 103-111.	0.8	508
6	Stability of the perovskite phase LaBO ₃ (B = V, Cr, Mn, Fe, Co, Ni) in reducing atmosphere I. Experimental results. <i>Materials Research Bulletin</i> , 1979, 14, 649-659.	2.7	478
7	Structural and material approaches to bone tissue engineering in powder-based three-dimensional printing. <i>Acta Biomaterialia</i> , 2011, 7, 907-920.	4.1	396
8	Review on microfabricated micro-solid oxide fuel cell membranes. <i>Journal of Power Sources</i> , 2009, 194, 119-129.	4.0	378
9	La ₂ Zr ₂ O ₇ formation and oxygen reduction kinetics of the La _{0.85} Sr _{0.15} MnyO ₃ , O ₂ (g) YSZ system. <i>Solid State Ionics</i> , 1998, 111, 185-218.	1.3	323
10	Citric Acid-A Dispersant for Aqueous Alumina Suspensions. <i>Journal of the American Ceramic Society</i> , 1996, 79, 1857-1867.	1.9	322
11	Stabilization of Foams with Inorganic Colloidal Particles. <i>Langmuir</i> , 2006, 22, 10983-10988.	1.6	319
12	Adsorption of polyelectrolytes and its influence on the rheology, zeta potential, and microstructure of various cement and hydrate phases. <i>Journal of Colloid and Interface Science</i> , 2008, 323, 301-312.	5.0	314
13	Thin films for micro solid oxide fuel cells. <i>Journal of Power Sources</i> , 2007, 173, 325-345.	4.0	302
14	Sintering and properties of nanosized ceria solid solutions. <i>Solid State Ionics</i> , 2000, 135, 567-573.	1.3	292
15	Bovine Serum Albumin Adsorption onto Colloidal Al ₂ O ₃ Particles: A New Model Based on Zeta Potential and UV-Vis Measurements. <i>Langmuir</i> , 2004, 20, 10055-10061.	1.6	289
16	The Electrochemistry of Ni Pattern Anodes Used as Solid Oxide Fuel Cell Model Electrodes. <i>Journal of the Electrochemical Society</i> , 2001, 148, A646.	1.3	262
17	Materials design for perovskite SOFC cathodes. <i>Monatshefte für Chemie</i> , 2009, 140, 985-999.	0.9	256
18	Interaction of polycarboxylate-based superplasticizers with cements containing different C ₃ A amounts. <i>Cement and Concrete Composites</i> , 2009, 31, 153-162.	4.6	255

#	ARTICLE	IF	CITATIONS
19	Vanadium Oxide Nanotubesâ€”A New Flexible Vanadate Nanophase. <i>Advanced Materials</i> , 2000, 12, 231-234.	11.1	251
20	Macroporous Ceramics from Particle-Stabilized Wet Foams. <i>Journal of the American Ceramic Society</i> , 2007, 90, 16-22.	1.9	241
21	Contribution to the Phase Diagram Si ₃ N ₄ -AlN-Al ₂ O ₃ -SiO ₂ . <i>Journal of the American Ceramic Society</i> , 1975, 58, 346-347.	1.9	240
22	Engineering of Solid Oxide Fuel Cells with Ceriaâ€”Based Electrolytes. <i>Journal of the Electrochemical Society</i> , 1998, 145, 414-421.	1.3	218
23	Colloidal Stabilization of Nanoparticles in Concentrated Suspensions. <i>Langmuir</i> , 2007, 23, 1081-1090.	1.6	217
24	Microstrain and self-limited grain growth in nanocrystalline ceria ceramics. <i>Acta Materialia</i> , 2006, 54, 1721-1730.	3.8	212
25	A micro-solid oxide fuel cell system as battery replacement. <i>Journal of Power Sources</i> , 2008, 177, 123-130.	4.0	205
26	Influence of the dispersant structure on properties of electrostatically stabilized aqueous alumina suspensions. <i>Journal of the European Ceramic Society</i> , 1997, 17, 239-249.	2.8	199
27	Microstructures of CGO and YSZ Thin Films by Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , 2008, 18, 127-135.	7.8	189
28	Lysozyme and bovine serum albumin adsorption on uncoated silica and AlOOH-coated silica particles: the influence of positively and negatively charged oxide surface coatings. <i>Biomaterials</i> , 2005, 26, 4351-4357.	5.7	181
29	Stabilization of Oil-in-Water Emulsions by Colloidal Particles Modified with Short Amphiphiles. <i>Langmuir</i> , 2008, 24, 7161-7168.	1.6	177
30	Modelling Study of Surface Reactions, Diffusion, and Spillover at a Ni/YSZ Patterned Anode. <i>Journal of the Electrochemical Society</i> , 2009, 156, B663.	1.3	174
31	Ceramic forming using enzyme catalyzed reactions. <i>Materials Chemistry and Physics</i> , 1999, 61, 78-102.	2.0	172
32	Sintering of Nanocrystalline CeO ₂ Ceramics. <i>Advanced Materials</i> , 2001, 13, 1081-1085.	11.1	172
33	Microstructures and electrical conductivity of nanocrystalline ceria-based thin films. <i>Solid State Ionics</i> , 2006, 177, 2513-2518.	1.3	172
34	Microstructureâ€”Property Relations of Solid Oxide Fuel Cell Cathodes and Current Collectors: Cathodic Polarization and Ohmic Resistance. <i>Journal of the Electrochemical Society</i> , 1996, 143, 530-543.	1.3	171
35	Tailoring the Microstructure of Particle-Stabilized Wet Foams. <i>Langmuir</i> , 2007, 23, 1025-1032.	1.6	164
36	Change of ζ Potential of Biocompatible Colloidal Oxide Particles upon Adsorption of Bovine Serum Albumin and Lysozyme. <i>Journal of Physical Chemistry B</i> , 2005, 109, 14469-14474.	1.2	161

#	ARTICLE	IF	CITATIONS
37	Strength and reliability of four-unit all-ceramic posterior bridges. <i>Dental Materials</i> , 2005, 21, 930-937.	1.6	157
38	Solid oxide fuel cells with electrolytes prepared via spray pyrolysis. <i>Solid State Ionics</i> , 2004, 166, 229-239.	1.3	156
39	Processing of Particle-Stabilized Wet Foams Into Porous Ceramics. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3407-3414.	1.9	155
40	In vitro lifetime of dental ceramics under cyclic loading in water. <i>Biomaterials</i> , 2007, 28, 2695-2705.	5.7	150
41	Fatigue of zirconia under cyclic loading in water and its implications for the design of dental bridges. <i>Dental Materials</i> , 2007, 23, 106-114.	1.6	149
42	State-space modeling of the anodic SOFC system Ni, H ₂ -H ₂ O-YSZ. <i>Solid State Ionics</i> , 2002, 146, 23-41.	1.3	143
43	Electrochemical performance of LSCF based thin film cathodes prepared by spray pyrolysis. <i>Solid State Ionics</i> , 2007, 178, 407-415.	1.3	140
44	Micro Solid Oxide Fuel Cells on Glass Ceramic Substrates. <i>Advanced Functional Materials</i> , 2008, 18, 3158-3168.	7.8	138
45	The System Si ₃ N ₄ -SiO ₂ -Y ₂ O ₃ . <i>Journal of the American Ceramic Society</i> , 1980, 63, 35-37.	1.9	136
46	Reliability and strength of all-ceramic dental restorations fabricated by direct ceramic machining (DCM). <i>International Journal of Computerized Dentistry</i> , 2001, 4, 89-106.	0.2	135
47	Materials from foams and emulsions stabilized by colloidal particles. <i>Journal of Materials Chemistry</i> , 2007, 17, 3283.	6.7	132
48	Macroporous Ceramics from Particle-Stabilized Emulsions. <i>Advanced Materials</i> , 2008, 20, 4714-4718.	11.1	130
49	Thermodynamic assessment of the Co-O system. <i>Journal of Phase Equilibria and Diffusion</i> , 2003, 24, 212-227.	0.3	126
50	The microstructure of dispersed and non-dispersed fresh cement pastes - New insight by cryo-microscopy. <i>Cement and Concrete Research</i> , 2008, 38, 522-529.	4.6	117
51	Thermodynamic modeling of the ZrO ₂ -YO _{1.5} system. <i>Solid State Ionics</i> , 2004, 170, 255-274.	1.3	115
52	Effect of intergranular glass films on the electrical conductivity of 3Y-TZP. <i>Journal of Materials Research</i> , 1994, 9, 1228-1240.	1.2	107
53	Morphology and deposition of thin yttria-stabilized zirconia films using spray pyrolysis. <i>Thin Solid Films</i> , 2005, 474, 84-95.	0.8	107
54	Cyclic fatigue in water of veneer-framework composites for all-ceramic dental bridges. <i>Dental Materials</i> , 2007, 23, 177-185.	1.6	106

#	ARTICLE	IF	CITATIONS
55	On the calculation and representation of multicomponent systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 1979, 3, 241-257.	0.7	105
56	On Proton Conductivity in Porous and Dense Yttria Stabilized Zirconia at Low Temperature. <i>Advanced Functional Materials</i> , 2013, 23, 1957-1964.	7.8	105
57	Solid Oxide Fuel Cells: Systems and Materials. <i>Chimia</i> , 2004, 58, 837-850.	0.3	104
58	Electrochemical Characteristics of Cathodes in Solid Oxide Fuel Cells Based on Ceria Electrolytes. <i>Journal of the Electrochemical Society</i> , 1997, 144, 1635-1646.	1.3	101
59	Identification of the reaction mechanism of the Pt, O ₂ (g) yttria-stabilized zirconia system Part I: General framework, modelling, and structural investigation. <i>Solid State Ionics</i> , 1999, 117, 187-202.	1.3	100
60	Thermodynamic assessment of the copper-oxygen system. <i>Journal of Phase Equilibria and Diffusion</i> , 1994, 15, 483-499.	0.3	99
61	Reaction mechanism of Ni pattern anodes for solid oxide fuel cells. <i>Solid State Ionics</i> , 2000, 135, 337-345.	1.3	99
62	Identification of the reaction mechanism of the Pt, O ₂ (g) yttria-stabilized zirconia system Part II: Model implementation, parameter estimation, and validation. <i>Solid State Ionics</i> , 1999, 117, 203-217.	1.3	96
63	The quantitative calculation of SiC polytypes from measurements of X-ray diffraction peak intensities. <i>Journal of Materials Science</i> , 1979, 14, 2013-2017.	1.7	95
64	Characterization of solid oxide fuel cells based on solid electrolytes or mixed ionic electronic conductors. <i>Solid State Ionics</i> , 1996, 90, 91-104.	1.3	92
65	Sintering Analysis of Undoped and Cobalt Oxide Doped Ceria Solid Solutions. <i>Journal of the American Ceramic Society</i> , 2005, 88, 3013-3019.	1.9	92
66	Microscopic and Nanoscopic Three-Phase Boundaries of Platinum Thin-Film Electrodes on YSZ Electrolyte. <i>Advanced Functional Materials</i> , 2011, 21, 565-572.	7.8	89
67	Solid-Liquid Equilibria in the System Si ₃ N ₄ -AlN-SiO ₂ -Al ₂ O ₃ . <i>Journal of the American Ceramic Society</i> , 1978, 61, 332-335.	1.9	87
68	Agglomeration of Pt thin films on dielectric substrates. <i>Physical Review B</i> , 2010, 82, .	1.1	87
69	Coagulation Kinetics and Mechanical Behavior of Wet Alumina Green Bodies Produced via DCC. <i>Journal of Colloid and Interface Science</i> , 1999, 216, 379-386.	5.0	82
70	Direct Coagulation Casting of Silicon Carbide Components. <i>Journal of the American Ceramic Society</i> , 1999, 82, 1129-1136.	1.9	82
71	Capillary forces between two solid spheres linked by a concave liquid bridge: Regions of existence and forces mapping. <i>AIChE Journal</i> , 2009, 55, 1103-1109.	1.8	82
72	The bismuth-oxygen system. <i>Journal of Phase Equilibria and Diffusion</i> , 1995, 16, 223.	0.3	80

#	ARTICLE	IF	CITATIONS
73	Thermodynamic Assessment of the Silver–Oxygen System. <i>Journal of the American Ceramic Society</i> , 1997, 80, 3054-3060.	1.9	78
74	Crystallization and grain growth characteristics of yttria-stabilized zirconia thin films grown by pulsed laser deposition. <i>Solid State Ionics</i> , 2011, 191, 12-23.	1.3	78
75	Spray pyrolysis of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} thin film cathodes. <i>Journal of Electroceramics</i> , 2006, 16, 221-228.	0.8	77
76	Chemical Analysis of Spray Pyrolysis Gadolinia-Doped Ceria Electrolyte Thin Films for Solid Oxide Fuel Cells. <i>Chemistry of Materials</i> , 2007, 19, 1134-1142.	3.2	74
77	Nitride-Stabilized Cubic Zirconia. <i>Journal of the American Ceramic Society</i> , 1978, 61, 369-370.	1.9	73
78	Powder-Based Ceramic Meso- and Microscale Fabrication Processes. <i>Advanced Materials</i> , 2003, 15, 1237-1245.	11.1	73
79	Compositional range of the Bi ₂ Sr ₂ CaCu ₂ O _x Hf _c -superconductor and its surrounding phases. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 203, 299-314.	0.6	72
80	Nonstoichiometry and Defect Chemistry of Ceria Solid Solutions. , 1997, 1, 165-172.		72
81	Diffusing-Wave Spectroscopy of Concentrated Alumina Suspensions during Gelation. <i>Journal of Colloid and Interface Science</i> , 2001, 241, 89-97.	5.0	71
82	Oxidation states of Co and Fe in Ba _{1-x} Sr _x Co _{1-y} Fe _y O _{3-δ} (x, y = 0.2–0.8) and oxygen desorption in the temperature range 300–1273 K. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3090.	1.3	70
83	Yttria-stabilized zirconia thin films by pulsed laser deposition: Microstructural and compositional control. <i>Journal of the European Ceramic Society</i> , 2010, 30, 489-495.	2.8	70
84	Rheology of Concentrated Suspensions Containing Weakly Attractive Alumina Nanoparticles. <i>Journal of the American Ceramic Society</i> , 2006, 89, 2418-2425.	1.9	68
85	Alumina of high reliability by centrifugal casting. <i>Journal of the European Ceramic Society</i> , 1995, 15, 811-821.	2.8	67
86	Microstructure and electrical conductivity of nanocrystalline nickel- and nickel oxide/gadolinia-doped ceria thin films. <i>Acta Materialia</i> , 2008, 56, 677-687.	3.8	67
87	Platelet-reinforced polymer matrix composites by combined gel-casting and hot-pressing. Part I: Polypropylene matrix composites. <i>Composites Science and Technology</i> , 2010, 70, 1958-1965.	3.8	67
88	Thermodynamic Stability of Gadolinia-Doped Ceria Thin Film Electrolytes for Micro-Solid Oxide Fuel Cells. <i>Journal of the American Ceramic Society</i> , 2007, 90, 1792-1797.	1.9	66
89	Micro-solid oxide fuel cells: status, challenges, and chances. <i>Monatshefte für Chemie</i> , 2009, 140, 975-983.	0.9	66
90	Tailoring of La _x Sr _{1-x} Co _y Fe _{1-y} O _{3-δ} Nanostructure by Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , 2011, 21, 2764-2775.	7.8	66

#	ARTICLE	IF	CITATIONS
91	Mechanics and Microstructures of Concentrated Particle Gels. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2337-2348.	1.9	65
92	Revision of the thermodynamic descriptions of the Cu-O, Ag-O, Ag-Cu-O, Bi-Sr-O, Bi-Ca-O, Bi-Cu-O, Sr-Cu-O, Ca-Cu-O and Sr-Ca-Cu-O systems. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2003, 27, 177-191.	0.7	64
93	Mechanical and fracture behavior of veneer-framework composites for all-ceramic dental bridges. <i>Dental Materials</i> , 2007, 23, 115-123.	1.6	64
94	General Route for the Assembly of Functional Inorganic Capsules. <i>Langmuir</i> , 2009, 25, 12419-12424.	1.6	62
95	Competitive Adsorption of Citric Acid and Poly(vinyl alcohol) onto Alumina and Its Influence on the Binder Migration during Drying. <i>Journal of the American Ceramic Society</i> , 1995, 78, 1775-1780.	1.9	61
96	Bulk Metal Oxides as a Model for the Electronic Properties of Passive Films. <i>Journal of the Electrochemical Society</i> , 1995, 142, 3336-3342.	1.3	61
97	A Prediction Method for the Isoelectric Point of Binary Protein Mixtures of Bovine Serum Albumin and Lysozyme Adsorbed on Colloidal Titania and Alumina Particles. <i>Langmuir</i> , 2005, 21, 3493-3497.	1.6	61
98	Electrochemical performance of nanocrystalline nickel/gadolinia-doped ceria thin film anodes for solid oxide fuel cells. <i>Solid State Ionics</i> , 2008, 178, 1762-1768.	1.3	61
99	Thermodynamic assessment of the lanthanum-oxygen system. <i>Journal of Phase Equilibria and Diffusion</i> , 2001, 22, 105-113.	0.3	60
100	The Effect of Cobalt Oxide Addition on the Conductivity of Ce _{0.9} Gd _{0.1} O _{1.95} . <i>Journal of Electroceramics</i> , 2005, 15, 159-166.	0.8	59
101	Tape casting of nanocrystalline ceria gadolinia powder. <i>Journal of the European Ceramic Society</i> , 2004, 24, 3753-3758.	2.8	56
102	Crystallization and Grain Growth Kinetics for Precipitation-Based Ceramics: A Case Study on Amorphous Ceria Thin Films from Spray Pyrolysis. <i>Advanced Functional Materials</i> , 2009, 19, 2790-2799.	7.8	56
103	Thermal Conductivity of a Particulate-Diamond-Reinforced Cordierite Matrix Composite. <i>Journal of the American Ceramic Society</i> , 1994, 77, 1757-1760.	1.9	55
104	Strong and ductile platelet-reinforced polymer films inspired by nature: Microstructure and mechanical properties. <i>Journal of Materials Research</i> , 2009, 24, 2741-2754.	1.2	55
105	Microfabrication of Ceramics by Filling of Photoresist Molds. <i>Advanced Materials</i> , 2000, 12, 1261-1263.	11.1	54
106	Contact angle and adsorption behavior of carboxylic acids on γ -Al ₂ O ₃ surfaces. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 512-518.	5.0	54
107	Oxygen reduction at thin dense La _{0.52} Sr _{0.48} Co _{0.18} Fe _{0.82} O ₃ electrodes. <i>Journal of Electroceramics</i> , 2007, 18, 87-101.	0.8	51
108	Reaction kinetics of the Pt, O ₂ (g) c-ZrO ₂ system: precursor-mediated adsorption. <i>Solid State Ionics</i> , 1999, 120, 211-225.	1.3	50

#	ARTICLE	IF	CITATIONS
109	Thermodynamics and Phase Equilibria in the SrCuO System. Journal of the American Ceramic Society, 1992, 75, 2833-2842.	1.9	49
110	Electronic Conductivity of In ₂ O ₃ Solid Solutions with ZrO ₂ . Journal of the Electrochemical Society, 1994, 141, 2759-2768.	1.3	48
111	Gas Sensors Fabricated from Ceramic Suspensions by Micromolding in Capillaries. Advanced Materials, 2001, 13, 1790-1793.	11.1	48
112	Oxygen reduction at thin dense La _{0.52} Sr _{0.48} Co _{0.18} Fe _{0.82} O _{3-δ} electrodes. Journal of Electroceramics, 2007, 18, 111-120.	0.8	48
113	CeO ₂ -CoO Phase Diagram. Journal of the American Ceramic Society, 2003, 86, 1567-1570.	1.9	47
114	The strontium-oxygen system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 1996, 20, 353-361.	0.7	45
115	Crystallization of amorphous ceria solid solutions. Acta Materialia, 2007, 55, 3505-3512.	3.8	45
116	Mechanical properties of highly porous alumina foams. Journal of Materials Research, 2013, 28, 2281-2287.	1.2	45
117	Ceramic Parts Patterned in the Micrometer Range. Advanced Materials, 1999, 11, 630-632.	11.1	43
118	Time-Temperature-Transformation (TTT) Diagrams for Crystallization of Metal Oxide Thin Films. Advanced Functional Materials, 2010, 20, 2807-2814.	7.8	43
119	Assessment of the La-Sr-Mn-O system. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 2004, 28, 191-201.	0.7	42
120	Microstructure of cobalt oxide doped sintered ceria solid solutions. Journal of Electroceramics, 2006, 16, 191-197.	0.8	42
121	Engineering disorder in precipitation-based nano-scaled metal oxide thin films. Physical Chemistry Chemical Physics, 2010, 12, 11114.	1.3	42
122	Electrical conductivity and defect chemistry of $B_{1-x}S_{x-1}C_{1-y}F_{1-y}O_{3-\delta}$ perovskites. Journal of Solid State Electrochemistry, 2011, 15, 277-284.	1.2	42
123	Relation between microstructure and mechanical behavior of concentrated silica gels. Journal of Colloid and Interface Science, 2004, 273, 455-462.	5.0	41
124	Influence of CO ₂ on Ba _{0.2} Sr _{0.8} Co _{0.8} Fe _{0.2} O _{3-δ} at elevated temperatures. Scripta Materialia, 2009, 61, 1083-1086.	2.6	41
125	Residual Stress and Buckling Patterns of Free-standing Yttria-stabilized Zirconia Membranes Fabricated by Pulsed Laser Deposition. Fuel Cells, 2012, 12, 614-623.	1.5	41
126	Sintering Behavior of Cobalt Oxide Doped Ceria Powders of Different Particle Sizes. Journal of Electroceramics, 2005, 14, 247-253.	0.8	40

#	ARTICLE	IF	CITATIONS
127	The Leidenfrost effect during spray pyrolysis of nickel oxide-gadolinia doped ceria composite thin films. <i>Thin Solid Films</i> , 2009, 517, 1515-1521.	0.8	40
128	Thermodynamic Evaluation of the Bi-Cu-O System. <i>Journal of the American Ceramic Society</i> , 1996, 79, 353-358.	1.9	39
129	Analysis of the capillary forces between two small solid spheres binded by a convex liquid bridge. <i>Powder Technology</i> , 2010, 198, 211-218.	2.1	39
130	Mechanical Strength and Microstructure of Zinc Oxide Varistor Ceramics. <i>Journal of the American Ceramic Society</i> , 2004, 87, 1932-1938.	1.9	38
131	Patterning colloidal suspensions by selective wetting of microcontact-printed surfaces. <i>Journal of the European Ceramic Society</i> , 2004, 24, 2733-2739.	2.8	37
132	Microstructure characterization of a cobalt-oxide-doped cerium-gadolinium-oxide by analytical and high-resolution TEM. <i>Acta Materialia</i> , 2007, 55, 2907-2917.	3.8	37
133	Pre-edges in oxygen (1s) x-ray absorption spectra: A spectral indicator for electron hole depletion and transport blocking in iron perovskites. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	37
134	Initial stages of deposition and film formation during spray pyrolysis of Nickel oxide, cerium gadolinium oxide and mixtures thereof. <i>Thin Solid Films</i> , 2009, 517, 1522-1529.	0.8	37
135	<i>In Situ</i> Rheological Investigation of the Coagulation in Aqueous Alumina Suspensions. <i>Journal of the American Ceramic Society</i> , 2001, 84, 1733-1739.	1.9	36
136	Microstructural Control of Self-Setting Particle-Stabilized Ceramic Foams. <i>Journal of the American Ceramic Society</i> , 2011, 94, 77-83.	1.9	36
137	Assessment of the La-Mn-O system. <i>Journal of Phase Equilibria and Diffusion</i> , 2005, 26, 131-151.	0.5	35
138	Micro-hotplates—A platform for micro-solid oxide fuel cells. <i>Journal of Power Sources</i> , 2007, 166, 143-148.	4.0	35
139	Microstructures of YSZ and CGO Thin Films Deposited by Spray Pyrolysis: Influence of Processing Parameters on the Porosity. <i>Advanced Functional Materials</i> , 2012, 22, 3509-3518.	7.8	35
140	From imperfect to perfect Bi ₂ Sr ₂ CaCu ₂ O _x (Bi ²²¹²) grains. <i>Journal of Materials Research</i> , 1993, 8, 2170-2176.	1.2	34
141	Experimental Phase Diagram in the Ag ₂ O-CuO System. <i>Journal of the American Ceramic Society</i> , 1998, 81, 2181-2187.	1.9	34
142	Crystallization and Microstructure of Yttria-Stabilized Zirconia Thin Films Deposited by Spray Pyrolysis. <i>Advanced Functional Materials</i> , 2011, 21, 3967-3975.	7.8	34
143	Influence of microstructure on the cross-plane oxygen ion conductivity of yttria stabilized zirconia thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 1414-1422.	0.8	34
144	Ceramic Foam For Molten metal Filtration. <i>Jom</i> , 1985, 37, 47-50.	0.9	33

#	ARTICLE	IF	CITATIONS
145	Gelling of Alumina Suspensions Using Alginic Acid Salt and Hydroxylaluminum Diacetate. Journal of the American Ceramic Society, 2002, 85, 2711-2718.	1.9	33
146	Quantification of the heterogeneity of particle packings. Physical Review E, 2009, 80, 021302.	0.8	33
147	Thermodynamic modeling of phase equilibria in the Mn–Y–Zr–O system. Solid State Ionics, 2005, 176, 1457-1464.	1.3	32
148	Thermodynamic Equilibrium of Single-Chamber SOFC Relevant Methane–Air Mixtures. Journal of the Electrochemical Society, 2006, 153, A1378.	1.3	32
149	Designing macroporous polymers from particle-stabilized foams. Journal of Materials Chemistry, 2010, 20, 5628.	6.7	32
150	Flame spray deposition of La _{0.6} Sr _{0.4} CoO ₃ thin films: Microstructural characterization, electrochemical performance and degradation. Journal of Power Sources, 2010, 195, 8152-8161.	4.0	31
151	Platelet-reinforced polymer matrix composites by combined gel-casting and hot-pressing. Part II: Thermoplastic polyurethane matrix composites. Composites Science and Technology, 2010, 70, 1966-1972.	3.8	31
152	Determination of phase equilibria in the system Si-Al-Zr/N-O by experiment and thermodynamic calculation. Journal of Materials Science, 1981, 16, 2997-3005.	1.7	30
153	Thermodynamic Assessment of the La-Fe-O System. Journal of Phase Equilibria and Diffusion, 2009, 30, 351-366.	0.5	30
154	Macroporous polymers from particle-stabilized foams. Journal of Materials Chemistry, 2009, 19, 5129.	6.7	30
155	Oxygen-Vacancy-Related Structural Phase Transition of Ba _{0.8} Sr _{0.2} Co _{0.8} Fe _{0.2} O _{3-δ} . Chemistry of Materials, 2011, 23, 3169-3175.	3.2	30
156	Controlling Phase Distributions in Macroporous Composite Materials through Particle-Stabilized Foams. Langmuir, 2011, 27, 3254-3260.	1.6	30
157	Critical current density of Bi-2212 thick films processed by partial melting. Superconductor Science and Technology, 1997, 10, 32-40.	1.8	29
158	Processing of α -Silicon Nitride from Water-Based α -Silicon Nitride, Alumina, and Yttria Powder Suspensions. Journal of the American Ceramic Society, 1999, 82, 2039-2043.	1.9	29
159	Solid-state dewetting of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} thin films during annealing. Journal of the European Ceramic Society, 2008, 28, 49-60.	2.8	29
160	Macroporous polymers from particle-stabilized emulsions. Polymer, 2009, 50, 3645-3651.	1.8	29
161	Electrochemical Characterization of La _{0.58} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} Thin Film Electrodes Prepared by Pulsed Laser Deposition. Journal of the Electrochemical Society, 2012, 159, B471-B482.	1.3	29
162	Insolubility of Mg in beta-Si ₃ N ₄ in the System Al-Mg-Si-O-N. Journal of the American Ceramic Society, 1978, 61, 397-398.	1.9	28

#	ARTICLE	IF	CITATIONS
163	Calculation of heterogeneous phase equilibria in the SiAlON system. Journal of Materials Science, 1981, 16, 935-943.	1.7	28
164	The System Al-Mg-O-N. Journal of the American Ceramic Society, 1982, 65, c68-c69.	1.9	28
165	Microstructure of melt-processed $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$ and reaction mechanisms during post heat treatment. Journal of Materials Research, 1992, 7, 2948-2955.	1.2	28
166	Thermodynamic Assessment of the Ca-Cu-O System. Journal of the American Ceramic Society, 1995, 78, 2655-2661.	1.9	27
167	Quantification of Microstructures in Stable and Gelated Suspensions from Cryo-SEM. Journal of Colloid and Interface Science, 2002, 248, 340-346.	5.0	27
168	Thermodynamic assessment of the Mn-Y-O system. Journal of Alloys and Compounds, 2005, 393, 114-121.	2.8	27
169	Development of electron holes across the temperature-induced semiconductor-metal transition in $\text{Ba}_x\text{Sr}_x\text{Co}_x\text{Fe}_y\text{O}_{3-\delta}$ ($x < 1, y < 1$). <i>Journal of Applied Crystallography</i> , 2009, 42, 153-160.	0.7	27
170	Phase relations in the Ba-Sr-Co-Fe-O system at 1273 K in air. Journal of Applied Crystallography, 2009, 42, 153-160.	1.9	27
171	Self-setting particle-stabilized foams with hierarchical pore structures. Materials Letters, 2010, 64, 1468-1470.	1.3	27
172	Correlation between electrical properties and thermodynamic stability of ACoO_3 perovskites (A=La). <i>Journal of Applied Crystallography</i> , 2010, 43, 111-116.	1.1	27
173	The System $\text{Si}_3\text{N}_4\text{-SiO}_2\text{-ZrN-ZrO}_2$. Journal of the American Ceramic Society, 1979, 62, 632-634.	1.9	26
174	Thermodynamic optimization of the Ca-Cu and Sr-Cu systems. Calphad: Computer Coupling of Phase Diagrams and Thermochemistry, 1996, 20, 151-160.	0.7	26
175	Rheological behavior of aqueous suspensions of hydroxyapatite (HAP). Journal of Materials Science: Materials in Medicine, 2002, 13, 639-643.	1.7	26
176	Powder-Based Tin Oxide Microcomponents on Silicon Substrates Fabricated by Micromolding in Capillaries. Journal of the American Ceramic Society, 2003, 86, 407-12.	1.9	26
177	Controlling the formation of particle-stabilized water-in-oil emulsions. Soft Matter, 2012, 8, 7471.	1.2	26
178	Phase Equilibria in the System $\text{ZrO}_2\text{InO}_{1.5}$. Journal of the American Ceramic Society, 1993, 76, 689-698.	1.9	25
179	Assessment of the Mn-O system. Journal of Phase Equilibria and Diffusion, 2003, 24, 21-39.	0.3	25
180	Mechanical Properties of Coagulated Wet Particle Networks with Alkali-Swellable Thickeners. Journal of the American Ceramic Society, 2001, 84, 1689-1695.	1.9	25

#	ARTICLE	IF	CITATIONS
181	Small-angle static light scattering of concentrated silica suspensions during in situ destabilization. <i>Journal of Colloid and Interface Science</i> , 2004, 271, 388-399.	5.0	25
182	Capillary and van der Waals forces between uncharged colloidal particles linked by a liquid bridge. <i>Colloid and Polymer Science</i> , 2010, 288, 133-139.	1.0	25
183	Properties of Flame Sprayed $\text{Ce}_{0.8}\text{Gd}_{0.2}\text{O}_{1.9}$ Electrolyte Thin Films. <i>Advanced Functional Materials</i> , 2011, 21, 532-539.	7.8	25
184	Precursor Decomposition, Microstructure, and Porosity of Yttria Stabilized Zirconia Thin Films Prepared by Aerosol-Assisted Chemical Vapor Deposition. <i>Advanced Energy Materials</i> , 2013, 3, 375-385.	10.2	25
185	Direct Coagulation Casting via Increasing Ionic Strength. <i>Key Engineering Materials</i> , 2002, 224-226, 631-636.	0.4	24
186	In Situ Coagulation of High-Alumina Zero-Cement Refractory Castables. <i>Journal of the American Ceramic Society</i> , 2002, 85, 1947-1953.	1.9	24
187	Metallic foams from nanoparticle-stabilized wet foams and emulsions. <i>Journal of Materials Chemistry</i> , 2012, 22, 820-823.	6.7	24
188	Integration of Spin-Coated Nanoparticle-Based $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_3$ Cathodes into Micro-Solid Oxide Fuel Cell Membranes. <i>Fuel Cells</i> , 2013, 13, 441-444.	1.5	24
189	Thermodynamic assessment of the Ag-Cu-O system. <i>Journal of Phase Equilibria and Diffusion</i> , 1998, 19, 351-360.	0.3	23
190	Enzyme Catalysis of Alumina Forming. <i>Key Engineering Materials</i> , 1998, 159-160, 135-150.	0.4	22
191	Free-Standing Ultrathin Ceramic Foils. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3624-3631.	1.9	22
192	Impact of substrate material and annealing conditions on the microstructure and chemistry of yttria-stabilized-zirconia thin films. <i>Journal of Power Sources</i> , 2011, 196, 7372-7382.	4.0	22
193	A thermally self-sustained micro-power plant with integrated micro-solid oxide fuel cells, micro-reformer and functional micro-fluidic carrier. <i>Journal of Power Sources</i> , 2014, 258, 434-440.	4.0	22
194	Effect of Ionic Substitution on the Thermal Expansion of ZrTiO_4 . <i>Journal of the American Ceramic Society</i> , 1991, 74, 2205-2208.	1.9	21
195	Thermodynamic Assessment of the Bismuth-Calcium-Oxygen Oxide System. <i>Journal of the American Ceramic Society</i> , 1997, 80, 2629-2636.	1.9	21
196	Influence of microstructure on the rheological behavior of dense particle gels. <i>AIChE Journal</i> , 2005, 51, 134-141.	1.8	21
197	Calculation of defect chemistry using the CALPHAD approach. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2006, 30, 33-41.	0.7	21
198	Thermodynamic modeling of the La-Mn-Y-Zr-O system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2006, 30, 489-500.	0.7	21

#	ARTICLE	IF	CITATIONS
199	Wet-etching of precipitation-based thin film microstructures for micro-solid oxide fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 2669-2676.	4.0	21
200	Thermodynamics and Phase Equilibria in the CaCuO System. <i>Journal of the American Ceramic Society</i> , 1994, 77, 41-48.	1.9	20
201	Dealloying of Platinum-Aluminum Thin Films: Dynamics of Pattern Formation. <i>Physical Review Letters</i> , 2011, 107, 225503.	2.9	20
202	Effects of A-site composition and oxygen nonstoichiometry on the thermodynamic stability of compounds in the Ba-Sr-Co-Fe-O system. <i>Journal of Solid State Chemistry</i> , 2013, 200, 354-362.	1.4	20
203	Experimental phase diagram determination and thermodynamic assessment of the La ₂ O ₃ -SrO system. <i>Acta Materialia</i> , 2002, 50, 2209-2222.	3.8	19
204	Experimental Phase Diagram Study and Thermodynamic Optimization of the Ag-Bi-O System. <i>Journal of the American Ceramic Society</i> , 1999, 82, 711-715.	1.9	19
205	Assessment of the Sr-Mn-O system. <i>Journal of Phase Equilibria and Diffusion</i> , 2004, 25, 311-319.	0.5	19
206	Thermodynamic Assessment of the Bismuth-Strontium-Oxygen Oxide System. <i>Journal of the American Ceramic Society</i> , 1997, 80, 1085-1094.	1.9	19
207	Microstructures and mechanical properties of dense particle gels: Microstructural characterisation. <i>Journal of the European Ceramic Society</i> , 2008, 28, 1443-1449.	2.8	19
208	The impact of etching during microfabrication on the microstructure and the electrical conductivity of gadolinia-doped ceria thin films. <i>Journal of Power Sources</i> , 2011, 196, 6070-6078.	4.0	19
209	Hillock formation of Pt thin films on single-crystal yttria-stabilized zirconia. <i>Physical Review B</i> , 2012, 85, .	1.1	19
210	Lanthanum nickelate thin films deposited by spray pyrolysis: Crystallization, microstructure and electrochemical properties. <i>Journal of the European Ceramic Society</i> , 2012, 32, 1701-1709.	2.8	19
211	Nanoporous Ni-Ce _{0.8} Gd _{0.2} O _{1.9} thin film cermet SOFC anodes prepared by pulsed laser deposition. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3663.	1.3	18
212	Unifying Model for the Electrokinetic and Phase Behavior of Aqueous Suspensions Containing Short and Long Amphiphiles. <i>Langmuir</i> , 2011, 27, 11835-11844.	1.6	18
213	Accuracy of the toroidal approximation for the calculus of concave and convex liquid bridges between particles. <i>Granular Matter</i> , 2011, 13, 487-492.	1.1	18
214	Flame spray deposition of nanocrystalline dense Ce _{0.8} Gd _{0.2} O ₂ thin films: Deposition mechanism and microstructural characterization. <i>Solid State Ionics</i> , 2011, 192, 464-471.	1.3	18
215	Fuel Cell Modeling and Simulations. <i>Chimia</i> , 2004, 58, 857-868.	0.3	17
216	CALPHAD modeling of the La ₂ O ₃ -Y ₂ O ₃ system. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2005, 29, 103-113.	0.7	17

#	ARTICLE	IF	CITATIONS
217	Electron hole-phonon interaction, correlation of structure, and conductivity in single crystal $\text{La}_{0.9}\text{Sr}_{0.1}\text{FeO}_3$. Applied Physics Letters, 2008, 93, .	1.5	17
218	Correlation of O (1s) and Fe (2p) near edge x-ray absorption fine structure spectra and electrical conductivity of $\text{La}_{1-x}\text{Sr}_x\text{Fe}_{0.75}\text{Ni}_{0.25}\text{O}_3$. Applied Physics Letters, 2009, 95, 174108.	1.5	17
219	Tailoring the hierarchical pore structures in self-setting particle-stabilized foams made from calcium aluminate cement. Materials Letters, 2012, 70, 152-154.	1.3	17
220	Crystallisation of Foturan® glass-ceramics. Journal of the European Ceramic Society, 2012, 32, 203-210.	2.8	17
221	Micropatterned Ceramics by Casting into Polymer Molds. Journal of the American Ceramic Society, 2002, 85, 1885-1887.	1.9	16
222	Yielding of weakly attractive nanoparticle networks. Soft Matter, 2011, 7, 6408.	1.2	16
223	Temperature-dependent 2-D to 3-D growth transition of ultra-thin Pt films deposited by PLD. Acta Materialia, 2013, 61, 3297-3303.	3.8	16
224	Thermodynamic Assessment of the Strontium-Copper-Oxygen System. Journal of the American Ceramic Society, 1997, 80, 527-536.	1.9	15
225	Grain Growth of Micron-Sized Grains in Undoped and Cobalt Oxide Doped Ceria Solid Solutions. Journal of the Ceramic Society of Japan, 2006, 114, 963-969.	1.3	15
226	Micro-solid oxide fuel cells using free-standing 3mol.% yttria-stabilised-tetragonal-zirconia-polycrystal electrolyte foils. Journal of Power Sources, 2011, 196, 10069-10073.	4.0	15
227	Thermodynamic modeling of $\text{La}_2\text{O}_3\text{-SrO-Mn}_2\text{O}_3\text{-Cr}_2\text{O}_3$ for solid oxide fuel cell applications. Journal of Materials Research, 2012, 27, 1915-1926.	1.2	15
228	Assessment of the Mn-O System. Journal of Phase Equilibria and Diffusion, 2003, 24, 21-39.	0.3	15
229	Further Study of the Be-Si-O-N Polytypes. Journal of the American Ceramic Society, 1977, 60, 470-471.	1.9	14
230	Phase Equilibria in the System $\text{Al}_4\text{C}_3\text{-Be}_2\text{C-SiC}$. Journal of the American Ceramic Society, 1979, 62, 574-576.	1.9	14
231	Entanglement of charge transfer, hole doping, exchange interaction, and octahedron tilting angle and their influence on the conductivity of $\text{La}_{1-x}\text{Sr}_x\text{Fe}_{0.75}\text{Ni}_{0.25}\text{O}_3$: A combination of x-ray spectroscopy and diffraction. Journal of Applied Physics, 2010, 108, .	1.1	14
232	Functionalization of Microstructured Open-Porous Bioceramic Scaffolds with Human Fetal Bone Cells. Bioconjugate Chemistry, 2012, 23, 2278-2290.	1.8	14
233	A high-temperature furnace for X-ray diffraction with directly machined Al_2O_3 ceramic parts. Journal of Applied Crystallography, 1999, 32, 833-836.	1.9	13
234	Chemical Aspects of Direct Coagulation Casting of Alumina Suspensions. Journal of the American Ceramic Society, 2004, 87, 1530-1535.	1.9	13

#	ARTICLE	IF	CITATIONS
235	Nonlinear oxidation kinetics of nickel cermets. <i>Acta Materialia</i> , 2011, 59, 6239-6245.	3.8	13
236	Syngas generation from n-butane with an integrated MEMS assembly for gas processing in micro-solid oxide fuel cell systems. <i>Lab on A Chip</i> , 2012, 12, 4894.	3.1	13
237	Microstructure and properties of melt-processed Bi-2212 (Bi ₂ Sr ₂ CaCu ₂ O _x). <i>Journal of Electronic Materials</i> , 1993, 22, 1279-1283.	1.0	12
238	Generation of porous particle structures using the void expansion method. <i>Granular Matter</i> , 2009, 11, 201-208.	1.1	12
239	Analyzing a micro-solid oxide fuel cell system by global energy balances. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10318-10327.	3.8	11
240	Some Properties of $\text{Si}_6\text{-xAl}_x\text{O}_x\text{N}_{8\text{-x}}$. , 1977, , 529-538.		11
241	Neutron scattering studies of Bi ₂ Sr ₂ Ca _{0.5} Ho _{0.5} Cu ₂ O _{8+x} . <i>European Physical Journal B</i> , 1991, 85, 35-41.	0.6	10
242	Thermodynamic Modeling and Calculation of Phase Equilibria in the Strontium-Calcium-CopperOxygen System at Ambient Pressure. <i>Journal of the American Ceramic Society</i> , 1997, 80, 537-550.	1.9	10
243	Microfabrication of Ceramics based on Colloidal Suspensions and Photoresist Masks.. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2001, 14, 449-452.	0.1	10
244	Pickering emulsions stabilized by in situ grown biologically active alkyl gallate microneedles. <i>RSC Advances</i> , 2012, 2, 8614.	1.7	10
245	Gadolinia Doped Ceria Thin Films Prepared by Aerosol Assisted Chemical Vapor Deposition and Applications in Intermediate-Temperature Solid Oxide Fuel Cells. <i>Fuel Cells</i> , 2013, 13, 658-665.	1.5	10
246	Phase Equilibria in the System AlN-Si ₃ N ₄ -Be ₃ N ₂ . <i>Journal of the American Ceramic Society</i> , 1980, 63, 32-35.	1.9	9
247	Iron-resonant valence band photoemission and oxygen near edge x-ray absorption fine structure study on La _{1-x} Sr _x Fe _{0.75} Ni _{0.25} O ₃ . <i>Applied Physics Letters</i> , 2010, 97, 124101.	1.5	9
248	Electrical conductivity and crystallization of amorphous bismuth ruthenate thin films deposited by spray pyrolysis. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13933.	1.3	9
249	Dealloying of platinum-aluminum thin films: Electrode performance. <i>Physical Review B</i> , 2011, 84, .	1.1	9
250	Synthesis of bone-like structured foams. <i>Journal of the European Ceramic Society</i> , 2013, 33, 1497-1505.	2.8	9
251	Phase Equilibrium Studies in Si ₃ N ₄ - Metal Oxides Systems. , 1983, , 89-99.		9
252	Synthesis and Phase Transition of HgTiO ₃ . <i>Ferroelectrics</i> , 2006, 337, 71-76.	0.3	8

#	ARTICLE	IF	CITATIONS
253	Thermodynamic assessment of the Mn-Cr-O system for solid oxide fuel cell (SOFC) materials. International Journal of Materials Research, 2006, 97, 569-578.	0.8	8
254	La _{0.6} Sr _{0.4} CoO _{3-δ} Thin Films Prepared by Pulsed Laser Deposition as Cathodes for Micro-Solid Oxide Fuel Cells. ECS Transactions, 2012, 45, 333-336.	0.3	8
255	SAM/AES analysis of grain boundaries in zirconia ceramics. Fresenius' Journal of Analytical Chemistry, 1995, 353, 684-689.	1.5	7
256	Direct Coagulation Casting of Alumina Suspensions Using Jack Bean as a Urease Source. Journal of the American Ceramic Society, 2002, 85, 1695-1698.	1.9	7
257	Characterization of thin films for solid oxide fuel cells facilitated by micropatterning. Scripta Materialia, 2011, 65, 84-89.	2.6	7
258	Time-dependent analysis of agglomerating Pt thin films on YSZ single crystals. Comptes Rendus Physique, 2013, 14, 590-600.	0.3	7
259	Experimental Phase Diagram Determination and Thermodynamic Assessment of the CeO ₂ -Gd ₂ O ₃ System. Journal of the American Ceramic Society, 2013, 96, 613-626.		
260	Thermodynamic Optimization of the Silver-Bismuth-Strontium-Calcium-Copper-Oxygen (Ag-Bi-Sr-Ca-Cu-O) System. Journal of the American Ceramic Society, 2000, 83, 911-914.	1.9	6
261	Stability of NiO membranes on photostructurable glass substrates for micro solid oxide fuel cells. Thin Solid Films, 2009, 517, 1582-1586.	0.8	6
262	High temperature oxygen near edge x-ray absorption fine structure valence band spectra and conductivity of LaFe _{3/4} Ni _{1/4} O ₃ from 300 to 773 K. Applied Physics Letters, 2011, 99, 202112.	1.5	6
263	Backbone of conductivity in two-dimensional metal-insulator composites. Journal of Applied Physics, 2011, 110, 024909.	1.1	6
264	Engineering macroporous composite materials using competitive adsorption in particle-stabilized foams. Journal of Colloid and Interface Science, 2012, 383, 1-12.	5.0	6
265	The influence of the degree of heterogeneity on the elastic properties of random sphere packings. Granular Matter, 2012, 14, 333-340.	1.1	6
266	Crystallization of zirconia based thin films. Physical Chemistry Chemical Physics, 2015, 17, 18613-18620.	1.3	6
267	TEM studies on Al ₄ C ₃ · $\frac{1}{2}$ Be ₂ C. Journal of Materials Science, 1979, 14, 2741-2746.	1.7	5
268	Imaging Current Flow Distributions in Polycrystalline Bi ₂ Sr ₂ CaCu ₂ O _x Superconductors by Magnetic Force Microscopy. Advanced Materials, 1998, 10, 1442-1448.	11.1	5
269	Powder synthesis of (Bi, Pb)-1212 superconductors. Superconductor Science and Technology, 2000, 13, 1476-1486.	1.8	5
270	Advanced ceramics in wire bonding capillaries for semiconductor package technology. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 498, 129-134.	2.6	5

#	ARTICLE	IF	CITATIONS
271	Roles of Dopants in Sintering Behavior of ZnO-Based Varistor. Key Engineering Materials, 0, 368-372, 479-482.	0.4	5
272	Stochastic generation of particle structures with controlled degree of heterogeneity. Granular Matter, 2010, 12, 437-446.	1.1	5
273	Sample - substrate interactions during melting of Bi-2212 on Ag. Superconductor Science and Technology, 1997, 10, 311-317.	1.8	4
274	Experimental Phase Diagram Study and Thermodynamic Optimization of the Silver-Strontium-Copper-Oxygen (Ag-Sr-Cu-O) and Silver-Calcium-Copper-Oxygen (Ag-Ca-Cu-O) Systems. Journal of the American Ceramic Society, 1999, 82, 3591-3596.	1.1	4
275	Ostwald Ripening and Oxidation Kinetics of Nickel Gadolinia Doped Ceria Anodes. ECS Transactions, 2009, 25, 2057-2060.	0.3	4
276	Hollow calcium aluminate microcapsules with porous shell microstructure and unique mechanical properties. Journal of Materials Chemistry, 2011, 21, 16524.	6.7	4
277	Residual Stress and Buckling Patterns of Yttria-Stabilised-Zirconia Thin Films for Micro-Solid Oxide Fuel Cell Membranes. ECS Transactions, 2012, 45, 475-479.	0.3	4
278	Industrial Application of Open Pore Ceramic Foam for Molten Metal Filtration. , 2016, , 251-262.		4
279	Augerelektronenspektroskopie an Bruchflächen von Nickel-Wolfram-Verbundwerkstoffen und Siliziumnitrid. Mikrochimica Acta Supplementum, 1975, , 373-382.	0.3	4
280	Thermodynamic Reassessment of the Cr-O System in the Framework of Solid Oxide Fuel Cell (SOFC) Research. Journal of Phase Equilibria and Diffusion, 2006, 27, 353-362.	0.5	4
281	Microstructure-Property Relations of Solid Oxide Fuel Cells. Microstructural Design of Cathodes and Current Collectors. Electrochemistry, 1996, 64, 654-661.	0.3	4
282	Processing and Properties of Advanced Structural Ceramics. , 1989, , 59-105.		3
283	$\text{La}_{2}\text{Zr}_{2}\text{O}_{7}$ Formation Between Yttria-Stabilized Zirconia and $\text{La}_{0.85}\text{Sr}_{0.15}\text{MnO}_{3}$ at 1373 K. Materials Research Society Symposia Proceedings, 1996, 453, 525.	0.1	3
284	Grain Boundary Blocking Effect in Yttria Stabilized Zirconia Thin Films. ECS Transactions, 2012, 45, 189-192.	0.3	3
285	Grain and Grain Boundary Conductivities in Nanocrystalline Yttria-Stabilized-Zirconia Thin Films. ECS Transactions, 2012, 45, 235-239.	0.3	3
286	Investigation of the Mechanical Stability of Micro-Solid Oxide Fuel Cell Membranes Using Scanning Laser Vibrometry. Fuel Cells, 2013, 13, 695-702.	1.5	3
287	Platinum-Based Nanowire Networks with Enhanced Oxygen-Reduction Activity. Physical Review Applied, 2014, 2, .	1.5	3
288	Thermodynamics and Phase Diagram of the Ag-Cu-O System. , 1995, , 373-376.		3

#	ARTICLE	IF	CITATIONS
289	High Pressure Synthesis and Phase Transition of HgTiO ₃ . <i>Ferroelectrics</i> , 2005, 326, 117-121.	0.3	2
290	Thermodynamic reassessment of the Cr ²⁺ O system in the framework of solid oxide fuel cell (SOFC) research. <i>Journal of Phase Equilibria and Diffusion</i> , 2006, 27, 353-362.	0.5	2
291	Nucleation and Grain Growth Kinetics of Amorphous to Nanocrystalline Ceria Solid Solutions. <i>Materials Science Forum</i> , 2007, 558-559, 1339-1344.	0.3	2
292	Phase Equilibria in the Sr-Ca-Cu-O system. , 1995, , 357-360.		2
293	Modelling of Thermodynamics and Phase Equilibria in Selected Subsystems of the Bi-Sr-Ca-Cu-O System. , 1995, , 361-364.		2
294	Assessment of the Sr-Mn-O System. <i>Journal of Phase Equilibria and Diffusion</i> , 2004, 25, 311-319.	0.5	2
295	Assessment of the La-Mn-O System. <i>Journal of Phase Equilibria and Diffusion</i> , 2005, 26, 131-151.	0.5	2
296	Critical Current Densities J _C (H,T) and Current-Voltage Characteristics in Melt Processed Bi-2212 with and without Preferential Orientation. <i>Materials Research Society Symposia Proceedings</i> , 1992, 275, 383.	0.1	1
297	Destabilization of High Solids Loading Al ₂ O ₃ Particle Suspensions with Alkali Swellable Polymers Via Enzyme Assisted Reactions. <i>Key Engineering Materials</i> , 2000, 175-176, 31-42.	0.4	1
298	Spatial and force resolution of magnetic force microscopy in current imaging. <i>European Physical Journal D</i> , 1999, 49, 1567-1574.	0.4	1
299	Thermodynamic assessment of the BiO ²⁺ –SrO ²⁺ –CaO system. <i>Physica C: Superconductivity and Its Applications</i> , 2004, 406, 189-200.	0.6	1
300	Influence of Short-Chain Carboxylic Acids on the Mechanical Properties and Structure of Coagulated Alumina Suspensions. <i>Journal of the American Ceramic Society</i> , 2005, 88, 2504-2509.	1.9	1
301	Adsorption of Biomolecules on Ceramic Particles and the Impact on Biomedical Applications. <i>Advances in Science and Technology</i> , 2006, 45, 741.	0.2	1
302	Ba _{1-x} Sr _x Co _{1-y} FeyO _{3-δ} Perovskites Bulk and Thin Films: Phase Compositions and Electrical Conductivity. <i>ECS Transactions</i> , 2007, 7, 1225-1228.	0.3	1
303	Foturan® Glass Ceramic - a Substrate for Power Delivering Free-standing μ-SOFC Membranes. <i>ECS Transactions</i> , 2009, 25, 983-988.	0.3	1
304	Guidelines for Thin Film Usage and Microfabrication for Solid Oxide Fuel Cell Application. <i>ECS Transactions</i> , 2009, 25, 925-930.	0.3	1
305	Miniaturized Low-temperature Solid Oxide Fuel Cells with an Yttria-stabilized-zirconia Foil Electrolyte. <i>ECS Transactions</i> , 2009, 25, 989-993.	0.3	1
306	Size and Microstructure Control of Calcium Aluminate Microcapsules. <i>Journal of the American Ceramic Society</i> , 2012, 95, 2481-2490.	1.9	1

#	ARTICLE	IF	CITATIONS
307	Thin Films: On Proton Conductivity in Porous and Dense Yttria Stabilized Zirconia at Low Temperature (Adv. Funct. Mater. 15/2013). Advanced Functional Materials, 2013, 23, 1858-1858.	7.8	1
308	Influence of Anode Thickness on the Electrochemical Performance of Single Chamber Solid Oxide Fuel Cells. Ceramic Engineering and Science Proceedings, 0, , 37-45.	0.1	1
309	Thermal and Isothermal Expansion. , 2000, , 347-358.		1
310	Glass Seals. , 2000, , 389-397.		1
311	Micromachined Nanoparticulate Ceramic Gas Sensor Array on MemS Substrates. Materials Research Society Symposia Proceedings, 2001, 687, 1.	0.1	0
312	High Load Bearing, High Reliable All-Ceramic Bridges. Key Engineering Materials, 2002, 218-220, 557-560.	0.4	0
313	CeO ₂ –CoO Phase Diagram.. ChemInform, 2003, 34, no.	0.1	0
314	Thermodynamic calculation of the BiO _{1.5} –CaO–CuO _x system. Physica C: Superconductivity and Its Applications, 2004, 406, 201-204.	0.6	0
315	Solid Oxide Fuel Cells: Systems and Materials. ChemInform, 2005, 36, no.	0.1	0
316	Thermodynamic Assessment of the Mn–Y–O System.. ChemInform, 2005, 36, no.	0.1	0
317	LSCF Thin Film Cathodes Deposited by Spray Pyrolysis for Micro-SOFC. ECS Transactions, 2007, 7, 1139-1145.	0.3	0
318	ONEBAT: Micro-Solid Oxide Fuel Cells for Battery Replacement in Portables. ECS Transactions, 2007, 7, 887-890.	0.3	0
319	Micro-Hotplate Devices for Micro-SOFC. ECS Transactions, 2007, 7, 421-427.	0.3	0
320	Synthesis and characterization of Li _{1/3} Ce _{2/3} PO ₄ and LiCe _{2/3} PO ₄ ceramics. Journal of Physics Condensed Matter, 2007, 19, 106204.	0.7	0
321	Phase Transformation in Spray Pyrolysis Yttria-stabilized Zirconia Thin Films. ECS Transactions, 2009, 25, 1551-1554.	0.3	0
322	Electrochemical Characterization of Micro-Patterned La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ Thin Film Structures on Fused Silica. ECS Transactions, 2009, 25, 2391-2396.	0.3	0
323	Self-Limited to Parabolic Grain Growth Kinetics in Metal Oxide Thin Films. Materials Science Forum, 2012, 715-716, 333-333.	0.3	0
324	Thermodynamic Stability and Microscopic Behavior of Ba _x Sr _{1-x} Co _y Fe _y O _{3-δ} Perovskites. , 0, ,		0

#	ARTICLE	IF	CITATIONS
325	Fabrication Processes for Electroceramic Components. , 2000, , 165-243.		0
326	Metallic Interconnector. , 2000, , 375-387.		0
327	Temperature Limitations in the Processing Sequence of Solid Oxide Fuel Cells. , 2000, , 359-374.		0
328	Grain Boundary Blocking Effect in YSZ Thin Films. ECS Meeting Abstracts, 2012, , .	0.0	0
329	Phase Equilibria and Thermodynamics in the Sr-Cu-O and Ca-Cu-O Systems. , 1993, , 399-402.		0
330	Phase Equilibria in Parts of the System Bi-Sr-Ca-Oxide at 820 and 900°C in Air. , 1995, , 365-368.		0
331	Optimization of Parameters and Microstructural Properties of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O _{3-$\hat{\nu}$} Thin Films Grown by Pulsed Laser Deposition (PLD). Journal of New Materials for Electrochemical Systems, 2014, 17, 257-263.	0.3	0