

# Ludwig J Gauckler

## List of Publications by Year in descending order

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331  
papers

22,175  
citations

9264

74  
h-index

10734

138  
g-index

363  
all docs

363  
docs citations

363  
times ranked

16582  
citing authors

#	ARTICLE	IF	CITATIONS
1	Industrial Application of Open Pore Ceramic Foam for Molten Metal Filtration. , 2016, , 251-262.		4
2	Crystallization of zirconia based thin films. Physical Chemistry Chemical Physics, 2015, 17, 18613-18620.	2.8	6
3	Platinum-Based Nanowire Networks with Enhanced Oxygen-Reduction Activity. Physical Review Applied, 2014, 2, .	3.8	3
4	A thermally self-sustained micro-power plant with integrated micro-solid oxide fuel cells, micro-reformer and functional micro-fluidic carrier. Journal of Power Sources, 2014, 258, 434-440.	7.8	22
5	Optimization of Parameters and Microstructural Properties of Ba <sub>0.5</sub> Sr <sub>0.5</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-<math>\delta</math></sub> Thin Films Grown by Pulsed Laser Deposition (PLD). Journal of New Materials for Electrochemical Systems, 2014, 17, 257-263.	0.6	0
6	Integration of Spin-Coated Nanoparticulate-Based La <sub>0.6</sub> Sr <sub>0.4</sub> CoO <sub>3-<math>\delta</math></sub> Cathodes into Micro-Solid Oxide Fuel Cell Membranes. Fuel Cells, 2013, 13, 441-444.	2.4	24
7	Synthesis of bone-like structured foams. Journal of the European Ceramic Society, 2013, 33, 1497-1505.	5.7	9
8	Investigation of the Mechanical Stability of Micro-Solid Oxide Fuel Cell Membranes Using Scanning Laser Vibrometry. Fuel Cells, 2013, 13, 695-702.	2.4	3
9	Time-dependent analysis of agglomerating Pt thin films on YSZ single crystals. Comptes Rendus Physique, 2013, 14, 590-600.	0.9	7
10	Temperature-dependent 2-D to 3-D growth transition of ultra-thin Pt films deposited by PLD. Acta Materialia, 2013, 61, 3297-3303.	7.9	16
11	Effects of A-site composition and oxygen nonstoichiometry on the thermodynamic stability of compounds in the Ba-Sr-Co-Fe-O system. Journal of Solid State Chemistry, 2013, 200, 354-362.	2.9	20
12	On Proton Conductivity in Porous and Dense Yttria Stabilized Zirconia at Low Temperature. Advanced Functional Materials, 2013, 23, 1957-1964.	14.9	105
13	Mechanical properties of highly porous alumina foams. Journal of Materials Research, 2013, 28, 2281-2287.	2.6	45
14	Gadolinia Doped Ceria Thin Films Prepared by Aerosol Assisted Chemical Vapor Deposition and Applications in Intermediate-Temperature Solid Oxide Fuel Cells. Fuel Cells, 2013, 13, 658-665.	2.4	10
15	Precursor Decomposition, Microstructure, and Porosity of Yttria Stabilized Zirconia Thin Films Prepared by Aerosol-Assisted Chemical Vapor Deposition. Advanced Energy Materials, 2013, 3, 375-385.	19.5	25
16	Experimental Phase Diagram Determination and Thermodynamic Assessment of the CeO <sub>2</sub> -Gd <sub>2</sub> O <sub>3</sub> System. Journal of the American Ceramic Society, 2013, 96, 613-626.	14.8	37
17	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.	14.9	1
18	Self-Limited to Parabolic Grain Growth Kinetics in Metal Oxide Thin Films. Materials Science Forum, 2012, 715-716, 333-333.	0.3	0

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19	Hillock formation of Pt thin films on single-crystal yttria-stabilized zirconia. <i>Physical Review B</i> , 2012, 85, .	3.2	19
20	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. <i>Journal of Materials Research</i> , 2012, 27, 1915-1926.	2.6	15
21	Grain Boundary Blocking Effect in Yttria Stabilized Zirconia Thin Films. <i>ECS Transactions</i> , 2012, 45, 189-192.	0.5	3
22	Electrochemical Characterization of $\text{La}_{0.58}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ Thin Film Electrodes Prepared by Pulsed Laser Deposition. <i>Journal of the Electrochemical Society</i> , 2012, 159, B471-B482.	2.9	29
23	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.	6.0	13
24	Analyzing a micro-solid oxide fuel cell system by global energy balances. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 10318-10327.	7.1	11
25	Engineering macroporous composite materials using competitive adsorption in particle-stabilized foams. <i>Journal of Colloid and Interface Science</i> , 2012, 383, 1-12.	9.4	6
26	Functionalization of Microstructured Open-Porous Bioceramic Scaffolds with Human Fetal Bone Cells. <i>Bioconjugate Chemistry</i> , 2012, 23, 2278-2290.	3.6	14
27	Controlling the formation of particle-stabilized water-in-oil emulsions. <i>Soft Matter</i> , 2012, 8, 7471.	2.7	26
28	Metallic foams from nanoparticle-stabilized wet foams and emulsions. <i>Journal of Materials Chemistry</i> , 2012, 22, 820-823.	6.7	24
29	Pickering emulsions stabilized by in situ grown biologically active alkyl gallate microneedles. <i>RSC Advances</i> , 2012, 2, 8614.	3.6	10
30	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.	1.8	34
31	Grain and Grain Boundary Conductivities in Nanocrystalline Yttria-Stabilized-Zirconia Thin Films. <i>ECS Transactions</i> , 2012, 45, 235-239.	0.5	3
32	$\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_3$ Thin Films Prepared by Pulsed Laser Deposition as Cathodes for Micro-Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2012, 45, 333-336.	0.5	8
33	Residual Stress and Buckling Patterns of Yttria-Stabilised-Zirconia Thin Films for Micro-Solid Oxide Fuel Cell Membranes. <i>ECS Transactions</i> , 2012, 45, 475-479.	0.5	4
34	Residual Stress and Buckling Patterns of Free-standing Yttria-stabilized-zirconia Membranes Fabricated by Pulsed Laser Deposition. <i>Fuel Cells</i> , 2012, 12, 614-623.	2.4	41
35	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.	14.9	35
36	The influence of the degree of heterogeneity on the elastic properties of random sphere packings. <i>Granular Matter</i> , 2012, 14, 333-340.	2.2	6

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37	Size and Microstructure Control of Calcium Aluminate Microcapsules. Journal of the American Ceramic Society, 2012, 95, 2481-2490.	3.8	1
38	Tailoring the hierarchical pore structures in self-setting particle-stabilized foams made from calcium aluminate cement. Materials Letters, 2012, 70, 152-154.	2.6	17
39	Crystallisation of Foturan® glass-ceramics. Journal of the European Ceramic Society, 2012, 32, 203-210.	5.7	17
40	Lanthanum nickelate thin films deposited by spray pyrolysis: Crystallization, microstructure and electrochemical properties. Journal of the European Ceramic Society, 2012, 32, 1701-1709.	5.7	19
41	Grain Boundary Blocking Effect in YSZ Thin Films. ECS Meeting Abstracts, 2012, , .	0.0	0
42	Yielding of weakly attractive nanoparticle networks. Soft Matter, 2011, 7, 6408.	2.7	16
43	Hollow calcium aluminate microcapsules with porous shell microstructure and unique mechanical properties. Journal of Materials Chemistry, 2011, 21, 16524.	6.7	4
44	High temperature oxygen near edge x-ray absorption fine structure valence band spectra and conductivity of LaFe <sub>3</sub> /4Ni <sub>1</sub> /4O <sub>3</sub> from 300 to 773 K. Applied Physics Letters, 2011, 99, 202112.	3.3	6
45	Dealloying of Platinum-Aluminum Thin Films: Dynamics of Pattern Formation. Physical Review Letters, 2011, 107, 225503.	7.8	20
46	Unifying Model for the Electrokinetic and Phase Behavior of Aqueous Suspensions Containing Short and Long Amphiphiles. Langmuir, 2011, 27, 11835-11844.	3.5	18
47	Correlation between electrical properties and thermodynamic stability of ACoO <sub>3</sub> perovskites (A=La, Tj) <small>ETQq1 1 0.784314,rgBT /Over 3.2 27</small>	3.2	27
48	Oxygen-Vacancy-Related Structural Phase Transition of Ba <sub>0.8</sub> Sr <sub>0.2</sub> Co <sub>0.8</sub> Fe <sub>0.2</sub> O <sub>3-δ</sub> . Chemistry of Materials, 2011, 23, 3169-3175.	6.7	30
49	Micro-solid oxide fuel cells using free-standing 3mol.% yttria-stabilised-tetragonal-zirconia-polycrystal electrolyte foils. Journal of Power Sources, 2011, 196, 10069-10073.	7.8	15
50	Microstructural Control of Self-Setting Particle-Stabilized Ceramic Foams. Journal of the American Ceramic Society, 2011, 94, 77-83.	3.8	36
51	Characterization of thin films for solid oxide fuel cells facilitated by micropatterning. Scripta Materialia, 2011, 65, 84-89.	5.2	7
52	Controlling Phase Distributions in Macroporous Composite Materials through Particle-Stabilized Foams. Langmuir, 2011, 27, 3254-3260.	3.5	30
53	Nonlinear oxidation kinetics of nickel cermets. Acta Materialia, 2011, 59, 6239-6245.	7.9	13
54	Electrical conductivity and defect chemistry of $BaxSr_{1-x}S_{1-y}FyO_{3-\delta}$ perovskites. Journal of Solid State Electrochemistry, 2011, 15, 277-284.	2.5	42

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55	Accuracy of the toroidal approximation for the calculus of concave and convex liquid bridges between particles. <i>Granular Matter</i> , 2011, 13, 487-492.	2.2	18
56	Flame spray deposition of nanocrystalline dense $\text{Ce}_{0.8}\text{Gd}_{0.2}\text{O}_{2-\delta}$ thin films: Deposition mechanism and microstructural characterization. <i>Solid State Ionics</i> , 2011, 192, 464-471.	2.7	18
57	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.	2.7	78
58	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.	14.9	25
59	Microscopic and Nanoscopic Three-Phase Boundaries of Platinum Thin Film Electrodes on YSZ Electrolyte. <i>Advanced Functional Materials</i> , 2011, 21, 565-572.	14.9	89
60	Tailoring of $\text{La}_x\text{Sr}_{1-x}\text{Co}_y\text{Fe}_{1-y}\text{O}_3$ Nanostructure by Pulsed Laser Deposition. <i>Advanced Functional Materials</i> , 2011, 21, 2764-2775.	14.9	66
61	Crystallization and Microstructure of Yttria-Stabilized Zirconia Thin Films Deposited by Spray Pyrolysis. <i>Advanced Functional Materials</i> , 2011, 21, 3967-3975.	14.9	34
62	Structural and material approaches to bone tissue engineering in powder-based three-dimensional printing. <i>Acta Biomaterialia</i> , 2011, 7, 907-920.	8.3	396
63	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.	7.8	22
64	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.	7.8	19
65	Contact angle and adsorption behavior of carboxylic acids on $\gamma\text{-Al}_2\text{O}_3$ surfaces. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 512-518.	9.4	54
66	Dealloying of platinum-aluminum thin films: Electrode performance. <i>Physical Review B</i> , 2011, 84, .	3.2	9
67	Backbone of conductivity in two-dimensional metal-insulator composites. <i>Journal of Applied Physics</i> , 2011, 110, 024909.	2.5	6
68	Wet-etching of precipitation-based thin film microstructures for micro-solid oxide fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 2669-2676.	7.8	21
69	Flame spray deposition of $\text{La}_{0.6}\text{Sr}_{0.4}\text{CoO}_3$ thin films: Microstructural characterization, electrochemical performance and degradation. <i>Journal of Power Sources</i> , 2010, 195, 8152-8161.	7.8	31
70	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.	2.1	25
71	Stochastic generation of particle structures with controlled degree of heterogeneity. <i>Granular Matter</i> , 2010, 12, 437-446.	2.2	5
72	Self-setting particle-stabilized foams with hierarchical pore structures. <i>Materials Letters</i> , 2010, 64, 1468-1470.	2.6	27

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73	Time-temperature Transformation (TTT) Diagrams for Crystallization of Metal Oxide Thin Films. <i>Advanced Functional Materials</i> , 2010, 20, 2807-2814.	14.9	43
74	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.	5.7	70
75	Analysis of the capillary forces between two small solid spheres binded by a convex liquid bridge. <i>Powder Technology</i> , 2010, 198, 211-218.	4.2	39
76	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.	7.8	67
77	Platelet-reinforced polymer matrix composites by combined gel-casting and hot-pressing. Part II: Thermoplastic polyurethane matrix composites. <i>Composites Science and Technology</i> , 2010, 70, 1966-1972.	7.8	31
78	Free-standing Ultrathin Ceramic Foils. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3624-3631.	3.8	22
79	Iron-resonant valence band photoemission and oxygen near edge x-ray absorption fine structure study on $\text{La}_{1-x}\text{Sr}_x\text{Fe}_{0.75}\text{Ni}_{0.25}\text{O}_3$ . <i>Applied Physics Letters</i> , 2010, 97, 124101.	3.3	9
80	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. <i>Journal of Applied Physics</i> , 2010, 108, .	2.5	14
81	Agglomeration of Pt thin films on dielectric substrates. <i>Physical Review B</i> , 2010, 82, .	3.2	87
82	Engineering disorder in precipitation-based nano-scaled metal oxide thin films. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 11114.	2.8	42
83	Electrical conductivity and crystallization of amorphous bismuth ruthenate thin films deposited by spray pyrolysis. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 13933.	2.8	9
84	Designing macroporous polymers from particle-stabilized foams. <i>Journal of Materials Chemistry</i> , 2010, 20, 5628.	6.7	32
85	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, .	3.3	37
86	Quantification of the heterogeneity of particle packings. <i>Physical Review E</i> , 2009, 80, 021302.	2.1	33
87	Correlation of O (1s) and Fe (2p) near edge x-ray absorption fine structure spectra and electrical conductivity of $\text{La}_{1-x}\text{Sr}_x\text{Fe}_{0.75}\text{Ni}_{0.25}\text{O}_3$ . <i>Applied Physics Letters</i> , 2009, 95, 174108.	3.3	17
88	Ostwald Ripening and Oxidation Kinetics of Nickel Gadolinia Doped Ceria Anodes. <i>ECS Transactions</i> , 2009, 25, 2057-2060.	0.5	4
89	Phase Transformation in Spray Pyrolysis Yttria-stabilized Zirconia Thin Films. <i>ECS Transactions</i> , 2009, 25, 1551-1554.	0.5	0
90	Foturan® Glass Ceramic - a Substrate for Power Delivering Free-standing $\mu\text{-SOFC}$ Membranes. <i>ECS Transactions</i> , 2009, 25, 983-988.	0.5	1

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91	Strong and ductile platelet-reinforced polymer films inspired by nature: Microstructure and mechanical properties. <i>Journal of Materials Research</i> , 2009, 24, 2741-2754.	2.6	55
92	Development of electron holes across the temperature-induced semiconductor-metal transition in $\text{Ba}_{1-x}\text{Sr}_x\text{Co}_{1-y}\text{Fe}_y\text{O}_{3-\delta}$ . <i>Journal of Materials Research</i> , 2009, 24, 015801.	1.8	27
93	Guidelines for Thin Film Usage and Microfabrication for Solid Oxide Fuel Cell Application. <i>ECS Transactions</i> , 2009, 25, 925-930.	0.5	1
94	Electrochemical Characterization of Micro-Patterned $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_3$ Thin Film Structures on Fused Silica. <i>ECS Transactions</i> , 2009, 25, 2391-2396.	0.5	0
95	Miniaturized Low-temperature Solid Oxide Fuel Cells with an Yttria-stabilized-zirconia Foil Electrolyte. <i>ECS Transactions</i> , 2009, 25, 989-993.	0.5	1
96	Influence of $\text{CO}_2$ on $\text{Ba}_{0.2}\text{Sr}_{0.8}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ at elevated temperatures. <i>Scripta Materialia</i> , 2009, 61, 1083-1086.	5.2	41
97	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.	14.9	56
98	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.	3.6	82
99	Generation of porous particle structures using the void expansion method. <i>Granular Matter</i> , 2009, 11, 201-208.	2.2	12
100	Micro-solid oxide fuel cells: status, challenges, and chances. <i>Monatshefte für Chemie</i> , 2009, 140, 975-983.	1.8	66
101	Materials design for perovskite SOFC cathodes. <i>Monatshefte für Chemie</i> , 2009, 140, 985-999.	1.8	256
102	Interaction of polycarboxylate-based superplasticizers with cements containing different C3A amounts. <i>Cement and Concrete Composites</i> , 2009, 31, 153-162.	10.7	255
103	Thermodynamic Assessment of the La-Fe-O System. <i>Journal of Phase Equilibria and Diffusion</i> , 2009, 30, 351-366.	1.4	30
104	Phase relations in the $\text{Ba-Sr-Co-Fe-O}$ system at 1273 K in air. <i>Journal of Applied Crystallography</i> , 2009, 42, 153-160.	4.5	27
105	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.	1.8	37
106	The Leidenfrost effect during spray pyrolysis of nickel oxide-gadolinia doped ceria composite thin films. <i>Thin Solid Films</i> , 2009, 517, 1515-1521.	1.8	40
107	Stability of NiO membranes on photostructurable glass substrates for micro solid oxide fuel cells. <i>Thin Solid Films</i> , 2009, 517, 1582-1586.	1.8	6
108	Macroporous polymers from particle-stabilized emulsions. <i>Polymer</i> , 2009, 50, 3645-3651.	3.8	29

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109	Review on microfabricated micro-solid oxide fuel cell membranes. Journal of Power Sources, 2009, 194, 119-129.	7.8	378
110	General Route for the Assembly of Functional Inorganic Capsules. Langmuir, 2009, 25, 12419-12424.	3.5	62
111	Modelling Study of Surface Reactions, Diffusion, and Spillover at a Ni/YSZ Patterned Anode. Journal of the Electrochemical Society, 2009, 156, B663.	2.9	174
112	Oxidation states of Co and Fe in $\text{Ba}_{1-x}\text{Sr}_x\text{Co}_{1-y}\text{Fe}_y\text{O}_{3-\delta}$ ( $x, y = 0.2 \leq 0.8$ ) and oxygen desorption in the temperature range 300–1273 K. Physical Chemistry Chemical Physics, 2009, 11, 3090.	2.8	70
113	Macroporous polymers from particle-stabilized foams. Journal of Materials Chemistry, 2009, 19, 5129.	6.7	30
114	Nanoporous $\text{Ni}_{1-x}\text{Ce}_x\text{O}$ thin film cermet SOFC anodes prepared by pulsed laser deposition. Physical Chemistry Chemical Physics, 2009, 11, 3663.	2.8	18
115	Microstructures of CGO and YSZ Thin Films by Pulsed Laser Deposition. Advanced Functional Materials, 2008, 18, 127-135.	14.9	189
116	Micro Solid Oxide Fuel Cells on Glass Ceramic Substrates. Advanced Functional Materials, 2008, 18, 3158-3168.	14.9	138
117	Macroporous Ceramics from Particle-stabilized Emulsions. Advanced Materials, 2008, 20, 4714-4718.	21.0	130
118	Adsorption of polyelectrolytes and its influence on the rheology, zeta potential, and microstructure of various cement and hydrate phases. Journal of Colloid and Interface Science, 2008, 323, 301-312.	9.4	314
119	A micro-solid oxide fuel cell system as battery replacement. Journal of Power Sources, 2008, 177, 123-130.	7.8	205
120	Solid-state dewetting of $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ thin films during annealing. Journal of the European Ceramic Society, 2008, 28, 49-60.	5.7	29
121	Microstructures and mechanical properties of dense particle gels: Microstructural characterisation. Journal of the European Ceramic Society, 2008, 28, 1443-1449.	5.7	19
122	Microstructure and electrical conductivity of nanocrystalline nickel- and nickel oxide/gadolinia-doped ceria thin films. Acta Materialia, 2008, 56, 677-687.	7.9	67
123	The microstructure of dispersed and non-dispersed fresh cement pastes – New insight by cryo-microscopy. Cement and Concrete Research, 2008, 38, 522-529.	11.0	117
124	Advanced ceramics in wire bonding capillaries for semiconductor package technology. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 498, 129-134.	5.6	5
125	Stabilization of Oil-in-Water Emulsions by Colloidal Particles Modified with Short Amphiphiles. Langmuir, 2008, 24, 7161-7168.	3.5	177
126	Bioinspired Design and Assembly of Platelet Reinforced Polymer Films. Science, 2008, 319, 1069-1073.	12.6	946



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127	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.	2.7	61
128	Electron hole-phonon interaction, correlation of structure, and conductivity in single crystal $\text{La}_{0.9}\text{Sr}_{0.1}\text{FeO}_3$ . <i>Applied Physics Letters</i> , 2008, 93, .	3.3	17
129	LSCF Thin Film Cathodes Deposited by Spray Pyrolysis for Micro-SOFC. <i>ECS Transactions</i> , 2007, 7, 1139-1145.	0.5	0
130	$\text{Ba}_{1-x}\text{Sr}_x\text{Co}_{1-y}\text{Fe}_y\text{O}_3$ Perovskites Bulk and Thin Films: Phase Compositions and Electrical Conductivity. <i>ECS Transactions</i> , 2007, 7, 1225-1228.	0.5	1
131	ONEBAT: Micro-Solid Oxide Fuel Cells for Battery Replacement in Portables. <i>ECS Transactions</i> , 2007, 7, 887-890.	0.5	0
132	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
133	Micro-Hotplate Devices for Micro-SOFC. <i>ECS Transactions</i> , 2007, 7, 421-427.	0.5	0
134	Synthesis and characterization of $\text{Li}_{1/3}\text{Ce}_{2/3}\text{PO}_4$ and $\text{LiCe}_{2/3}\text{PO}_4$ ceramics. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 106204.	1.8	0
135	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.	6.7	74
136	Tailoring the Microstructure of Particle-Stabilized Wet Foams. <i>Langmuir</i> , 2007, 23, 1025-1032.	3.5	164
137	Materials from foams and emulsions stabilized by colloidal particles. <i>Journal of Materials Chemistry</i> , 2007, 17, 3283.	6.7	132
138	Colloidal Stabilization of Nanoparticles in Concentrated Suspensions. <i>Langmuir</i> , 2007, 23, 1081-1090.	3.5	217
139	Electrochemical performance of LSCF based thin film cathodes prepared by spray pyrolysis. <i>Solid State Ionics</i> , 2007, 178, 407-415.	2.7	140
140	Microstructure characterization of a cobalt-oxide-doped cerium-gadolinium-oxide by analytical and high-resolution TEM. <i>Acta Materialia</i> , 2007, 55, 2907-2917.	7.9	37
141	Crystallization of amorphous ceria solid solutions. <i>Acta Materialia</i> , 2007, 55, 3505-3512.	7.9	45
142	Micro-hotplates – A platform for micro-solid oxide fuel cells. <i>Journal of Power Sources</i> , 2007, 166, 143-148.	7.8	35
143	Macroporous Ceramics from Particle-Stabilized Wet Foams. <i>Journal of the American Ceramic Society</i> , 2007, 90, 16-22.	3.8	241
144	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.	3.8	66

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145	Processing of Particle-Stabilized Wet Foams Into Porous Ceramics. <i>Journal of the American Ceramic Society</i> , 2007, 90, 3407-3414.	3.8	155
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