

Uday B Pal

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142
papers

1,795
citations

23
h-index

36
g-index

161
ext. papers

1,970
ext. citations

3.3
avg, IF

4.88
L-index

#	Paper	IF	Citations
142	Solid oxide membrane process for magnesium production directly from magnesium oxide. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2005 , 36, 463-473	2.5	117
141	Polarization measurements on single-step co-fired solid oxide fuel cells (SOFCs). <i>Journal of Power Sources</i> , 2007 , 172, 39-49	8.9	90
140	Emerging SOM technology for the green synthesis of metals from oxides. <i>Jom</i> , 2001 , 53, 32-35	2.1	79
139	The use of solid-oxide-membrane technology for electrometallurgy. <i>Jom</i> , 2007 , 59, 44-49	2.1	78
138	Effect of Sr Content and Strain on Sr Surface Segregation of LaSrCoFeO as Cathode Material for Solid Oxide Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26704-26711	9.5	62
137	Analytic Solution for Charge Transport and Chemical-Potential Variation in Single-Layer and Multilayer Devices of Different Mixed-Conducting Oxides. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 3214-3222	3.9	47
136	Out-of-cell measurements of H ₂ O effective binary diffusivity in the porous anode of solid oxide fuel cells (SOFCs). <i>Journal of Power Sources</i> , 2010 , 195, 532-535	8.9	43
135	CuMn _{1.8} O ₄ protective coatings on metallic interconnects for prevention of Cr-poisoning in solid oxide fuel cells. <i>Journal of Power Sources</i> , 2018 , 378, 125-133	8.9	42
134	Cu _{1.3} Mn _{1.7} O ₄ spinel coatings deposited by electrophoretic deposition on Crofer 22 APU substrates for solid oxide fuel cell applications. <i>Surface and Coatings Technology</i> , 2017 , 323, 49-57	4.4	42
133	Electrochemical Performance of Solid Oxide Fuel Cells Manufactured by Single Step Co-firing Process. <i>Journal of the Electrochemical Society</i> , 2007 , 154, B389	3.9	42
132	Solid Oxide Membrane (SOM) technology for environmentally sound production of tantalum metal and alloys from their oxide sources. <i>Scandinavian Journal of Metallurgy</i> , 2005 , 34, 293-301		42
131	Mitigation of chromium poisoning of cathodes in solid oxide fuel cells employing CuMn _{1.8} O ₄ spinel coating on metallic interconnect. <i>Journal of Power Sources</i> , 2018 , 376, 100-110	8.9	41
130	Effect of atmospheric CO ₂ on surface segregation and phase formation in La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ thin films. <i>Applied Surface Science</i> , 2014 , 323, 71-77	6.7	40
129	Estimation of Sulfide Capacities of Multicomponent Slags using Optical Basicity. <i>ISIJ International</i> , 2013 , 53, 761-767	1.7	37
128	Evaluation of Electrophoretically Deposited CuMn _{1.8} O ₄ Spinel Coatings on Crofer 22 APU for Solid Oxide Fuel Cell Interconnects. <i>Journal of the Electrochemical Society</i> , 2008 , 155, B1161	3.9	35
127	Analysis of Electrochemical Performance of SOFCs Using Polarization Modeling and Impedance Measurements. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B311	3.9	33
126	Regenerative, coal-based solid oxide fuel cell-electrolyzers. <i>Journal of Power Sources</i> , 2006 , 162, 74-80	8.9	33

125	Improving intermediate temperature performance of Ni-YSZ cermet anodes for solid oxide fuel cells by liquid infiltration of nickel nanoparticles. <i>Journal of Power Sources</i> , 2018 , 396, 257-264	8.9	31
124	Roles of humidity and cathodic current in chromium poisoning of Sr-doped LaMnO ₃ -based cathodes in solid oxide fuel cells. <i>Journal of Power Sources</i> , 2017 , 360, 87-97	8.9	28
123	Hydrogen generation and separation using Gd _{0.2} Ce _{0.8} O _{1.9} and Sr _{0.88} Ti _{0.95} Al _{0.05} O _{3-δ} mixed ionic and electronic conducting membranes. <i>Electrochimica Acta</i> , 2011 , 56, 6989-6996	6.7	27
122	Stability of yttria stabilized zirconia in molten oxy-fluorite flux for the production of silicon with the solid oxide membrane process. <i>Journal of the European Ceramic Society</i> , 2014 , 34, 3887-3896	6	26
121	Performance of intermediate temperature (600-800°C) solid oxide fuel cell based on Sr and Mg doped lanthanum-gallate electrolyte. <i>Journal of Power Sources</i> , 2006 , 160, 305-315	8.9	26
120	Clean Metals Production by Solid Oxide Membrane Electrolysis Process. <i>Journal of Sustainable Metallurgy</i> , 2016 , 2, 152-166	2.7	24
119	A lower carbon footprint process for production of metals from their oxide sources. <i>Jom</i> , 2008 , 60, 43-47	7.1	23
118	Mitigating Electronic Current in Molten Flux for the Magnesium SOM Process. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014 , 45, 1325-1336	2.5	22
117	LSM (La _{0.8} Sr _{0.2} MnO _{3-δ})-Hfconel Inert Anode Current Collector for Solid Oxide Membrane (SOM) Electrolysis. <i>Journal of the Electrochemical Society</i> , 2013 , 160, F1179-F1186	3.9	21
116	Defect Chemistry and Electrical Properties of (La _{0.8} Ca _{0.2}) _{0.95} FeO _{3-δ} . <i>Journal of the Electrochemical Society</i> , 2009 , 156, B795	3.9	21
115	Effect of Fuel Composition on Performance of Single-Step Cofired SOFCs. <i>Journal of the Electrochemical Society</i> , 2007 , 154, B1080	3.9	20
114	Determining Yttria-Stabilized Zirconia (YSZ) Stability in Molten Oxy-Fluoride Flux for the Production of Magnesium with the SOM Process. <i>Journal of the American Ceramic Society</i> , 2013 , 96, 3279-3285	3.8	19
113	Production of Silicon by Solid Oxide Membrane-Based Electrolysis Process. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1493, 231-235		19
112	Thermodynamic Stability and Interfacial Impedance of Solid-Electrolyte Cells with Noble-Metal Electrodes 1999 , 3, 279-299		19
111	Recycling of Magnesium Alloy Employing Refining and Solid Oxide Membrane (SOM) Electrolysis. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2013 , 44, 261-271	2.5	18
110	A General Model for BOP Decarburization.. <i>ISIJ International</i> , 1993 , 33, 862-868	1.7	17
109	An Environmentally Friendly Process Involving Refining and Membrane-Based Electrolysis for Magnesium Recovery from Partially Oxidized Scrap Alloy. <i>Jom</i> , 2013 , 65, 1285-1292	2.1	16
108	Chromium Poisoning Effects on Performance of (La,Sr)MnO ₃ -Based Cathode in Anode-Supported Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F740-F747	3.9	16

107	Transient and Permanent Effects of Direct Current on Oxygen Transfer across YSZ-Electrode Interfaces. <i>Journal of the Electrochemical Society</i> , 1997 , 144, 2479-2485	3.9	16
106	Chemical characterization of surface precipitates in La _{0.7} Sr _{0.3} Co _{0.2} Fe _{0.8} O _{3-δ} as cathode material for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2016 , 333, 247-253	8.9	16
105	Periodic Shorting of SOM Cell to Remove Soluble Magnesium in Molten Flux and Improve Faradaic Efficiency. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2014 , 45, 2138-2144	2.5	15
104	Deoxidation of Molten Metals by Short Circuiting Yttria-Stabilized Zirconia Electrolyte Cell. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 467-474	3.9	15
103	Effect of Anode Active Layer on Performance of Single-Step Cofired Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2008 , 155, B610	3.9	14
102	Experimental evidence for electrochemical nature of the reaction between iron oxide in calcia-silica-alumina slag and carbon in liquid iron. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 1999 , 30, 877-889	2.5	14
101	Materials System for Intermediate-Temperature (600-800°C) SOFCs Based on Doped Lanthanum-Gallate Electrolyte. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1890	3.9	13
100	Deoxidation of Molten Steel Using a Short-Circuited Solid Oxide Electrochemical Cell. <i>Journal of the Electrochemical Society</i> , 1995 , 142, 469-475	3.9	13
99	Design of optimum solid oxide membrane electrolysis cells for metals production. <i>Progress in Natural Science: Materials International</i> , 2015 , 25, 591-594	3.6	12
98	A solid oxide membrane electrolyzer for production of hydrogen and syn-gas from steam and hydrocarbon waste in a single step. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 152-159	6.7	12
97	Gd _{0.2} Ce _{0.8} O _{1.9} -Y _{0.08} Sr _{0.88} Ti _{0.95} Al _{0.05} O _{3+δ} Composite Mixed Conductors for Hydrogen Separation. <i>Journal of the Electrochemical Society</i> , 2005 , 152, A1726	3.9	12
96	Removal of FeO during Foaming of CaO-Al ₂ O ₃ -SiO ₂ -FeO Slags by Low Carbon-Iron Melts.. <i>ISIJ International</i> , 1994 , 34, 408-413	1.7	12
95	Electronic and ionic transport in liquid PbO-SiO ₂ systems. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1985 , 16, 77-82		12
94	Results demonstrating techniques for enhancing electrochemical reactions involving iron oxide in slags and C in liquid iron. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2005 , 36, 209-218	2.5	11
93	Energy-Efficient and Environmentally Friendly Solid Oxide Membrane Electrolysis Process for Magnesium Oxide Reduction: Experiment and Modeling. <i>Metallurgical and Materials Transactions E</i> , 2014 , 1, 132-144		10
92	(Invited) Solid Oxide Membrane Process for the Reduction of Uranium Oxide Surrogate in Spent Nuclear Fuel. <i>ECS Transactions</i> , 2012 , 41, 171-180	1	10
91	Effects of particle size of 8 mol% Y ₂ O ₃ stabilized ZrO ₂ (YSZ) and additive Ta ₂ O ₅ on the phase composition and the microstructure of sintered YSZ electrolyte. <i>Journal of Materials Processing Technology</i> , 2008 , 200, 199-204	5.3	10
90	Identifying the path to successful green manufacturing. <i>Jom</i> , 2002 , 54, 25-25	2.1	10

89	Comparison of Power Densities and Chemical Potential Variation in Solid Oxide Fuel Cells with Multilayer and Single-Layer Oxide Electrolytes. <i>Journal of the Electrochemical Society</i> , 1998 , 145, 99-106	3.9	10
88	Rate of Reduction of Ferric and Ferrous Oxide from Calcia-Silica-Alumina Slag by Carbon in Liquid Iron.. <i>ISIJ International</i> , 1999 , 39, 103-112	1.7	10
87	Solid Oxide Membrane Electrolysis Process for Aluminum Production: Experiment and Modeling. <i>Journal of the Electrochemical Society</i> , 2017 , 164, F248-F255	3.9	9
86	Cost-Effective Single Step Cofiring Process for Manufacturing Solid Oxide Fuel Cells Using HSC Anode. <i>Journal of Fuel Cell Science and Technology</i> , 2010 , 7,		9
85	Analysis of the Electronic and Ionic Conductivity of Calcium-Doped Lanthanum Ferrite. <i>Electrochemical and Solid-State Letters</i> , 2009 , 12, B141		9
84	Hydrogen Production Using Solid Oxide Membrane Electrolyzer with Solid Carbon Reductant in Liquid Metal Anode. <i>Journal of the Electrochemical Society</i> , 2009 , 156, B1067	3.9	9
83	Effect of anodic current density on the spreading of infiltrated nickel nanoparticles in nickel-yttria stabilized zirconia cermet anodes. <i>Journal of Power Sources</i> , 2019 , 410-411, 196-203	8.9	9
82	Study of the two-step W/WO ₃ solar to fuel conversion cycle for syngas production. <i>Journal of Power Sources</i> , 2013 , 236, 95-102	8.9	8
81	Study of an Energy Storage and Recovery Concept Based on the W/WO ₃ Redox Reaction: Part I. Kinetic Study and Modeling of the WO ₃ Reduction Process for Energy Storage. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2012 , 43, 1001-1010	2.5	8
80	Measurement of partial oxygen ion conductivity of Sr-doped lanthanum manganite. <i>Journal of Power Sources</i> , 2007 , 173, 887-890	8.9	8
79	Electrochemical Characterization of a Solid Oxide Membrane Electrolyzer for Production of High-Purity Hydrogen. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2009 , 40, 1041-1053	2.5	7
78	Interfacial effects in gaseous reduction of PbO-SiO ₂ melts. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1983 , 14, 693-700		7
77	Hard X-ray Fluorescence Measurements of Heteroepitaxial Solid Oxide Fuel Cell Cathode Materials. <i>ECS Transactions</i> , 2012 , 41, 19-24	1	6
76	2D Numerical Model for Identification of Oxygen Reduction Reaction Mechanisms in Patterned Cathodes of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-λ} . <i>Journal of the Electrochemical Society</i> , 2012 , 159, F419-F425	3.9	6
75	Determining physio-chemical properties of slags by electrical measurements. <i>Jom</i> , 2002 , 54, 57-61	2.1	6
74	Modeling and Scaleup of Galvanic Deoxidation of Molten Metals Using Solid Electrolyte Cells. <i>Journal of the American Ceramic Society</i> , 2005 , 79, 641-650	3.8	6
73	Detailed electrochemical performance and microstructural characterization of nickel /yttria stabilized zirconia cermet anodes infiltrated with nickel, gadolinium doped ceria, and nickel / Gadolinium doped ceria nanoparticles. <i>Journal of Power Sources</i> , 2020 , 447, 227357	8.9	6
72	Electrochemical cleaning: An in-Situ method to reverse chromium poisoning in solid oxide fuel cell cathodes. <i>Journal of Power Sources</i> , 2020 , 471, 228474	8.9	5

71	Co-infiltration of Nickel and Mixed Conducting $Gd_{0.1}Ce_{0.9}O_{2-x}$ and $La_{0.6}Sr_{0.3}Ni_{0.15}Cr_{0.85}O_{3-x}$ Phases in Ni-YSZ Anodes for Improved Stability and Performance. <i>Jom</i> , 2019 , 71, 3835-3847	2.1	5
70	Effect of Carbon Dioxide on the Cathodic Performance of Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2014 , 61, 131-137	1	5
69	Chromium Poisoning of Cathodes in Solid Oxide Fuel Cells and its Mitigation Employing $CuMn_{1.8}O_4$ Spinel Coatings on Interconnects. <i>ECS Transactions</i> , 2017 , 78, 1665-1674	1	5
68	Use of Conductivity Relaxation Experiments to Evaluate Surface-Exchange Catalysts. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, A179		5
67	Oxidation Studies on Crofer 22 APU Alloy Under Simulated SOFC Operating Conditions. <i>ECS Transactions</i> , 2007 , 7, 2379-2384	1	5
66	High Performance Low Cost Co-Fired Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2007 , 7, 579-588	1	5
65	Polarization study on doped lanthanum gallate electrolyte using impedance spectroscopy. <i>Journal of Materials Engineering and Performance</i> , 2004 , 13, 274-281	1.6	5
64	Laboratory Scale Refining Studies on Low Carbon Aluminum Killed Steels Using Synthetic Fluxes.. <i>ISIJ International</i> , 1994 , 34, 140-149	1.7	5
63	Comparison of chromium poisoning between lanthanum strontium manganite and lanthanum strontium ferrite composite cathodes in solid oxide fuel cells. <i>Journal of Power Sources</i> , 2020 , 476, 2287-2300	8.9	5
62	Characterizing Performance of Electrocatalyst Nanoparticles Infiltrated into Ni-YSZ Cermet Anodes for Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 054515	3.9	4
61	Improved Tolerance of Lanthanum Nickelate (La_2NiO_4) Cathodes to Chromium Poisoning Under Current Load in Solid Oxide Fuel Cells. <i>Jom</i> , 2019 , 71, 3848-3858	2.1	4
60	Predicting oxygen vacancy non-stoichiometric concentration in perovskites from first principles. <i>Applied Surface Science</i> , 2014 , 323, 65-70	6.7	4
59	Evaluation of Electrophoretically Deposited $CuMn_{1.8}O_4$ Spinel Coatings On Metallic Interconnects for SOFC Applications. <i>ECS Transactions</i> , 2008 , 13, 405-411	1	4
58	Effect of Surface-Exchange Catalyst on the Transport Properties of MIEC Membrane for Hydrogen Separation. <i>ECS Transactions</i> , 2007 , 6, 1-6	1	4
57	Cathodic Polarization Study on Doped Lanthanum Gallate Electrolyte Using Impedance Spectroscopy. <i>Journal of Electroceramics</i> , 2004 , 13, 653-661	1.5	4
56	Kinetic Studies on the Desulfurization of Aluminum Killed Low Carbon Steel Using Synthetic Fluxes. <i>Canadian Metallurgical Quarterly</i> , 1994 , 33, 305-312	0.9	4
55	Improving SOFC Anode Electrocatalytic Activity Using Nanoparticle Infiltration into MIEC Compositions. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 134506	3.9	4
54	Effect of optical basicity on the stability of yttria-stabilized zirconia in contact with molten oxy-fluoride flux. <i>Journal of the American Ceramic Society</i> , 2018 , 101, 3605-3616	3.8	3

53	Enhancing Anodic Catalytic Activity at High Fuel Utilization By Infiltration of Ni Nanoparticles. <i>ECS Transactions</i> , 2017 , 78, 1397-1405	1	3
52	Mixed ionic electronic conducting powder bed for grid level energy storage and release: A study of tungsten oxide reduction kinetics. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 3624-3632	6.7	3
51	Magnesium Recycling of Partially Oxidized, Mixed Magnesium-Aluminum Scrap through Combined Refining and Solid Oxide Membrane Electrolysis Processes. <i>ECS Transactions</i> , 2012 , 41, 91-101	1	3
50	Incorporation of Chlorine in a Secondary Steelmaking Slag Based on the CaO-Al ₂ O ₃ -SiO ₂ System.. <i>ISIJ International</i> , 1996 , 36, 1119-1126	1.7	3
49	Finite Element Analysis and Techno-economic Modeling of Solar Silicon Molten Salt Electrolysis. <i>Jom</i> , 2021 , 73, 233-243	2.1	3
48	Effect of Humidity and Cathodic Current on Chromium Poisoning of Sr-Doped LaMnO ₃ -Based Cathode in Anode-Supported Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2017 , 75, 61-67	1	2
47	A New Approach to Processing Rutile from Ilmenite Ore Utilizing the Instability of Pseudobrookite. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2018 , 49, 2278-2284	2.5	2
46	Measurement of Bulk Oxygen Diffusivity in (La _{0.8} Sr _{0.2}) _{0.95} MnO ₃ . <i>Jom</i> , 2019 , 71, 96-102	2.1	2
45	Application of a State-Space Model to Patterned Cathodes of (La _{0.87} Ca _{0.13}) _{0.95} MnO ₃ . <i>Journal of the Electrochemical Society</i> , 2011 , 158, B1523	3.9	2
44	(Invited) Electrolyzer for Waste to Energy Conversion. <i>ECS Transactions</i> , 2012 , 41, 93-101	1	2
43	High Performance Single Step Co-Fired Solid Oxide Fuel Cells. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 972, 1		2
42	Emerging technologies for metals production. <i>Jom</i> , 2001 , 53, 27-27	2.1	2
41	Incorporation of Sulfur in an Optimized Ladle Steelmaking Slag.. <i>ISIJ International</i> , 1996 , 36, 402-409	1.7	2
40	Techniques for Measuring Solubility and Electrical Conductivity in Molten Salts 2016 , 465-475		2
39	Molten Flux Design for Solid Oxide Membrane-Based Electrolysis of Aluminum from Alumina. <i>Minerals, Metals and Materials Series</i> , 2017 , 35-44	0.3	2
38	Solid Oxide Membrane Process for Solar Grade Silicon Production Directly from Silicon Dioxide 717-721		2
37	Electrophoretically Deposited Copper Manganese Spinel Coatings for Prevention of Chromium Poisoning in Solid Oxide Fuel Cells. <i>Minerals, Metals and Materials Series</i> , 2019 , 265-272	0.3	1
36	Surface Segregation and Phase Formation in Thin Films of Sofc Cathode Materials 2014 , 247-258		1

35	Simple method for determining metal power oxidation kinetics with a zirconia sensor. <i>Journal of Applied Electrochemistry</i> , 2015 , 45, 1025-1034	2.6	1
34	Polarization Resistance of La _{0.85} Ca _{0.15} MnO ₃ Cathodes for Solid Oxide Fuel Cells (SOFCs) Measured Using Patterned Electrodes. <i>ECS Transactions</i> , 2010 , 28, 137-146	1	1
33	Activities and ternary phase diagrams. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 1997 , 21, 483-495	1.9	1
32	Refractory Cathode Investigation for Single-Step Co-fired Solid Oxide Fuel Cells. <i>ECS Transactions</i> , 2007 , 7, 399-404	1	1
31	Electrowinning Magnesium Metal from MgCl ₂ -NdOCl Melt Using Solid-Oxide Oxygen-Ion-Conducting Membrane Technology. <i>High Temperature Materials and Processes</i> , 2001 , 20, 209-218	0.9	1
30	Relationship between activity and three phase boundary in the ternary phase diagram. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 1999 , 23, 165-172	1.9	1
29	Electrical Conductivity of PbO-SiO ₂ Liquids Containing Pb Precipitates. <i>Canadian Metallurgical Quarterly</i> , 1984 , 23, 295-302	0.9	1
28	Oxygen Pressure Dependence of Lead Ion Transport in PbO-SiO ₂ Melts. <i>Journal of the American Ceramic Society</i> , 1985 , 68, C-104-C-105	3.8	1
27	Zero-Direct-Carbon-Emission Aluminum Production by Solid Oxide Membrane-Based Electrolysis Process 2016 , 781-790		1
26	Multiple cycle chromium poisoning and in-situ electrochemical cleaning of LSM-based solid oxide fuel cell cathodes. <i>Journal of Power Sources Advances</i> , 2020 , 6, 100037	3.3	1
25	Surface Properties of Molten Fluoride-Based Salts 2016 , 597-605		1
24	Experimental validation of solid oxide fuel cell polarization modeling: An LSM-YSZ/YSZ/Ni-YSZ case study. <i>Electrochimica Acta</i> , 2020 , 361, 137052	6.7	0
23	Alternating-Current Electrophoretic Deposition of Spinel Coatings on Porous Metallic Substrates for Solid Oxide Fuel Cell Applications. <i>Jom</i> , 2021 , 73, 2764-2770	2.1	0
22	Exploring the Role of Humidity, Temperature, and Mixed Ionic and Electronic Conductivity on SOFC Anode Electrocatalysis. <i>Jom</i> , 2021 , 73, 2771-2780	2.1	0
21	Preface for Thematic Section: Molten Slags, Fluxes, and Salts for Sustainable Processing. <i>Journal of Sustainable Metallurgy</i> , 2017 , 3, 669-670	2.7	
20	Zero-Direct-Carbon-Emission Aluminum Production by Solid Oxide Membrane-Based Electrolysis Process 2016 , 781-790		
19	Electrochemical Characterization and Modeling of a Solid Oxide Membrane-Based Electrolyzer for Production of Magnesium and Oxygen 2014 , 417-424		
18	Effect of Atmospheric Carbon Dioxide on Surface Segregation and Phase Formation in La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} Thin Films. <i>Materials Research Society Symposia Proceedings</i> , 2014 , 1647, 1		

- 17 Production of Silicon from Silica: Solid-Oxide-Membrane Based Electrolysis Process **2013**, 173-183
- 16 Mechanistic Interpretation of the Oxygen Reduction Kinetics of La_{0.85}Ca_{0.15}MnO₃ Cathode. *ECS Transactions*, **2011**, 35, 2119-2127 1
- 15 Transport Through Electrophoretically Deposited CuMn_{1.8}O₄ Spinel Coatings on Crofer Interconnects. *Materials Research Society Symposia Proceedings*, **2008**, 1126, 1
- 14 Analysis of Electrochemical Performance of Single Step Co-fired Solid Oxide Fuel Cell (SOFC) Analyzed Using Polarization Model and Impedance Spectroscopy. *Materials Research Society Symposia Proceedings*, **2008**, 1126, 1
- 13 Fabrication of Porous Supported MIEC Dense Thin Coating for Hydrogen Separation. *ECS Transactions*, **2008**, 13, 201-213 1
- 12 Electrical Performance of Calcium doped Lanthanum Ferrite for use in Single-Step Co-fired Solid Oxide Fuel Cells (SOFCs). *Materials Research Society Symposia Proceedings*, **2008**, 1126, 1
- 11 Oxygen flux and process analysis of hydrogen separation from water through mixed conducting membrane. *Materials Research Society Symposia Proceedings*, **2005**, 885, 1
- 10 Solid Oxide Membrane (SOM)-Based Technology for Carbon-Free Efficient Production of Solar-Grade Silicon. *Minerals, Metals and Materials Series*, **2022**, 659-668 0.3
- 9 Macroscopic Modeling and Phase Field Modeling of Solar Grade Silicon by Molten Salt Electrolysis. *Minerals, Metals and Materials Series*, **2022**, 41-45 0.3
- 8 Evaluating Electrophoretically Deposited Cu-Mn-O Spinel Coatings on Stainless Steel Substrates Used in Solid Oxide Fuel Cell Interconnects **2015**, 337-344
- 7 Evaluating Electrophoretically Deposited Cu-Mn-O Spinel Coatings on Stainless Steel Substrates Used in Solid Oxide Fuel Cell Interconnects 333-344
- 6 Surface Properties of Molten Fluoride-Based Salts **2016**, 597-605
- 5 Magnesium Recycling of Partially Oxidized, Mixed Magnesium-Aluminum Scrap through Combined Refining and Solid Oxide Membrane (SOM) Electrolysis Processes **2012**, 531-535
- 4 Magnesium Recycling of Partially Oxidized, Mixed Magnesium-Aluminum Scrap through Combined Refining and Solid Oxide Membrane (SOM) Electrolysis Processes 531-535
- 3 Electrochemical Characterization and Modeling of a Solid Oxide Membrane-Based Electrolyzer for Production of Magnesium and Oxygen **2014**, 417-424
- 2 Surface Segregation and Phase Formation in Thin Films of SOFC Cathode Materials 673-682
- 1 Techniques for Measuring Solubility and Electrical Conductivity in Molten Salts **2016**, 463-475