

Uday B Pal

List of Publications by Year in descending order

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146
papers

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257101

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161
all docs

161
docs citations

161
times ranked

1494
citing authors

#	ARTICLE	IF	CITATIONS
1	Solid oxide membrane process for magnesium production directly from magnesium oxide. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2005, 36, 463-473.	1.0	134
2	Polarization measurements on single-step co-fired solid oxide fuel cells (SOFCs). Journal of Power Sources, 2007, 172, 39-49.	4.0	103
3	The use of solid-oxide-membrane technology for electrometallurgy. Jom, 2007, 59, 44-49.	0.9	89
4	Emerging SOM technology for the green synthesis of metals from oxides. Jom, 2001, 53, 32-35.	0.9	88
5	Effect of Sr Content and Strain on Sr Surface Segregation of $\text{La}_{1-x}\text{Sr}_x\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ as Cathode Material for Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2016, 8, 26704-26711.	4.0	85
6	CuMn _{1.8} O ₄ protective coatings on metallic interconnects for prevention of Cr-poisoning in solid oxide fuel cells. Journal of Power Sources, 2018, 378, 125-133.	4.0	63
7	Mitigation of chromium poisoning of cathodes in solid oxide fuel cells employing CuMn _{1.8} O ₄ spinel coating on metallic interconnect. Journal of Power Sources, 2018, 376, 100-110.	4.0	63
8	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. Surface and Coatings Technology, 2017, 323, 49-57.	2.2	60
9	Analytic Solution for Charge Transport and Chemical Potential Variation in Single-Layer and Multilayer Devices of Different Mixed-Conducting Oxides. Journal of the Electrochemical Society, 1996, 143, 3214-3222.	1.3	54
10	Estimation of Sulfide Capacities of Multicomponent Slags using Optical Basicity. ISIJ International, 2013, 53, 761-767.	0.6	53
11	Effect of atmospheric CO ₂ on surface segregation and phase formation in $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ thin films. Applied Surface Science, 2014, 323, 71-77.	3.1	51
12	Electrochemical Performance of Solid Oxide Fuel Cells Manufactured by Single Step Co-firing Process. Journal of the Electrochemical Society, 2007, 154, B389.	1.3	48
13	Evaluation of Electrophoretically Deposited CuMn _{1.8} O ₄ Spinel Coatings on Crofer 22 APU for Solid Oxide Fuel Cell Interconnects. Journal of the Electrochemical Society, 2008, 155, B1161.	1.3	48
14	Solid Oxide Membrane (SOM) technology for environmentally sound production of tantalum metal and alloys from their oxide sources. Scandinavian Journal of Metallurgy, 2005, 34, 293-301.	0.3	45
15	Out-of-cell measurements of H ₂ effective binary diffusivity in the porous anode of solid oxide fuel cells (SOFCs). Journal of Power Sources, 2010, 195, 532-535.	4.0	45
16	Improving intermediate temperature performance of Ni-YSZ cermet anodes for solid oxide fuel cells by liquid infiltration of nickel nanoparticles. Journal of Power Sources, 2018, 396, 257-264.	4.0	42
17	Analysis of Electrochemical Performance of SOFCs Using Polarization Modeling and Impedance Measurements. Journal of the Electrochemical Society, 2009, 156, B311.	1.3	38
18	Regenerative, coal-based solid oxide fuel cell-electrolyzers. Journal of Power Sources, 2006, 162, 74-80.	4.0	34

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19	Clean Metals Production by Solid Oxide Membrane Electrolysis Process. Journal of Sustainable Metallurgy, 2016, 2, 152-166.	1.1	33
20	Hydrogen generation and separation using Gd _{0.2} Ce _{0.8} O _{1.9} ± mixed ionic and electronic conducting membranes. Electrochimica Acta, 2011, 56, 6989-6996.	2.6	32
21	Roles of humidity and cathodic current in chromium poisoning of Sr-doped LaMnO ₃ -based cathodes in solid oxide fuel cells. Journal of Power Sources, 2017, 360, 87-97.	4.0	32
22	Performance of intermediate temperature (600±800°C) solid oxide fuel cell based on Sr and Mg doped lanthanum-gallate electrolyte. Journal of Power Sources, 2006, 160, 305-315.	4.0	30
23	Stability of yttria stabilized zirconia in molten oxy-fluorite flux for the production of silicon with the solid oxide membrane process. Journal of the European Ceramic Society, 2014, 34, 3887-3896.	2.8	28
24	A lower carbon footprint process for production of metals from their oxide sources. Jom, 2008, 60, 43-47.	0.9	26
25	Defect Chemistry and Electrical Properties of (La _{0.8} Ca _{0.2}) _{0.95} FeO ₃ . Journal of the Electrochemical Society, 2009, 156, B795.	1.3	25
26	Mitigating Electronic Current in Molten Flux for the Magnesium SOM Process. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 1325-1336.	1.0	25
27	LSM (La _{0.8} Sr _{0.2} MnO ₃)±Inconel Inert Anode Current Collector for Solid Oxide Membrane (SOM) Electrolysis. Journal of the Electrochemical Society, 2013, 160, F1179-F1186.	1.3	24
28	Effect of Fuel Composition on Performance of Single-Step Cofired SOFCs. Journal of the Electrochemical Society, 2007, 154, B1080.	1.3	22
29	Transient and Permanent Effects of Direct Current on Oxygen Transfer across YSZ±Electrode Interfaces. Journal of the Electrochemical Society, 1997, 144, 2479-2485.	1.3	20
30	Determining Yttria±Stabilized Zirconia (YSZ) Stability in Molten Oxy±Fluoride Flux for the Production of Magnesium with the SOM Process. Journal of the American Ceramic Society, 2013, 96, 3279-3285.	1.9	20
31	A General Model for BOP Decarburization.. ISIJ International, 1993, 33, 862-868.	0.6	19
32	Title is missing!. , 1999, 3, 279-299.		19
33	Production of Silicon by Solid Oxide Membrane-Based Electrolysis Process. Materials Research Society Symposia Proceedings, 2013, 1493, 231-235.	0.1	19
34	Chemical characterization of surface precipitates in La _{0.7} Sr _{0.3} Co _{0.2} Fe _{0.8} O ₃ ± as cathode material for solid oxide fuel cells. Journal of Power Sources, 2016, 333, 247-253.	4.0	19
35	Comparison of chromium poisoning between lanthanum strontium manganite and lanthanum strontium ferrite composite cathodes in solid oxide fuel cells. Journal of Power Sources, 2020, 476, 228743.	4.0	19
36	Recycling of Magnesium Alloy Employing Refining and Solid Oxide Membrane (SOM) Electrolysis. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2013, 44, 261-271.	1.0	18

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37	Chromium Poisoning Effects on Performance of (La,Sr)MnO ₃ -Based Cathode in Anode-Supported Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2017, 164, F740-F747.	1.3	18
38	Deoxidation of Molten Metals by Short Circuiting Yttria-Stabilized Zirconia Electrolyte Cell. Journal of the Electrochemical Society, 1994, 141, 467-474.	1.3	16
39	Effect of Anode Active Layer on Performance of Single-Step Cofired Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2008, 155, B610.	1.3	16
40	An Environmentally Friendly Process Involving Refining and Membrane-Based Electrolysis for Magnesium Recovery from Partially Oxidized Scrap Alloy. Jom, 2013, 65, 1285-1292.	0.9	16
41	Periodic Shorting of SOM Cell to Remove Soluble Magnesium in Molten Flux and Improve Faradaic Efficiency. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2014, 45, 2138-2144.	1.0	16
42	Deoxidation of Molten Steel Using a Short-Circuited Solid Oxide Electrochemical Cell. Journal of the Electrochemical Society, 1995, 142, 469-475.	1.3	15
43	Identifying the path to successful green manufacturing. Jom, 2002, 54, 25-25.	0.9	15
44	Electronic and ionic transport in liquid PbO-SiO ₂ systems. Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science, 1985, 16, 77-82.	0.5	14
45	Removal of FeO during Foaming of CaO-Al ₂ O ₃ -SiO ₂ -FeO Slags by Low Carbon-Iron Melts.. ISIJ International, 1994, 34, 408-413.	0.6	14
46	Comparison of Power Densities and Chemical Potential Variation in Solid Oxide Fuel Cells with Multilayer and Single-Layer Oxide Electrolytes. Journal of the Electrochemical Society, 1998, 145, 99-106.	1.3	14
47	Experimental evidence for electrochemical nature of the reaction between iron oxide in calcia-silica-alumina slag and carbon in liquid iron. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 1999, 30, 877-889.	1.0	14
48	Materials System for Intermediate-Temperature (600-800°C) SOFCs Based on Doped Lanthanum-Gallate Electrolyte. Journal of the Electrochemical Society, 2005, 152, A1890.	1.3	14
49	Effects of particle size of 8mol% 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. Journal of Materials Processing Technology, 2008, 200, 199-204.	3.1	14
50	Design of optimum solid oxide membrane electrolysis cells for metals production. Progress in Natural Science: Materials International, 2015, 25, 591-594.	1.8	14
51	Gd _{0.2} Ce _{0.8} O ₃ -Y _{0.08} Sr _{0.88} Ti _{0.95} Al _{0.05} O ₃ Composite Mixed Conductors for Hydrogen Separation. Journal of the Electrochemical Society, 2005, 152, A1726.	1.3	13
52	Energy-Efficient and Environmentally Friendly Solid Oxide Membrane Electrolysis Process for Magnesium Oxide Reduction: Experiment and Modeling. Metallurgical and Materials Transactions E, 2014, 1, 132-144.	0.5	13
53	Electrochemical cleaning: An in-Situ method to reverse chromium poisoning in solid oxide fuel cell cathodes. Journal of Power Sources, 2020, 471, 228474.	4.0	13
54	Hydrogen Production Using Solid Oxide Membrane Electrolyzer with Solid Carbon Reductant in Liquid Metal Anode. Journal of the Electrochemical Society, 2009, 156, B1067.	1.3	12

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55	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.	3.8	12
56	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.	4.0	12
57	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.	0.6	11
58	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.	1.0	11
59	Analysis of the Electronic and Ionic Conductivity of Calcium-Doped Lanthanum Ferrite. <i>Electrochemical and Solid-State Letters</i> , 2009, 12, B141.	2.2	11
60	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.	1.0	11
61	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.	4.0	11
62	Cost-Effective Single Step Cofiring Process for Manufacturing Solid Oxide Fuel Cells Using HSCâ„¢ Anode. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	10
63	(Invited) Solid Oxide Membrane Process for the Reduction of Uranium Oxide Surrogate in Spent Nuclear Fuel. <i>ECS Transactions</i> , 2012, 41, 171-180.	0.3	10
64	Solid Oxide Membrane Electrolysis Process for Aluminum Production: Experiment and Modeling. <i>Journal of the Electrochemical Society</i> , 2017, 164, F248-F255.	1.3	10
65	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.	4.0	10
66	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.	1.3	10
67	Improving SOFC Anode Electrocatalytic Activity Using Nanoparticle Infiltration into MIEC Compositions. <i>Journal of the Electrochemical Society</i> , 2020, 167, 134506.	1.3	10
68	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.	0.5	9
69	Modeling and Scaleup of Galvanic Deoxidation of Molten Metals Using Solid Electrolyte Cells. <i>Journal of the American Ceramic Society</i> , 1996, 79, 641-650.	1.9	9
70	Measurement of partial oxygen ion conductivity of Sr-doped lanthanum manganite. <i>Journal of Power Sources</i> , 2007, 173, 887-890.	4.0	9
71	Improved Tolerance of Lanthanum Nickelate (La ₂ NiO ₄ + $\hat{1}$) Cathodes to Chromium Poisoning Under Current Load in Solid Oxide Fuel Cells. <i>Jom</i> , 2019, 71, 3848-3858.	0.9	9
72	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.	1.0	8

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73	Effect of Surface-Exchange Catalyst on the Transport Properties of MIEC Membrane for Hydrogen Separation. ECS Transactions, 2008, 6, 1-6.	0.3	7
74	Hard X-ray Fluorescence Measurements of Heteroepitaxial Solid Oxide Fuel Cell Cathode Materials. ECS Transactions, 2012, 41, 19-24.	0.3	7
75	Co-infiltration of Nickel and Mixed Conducting $Gd_{0.1}Ce_{0.9}O_{2-\delta}$ and $La_{0.6}Sr_{0.3}Ni_{0.15}Cr_{0.85}O_{3-\delta}$ Phases in Ni-YSZ Anodes for Improved Stability and Performance. Jom, 2019, 71, 3835-3847.	0.9	7
76	Experimental validation of solid oxide fuel cell polarization modeling: An LSM-YSZ/YSZ/Ni-YSZ case study. Electrochimica Acta, 2020, 361, 137052.	2.6	7
77	Laboratory Scale Refining Studies on Low Carbon Aluminum Killed Steels Using Synthetic Fluxes.. ISIJ International, 1994, 34, 140-149.	0.6	6
78	Kinetic Studies on the Desulfurization of Aluminum Killed Low Carbon Steel Using Synthetic Fluxes. Canadian Metallurgical Quarterly, 1994, 33, 305-312.	0.4	6
79	Determining physio-chemical properties of slags by electrical measurements. Jom, 2002, 54, 57-61.	0.9	6
80	2D Numerical Model for Identification of Oxygen Reduction Reaction Mechanisms in Patterned Cathodes of $La_{0.6}Sr_{0.4}Co_{0.2}Fe_{0.8}O_{3-\delta}$. Journal of the Electrochemical Society, 2012, 159, F419-F425.	1.3	6
81	Predicting oxygen vacancy non-stoichiometric concentration in perovskites from first principles. Applied Surface Science, 2014, 323, 65-70.	3.1	6
82	Multiple cycle chromium poisoning and in-situ electrochemical cleaning of LSM-based solid oxide fuel cell cathodes. Journal of Power Sources Advances, 2020, 6, 100037.	2.6	6
83	Polarization Study on Doped Lanthanum Gallate Electrolyte Using Impedance Spectroscopy. Journal of Materials Engineering and Performance, 2004, 13, 274-281.	1.2	5
84	Cathodic Polarization Study on Doped Lanthanum Gallate Electrolyte Using Impedance Spectroscopy. Journal of Electroceramics, 2004, 13, 653-661.	0.8	5
85	Use of Conductivity Relaxation Experiments to Evaluate Surface-Exchange Catalysts. Electrochemical and Solid-State Letters, 2006, 9, A179.	2.2	5
86	Oxidation Studies on Crofer 22 APU Alloy Under Simulated SOFC Operating Conditions. ECS Transactions, 2007, 7, 2379-2384.	0.3	5
87	High Performance Low Cost Co-Fired Solid Oxide Fuel Cells. ECS Transactions, 2007, 7, 579-588.	0.3	5
88	Effect of Carbon Dioxide on the Cathodic Performance of Solid Oxide Fuel Cells. ECS Transactions, 2014, 61, 131-137.	0.3	5
89	Chromium Poisoning of Cathodes in Solid Oxide Fuel Cells and its Mitigation Employing $CuMn_{1.8}O_{4}$ Spinel Coatings on Interconnects. ECS Transactions, 2017, 78, 1665-1674.	0.3	5
90	Alternating-Current Electrophoretic Deposition of Spinel Coatings on Porous Metallic Substrates for Solid Oxide Fuel Cell Applications. Jom, 2021, 73, 2764-2770.	0.9	5

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91	Optimal cell architecture for reversible solid oxide cells featuring rare-earth nickelate oxygen electrodes. <i>Journal of Power Sources</i> , 2022, 543, 231833.	4.0	5
92	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.	0.6	4
93	Activities and ternary phase diagrams. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 1997, 21, 483-495.	0.7	4
94	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.	0.3	4
95	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.	1.3	4
96	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.	3.8	4
97	Effect of optical basicity on the stability of yttria-stabilized zirconia in contact with molten oxygen fluoride flux. <i>Journal of the American Ceramic Society</i> , 2018, 101, 3605-3616.	1.9	4
98	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.	1.0	4
99	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.	1.9	3
100	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.	0.3	3
101	Simple method for determining metal power oxidation kinetics with a zirconia sensor. <i>Journal of Applied Electrochemistry</i> , 2015, 45, 1025-1034.	1.5	3
102	Enhancing Anodic Catalytic Activity at High Fuel Utilization By Infiltration of Ni Nanoparticles. <i>ECS Transactions</i> , 2017, 78, 1397-1405.	0.3	3
103	Measurement of Bulk Oxygen Diffusivity in (La _{0.8} Sr _{0.2}) _{0.95} MnO ₃ ± δ . <i>Jom</i> , 2019, 71, 96-102.	0.9	3
104	Finite Element Analysis and Techno-economic Modeling of Solar Silicon Molten Salt Electrolysis. <i>Jom</i> , 2021, 73, 233-243.	0.9	3
105	Quantifying Percolated Triple Phase Boundary Density and Its Effects on Anodic Polarization in Ni-Infiltrated Ni/YSZ SOFC Anodes. <i>Journal of the Electrochemical Society</i> , 2021, 168, 114507.	1.3	3
106	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.	0.7	2
107	Emerging technologies for metals production. <i>Jom</i> , 2001, 53, 27-27.	0.9	2
108	High Performance Single Step Co-Fired Solid Oxide Fuel Cells. <i>Materials Research Society Symposia Proceedings</i> , 2006, 972, 1.	0.1	2

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109	Refractory Cathode Investigation for Single-Step Co-fired Solid Oxide Fuel Cells. ECS Transactions, 2007, 7, 399-404.	0.3	2
110	Polarization Resistance of La _{0.85} Ca _{0.15} MnO ₃ Cathodes for Solid Oxide Fuel Cells (SOFCs) Measured Using Patterned Electrodes. ECS Transactions, 2010, 28, 137-146.	0.3	2
111	(Invited) Electrolyzer for Waste to Energy Conversion. ECS Transactions, 2012, 41, 93-101.	0.3	2
112	Effect of Humidity and Cathodic Current on Chromium Poisoning of Sr-Doped LaMnO ₃ -Based Cathode in Anode-Supported Solid Oxide Fuel Cells. ECS Transactions, 2017, 75, 61-67.	0.3	2
113	Electrophoretically Deposited Copper Manganese Spinel Coatings for Prevention of Chromium Poisoning in Solid Oxide Fuel Cells. Minerals, Metals and Materials Series, 2019, , 265-272.	0.3	2
114	Exploring the Role of Humidity, Temperature, and Mixed Ionic and Electronic Conductivity on SOFC Anode Electrocatalysis. Jom, 2021, 73, 2771-2780.	0.9	2
115	Quantitative Characterization of the Microstructure-Property Relationships in Ni and MIEC Nanocatalyst-Infiltrated Ni/YSZ Anodes. ECS Transactions, 2021, 103, 1673-1682.	0.3	2
116	Solid Oxide Membrane Process for Solar Grade Silicon Production Directly from Silicon Dioxide. , 0, , 717-721.		2
117	Techniques for Measuring Solubility and Electrical Conductivity in Molten Salts. , 2016, , 465-475.		2
118	Incorporation of Sulfur in an Optimized Ladle Steelmaking Slag.. ISIJ International, 1996, 36, 402-409.	0.6	2
119	Molten Flux Design for Solid Oxide Membrane-Based Electrolysis of Aluminum from Alumina. Minerals, Metals and Materials Series, 2017, , 35-44.	0.3	2
120	Electrical Conductivity of PbO-SiO ₂ Liquids Containing Pb Precipitates. Canadian Metallurgical Quarterly, 1984, 23, 295-302.	0.4	1
121	Electrowinning Magnesium Metal from MgCl ₂ -NdOCl Melt Using Solid-Oxide Oxygen-Ion-Conducting Membrane Technology. High Temperature Materials and Processes, 2001, 20, 209-218.	0.6	1
122	Anode Polarization Effects in Single Step Co-fired Solid Oxide Fuel Cells. ECS Transactions, 2007, 7, 565-572.	0.3	1
123	Solid Oxide Membrane Electrolyzer Utilizing the Energy Value in Solid and Gaseous Reductant for Hydrogen Production. ECS Transactions, 2009, 19, 1-8.	0.3	1
124	Study of an Innovative Energy Storage and Recovery System based on the W/WO ₃ Oxidoreduction Reaction. ECS Transactions, 2012, 41, 57-73.	0.3	1
125	Investigating Effects of Operational Parameters on the Rate of Electrochemical Cleaning of Chromium Deposits on Strontium-Doped Lanthanum Manganite Cathodes in Solid Oxide Fuel Cells. ECS Transactions, 2021, 103, 1107-1119.	0.3	1
126	Zero-Direct-Carbon-Emission Aluminum Production by Solid Oxide Membrane-Based Electrolysis Process. , 2016, , 781-790.		1

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127	Surface Properties of Molten Fluoride-Based Salts. , 2016, , 597-605.		1
128	Oxygen flux and process analysis of hydrogen separation from water through mixed conducting membrane. Materials Research Society Symposia Proceedings, 2005, 885, 1.	0.1	0
129	Transport Through Electrophoretically Deposited CuMn _{1.8} O ₄ Spinel Coatings on Crofer Interconnects. Materials Research Society Symposia Proceedings, 2008, 1126, 1.	0.1	0
130	Effect of Anode Active Layer on Performance of Single Step Co-fired Solid Oxide Fuel Cells (SOFCs). ECS Transactions, 2008, 13, 249-257.	0.3	0
131	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.	0.1	0
132	Fabrication of Porous Supported MIEC Dense Thin Coating for Hydrogen Separation. ECS Transactions, 2008, 13, 201-213.	0.3	0
133	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.	0.1	0
134	Performance Analysis of Single Step Co-fired Solid Oxide Fuel Cells (SOFCs). ECS Transactions, 2009, 25, 533-542.	0.3	0
135	H ₂ -H ₂ O Effective Binary Diffusivity Measurement in Solid Oxide Fuel Cell Anode Using an Electrochemical Cell. ECS Transactions, 2009, 25, 1879-1886.	0.3	0
136	Chemically Assisted Hydrogen Generation through Oxygen Ion Conducting MIEC Membranes. ECS Transactions, 2009, 25, 281-290.	0.3	0
137	Mechanistic Interpretation of the Oxygen Reduction Kinetics of La _{0.85} Ca _{0.15} MnO ₃ Cathode. ECS Transactions, 2011, 35, 2119-2127.	0.3	0
138	Electrochemical Characterization and Modeling of a Solid Oxide Membrane-Based Electrolyzer for Production of Magnesium and Oxygen. , 2014, , 417-424.		0
139	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. Materials Research Society Symposia Proceedings, 2014, 1647, 1.	0.1	0
140	Preface for Thematic Section: Molten Slags, Fluxes, and Salts for Sustainable Processing. Journal of Sustainable Metallurgy, 2017, 3, 669-670.	1.1	0
141	Quantifying Performance Improvements in MIEC-Infiltrated SOFC Anodes Using a Density of Relaxation Times Analysis of EIS Spectra. ECS Meeting Abstracts, 2021, MA2021-01, 1135-1135.	0.0	0
142	Quantitative Characterization of the Microstructure-Property Relationships in Ni and MIEC Nanocatalyst-Infiltrated Ni/YSZ Anodes. ECS Meeting Abstracts, 2021, MA2021-03, 114-114.	0.0	0
143	Quantifying the Effect of Temperature and Humidity on Infiltrated Cell Performance Using Electrochemical Impedance Spectroscopy and Distribution of Relaxation Times Analysis. ECS Meeting Abstracts, 2021, MA2021-03, 59-59.	0.0	0
144	Investigating Effects of Operational Parameters on the Rate of Electrochemical Cleaning of Chromium Deposits on Strontium-Doped Lanthanum Manganite Cathodes in Solid Oxide Fuel Cells. ECS Meeting Abstracts, 2021, MA2021-03, 70-70.	0.0	0

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145	Magnesium Recycling of Partially Oxidized, Mixed Magnesium-Aluminum Scrap through Combined Refining and Solid Oxide Membrane (SOM) Electrolysis Processes. , 2012, , 531-535.		0
146	Evaluating Electrophoretically Deposited Cu-Mn-O Spinel Coatings on Stainless Steel Substrates Used in Solid Oxide Fuel Cell Interconnects. , 2015, , 337-344.		0