

# Sossina M Haile

## List of Publications by Year in descending order

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115  
papers

14,981  
citations

61857

43  
h-index

26548

107  
g-index

115  
all docs

115  
docs citations

115  
times ranked

9881  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Experimental protocols for the assessment of redox thermodynamics of nonstoichiometric oxides: A case study of $\text{YMnO}_3$ . <i>Journal of the American Ceramic Society</i> , 2022, 105, 4375-4386.  | 1.9  | 6         |
| 2  | Phase Behavior and Superprotonic Conductivity in the System $(\text{CsH}_2\text{PO}_4)_x(\text{H}_3\text{PO}_4)_{1-x}$ : Discovery of Off-Stoichiometric $\text{H}_2\text{PO}_4$ . <i>Chemistry of Materials</i> , 2022, 34, 1809-1820.  | 3.2  | 5         |
| 3  | Broad Applicability of Electrochemical Impedance Spectroscopy to the Measurement of Oxygen Nonstoichiometry in Mixed Ion and Electron Conductors. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 19629-19643.   | 4.0  | 2         |
| 4  | Electrifying membranes to deliver hydrogen. <i>Science</i> , 2022, 376, 348-349.   | 6.0  | 16        |
| 5  | Thermodynamic assessment of nonstoichiometric oxides for solar thermochemical fuel production. <i>Solar Energy</i> , 2022, 241, 504-514.   | 2.9  | 8         |
| 6  | Outstanding Properties and Performance of $\text{CaTi}_{0.5}\text{Mn}_{0.5}\text{O}_3$ for Solar-Driven Thermochemical Hydrogen Production. <i>Matter</i> , 2021, 4, 688-708.  | 5.0  | 45        |
| 7  | Local Multimodal Electrochemical Structural Characterization of Solid Electrolyte Grain Boundaries. <i>Advanced Energy Materials</i> , 2021, 11, 2003309.  | 10.2 | 7         |
| 8  | A humidity-controlled precipitation technique enabling discovery of $\text{Rb}_3(\text{H}_1.5\text{PO}_4)_2$ . <i>Journal of Solid State Chemistry</i> , 2021, 296, 121951.  | 1.4  | 1         |
| 9  | Roadmap on inorganic perovskites for energy applications. <i>JPhys Energy</i> , 2021, 3, 031502.   | 2.3  | 40        |
| 10 | Impact of La doping on the thermochemical heat storage properties of $\text{CaMnO}_3$ . <i>Journal of Energy Storage</i> , 2021, 40, 102793.   | 3.9  | 20        |
| 11 | Hidden Complexity in the Chemistry of Ammonolysis-Derived $\text{Mo}_2\text{N}$ : An Overlooked Oxynitride Hydride. <i>Chemistry of Materials</i> , 2021, 33, 6671-6684.   | 3.2  | 8         |
| 12 | High-throughput characterization of Lu-doped zirconia. <i>Solid State Ionics</i> , 2021, 368, 115698.  | 1.3  | 2         |
| 13 | A review of defect structure and chemistry in ceria and its solid solutions. <i>Chemical Society Reviews</i> , 2020, 49, 554-592.  | 18.7 | 298       |
| 14 | Insensitivity of the extent of surface reduction of ceria on termination: comparison of (001), (110), and (111) faces. <i>MRS Communications</i> , 2020, 10, 636-641.  | 0.8  | 3         |
| 15 | Structure and Properties of $\text{Cs}_7(\text{H}_4\text{PO}_4)(\text{H}_2\text{PO}_4)_8$ : A New Superprotonic Solid Acid Featuring the Unusual Polycation $(\text{H}_4\text{PO}_4)_x(\text{H}_2\text{PO}_4)_{1-x}$ . <i>Journal of the American Chemical Society</i> , 2020, 142, 19992-20001. | 6.6  | 9         |
| 16 | Accelerating oxygen surface exchange. <i>Nature Catalysis</i> , 2020, 3, 863-864.  | 16.1 | 0         |
| 17 | Oxygen Affinity: The Missing Link Enabling Prediction of Proton Conductivities in Doped Barium Zirconates. <i>Chemistry of Materials</i> , 2020, 32, 7292-7300.  | 3.2  | 25        |
| 18 | Favorable Redox Thermodynamics of $\text{SrTi}_{0.5}\text{Mn}_{0.5}\text{O}_3$ in Solar Thermochemical Water Splitting. <i>Chemistry of Materials</i> , 2020, 32, 9335-9346.   | 3.2  | 42        |

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|----|---|------|-----------|
| 19 | Combinatorial Approach for Single-Crystalline TaON Growth: Epitaxial $\sqrt{2}$ -TaON (100)/ $\sqrt{3}$ -Al <sub>2</sub> O <sub>3</sub> (012). ACS Applied Electronic Materials, 2020, 2, 3571-3576.                        | 2.0  | 3         |
| 20 | Quantifying leakage fields at ionic grain boundaries using off-axis electron holography. Journal of Applied Physics, 2020, 128, .   | 1.1  | 2         |
| 21 | Solid Acid Electrochemical Cell for the Production of Hydrogen from Ammonia. Joule, 2020, 4, 2338-2347.   | 11.7 | 30        |
| 22 | LiIn <sub>2</sub> SbO <sub>6</sub> : A New Rutile-Related Structure Type with Unique Ion Channels. Chemistry of Materials, 2020, 32, 4785-4794.   | 3.2  | 10        |
| 23 | Unexpected trends in the enhanced Ce <sup>3+</sup> surface concentration in ceria/zirconia catalyst materials. Journal of Materials Chemistry A, 2020, 8, 9850-9858.  | 5.2  | 12        |
| 24 | Variability and origins of grain boundary electric potential detected by electron holography and atom-probe tomography. Nature Materials, 2020, 19, 887-893.  | 13.3 | 72        |
| 25 | The favourable thermodynamic properties of Fe-doped CaMnO <sub>3</sub> for thermochemical heat storage. Journal of Materials Chemistry A, 2020, 8, 8503-8517.   | 5.2  | 42        |
| 26 | Crystal structure, conductivity, and phase stability of Cs <sub>3</sub> (H <sub>1.5</sub> PO <sub>4</sub> ) <sub>2</sub> under controlled humidity. Solid State Ionics, 2020, 349, 115291.                                  | 1.3  | 7         |
| 27 | Phase Behavior and Superionic Transport Characteristics of (M <sub>x</sub> Rb <sub>1-x</sub> ) <sub>3</sub> H(SeO <sub>4</sub> ) <sub>2</sub> (M = K) Tj311Qq1 1 0.784314   | 1.1  | 1         |
| 28 | Fe-doped CaMnO <sub>3</sub> for thermochemical heat storage application. AIP Conference Proceedings, 2019, , .  | 0.3  | 11        |
| 29 | Protonic ceramic electrochemical cells for hydrogen production and electricity generation: exceptional reversibility, stability, and demonstrated faradaic efficiency. Energy and Environmental Science, 2019, 12, 206-215. | 15.6 | 257       |
| 30 | Hydrogen oxidation kinetics on platinum-palladium bimetallic thin films for solid acid fuel cells. APL Materials, 2019, 7, 013201.  | 2.2  | 4         |
| 31 | (Invited) Insights into Proton Transport in Superprotonic Solid Acids. ECS Meeting Abstracts, 2019, , .   | 0.0  | 0         |
| 32 | (Invited) Zirconia Doped Ceria As a Mixed Ion and Electron Conductor. ECS Meeting Abstracts, 2019, , .  | 0.0  | 0         |
| 33 | (Invited) Thermochemical Properties of Non-Stoichiometric Oxides for Solar Fuel Generation. ECS Meeting Abstracts, 2019, , .  | 0.0  | 0         |
| 34 | Exceptional power density and stability at intermediate temperatures in protonic ceramic fuel cells. Nature Energy, 2018, 3, 202-210.   | 19.8 | 587       |
| 35 | Out-of-Plane Ionic Conductivity Measurement Configuration for High-Throughput Experiments. ACS Combinatorial Science, 2018, 20, 443-450.  | 3.8  | 4         |
| 36 | Atomic layer deposition of Pt@CsH <sub>2</sub> PO <sub>4</sub> for the cathodes of solid acid fuel cells. Electrochimica Acta, 2018, 288, 12-19.  | 2.6  | 21        |

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|----|--|-----|-----------|
| 37 | Suppression of atom motion and metal deposition in mixed ionic electronic conductors. <i>Nature Communications</i> , 2018, 9, 2910.  | 5.8 | 148       |
| 38 | An Easily Fabricated Low-Cost Potentiostat Coupled with User-Friendly Software for Introducing Students to Electrochemical Reactions and Electroanalytical Techniques. <i>Journal of Chemical Education</i> , 2018, 95, 1658-1661. | 1.1 | 43        |
| 39 | In-situ Electron Holography Study of Grain Boundaries in Cerium Oxide. <i>Microscopy and Microanalysis</i> , 2018, 24, 1466-1467.  | 0.2 | 0         |
| 40 | Gas-phase vs. material-kinetic limits on the redox response of nonstoichiometric oxides. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 7420-7430.   | 1.3 | 18        |
| 41 | The role of ceramic and glass science research in meeting societal challenges: Report from an NSF-sponsored workshop. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1777-1803.                                       | 1.9 | 23        |
| 42 | High-temperature structural stability of ceria-based inverse opals. <i>Journal of the American Ceramic Society</i> , 2017, 100, 2659-2668.   | 1.9 | 4         |
| 43 | A piezomicrobalance system for high-temperature mass relaxation characterization of metal oxides: A case study of Pr-doped ceria. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1161-1171.                           | 1.9 | 12        |
| 44 | Impact of enhanced oxide reducibility on rates of solar-driven thermochemical fuel production. <i>MRS Communications</i> , 2017, 7, 873-878.   | 0.8 | 26        |
| 45 | Chemical surface exchange of oxygen on $\text{CeO}_2$ in an $\text{O}_2/\text{H}_2\text{O}$ atmosphere. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 29287-29293.  | 1.3 | 1         |
| 46 | Interplay of material thermodynamics and surface reaction rate on the kinetics of thermochemical hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 16932-16945.                                     | 3.8 | 33        |
| 47 | Revealing Local Dynamics of the Protonic Conductor $\text{CsH}(\text{PO}_3\text{H})$ by Solid-State NMR Spectroscopy and First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2017, 121, 27830-27838.           | 1.5 | 6         |
| 48 | Bulk Properties of the Oxygen Reduction Catalyst $\text{SrCo}_{0.9}\text{Nb}_{0.1}\text{O}_{3-\delta}$ . <i>Chemistry of Materials</i> , 2016, 28, 2599-2608.  | 3.2 | 24        |
| 49 | Maximizing fuel production rates in isothermal solar thermochemical fuel production. <i>Applied Energy</i> , 2016, 183, 1098-1111.   | 5.1 | 35        |
| 50 | Extreme high temperature redox kinetics in ceria: exploration of the transition from gas-phase to material-kinetic limitations. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 21554-21561.                                | 1.3 | 26        |
| 51 | Implications of Exceptional Material Kinetics on Thermochemical Fuel Production Rates. <i>Energy Technology</i> , 2016, 4, 764-770.  | 1.8 | 23        |
| 52 | Platinum-decorated carbon nanotubes for hydrogen oxidation and proton reduction in solid acid electrochemical cells. <i>Chemical Science</i> , 2015, 6, 1570-1577.   | 3.7 | 32        |
| 53 | Probing the reaction pathway in $(\text{La}_{0.8}\text{Sr}_{0.2})_{0.95}\text{MnO}_{3+\delta}$ using libraries of thin film microelectrodes. <i>Journal of Materials Chemistry A</i> , 2015, 3, 19330-19345.                       | 5.2 | 22        |
| 54 | Phase behavior and superprotonic conductivity in the $\text{Cs}_x\text{Rb}_x\text{H}_2\text{PO}_4$ and $\text{Cs}_x\text{K}_x\text{H}_2\text{PO}_4$ systems. <i>Journal of Materials Chemistry A</i> , 2014, 2, 204-214.           | 5.2 | 34        |

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|----|---|------|-----------|
| 55 | An electrical conductivity relaxation study of oxygen transport in samarium doped ceria. Journal of Materials Chemistry A, 2014, 2, 2405-2417.  | 5.2  | 82        |
| 56 | Ceria-Zirconia Solid Solutions ( $\text{Ce}_{1-x}\text{Zr}_x\text{O}_{2-\delta}$ ). Journal of Materials Chemistry A, 2014, 26, 6073-6082.  | 3.2  | 170       |
| 57 | Thermodynamic and kinetic assessments of strontium-doped lanthanum manganite perovskites for two-step thermochemical water splitting. Journal of Materials Chemistry A, 2014, 2, 13612-13623.   | 5.2  | 157       |
| 58 | Dynamic Nuclear Polarization NMR of Low- $\gamma$ Nuclei: Structural Insights into Hydrated Yttrium-Doped $\text{BaZrO}_3$ . Journal of Physical Chemistry Letters, 2014, 5, 2431-2436.   | 2.1  | 60        |
| 59 | High-temperature isothermal chemical cycling for solar-driven fuel production. Physical Chemistry Chemical Physics, 2013, 15, 17084.  | 1.3  | 117       |
| 60 | Proton trapping in yttrium-doped barium zirconate. Nature Materials, 2013, 12, 647-651.   | 13.3 | 297       |
| 61 | High electrode activity of nanostructured, columnar ceria films for solid oxide fuel cells. Energy and Environmental Science, 2012, 5, 8682.  | 15.6 | 83        |
| 62 | High electrochemical activity of the oxide phase in model ceria-Pt and ceria-Ni composite anodes. Nature Materials, 2012, 11, 155-161.  | 13.3 | 288       |
| 63 | Highly Enhanced Concentration and Stability of Reactive $\text{Ce}^{3+}$ on Doped $\text{CeO}_2$ Surface Revealed In Operando. Chemistry of Materials, 2012, 24, 1876-1882.   | 3.2  | 169       |
| 64 | The thermodynamics and kinetics of the dehydration of $\text{CsH}_2\text{PO}_4$ studied in the presence of $\text{SiO}_2$ . Solid State Ionics, 2012, 213, 63-71.   | 1.3  | 24        |
| 65 | High-temperature phase behavior in the $\text{Rb}_3\text{H}(\text{SO}_4)_2$ - $\text{RbHSO}_4$ pseudo-binary system and the new compound $\text{Rb}_5\text{H}_3(\text{SO}_4)_4$ . Solid State Ionics, 2012, 213, 53-57.                   | 1.3  | 8         |
| 66 | Unusual decrease in conductivity upon hydration in acceptor doped, microcrystalline ceria. Physical Chemistry Chemical Physics, 2011, 13, 6442.   | 1.3  | 25        |
| 67 | Platinum thin film anodes for solid acid fuel cells. Energy and Environmental Science, 2011, 4, 4230.   | 15.6 | 25        |
| 68 | Unraveling the defect chemistry and proton uptake of yttrium-doped barium zirconate. Scripta Materialia, 2011, 65, 102-107.   | 2.6  | 69        |
| 69 | Phase transformation and hysteresis behavior in $\text{Cs}_{1-x}\text{Rb}_x\text{H}_2\text{PO}_4$ . Solid State Ionics, 2010, 181, 173-179.   | 1.3  | 24        |
| 70 | A thermochemical study of ceria: exploiting an old material for new modes of energy conversion and $\text{CO}_2$ mitigation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 3269-3294. | 1.6  | 371       |
| 71 | Engineering the Next Generation of Solid State Proton Conductors: Synthesis and Properties of $\text{Ba}_{3-x}\text{K}_x\text{H}(\text{PO}_4)_2$ . Chemistry of Materials, 2010, 22, 1186-1194.   | 3.2  | 12        |
| 72 | Cation non-stoichiometry in yttrium-doped barium zirconate: phase behavior, microstructure, and proton conductivity. Journal of Materials Chemistry, 2010, 20, 8158.  | 6.7  | 197       |

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|----|--|------|-----------|
| 73 | High-Flux Solar-Driven Thermochemical Dissociation of CO <sub>2</sub> and H <sub>2</sub> O Using Nonstoichiometric Ceria. <i>Science</i> , 2010, 330, 1797-1801.   | 6.0  | 1,292     |
| 74 | Polymer sphere lithography for solid oxide fuel cells: a route to functional, well-defined electrode structures. <i>Journal of Materials Chemistry</i> , 2010, 20, 2190.   | 6.7  | 24        |
| 75 | Ceria as a Thermochemical Reaction Medium for Selectively Generating Syngas or Methane from H <sub>2</sub> O and CO <sub>2</sub> . <i>ChemSusChem</i> , 2009, 2, 735-739.  | 3.6  | 249       |
| 76 | High Total Proton Conductivity in Large-Grained Yttrium-Doped Barium Zirconate. <i>Chemistry of Materials</i> , 2009, 21, 2755-2762.   | 3.2  | 427       |
| 77 | Electrochemical studies of capacitance in cerium oxide thin films and its relationship to anionic and electronic defect densities. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8144.                                | 1.3  | 87        |
| 78 | Geometrically asymmetric electrodes for probing electrochemical reaction kinetics: a case study of hydrogen at the Pt/CsH <sub>2</sub> PO <sub>4</sub> interface. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 8349. | 1.3  | 20        |
| 79 | A Thermally Self-Sustaining Miniature Solid Oxide Fuel Cell. <i>Journal of Fuel Cell Science and Technology</i> , 2009, 6, .   | 0.8  | 20        |
| 80 | From Laboratory Breakthrough to Technological Realization: The Development Path for Solid Acid Fuel Cells. <i>Electrochemical Society Interface</i> , 2009, 18, 53-59.   | 0.3  | 33        |
| 81 | Electrochemical behavior of ceria with selected metal electrodes. <i>Solid State Ionics</i> , 2008, 179, 1036-1041.  | 1.3  | 52        |
| 82 | Inverse opal ceria/zirconia: architectural engineering for heterogeneous catalysis. <i>Energy and Environmental Science</i> , 2008, 1, 484.  | 15.6 | 37        |
| 83 | Electrochemical impedance spectroscopy of mixed conductors under a chemical potential gradient: a case study of Pt SDC BSCF. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 865-883.                                   | 1.3  | 44        |
| 84 | Defect Chemistry of Yttrium-Doped Barium Zirconate: A Thermodynamic Analysis of Water Uptake. <i>Chemistry of Materials</i> , 2008, 20, 6352-6357.   | 3.2  | 169       |
| 85 | Towards Understanding Electrocatalysis in CsH <sub>2</sub> PO <sub>4</sub> -Based Fuel Cells: Platinum and Palladium Thin Film Electrodes. <i>ECS Transactions</i> , 2008, 13, 57-62.  | 0.3  | 6         |
| 86 | Dehydration behavior of the superprotonic conductor CsH <sub>2</sub> PO <sub>4</sub> at moderate temperatures: 230 to 260 Å°C. <i>Journal of Materials Chemistry</i> , 2007, 17, 3182.   | 6.7  | 81        |
| 87 | Solid acid proton conductors: from laboratory curiosities to fuel cell electrolytes. <i>Faraday Discussions</i> , 2007, 134, 17-39.  | 1.6  | 272       |
| 88 | Processing of yttrium-doped barium zirconate for high proton conductivity. <i>Journal of Materials Research</i> , 2007, 22, 1322-1330.   | 1.2  | 363       |
| 89 | Entropy Evaluation of the Superprotonic Phase of CsHSO <sub>4</sub> : Pauling's Ice Rules Adjusted for Systems Containing Disordered Hydrogen-Bonded Tetrahedra. <i>Chemistry of Materials</i> , 2007, 19, 270-279.            | 3.2  | 15        |
| 90 | Alcohol Fuel Cells at Optimal Temperatures. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, A261.  | 2.2  | 51        |

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|-----|---|------|-----------|
| 91  | Enhanced Sintering of Yttrium-Doped Barium Zirconate by Addition of ZnO. Journal of the American Ceramic Society, 2005, 88, 2362-2368.  | 1.9  | 524       |
| 92  | Impedance Spectroscopy as a Tool for Chemical and Electrochemical Analysis of Mixed Conductors: A Case Study of Ceria. Journal of the American Ceramic Society, 2005, 88, 2979-2997.                          | 1.9  | 318       |
| 93  | Thermodynamic, thermomechanical, and electrochemical evaluation of CsHSO <sub>4</sub> . Solid State Ionics, 2005, 176, 127-133.   | 1.3  | 54        |
| 94  | Superprotonic phase transition of CsHSO <sub>4</sub> : A molecular dynamics simulation study. Physical Review B, 2005, 72, .  | 1.1  | 40        |
| 95  | Low-Temperature Crystallization of Sol-Gel Processed Pb <sub>0.5</sub> Ba <sub>0.5</sub> TiO <sub>3</sub> : Powders and Oriented Thin Films. Journal of the American Ceramic Society, 2004, 87, 1388-1391.    | 1.9  | 8         |
| 96  | A high-performance cathode for the next generation of solid-oxide fuel cells. Nature, 2004, 431, 170-173.   | 13.7 | 2,737     |
| 97  | High-Performance Solid Acid Fuel Cells Through Humidity Stabilization. Science, 2004, 303, 68-70.   | 6.0  | 440       |
| 98  | Preparation of (Pb,Ba)TiO <sub>3</sub> powders and highly oriented thin films by a sol-gel process. Journal of Materials Research, 2004, 19, 1492-1498.   | 1.2  | 25        |
| 99  | Fuel cell materials and components – The Golden Jubilee Issue – Selected topics in Materials Science and Engineering: Past, Present and Future, edited by S. Suresh.. Acta Materialia, 2003, 51, 5981-6000.   | 3.8  | 1,068     |
| 100 | High-Temperature Behavior of CsH <sub>2</sub> PO <sub>4</sub> under Both Ambient and High Pressure Conditions. Chemistry of Materials, 2003, 15, 727-736.   | 3.2  | 154       |
| 101 | Instability of Sulfate and Selenate Solid Acids in Fuel Cell Environments. Energy & Fuels, 2003, 17, 210-215.   | 2.5  | 57        |
| 102 | Hydrothermal synthesis of KNbO <sub>3</sub> and NaNbO <sub>3</sub> powders. Journal of Materials Research, 2003, 18, 338-345.   | 1.2  | 162       |
| 103 | Comparison of Titanium Precursors in the Sol-Gel Synthesis of Pb <sub>0.5</sub> Ba <sub>0.5</sub> TiO <sub>3</sub> Powders and Thin Films. Materials Research Society Symposia Proceedings, 2003, 784, 11361. | 0.1  | 0         |
| 104 | Hydrothermal synthesis of perovskite and pyrochlore powders of potassium tantalate. Journal of Materials Research, 2002, 17, 3168-3176.   | 1.2  | 75        |
| 105 | Parametric Optimization of a Sol-Gel Process for the Synthesis of Highly-Oriented (Pb, Ba)TiO <sub>3</sub> Thin Films. Materials Research Society Symposia Proceedings, 2002, 748, 1.                         | 0.1  | 1         |
| 106 | High-temperature phase transitions in K <sub>3</sub> H(SO <sub>4</sub> ) <sub>2</sub> . Solid State Ionics, 2001, 145, 179-184.   | 1.3  | 34        |
| 107 | Solid acids as fuel cell electrolytes. Nature, 2001, 410, 910-913.  | 13.7 | 833       |
| 108 | Polymer Solid Acid Composite Membranes for Fuel-Cell Applications. Journal of the Electrochemical Society, 2000, 147, 3610.   | 1.3  | 61        |

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|-----|---|-----|-----------|
| 109 | Chemical stability and proton conductivity of doped BaCeO <sub>3</sub> –BaZrO <sub>3</sub> solid solutions. Solid State Ionics, 1999, 125, 355-367.   | 1.3 | 602       |
| 110 | The role of microstructure and processing on the proton conducting properties of gadolinium-doped barium cerate. Journal of Materials Research, 1998, 13, 1576-1595.  | 1.2 | 219       |
| 111 | Ionic Conductivity in LaCo <sub>1-X</sub> Mg <sub>X</sub> O <sub>3-<math>\frac{1}{2}</math></sub> : A Potential Cathode Material for Solid Oxide Fuel Cells. Materials Research Society Symposia Proceedings, 1995, 393, 43.                          | 0.1 | 0         |
| 112 | The Kinetics of Ordering in Gadolinium Zirconate: an Unusual Oxygen Ion Conductor. Materials Research Society Symposia Proceedings, 1995, 398, 599.   | 0.1 | 4         |
| 113 | Synthesis, Structure, and Ionic Conductivity of K <sub>3</sub> NdSi <sub>6</sub> O <sub>15</sub> . Materials Research Society Symposia Proceedings, 1990, 210, 645.   | 0.1 | 3         |
| 114 | Neutron Rietveld Analysis of Anion and Cation Disorder in the Fast-Ion Conducting Pyrochlore System Y <sub>2</sub> (Zr <sub>x</sub> Ti <sub>1-x</sub> ) <sub>2</sub> O <sub>7</sub> . Materials Research Society Symposia Proceedings, 1989, 166, 81. | 0.1 | 21        |
| 115 | A Convergent Understanding of Charged Defects. Accounts of Materials Research, 0, , .   | 5.9 | 5         |