

Scott A Barnett

List of Publications by Year in descending order

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230
papers

15,547
citations

20759

60
h-index

18075

120
g-index

232
all docs

232
docs citations

232
times ranked

8057
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | (La _{0.8} Sr _{0.2}) _{0.98} MnO _{3-δ} -Zr _{0.92} Y _{0.16} O _{2-δ} :PrO _x for oxygen electrode supported solid oxide cells. Applied Catalysis B: Environmental, 2022, 306, 121114. | 10.8 | 20 |
| 2 | (Keynote) Degradation Processes in Solid Oxide Cell Ni-YSZ Electrodes. ECS Meeting Abstracts, 2022, MA2022-01, 1669-1669. | 0.0 | 0 |
| 3 | Time-Resolved Characterization of Electrochemically-Induced Solid Oxide Cell Microstructure Evolution. ECS Meeting Abstracts, 2022, MA2022-01, 1620-1620. | 0.0 | 0 |
| 4 | Elucidating and Mitigating High-Voltage Interfacial Chemomechanical Degradation of Nickel-Rich Lithium-Ion Battery Cathodes Via Conformal Graphene Coating. ECS Meeting Abstracts, 2022, MA2022-01, 317-317. | 0.0 | 0 |
| 5 | Characteristics of Oxygen Electrode Supported Reversible Solid Oxide Cells. Journal of the Electrochemical Society, 2021, 168, 054504. | 1.3 | 3 |
| 6 | Phase Formation during Reduction-Oxidation of Ni-Substituted Sr(Ti,Fe)O _{3-δ} Solid Oxide Fuel Electrodes. ECS Meeting Abstracts, 2021, MA2021-01, 1134-1134. | 0.0 | 0 |
| 7 | Interpretation and Modelling of the Electrochemical Impedance of LiFePO ₄ /Li ₄ Ti ₅ O ₁₂ Batteries. Journal of the Electrochemical Society, 2021, 168, 050519. | 1.3 | 2 |
| 8 | Simulation of the Electrochemical Impedance in a Three-Dimensional, Complex Microstructure of Solid Oxide Fuel Cell Cathode and Its Application in the Microstructure Characterization. Frontiers in Chemistry, 2021, 9, 627699. | 1.8 | 5 |
| 9 | Interpretation and Modelling of the Electrochemical Impedance of LiFePO ₄ /Li ₄ Ti ₅ O ₁₂ Batteries. ECS Meeting Abstracts, 2021, MA2021-01, 168-168. | 0.0 | 0 |
| 10 | Titanate Electrodes with Exsolved Ni-Fe Nanocatalysts in H ₂ /H ₂ O and CO/CO ₂ operation: An Impedance Study. ECS Meeting Abstracts, 2021, MA2021-03, 101-101. | 0.0 | 0 |
| 11 | The oxygen partial pressure in solid oxide electrolysis cells with multilayer electrolytes. Acta Materialia, 2021, 213, 116928. | 3.8 | 9 |
| 12 | Simulation of Electrochemical Impedance in a SOFC Cathode with Experimentally Determined Microstructure and its Application in Microstructure Characterization. ECS Meeting Abstracts, 2021, MA2021-03, 131-131. | 0.0 | 0 |
| 13 | Effect of Pressurization on Solid Oxide Cell Oxygen Electrodes: the Role of PrO _x Nanoparticle Infiltration. Journal of the Electrochemical Society, 2021, 168, 084514. | 1.3 | 5 |
| 14 | Viability of Vehicles Utilizing On-Board CO ₂ Capture. ACS Energy Letters, 2021, 6, 3180-3184. | 8.8 | 6 |
| 15 | Elucidating and Mitigating High-Voltage Interfacial Chemomechanical Degradation of Nickel-Rich Lithium-Ion Battery Cathodes via Conformal Graphene Coating. ACS Applied Energy Materials, 2021, 4, 11069-11079. | 2.5 | 13 |
| 16 | Effect of Nanoscale Ce _{0.8} Gd _{0.2} O _{2-δ} Infiltrant and Steam Content on Ni ₂ Y ₂ O ₃ _{0.08} (Zr ₂) _{0.92} Fuel Electrode Degradation during High-Temperature Electrolysis. Nano Letters, 2021, 21, 8363-8369. | 4.5 | 12 |
| 17 | On the role of the zirconia/ceria interface in the degradation of solid oxide electrolysis cells. Applied Physics Letters, 2020, 117, 123906. | 1.5 | 4 |
| 18 | Revealing the complex layered-mosaic structure of the cathode electrolyte interphase in Li-ion batteries. Applied Materials Today, 2020, 20, 100748. | 2.3 | 17 |

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|----|---|------|-----------|
| 19 | Advanced oxygen-electrode-supported solid oxide electrochemical cells with Sr(Ti,Fe)O ₃ -based fuel electrodes for electricity generation and hydrogen production. Journal of Materials Chemistry A, 2020, 8, 25867-25879. | 5.2 | 16 |
| 20 | Boosting solid oxide fuel cell performance <i>via</i> electrolyte thickness reduction and cathode infiltration. Journal of Materials Chemistry A, 2020, 8, 11626-11631. | 5.2 | 62 |
| 21 | Simulation of the diffusional impedance and application to the characterization of electrodes with complex microstructures. Electrochimica Acta, 2020, 354, 136534. | 2.6 | 14 |
| 22 | Tuning electrochemical and transport processes to achieve extreme performance and efficiency in solid oxide cells. Journal of Materials Chemistry A, 2020, 8, 11687-11694. | 5.2 | 17 |
| 23 | Enhancement of Ni _{0.8} Y _{0.2} O ₃ (ZrO ₂) _{0.92} fuel electrode performance by infiltration of Ce _{0.8} Gd _{0.2} O ₂ nanoparticles. Journal of Materials Chemistry A, 2020, 8, 4099-4106. | 5.2 | 36 |
| 24 | Effect of direct-current operation on the electrochemical performance and structural evolution of Ni-YSZ electrodes. JPhys Energy, 2020, 2, 014006. | 2.3 | 4 |
| 25 | The oxygen reduction reaction in solid oxide fuel cells: from kinetic parameters measurements to electrode design. JPhys Energy, 2020, 2, 042004. | 2.3 | 18 |
| 26 | Fuel Cell and Electrolysis Operation of Solid Oxide Cells Containing 3D-Printed Electrode Supports in H ₂ /H ₂ O and CO/CO ₂ Gas Mixtures. ECS Meeting Abstracts, 2020, MA2020-01, 1463-1463. | 0.0 | 0 |
| 27 | Sm _{0.5} Sr _{0.5} CoO ₃ Surface Modification of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ -Ce _{0.9} Gd _{0.1} O ₂ Composite Oxygen Electrodes for Solid Oxide Electrochemical Cells. Journal of the Electrochemical Society, 2020, 167, 164504. | 1.3 | 6 |
| 28 | Fuel Cell and Electrolysis Operation Solid Oxide Cells Incorporating 3D-Printed Electrode Supports in H ₂ /H ₂ O and CO/CO ₂ Gas Mixtures. ECS Meeting Abstracts, 2020, MA2020-02, 2545-2545. | 0.0 | 0 |
| 29 | (Invited) Effects of PrO _x and Gd-Doped CeO _x Infiltration: Enhancement of Solid Oxide Cell Performance and Stability. ECS Meeting Abstracts, 2020, MA2020-02, 2644-2644. | 0.0 | 0 |
| 30 | Atomic Layer Deposition for Surface Area Characterization of Porous Solid Oxide Fuel Cell Electrodes and Beyond. ECS Meeting Abstracts, 2020, MA2020-02, 1671-1671. | 0.0 | 0 |
| 31 | Conditions for stable operation of solid oxide electrolysis cells: oxygen electrode effects. Energy and Environmental Science, 2019, 12, 3053-3062. | 15.6 | 61 |
| 32 | Effect of Infiltration on Performance of Ni-YSZ Fuel Electrodes. ECS Transactions, 2019, 91, 1791-1797. | 0.3 | 9 |
| 33 | High stability SrTi _x Fe _x O ₃ electrodes for oxygen reduction and oxygen evolution reactions. Journal of Materials Chemistry A, 2019, 7, 21447-21458. | 5.2 | 32 |
| 34 | Effect of SrTi _{0.3} Fe _{0.6} Co _{0.1} O ₃ Infiltration on the Performance of LSM-YSZ Cathode Supported Solid Oxide Fuel Cells with Sr(Ti,Fe)O ₃ Anodes. ECS Transactions, 2019, 91, 2417-2424. | 0.3 | 1 |
| 35 | Exsolution and electrochemistry in perovskite solid oxide fuel cell anodes: Role of stoichiometry in Sr(Ti,Fe,Ni)O ₃ . Journal of Power Sources, 2019, 439, 227077. | 4.0 | 50 |
| 36 | Stable high current density operation of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ oxygen electrodes. Journal of Materials Chemistry A, 2019, 7, 13531-13539. | 5.2 | 26 |

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|----|--|-----|-----------|
| 37 | Electrochemical performance and stability of SrTi _{0.3} Fe _{0.6} Co _{0.1} O _{3-δ} infiltrated La _{0.8} Sr _{0.2} MnO ₃ Zr _{0.92} Y _{0.16} O _{2-δ} oxygen electrodes for intermediate-temperature solid oxide electrochemical cells. Journal of Power Sources, 2019, 426, 233-241. | 4.0 | 27 |
| 38 | Effectiveness of dense Gd-doped ceria barrier layers for (La,Sr)(Co,Fe)O ₃ cathodes on Ytria-stabilized zirconia electrolytes. Solid State Ionics, 2019, 335, 74-81. | 1.3 | 30 |
| 39 | Mechanisms of PrOx performance enhancement of oxygen electrodes for low and intermediate temperature solid oxide fuel cells. Materials Today Energy, 2019, 14, 100362. | 2.5 | 25 |
| 40 | ZrO ₂ atomic layer deposition into Sr _{0.5} Sm _{0.5} CoO _{3-δ} ∕Ce _{0.9} Gd _{0.1} O _{2-δ} solid oxide fuel cell cathodes: mechanisms of stability enhancement. Journal of Materials Chemistry A, 2019, 7, 27585-27593. | 5.2 | 17 |
| 41 | Study of La _{0.6} Sr _{0.4} Co _{1-x} Fe _x O _{3-δ} (x = 0.2) Tj ETQq1 1 0.784314 rg | 1.3 | 6 |
| 42 | High-Performance Oxygen Electrodes for Low Temperature Solid Oxide Cells. ECS Meeting Abstracts, 2019, , . | 0.0 | 1 |
| 43 | Degradation of High-Performance Oxygen Electrodes for Solid Oxide Cells. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 44 | (Invited) Titanate-Based Electrodes for Solid Oxide Cells. ECS Meeting Abstracts, 2019, , . | 0.0 | 1 |
| 45 | (Invited) Research Progress of High Temperature Electrolysis (HTE) Supernode. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 46 | Effects of Atomic Layer Deposition of ZrO ₂ on Infiltrated Mixed Ionic and Electronic Conducting Solid Oxide Cell Electrodes. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 47 | Life Testing of Ni-YSZ Fuel Electrode Under Electrolysis and Fuel Cell Operation in High Reducing Environment. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 48 | Atomic Resolution Imaging of the Cathode-Electrolyte Interface on a LiMn ₂ O ₄ Electrode. ECS Meeting Abstracts, 2019, MA2019-01, 555-555. | 0.0 | 1 |
| 49 | Oxygen-Electrode-Supported Solid Oxide Cells with High Fuel and Steam Utilization. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 50 | Understanding of Solid Oxide Electrolysis Cell Degradation: The Role of the Electrode Overpotential. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 51 | Distribution of Oxygen Partial Pressure in Multilayer Electrolytes: Explaining Degradation of Solid Oxide Electrolyzer Cells. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 52 | (Keynote) Electrochemical and Microstructural Studies of Degradation Mechanisms in Solid Oxide Cells. ECS Meeting Abstracts, 2019, , . | 0.0 | 0 |
| 53 | The enhanced electrochemical response of Sr(Ti _{0.3} Fe _{0.7} Ru _{0.07})O _{3-δ} anodes due to exsolved Ru∕Fe nanoparticles. Journal of Materials Chemistry A, 2018, 6, 5193-5201. | 5.2 | 41 |
| 54 | Pulsed Laser Deposition and Characterization of Heteroepitaxial LiMn ₂ O ₄ ∕La _{0.5} Sr _{0.5} CoO ₃ Bilayer Thin Films as Model Lithium Ion Battery Cathodes. ACS Applied Nano Materials, 2018, 1, 642-653. | 2.4 | 18 |

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|----|--|------|-----------|
| 55 | Ni-Substituted Sr(Ti,Fe)O ₃ SOFC Anodes: Achieving High Performance via Metal Alloy Nanoparticle Exsolution. <i>Joule</i> , 2018, 2, 478-496. | 11.7 | 220 |
| 56 | Performance and stability of La ₂ NiO ₄ -infiltrated La _{0.9} Sr _{0.1} Ga _{0.8} Mg _{0.2} O ₃ oxygen electrodes during current switched life testing. <i>Journal of Power Sources</i> , 2018, 395, 1-7. | 4.0 | 11 |
| 57 | Degradation Mechanisms of Porous La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} Solid Oxide Fuel Cell Cathodes. <i>Journal of the Electrochemical Society</i> , 2018, 165, F564-F570. | 1.3 | 29 |
| 58 | Effect of high-temperature ageing on (La,Sr)(Co,Fe)O _{3-δ} cathodes in microtubular solid oxide fuel cells. <i>Solid State Ionics</i> , 2018, 323, 85-91. | 1.3 | 20 |
| 59 | An insight into the electrochemical performance of La _{0.5-x} Pr _x Ba _{0.5} CoO _{3-δ} as cathodes for solid oxide fuel cells: study of the O ₂ -reduction reaction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16699-16709. | 5.2 | 13 |
| 60 | Cobalt-substituted SrTi _{0.3} Fe _{0.7} O _{3-δ} : a stable high-performance oxygen electrode material for intermediate-temperature solid oxide electrochemical cells. <i>Energy and Environmental Science</i> , 2018, 11, 1870-1879. | 15.6 | 93 |
| 61 | Effect of Reversing-Current Operation on the Structure and Electrochemical Performance Evolution of Ni-YSZ Fuel Electrodes. <i>Journal of the Electrochemical Society</i> , 2018, 165, F870-F875. | 1.3 | 8 |
| 62 | Tape Casting of High-Performance Low-Temperature Solid Oxide Cells with Thin La _{0.8} Sr _{0.2} Ga _{0.8} Mg _{0.2} O _{3-δ} Electrolytes and Impregnated Nano Anodes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7115-7124. | 4.0 | 28 |
| 63 | Comprehensive Enhancement of Nanostructured Lithium-Ion Battery Cathode Materials via Conformal Graphene Dispersion. <i>Nano Letters</i> , 2017, 17, 2539-2546. | 4.5 | 81 |
| 64 | The Electrochemical Properties of Sr(Ti,Fe)O _{3-δ} for Anodes in Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, F364-F371. | 1.3 | 41 |
| 65 | Solubility limits and LaGaO ₃ compatibility in the LaO _{1.5} -GaO _{1.5} -NiO ternary system. <i>Journal of the American Ceramic Society</i> , 2017, 100, 1682-1688. | 1.9 | 4 |
| 66 | Direct Butane Utilization on Ni-(Y ₂ O ₃) _{0.08} (ZrO ₂) _{0.92} -(Ce _{0.9} Gd _{0.1})O _{1.95} Composite Anode-Supported Microtubular Solid Oxide Fuel Cells. <i>Electrocatalysis</i> , 2017, 8, 288-293. | 1.5 | 9 |
| 67 | Sr Surface Segregation on La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O _{3-δ} Porous Solid Oxide Fuel Cell Cathodes. <i>ECS Transactions</i> , 2017, 78, 905-913. | 0.3 | 18 |
| 68 | Degradation of La _{0.6} Sr _{0.4} Fe _{0.8} Co _{0.2} O _{3-δ} Oxygen Electrodes on Ce _{0.9} Gd _{0.1} O _{2-δ} Electrolytes during Reversing Current Operation. <i>Journal of the Electrochemical Society</i> , 2017, 164, F3083-F3090. | 1.3 | 17 |
| 69 | Study of the Mechanisms of O ₂ -Reduction and Degradation Operating on La _{0.5-x} Pr _x Ba _{0.5} CoO _{3-δ} Cathodes for SOFCs. <i>ECS Transactions</i> , 2017, 78, 1011-1020. | 0.3 | 2 |
| 70 | Imaging of Fuel Cell and Battery Electrodes Using Focused Ion Beam Scanning Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 1310-1311. | 0.2 | 1 |
| 71 | Effect of Ni content on the morphological evolution of Ni-YSZ solid oxide fuel cell electrodes. <i>Applied Physics Letters</i> , 2016, 108, . | 1.5 | 22 |
| 72 | Three-Phase 3D Reconstruction of a LiCoO ₂ Cathode via FIB-SEM Tomography. <i>Microscopy and Microanalysis</i> , 2016, 22, 140-148. | 0.2 | 34 |

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|----|--|------|-----------|
| 73 | Degradation of nano-scale cathodes: a new paradigm for selecting low-temperature solid oxide cell materials. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 13216-13222. | 1.3 | 25 |
| 74 | High-Pressure Performance of Mixed-Conducting Oxygen Electrodes: Effect of Interstitial versus Vacancy Conductivity. <i>Journal of the Electrochemical Society</i> , 2016, 163, F1433-F1439. | 1.3 | 20 |
| 75 | Redox and phase behavior of Pd-substituted (La,Sr)CrO ₃ perovskite solid oxide fuel cell anodes. <i>Solid State Ionics</i> , 2016, 296, 90-105. | 1.3 | 26 |
| 76 | Hydrogen Oxidation Mechanisms on Perovskite Solid Oxide Fuel Cell Anodes. <i>Journal of the Electrochemical Society</i> , 2016, 163, F952-F961. | 1.3 | 50 |
| 77 | Relating the 3D electrode morphology to Li-ion battery performance; a case for LiFePO ₄ . <i>Journal of Power Sources</i> , 2016, 324, 358-367. | 4.0 | 33 |
| 78 | Mechanisms of Performance Degradation of (La,Sr)(Co,Fe)O _{3-δ} Solid Oxide Fuel Cell Cathodes. <i>Journal of the Electrochemical Society</i> , 2016, 163, F581-F585. | 1.3 | 118 |
| 79 | Electron microscopy investigations of changes in morphology and conductivity of LiFePO ₄ /C electrodes. <i>Journal of Power Sources</i> , 2016, 307, 259-269. | 4.0 | 48 |
| 80 | Combined electrochemical and X-ray tomography study of the high temperature evolution of Nickel α -Yttria Stabilized Zirconia solid oxide fuel cell anodes. <i>Journal of Power Sources</i> , 2016, 307, 604-612. | 4.0 | 57 |
| 81 | Anode-Supported Solid Oxide Fuel Cells Fabricated by Single Step Reduced-Temperature Co-Firing. <i>Journal of the Electrochemical Society</i> , 2016, 163, F196-F201. | 1.3 | 13 |
| 82 | A perspective on low-temperature solid oxide fuel cells. <i>Energy and Environmental Science</i> , 2016, 9, 1602-1644. | 15.6 | 698 |
| 83 | Observing the microstructural evolution of Ni-Yttria-stabilized zirconia solid oxide fuel cell anodes. <i>Acta Materialia</i> , 2016, 103, 204-210. | 3.8 | 44 |
| 84 | Electrochemical and microstructural properties of Ni α -(Y ₂ O ₃) _{0.08} (ZrO ₂) _{0.92} α -(Ce _{0.9} Gd _{0.1})O _{1.95} anode-supported microtubular solid oxide fuel cells. <i>Solid State Ionics</i> , 2016, 285, 227-233. | 1.3 | 19 |
| 85 | Study of Electrode Performance for Nanosized La _{0.4} Sr _{0.6} Co _{0.8} Fe _{0.2} O _{3-δ} IT-SOFC Cathode. <i>ECS Transactions</i> , 2015, 66, 169-176. | 0.3 | 4 |
| 86 | Pore-Scale Phenomena and Challenges in Energy Research and Technology. <i>World Scientific Series in Nanoscience and Nanotechnology</i> , 2015, , 305-338. | 0.1 | 0 |
| 87 | Modeling and experimental performance of an intermediate temperature reversible solid oxide cell for high-efficiency, distributed-scale electrical energy storage. <i>Journal of Power Sources</i> , 2015, 283, 329-342. | 4.0 | 67 |
| 88 | Large-scale electricity storage utilizing reversible solid oxide cells combined with underground storage of CO ₂ and CH ₄ . <i>Energy and Environmental Science</i> , 2015, 8, 2471-2479. | 15.6 | 229 |
| 89 | Decreasing the Polarization Resistance of (La,Sr)CrO _{3-δ} Solid Oxide Fuel Cell Anodes by Combined Fe and Ru Substitution. <i>Chemistry of Materials</i> , 2015, 27, 3683-3693. | 3.2 | 48 |
| 90 | Oxygen electrode characteristics of Pr ₂ NiO _{4-δ} -infiltrated porous (La _{0.9} Sr _{0.1})(Ga _{0.8} Mg _{0.2})O _{3-δ} . <i>Solid State Ionics</i> , 2015, 274, 134-139. | 1.3 | 34 |

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|-----|--|------|-----------|
| 91 | Solid oxide cells with zirconia/ceria Bi-Layer electrolytes fabricated by reduced temperature firing. <i>Journal of Materials Chemistry A</i> , 2015, 3, 9955-9964. | 5.2 | 66 |
| 92 | Degradation of $(\text{La}_{0.8}\text{Sr}_{0.2})_{0.98}\text{MnO}_{3-\delta}\text{Zr}_{0.84}\text{Y}_{0.16}\text{O}_{2-\delta}$ composite electrodes during reversing current operation. <i>Faraday Discussions</i> , 2015, 182, 365-377. | 1.3 | 5 |
| 93 | A High Power Density Intermediate-Temperature Solid Oxide Fuel Cell with Thin $(\text{La}_{0.9}\text{Sr}_{0.1})_{0.98}(\text{Ga}_{0.8}\text{Mg}_{0.2})\text{O}_{3-\delta}$ Electrolyte and Nano-Scale Anode. <i>Advanced Functional Materials</i> , 2014, 24, 5703-5709. | 4.8 | 48 |
| 94 | Determination of Electrode Oxygen Transport Kinetics Using Electrochemical Impedance Spectroscopy Combined with Three-Dimensional Microstructure Measurement: Application to Nd_2NiO_4 . <i>Journal of the Electrochemical Society</i> , 2014, 161, F1366-F1374. | 1.3 | 31 |
| 95 | Reduced-temperature firing of solid oxide fuel cells with zirconia/ceria bi-layer electrolytes. <i>Journal of Power Sources</i> , 2014, 260, 259-263. | 4.0 | 46 |
| 96 | Stable, Low Polarization Resistance Solid Oxide Fuel Cell Anodes: $\text{La}_{1-x}\text{Sr}_x\text{Cr}_{1-x}\text{Fe}_x\text{O}_{3-\delta}$ ($x = 0.2-0.67$). <i>Chemistry of Materials</i> , 2014, 26, 3113-3120. | 4.8 | 48 |
| 97 | Tortuosity characterization of 3D microstructure at nano-scale for energy storage and conversion materials. <i>Journal of Power Sources</i> , 2014, 249, 349-356. | 4.0 | 91 |
| 98 | Effects of Reduced Firing Temperature on Anode-Supported Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2014, 161, F600-F604. | 1.3 | 5 |
| 99 | Three-dimensional microstructure of high-performance pulsed-laser deposited Ni-YSZ SOFC anodes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 15249. | 1.3 | 32 |
| 100 | On the accuracy of triple phase boundary lengths calculated from tomographic image data. <i>Journal of Power Sources</i> , 2014, 261, 198-205. | 4.0 | 17 |
| 101 | Solid Oxide Fuel Cells, Direct Hydrocarbon Type. , 2014, , 1998-2008. | | 0 |
| 102 | Studies of Solid Oxide Fuel Cell Electrode Evolution Using 3D Tomography. <i>Fuel Cells</i> , 2013, 13, 449-454. | 1.5 | 25 |
| 103 | Effects of three-dimensional cathode microstructure on the performance of lithium-ion battery cathodes. <i>Electrochimica Acta</i> , 2013, 88, 580-588. | 2.6 | 144 |
| 104 | Three-dimensional morphological measurements of LiCoO_2 and $\text{LiCoO}_2/\text{Li}(\text{Ni}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3})\text{O}_2$ lithium-ion battery cathodes. <i>Journal of Power Sources</i> , 2013, 227, 267-274. | 4.0 | 66 |
| 105 | Life testing of LSM-YSZ composite electrodes under reversing-current operation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 17257. | 1.3 | 60 |
| 106 | 3D analysis of a $\text{LiCoO}_2/\text{Li}(\text{Ni}_{1/3}\text{Mn}_{1/3}\text{Co}_{1/3})\text{O}_2$ Li-ion battery positive electrode using x-ray nano-tomography. <i>Electrochemistry Communications</i> , 2013, 28, 127-130. | 2.3 | 93 |
| 107 | Three-dimensional reconstruction and analysis of an entire solid oxide fuel cell by full-field transmission X-ray microscopy. <i>Journal of Power Sources</i> , 2013, 233, 174-179. | 4.0 | 90 |
| 108 | Fe-substituted $\text{SrTiO}_3/\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_2$ composite anodes for solid oxide fuel cells. <i>Energy and Environmental Science</i> , 2013, 6, 1850. | 15.6 | 82 |

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|-----|--|------|-----------|
| 109 | Three-Dimensional Microstructural Evolution of Ni- Yttria-Stabilized Zirconia Solid Oxide Fuel Cell Anodes At Elevated Temperatures. Journal of the Electrochemical Society, 2013, 160, F1293-F1304. | 1.3 | 54 |
| 110 | Fabrication of Solid Oxide Fuel Cells with a Thin $(\text{La}_{0.9}\text{Sr}_{0.1})_{0.98}(\text{Ga}_{0.8}\text{Mg}_{0.2})\text{O}_{3-\delta}$ Electrolyte on a $\text{Sr}_{0.8}\text{La}_{0.2}\text{TiO}_3$ Support. Fuel Cells, 2013, 13, 1060-1067. | 1.5 | 13 |
| 111 | Performance and Stability of $\text{La}_{2}\text{Fe}_{2}\text{CrO}_9$ -Based Solid Oxide Fuel Cell Anodes in Hydrogen and Carbon Monoxide. Journal of the Electrochemical Society, 2013, 160, F90-F93. | 1.3 | 19 |
| 112 | Durability Testing of Solid Oxide Cell Electrodes with Current Switching. Journal of the Electrochemical Society, 2012, 159, F858-F863. | 1.3 | 20 |
| 113 | Effect Of Current Switching on LSM-YSZ Composite Electrode Durability. ECS Transactions, 2012, 41, 129-136. | 0.3 | 2 |
| 114 | Directed assembly in epitaxial zinc oxide films on focused ion beam modified sapphire substrates. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2012, 30, 010605. | 0.6 | 1 |
| 115 | Effect of Firing Temperature on LSM-YSZ Composite Cathodes: A Combined Three-Dimensional Microstructure and Impedance Spectroscopy Study. Journal of the Electrochemical Society, 2012, 159, B385-B393. | 1.3 | 66 |
| 116 | Use of the Simple Infiltrated Microstructure Polarization Loss Estimation (SIMPLE) model to describe the performance of nano-composite solid oxide fuel cell cathodes. Physical Chemistry Chemical Physics, 2012, 14, 15379. | 1.3 | 47 |
| 117 | A solid oxide cell yielding high power density below 600 Å°C. RSC Advances, 2012, 2, 4075. | 1.7 | 51 |
| 118 | 3D Non-destructive morphological analysis of a solid oxide fuel cell anode using full-field X-ray nano-tomography. Journal of Power Sources, 2012, 218, 348-351. | 4.0 | 67 |
| 119 | A reduced temperature solid oxide fuel cell with nanostructured anodes. Energy and Environmental Science, 2011, 4, 3951. | 15.6 | 121 |
| 120 | High efficiency electrical energy storage using a methane-oxygen solid oxide cell. Energy and Environmental Science, 2011, 4, 944-951. | 15.6 | 154 |
| 121 | Microstructural 3D Reconstruction and Performance Evaluation of LSCF Cathodes Obtained by Electrostatic Spray Deposition. Chemistry of Materials, 2011, 23, 5340-5348. | 3.2 | 68 |
| 122 | Linking the microstructure, performance and durability of Ni- yttria-stabilized zirconia solid oxide fuel cell anodes using three-dimensional focused ion beam-scanning electron microscopy imaging. Scripta Materialia, 2011, 65, 67-72. | 2.6 | 95 |
| 123 | Pd-substituted $(\text{La},\text{Sr})\text{CrO}_3$ "Ce _{0.9} Gd _{0.1} O ₂ " solid oxide fuel cell anodes exhibiting regenerative behavior. Journal of Power Sources, 2011, 196, 3089-3094. | 4.0 | 85 |
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