# Jong-Ho Lee

List of Publications by Year
in descending order



| 132 | 3,750 | 136950 | 161849 |
|---|---|---|---|
| papers | citations | 32 h-index | 54 g-index |

| 134 | 134 | 134 | 3073 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | A 5â€‰Ã—â€‰5 cm2 protonic ceramic fuel cell with a power density of 1.3â€‰Wâ€‰cmâ€“2 at 600â€‰Â°C. Nature Energy, 2018, 3, 870-875. | 39.5 | 254 |
| 2 | Demonstrating the potential of yttrium-doped barium zirconate electrolyte for high-performance fuel cells. Nature Communications, 2017, 8, 14553. | 12.8 | 218 |
| 3 | Highâ€Performance Microâ€Solid Oxide Fuel Cells Fabricated on Nanoporous Anodic Aluminum Oxide Templates. Advanced Functional Materials, 2011, 21, 1154-1159. | 14.9 | 151 |
| 4 | Extremely Thin Bilayer Electrolyte for Solid Oxide Fuel Cells (SOFCs) Fabricated by Chemical Solution Deposition (CSD). Advanced Materials, 2012, 24, 3373-3377. | 21.0 | 118 |
| 5 | The potential and challenges of thin-film electrolyte and nanostructured electrode for yttria-stabilized zirconia-base anode-supported solid oxide fuel cells. Journal of Power Sources, 2014, 247, 105-111. | 7.8 | 104 |
| 6 | Nano-tailoring of infiltrated catalysts for high-temperature solid oxide regenerative fuel cells. Nano Energy, 2017, 36, 9-20. | 16.0 | 88 |
| 7 | Role of Multivalent Pr in the Formation and Migration of Oxygen Vacancy in Pr-Doped Ceria: Experimental and First-Principles Investigations. Chemistry of Materials, 2012, 24, 4261-4267. | 6.7 | 86 |
| 8 | Low Temperature Performance Improvement of SOFC with Thin Film Electrolyte and Electrodes Fabricated by Pulsed Laser Deposition. Journal of the Electrochemical Society, 2009, 156, B1484. | 2.9 | 78 |
| 9 | Superionic Halogen-Rich Li-Argyrodites Using In Situ Nanocrystal Nucleation and Rapid Crystal Growth. Nano Letters, 2020, 20, 2303-2309. | 9.1 | 75 |
| 10 | Fabrication and performance evaluation of 3-cell SOFC stack based on planar 10cmÃ—10cm anode-supported cells. Journal of Power Sources, 2006, 159, 478-483. | 7.8 | 71 |
| 11 | Low temperature sintering of BaZrO3-based proton conductors for intermediate temperature solid oxide fuel cells. Solid State Ionics, 2010, 181, 163-167. | 2.7 | 69 |
| 12 | Microstructural factors of electrodes affecting the performance of anode-supported thin film yttria-stabilized zirconia electrolyte (âˆ¼1Î¼m) solid oxide fuel cells. Journal of Power Sources, 2011, 196, 7169-7174. | 7.8 | 65 |
| 13 | Suppression of Ni agglomeration in PLD fabricated Ni-YSZ composite for surface modification of SOFC anode. Journal of the European Ceramic Society, 2010, 30, 3415-3423. | 5.7 | 61 |
| 14 | Synthesis of nano-crystalline Ce0.9Gd0.1O1.95 electrolyte by novel solâ€“gel thermolysis process for IT-SOFCs. Journal of the European Ceramic Society, 2008, 28, 3107-3112. | 5.7 | 60 |
| 15 | Impact of nanostructured anode on low-temperature performance of thin-film-based anode-supported solid oxide fuel cells. Journal of Power Sources, 2016, 315, 324-330. | 7.8 | 60 |
| 16 | Effect of nickel nano-particle sintering on methane reforming activity of Ni-CGO cermet anodes for internal steam reforming SOFCs. Applied Catalysis B: Environmental, 2011, 101, 531-539. | 20.2 | 57 |
| 17 | The effect of an ultra-thin zirconia blocking layer on the performance of a 1-Î¼m-thick gadolinia-doped ceria electrolyte solid-oxide fuel cell. Journal of Power Sources, 2012, 206, 91-96. | 7.8 | 57 |
| 18 | Catalytic behavior of metal catalysts in high-temperature RWGS reaction: In-situ FT-IR experiments and first-principles calculations. Scientific Reports, 2017, 7, 41207. | 3.3 | 57 |

| # | Article | IF | Citations |
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| 19 | Investigation of anode-supported SOFC with cobalt-containing cathode and GDC interlayer. Solid State Ionics, 2008, 179, 1535-1539. | 2.7 | 56 |
| 20 | Highly Dense Mn-Co Spinel Coating for Protection of Metallic Interconnect of Solid Oxide Fuel Cells. Journal of the Electrochemical Society, 2014, 161, F1389-F1394. | 2.9 | 55 |
| 21 | Quantitative Analysis of Microstructures and Reaction Interfaces on Composite Cathodes in All-Solid-State Batteries Using a Three-Dimensional Reconstruction Technique. ACS Applied Materials & Interfaces, 2018, 10, 23740-23747. | 8.0 | 53 |
| 22 | Promotion of Pt/CeO<sub>2</sub> catalyst by hydrogen treatment for low-temperature CO oxidation. RSC Advances, 2019, 9, 27002-27012. | 3.6 | 53 |
| 23 | High-performance thin-film protonic ceramic fuel cells fabricated on anode supports with a non-proton-conducting ceramic matrix. Journal of Materials Chemistry A, 2016, 4, 6395-6403. | 10.3 | 52 |
| 24 | Electrochemical analysis of high-performance protonic ceramic fuel cells based on a columnar-structured thin electrolyte. Applied Energy, 2019, 233-234, 29-36. | 10.1 | 52 |
| 25 | Physical and Microstructural Properties of NiOâ€•and Niâ€YSZ Composite Thin Films Fabricated by Pulsedâ€Laser Deposition at Tâ‰700Â°C. Journal of the American Ceramic Society, 2009, 92, 3059-3064. | 3.8 | 45 |
| 26 | Three dimensional representations of partial ionic and electronic conductivity based on defect structure analysis of BaZr0.85Y0.15O3âˆ’. Solid State Ionics, 2011, 203, 9-17. | 2.7 | 44 |
| 27 | Praseodymium doped ceria as electrolyte material for IT-SOFC applications. Materials Chemistry and Physics, 2018, 216, 136-142. | 4.0 | 42 |
| 28 | â€˜Illusionalâ€™ nano-size effect due to artifacts of in-plane conductivity measurements of ultra-thin films. Physical Chemistry Chemical Physics, 2011, 13, 6133. | 2.8 | 41 |
| 29 | Thermo-mechanical stability of multi-scale-architectured thin-film-based solid oxide fuel cells assessed by thermal cycling tests. Journal of Power Sources, 2014, 249, 125-130. | 7.8 | 39 |
| 30 | Synthesis, sintering and conductivity behavior of ceria-doped Scandia-stabilized zirconia. Solid State Ionics, 2014, 263, 103-109. | 2.7 | 37 |
| 31 | Highly active and thermally stable single-atom catalysts for high-temperature electrochemical devices. Energy and Environmental Science, 2020, 13, 4903-4920. | 30.8 | 35 |
| 32 | Optimization of current collection to reduce the lateral conduction loss of thin-film-processed cathodes. Journal of Power Sources, 2013, 230, 109-114. | 7.8 | 34 |
| 33 | Effect of sintering atmosphere on phase stability, and electrical conductivity of proton-conducting Ba(Zr0.84Y0.15Cu0.01)O3âˆ’. International Journal of Hydrogen Energy, 2014, 39, 7100-7108. | 7.1 | 34 |
| 34 | Protonic ceramic electrolysis cells for fuel production: a brief review. Journal of the Korean Ceramic Society, 2020, 57, 480-494. | 2.3 | 34 |
| 35 | Pulsed Laser Deposition of La0.6Sr0.4CoO3âˆ’Î´-Ce0.9Gd0.1O2âˆ’Î´ Nano-Composite and Its Application to Gradient-Structured Thin-film Cathode of SOFC. Journal of the Electrochemical Society, 2011, 158, B1000. | 2.9 | 32 |
| 36 | Enhanced oxygen diffusion in epitaxial lanthanumâ€“strontiumâ€“cobaltite thin film cathodes for micro solid oxidefuel cells. Energy and Environmental Science, 2013, 6, 116-120. | 30.8 | 32 |

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|---|---|---|---|
| 37 | Thin film yttria-stabilized zirconia electrolyte for intermediate-temperature solid oxide fuel cells (IT-SOFCs) by chemical solution deposition. Journal of the European Ceramic Society, 2012, 32, 1733-1741. | 5.7 | 30 |
| 38 | SOFCs with Sc-Doped Zirconia Electrolyte and Co-Containing Perovskite Cathodes. Journal of the Electrochemical Society, 2007, 154, B480. | 2.9 | 29 |
| 39 | An investigation of the interfacial stability between the anode and electrolyte layer of LSGM-based SOFCs. Journal of Materials Science, 2007, 42, 1866-1871. | 3.7 | 29 |
| 40 | Sintering behavior and electrochemical performances of nano-sized gadolinium-doped ceria via ammonium carbonate assisted co-precipitation for solid oxide fuel cells. Journal of Alloys and Compounds, 2016, 682, 188-195. | 5.5 | 29 |
| 41 | Fabrication of anode-supported protonic ceramic fuel cell with Ba(Zr0.85Y0.15)O3â^'â€“Ba(Ce0.9Y0.1)O3â^' dual-layer electrolyte. International Journal of Hydrogen Energy, 2014, 39, 12812-12818. | 7.1 | 28 |
| 42 | Highly durable solid oxide fuel cells: suppressing chemical degradationviarational design of a diffusion-blocking layer. Journal of Materials Chemistry A, 2018, 6, 15083-15094. | 10.3 | 28 |
| 43 | Grain size effect on the electrical properties of nanocrystalline ceria. Journal of the European Ceramic Society, 2014, 34, 2363-2370. | 5.7 | 27 |
| 44 | Scale-Up of Thin-Film Deposition-Based Solid Oxide Fuel Cell by Sputtering, a Commercially Viable Thin-Film Technology. Journal of the Electrochemical Society, 2016, 163, F613-F617. | 2.9 | 27 |
| 45 | Effect of secondary metal catalysts on butane internal steam reforming operation of thin-film solid oxide fuel cells at 500â€“600 Â°C. Applied Catalysis B: Environmental, 2020, 263, 118349. | 20.2 | 27 |
| 46 | Limitation of Thickness Increment of Lanthanum Strontium Cobaltite Cathode Fabricated by Pulsed Laser Deposition. Journal of the Electrochemical Society, 2011, 158, B1. | 2.9 | 24 |
| 47 | Lattice distortion effect on electrical properties of GDC thin films: Experimental evidence and computational simulation. Solid State Ionics, 2012, 229, 45-53. | 2.7 | 24 |
| 48 | Lattice-strain effect on oxygen vacancy formation in gadolinium-doped ceria. Journal of Electroceramics, 2014, 32, 72-77. | 2.0 | 24 |
| 49 | Fabrication of thin-film gadolinia-doped ceria (GDC) interdiffusion barrier layers for intermediate-temperature solid oxide fuel cells (IT-SOFCs) by chemical solution deposition (CSD). Ceramics International, 2014, 40, 8135-8142. | 4.8 | 24 |
| 50 | Synthesis of GDC electrolyte material for IT-SOFCs using glucose & fructose and its characterization. Nano Structures Nano Objects, 2017, 11, 7-12. | 3.5 | 24 |
| 51 | Study on the Electrode Reaction Mechanism of Pulsed-Laser Deposited Thin-Film La<sub>1â^'x</sub>Sr<sub>x</sub>CoO<sub>3â^'Î´</sub>(x = 0.2. 0.4) Cathodes. Journal of the Electrochemical Society, 2012, 159, F639-F643. | 2.9 | 23 |
| 52 | Chemically Evolved Composite Lithium-Ion Conductors with Lithium Thiophosphates and Nickel Sulfides. ACS Energy Letters, 2017, 2, 1740-1745. | 17.4 | 23 |
| 53 | Reassessment of conventional polarization technique to measure partial electronic conductivity of electrolytes. Solid State Ionics, 2010, 181, 724-729. | 2.7 | 22 |
| 54 | Soot Oxidation Activity of Redox and Non-Redox Metal Oxides Synthesised by EDTAâ€“Citrate Method. Catalysis Letters, 2017, 147, 3004-3016. | 2.6 | 22 |

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| 55 | Substrate effect on the electrical properties of sputtered YSZ thin films for co-planar SOFC applications. Journal of Electroceramics, 2010, 24, 153-160. | 2.0 | 21 |
| 56 | Effect of Elastic Network of Ceramic Fillers on Thermal Cycle Stability of a Solid Oxide Fuel Cell Stack. Advanced Energy Materials, 2012, 2, 461-468. | 19.5 | 21 |
| 57 | Optical absorption and XPS studies of (Ba 1â^'x Sr x )(Ce 0.75 Zr 0.10 Y 0.15 )O 3â^'Î´ electrolytes for protonic ceramic fuel cells. Ceramics International, 2016, 42, 10366-10372. | 4.8 | 21 |
| 58 | Transmission Electron Microscopy Study on Microstructure and Interfacial Property of Thin Film Electrolyte SOFC. Electrochemical and Solid-State Letters, 2011, 14, B26. | 2.2 | 20 |
| 59 | Influence of background oxygen pressure on film properties of pulsed laser deposited Y:BaZrO3. Thin Solid Films, 2014, 552, 24-31. | 1.8 | 20 |
| 60 | Palladium incorporation at the anode of thin-film solid oxide fuel cells and its effect on direct utilization of butane fuel at 600â€Â°C. Applied Energy, 2019, 243, 155-164. | 10.1 | 20 |
| 61 | Atomistic Assessments of Lithium-Ion Conduction Behavior in Glassâ€“Ceramic Lithium Thiophosphates. ACS Applied Materials & Interfaces, 2019, 11, 13-18. | 8.0 | 20 |
| 62 | Fabrication of dense and defect-free diffusion barrier layer via constrained sintering for solid oxide fuel cells. Journal of the European Ceramic Society, 2017, 37, 3219-3223. | 5.7 | 19 |
| 63 | Incorporation of a Pd catalyst at the fuel electrode of a thin-film-based solid oxide cell by multi-layer deposition and its impact on low-temperature co-electrolysis. Journal of Materials Chemistry A, 2017, 5, 7433-7444. | 10.3 | 19 |
| 64 | Sintered powder-base cathode over vacuum-deposited thin-film electrolyte of low-temperature solid oxide fuel cell: Performance and stability. Electrochimica Acta, 2019, 296, 1055-1063. | 5.2 | 19 |
| 65 | Solid oxide fuel cells with zirconia/ceria bilayer electrolytes via roll calendering process. Journal of Alloys and Compounds, 2020, 846, 156318. | 5.5 | 19 |
| 66 | Integrated application of semantic segmentation-assisted deep learning to quantitative multi-phased microstructural analysis in composite materials: Case study of cathode composite materials of solid oxide fuel cells. Journal of Power Sources, 2020, 471, 228458. | 7.8 | 19 |
| 67 | Estimation of the protonic concentration and mobility in Ba(Zr0.81Yb0.15Zn0.04)O3â^'Î´ ceramic. Solid State Ionics, 2011, 192, 88-92. | 2.7 | 18 |
| 68 | Fabrication and characterization of Ba(Zr0.84Y0.15Cu0.01)O3 electrolyte-based protonic ceramic fuel cells. Ceramics International, 2013, 39, 9605-9611. | 4.8 | 18 |
| 69 | Oxygen ion transport in doped ceria: effect of vacancy trapping. Journal of Materials Chemistry A, 2021, 9, 13883-13889. | 10.3 | 18 |
| 70 | Thermally Induced S-Sublattice Transition of Li<sub>3</sub>PS<sub>4</sub> for Fast Lithium-Ion Conduction. Journal of Physical Chemistry Letters, 2018, 9, 5592-5597. | 4.6 | 17 |
| 71 | Improved electrochemical performance and durability of butaneâ€operating lowâ€temperature solid oxide fuel cell through palladium infiltration. International Journal of Energy Research, 2020, 44, 9995-10007. | 4.5 | 17 |
| 72 | Physical and Electrochemical Characteristics of Pulsed Laser Deposited La<sub>0.6</sub>Sr<sub>0.4</sub>CoO<sub>3â^'Î´</sub>-Ce<sub>0.9</sub>Gd<sub>0.1</sub>O<sub>2â^'Î´</sub> Nanocomposites as a Function of the Mixing Ratio. Journal of the Electrochemical Society, 2014, 161, F16-F22. | 2.9 | 16 |

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| 73 | Naturally diffused sintering aid for highly conductive bilayer electrolytes in solid oxide cells. Science Advances, 2021, 7, eabj8590. | 10.3 | 16 |
| 74 | Effect of Ba-deficiency on the phase and structural stability of (BaSr)(CeZr)O3-based proton conducting oxides. International Journal of Hydrogen Energy, 2015, 40, 11022-11031. | 7.1 | 15 |
| 75 | A nanoarchitectured cermet composite with extremely low Ni content for stable high-performance solid oxide fuel cells. Acta Materialia, 2021, 206, 116580. | 7.9 | 15 |
| 76 | Influence of sintering activators on electrical property of BaZr0.85Y0.15O3-Î´ proton-conducting electrolyte. Journal of Power Sources, 2021, 507, 230296. | 7.8 | 15 |
| 77 | Tailoring shape and exposed crystal facet of single-crystal layered-oxide cathode particles for all-solid-state batteries. Chemical Engineering Journal, 2022, 445, 136828. | 12.7 | 15 |
| 78 | The Effect of Post-Annealing on the Properties of a Pulsed-Laser-Deposited La<sub>0.6</sub>Sr<sub>0.4</sub>CoO<sub>3-Î´</sub>-Ce<sub>0.9</sub>Gd<sub>0.1</sub>O<sub>2-Î´</sub> Nano-Composite Cathode. Journal of the Electrochemical Society, 2013, 160, F1027-F1032. | 3.1 | 14 |
| 79 | Processing and characterizations of a novel proton-conducting BaCe0.35Zr0.50Y0.15O3-Î´ electrolyte and its nickel-based anode composite for anode-supported IT-SOFC. Materials for Renewable and Sustainable Energy, 2014, 3, 1. | 3.6 | 14 |
| 80 | Interpretation of Impedance Spectra of Solid Oxide Fuel Cells: L-Curve Criterion for Determination of Regularization Parameter in Distribution Function of Relaxation Times Technique. Jom, 2019, 71, 3825-3834. | 1.9 | 14 |
| 81 | Constrained Sintering in Fabrication of Solid Oxide Fuel Cells. Materials, 2016, 9, 675. | 2.9 | 13 |
| 82 | Deep learning-assisted microstructural analysis of Ni/YSZ anode composites for solid oxide fuel cells. Materials Characterization, 2021, 172, 110906. | 4.4 | 12 |
| 83 | Achieving performance and longevity with butane-operated low-temperature solid oxide fuel cells using low-cost Cu and CeO<sub>2</sub> catalysts. Journal of Materials Chemistry A, 2022, 10, 2460-2473. | 10.3 | 12 |
| 84 | Structural optimization of (La, Sr)CoO3-based multilayered composite cathode forÂsolid-oxide fuel cells. Journal of Power Sources, 2013, 228, 97-103. | 7.8 | 11 |
| 85 | Sandwiched ultra-thin yttria-stabilized zirconia layer to effectively and reliably block reduction of thin-film gadolinia-doped ceria electrolyte. Journal of the Ceramic Society of Japan, 2015, 123, 263-267. | 1.1 | 11 |
| 86 | Identification of an Actual Strain-Induced Effect on Fast Ion Conduction in a Thin-Film Electrolyte. Nano Letters, 2018, 18, 2794-2801. | 9.1 | 11 |
| 87 | Comprehensive Understanding of Cathodic and Anodic Polarization Effects on Stability of Nanoscale Oxygen Electrode for Reversible Solid Oxide Cells. ACS Applied Materials & Interfaces, 2018, 10, 39608-39614. | 8.0 | 11 |
| 88 | Robust solid-state interface with a deformable glass interlayer in sulfide-based all-solid-state batteries. Solid State Ionics, 2020, 346, 115217. | 2.7 | 11 |
| 89 | Quantitative determination of lithium depletion during rapid cycling in sulfide-based all-solid-state batteries. Chemical Communications, 2021, 57, 3453-3456. | 4.1 | 11 |
| 90 | Ceria-samarium binary metal oxides: A comparative approach towards structural properties and soot oxidation activity. Molecular Catalysis, 2018, 451, 247-254. | 2.0 | 10 |

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|---|---|---|---|
| 91 | Roles of Polymerized Anionic Clusters Stimulating for Hydrolysis Deterioration in Li<sub>7</sub>P<sub>3</sub>S<sub>11</sub>. Journal of Physical Chemistry C, 2021, 125, 19509-19516. | 3.1 | 10 |
| 92 | Strain-Induced Tailoring of Oxygen-Ion Transport in Highly Doped CeO<sub>2</sub> Electrolyte: Effects of Biaxial Extrinsic and Local Lattice Strain. ACS Applied Materials & Interfaces, 2017, 9, 42415-42419. | 8.0 | 10 |
| 93 | The proton uptake process in double perovskite triple ionic-electronic conducting oxides for protonic ceramic cells. Journal of Materials Chemistry A, 2022, 10, 16127-16136. | 10.3 | 10 |
| 94 | Effects of B-site substitution on the surface adsorption properties and catalytic activities of La0.8Sr0.2(Mn1â˜'xCox)O3. Applied Catalysis A: General, 2010, 387, 203-208. | 4.3 | 9 |
| 95 | Surface modification of anode substrate via nano-powder slurry spin coating for the thin film electrolyte of solid oxide fuel cell. Thin Solid Films, 2011, 519, 2534-2539. | 1.8 | 9 |
| 96 | Determination of proton transference number of Ba(Zr0.84Y0.15Cu0.01)O3â˜'Î´ via electrochemical concentration cell test. Journal of Solid State Electrochemistry, 2013, 17, 2833-2838. | 2.5 | 9 |
| 97 | High-Temperature Current Collection Enabled by the in Situ Phase Transformation of Cobaltâ€“Nickel Foam for Solid Oxide Fuel Cells. ACS Applied Materials & Interfaces, 2017, 9, 39407-39415. | 8.0 | 9 |
| 98 | Configuring PSx tetrahedral clusters in Li-excess Li7P3S11 solid electrolyte. APL Materials, 2018, 6, . | 5.1 | 9 |
| 99 | Effect of <scp>Fe</scp> infiltration to <scp>Ni</scp> / <scp>YSZ</scp> solidâ€oxideâ€cell fuel electrode on steam/ <scp>CO</scp> <sub>2</sub> coâ€electrolysis. International Journal of Energy Research, 2019, 43, 4949-4958. | 4.5 | 9 |
| 100 | Enhanced sinterability and electrochemical performance of solid oxide fuel cells via a rollÂcalendering process. Journal of Materials Chemistry A, 2019, 7, 9958-9967. | 10.3 | 9 |
| 101 | PrBa0.5Sr0.5Co1.5Fe0.5O5+Î´ composite cathode in protonic ceramic fuel cells. Journal of the Korean Ceramic Society, 2021, 58, 351-358. | 2.3 | 9 |
| 102 | Thin Film (La<sub>0.7</sub>Sr<sub>0.3</sub>)<sub>0.95</sub>MnO<sub>3-Î´</sub>Fabricated by Pulsed Laser Deposition and Its Application as a Solid Oxide Fuel Cell Cathode for Low-Temperature Operation. Journal of the Korean Ceramic Society, 2010, 47, 75-81. | 2.3 | 9 |
| 103 | Powder Packing Behavior and Constrained Sintering in Powder Processing of Solid Oxide Fuel Cells (SOFCs). Journal of the Korean Ceramic Society, 2019, 56, 130-145. | 2.3 | 9 |
| 104 | Effect of internal and external constraints on sintering behavior of thin film electrolytes for solid oxide fuel cells (SOFCs). Ceramics International, 2014, 40, 13131-13138. | 4.8 | 8 |
| 105 | Open-cell voltage and electrical conductivity of a protonic ceramic electrolyte under two chemical potential gradients. Physical Chemistry Chemical Physics, 2018, 20, 14997-15001. | 2.8 | 8 |
| 106 | Experimental evidence of tunable space-charge-layer-induced electrical properties of nanocrystalline ceria thin films. Physical Chemistry Chemical Physics, 2013, 15, 15632. | 2.8 | 7 |
| 107 | On the sol-gel synthesis and characterization of (BaSr)(CeZr)O3-based fuel cell electrolytes. Ionics, 2016, 22, 2529-2538. | 2.4 | 6 |
| 108 | Collateral hydrogenation over proton-conducting Ni/BaZr<sub>0.85</sub>Y<sub>0.15</sub>O<sub>3â˜'Î´</sub> catalysts for promoting CO<sub>2</sub> methanation. RSC Advances, 2018, 8, 32095-32101. | 3.6 | 6 |

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| 109 | High-performance and robust operation of anode-supported solid oxide fuel cells in mixed-gas atmosphere. International Journal of Energy Research, 2016, 40, 726-732. | 4.5 | 5 |
| 110 | Synthesis and conductivity behaviour of proton conducting (1â^'x)Ba<sub>0.6</sub>Sr<sub>0.4</sub>Ce<sub>0.75</sub>Zr<sub>0.10</sub>Y<sub>0.15</sub>O<sub>3â^'Î´</sub>â€<sc (x=0, 0.2, 0.5) composite electrolytes. Journal of the American Ceramic Society, 2017, 100, 4710-4718. | 3.8 | 5 |
| 111 | Suppression of processing defects in large-scale anode of planar solid oxide fuel cell via multi-layer roll calendering. Journal of Alloys and Compounds, 2020, 812, 152113. | 5.5 | 5 |
| 112 | Degradation of hydration kinetics of proton-conducting Ba(Zr0.84Y0.15Cu0.01)O3â^'Î´ during conductivity-relaxation experiment. Journal of Power Sources, 2016, 332, 299-304. | 7.8 | 4 |
| 113 | Oxygen transport in epitaxial La0.875Sr0.125CoO3-Î´ thin-film cathodes for solid oxide fuel cells: Roles of anisotropic strain. Scripta Materialia, 2016, 115, 141-144. | 5.2 | 4 |
| 114 | Highly controlled thermal behavior of a conjugated gadolinia-doped ceria nanoparticles synthesized by particle-dispersed glycine-nitrate process. Journal of the European Ceramic Society, 2017, 37, 2159-2168. | 5.7 | 4 |
| 115 | Microstructural Characterization of Composite Electrode Materials in Solid Oxide Fuel Cells via Image Processing Analysis. Journal of the Korean Ceramic Society, 2010, 47, 86-91. | 2.3 | 4 |
| 116 | Fabrication of NiO-Y:BaZrO<sub>3</sub> Composite Anode for Thin Film-Protonic Ceramic Fuel Cells using Tape-Casting. Journal of the Korean Ceramic Society, 2015, 52, 320-324. | 2.3 | 4 |
| 117 | Enhanced carbon tolerance of Ir alloyed Ni-Based metal for methane partial oxidation. Heliyon, 2018, 4, e00652. | 3.2 | 3 |
| 118 | Synthesis and investigation on stability and electrical conductivity of Ti-doped Ba3CaTa2-xTixO9 (0â€‰â‰€â€‰xâ€‰â‰€â€‰1.0) complex oxides. Journal of Alloys and Compounds, 2019, 775, 736-741. | 5.5 | 3 |
| 119 | Electrical Characterization of Ultrathin Film Electrolytes for Micro-SOFCs. Journal of the Korean Ceramic Society, 2012, 49, 404-411. | 2.3 | 3 |
| 120 | Microscopic Analysis of High Lithium-Ion Conducting Glass-Ceramic Sulfides. Journal of the Korean Ceramic Society, 2016, 53, 568-573. | 2.3 | 3 |
| 121 | Influence of wet atmosphere on electrical and transport properties of lanthanum strontium cobalt ferrite cathode materials for protonic ceramic fuel cells. Solid State Ionics, 2013, 249-250, 112-116. | 2.7 | 2 |
| 122 | Effects of mixing state of composite powders on sintering behavior of cathode for solid oxide fuel cells. Ceramics International, 2017, 43, 11642-11647. | 4.8 | 2 |
| 123 | Theoretical analysis of reversible phase evolution in Li-ion conductive halides. Applied Surface Science, 2022, 574, 151621. | 6.1 | 2 |
| 124 | Performance of Solid Oxide Fuel Cell with Gradient-structured Thin-film Cathode Composed of Pulsed-laser-deposited Lanthanum Strontium Manganite-Yttria-stabilized Zirconia Composite. Journal of the Korean Ceramic Society, 2011, 48, 487-492. | 2.3 | 2 |
| 125 | Experimental and computational analyses of ionic current leakage on the co-planar integrated fuel cells. Solid State Ionics, 2009, 180, 1534-1538. | 2.7 | 1 |
| 126 | Facile fabrication of YSZ/GDC multi-layers by using a split target in pulsed laser deposition and their structural and electrical properties. Journal of Electroceramics, 2014, 33, 25-30. | 2.0 | 1 |

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|---|---|---|---|
| 127 | Suppressing Lateral Conduction Loss of Thin-film Cathode by Inserting a Denser Bridging Layer. Journal of the Korean Ceramic Society, 2015, 52, 304-307. | 2.3 | 1 |
| 128 | Exploration of a Ce<sub>0.65</sub>Zr<sub>0.25</sub>Pr<sub>0.1</sub>O<sub>2â˜Î´</sub>-Based Electrocatalyst That Exhibits Rapid Performance Deterioration Despite Its High Oxygen Storage Capability. ACS Applied Energy Materials, 0, , . | 5.1 | 1 |
| 129 | Effects of Yb-Concentration on the Proton Conductivities of Low Temperature Sinterable Barium Zirconate Ceramics. Resources Processing, 2010, 57, 8-11. | 0.4 | 0 |
| 130 | Microstructure refinement of pulsed laser deposited La0.6Sr0.4CoO3â˜Î´ thin-film cathodes for solid oxide fuel cell. Metals and Materials International, 2013, 19, 1347-1349. | 3.4 | 0 |
| 131 | Effect of alumina nanofiller on the viscosity and electrical conductivity of glass-based seals for solid oxide fuel cells. Research on Chemical Intermediates, 2014, 40, 2423-2429. | 2.7 | 0 |
| 132 | Correlation between Fabrication and Operation Conditions for Ce<sub>1-X</sub>Zr<sub>x</sub>O<sub>2-Ïƒ</sub>(x~0.2) Stability. ECS Meeting Abstracts, 2020, MA2020-02, 2593-2593. | 0.0 | 0 |