# Duncan P Fagg

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 153 papers | 3,727 citations | 117571<br>34 h-index | 182361<br>51 g-index |
| 153 all docs | 153 docs citations | 153 times ranked | 2796 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Synthesis and electrical characterisation of doped perovskite titanates as potential anode materials for solid oxide fuel cells. Journal of Materials Chemistry, 1997, 7, 2495-2498. | 6.7 | 157 |
| 2 | The effect of cobalt oxide sintering aid on electronic transport in Ce0.80Gd0.20O2â^'Î´ electrolyte. Electrochimica Acta, 2003, 48, 1023-1029. | 2.6 | 112 |
| 3 | The stability and mixed conductivity in La and Fe doped SrTiO3 in the search for potential SOFC anode materials. Journal of the European Ceramic Society, 2001, 21, 1831-1835. | 2.8 | 111 |
| 4 | A review on sintering technology of proton conducting BaCeO3-BaZrO3 perovskite oxide materials for Protonic Ceramic Fuel Cells. Journal of Power Sources, 2019, 438, 226991. | 4.0 | 100 |
| 5 | Towards a high thermoelectric performance in rare-earth substituted SrTiO<sub>3</sub>: effects provided by strongly-reducing sintering conditions. Physical Chemistry Chemical Physics, 2014, 16, 26946-26954. | 1.3 | 96 |
| 6 | Impedance analysis of 0.5Ba(Zr0.2Ti0.8)O3â€"0.5(Ba0.7Ca0.3)TiO3 ceramics consolidated from micro-granules. Ceramics International, 2014, 40, 10593-10600. | 2.3 | 92 |
| 7 | Evolution of reduced Ti containing phase(s) in MgH 2 /TiO 2 system and its effect on the hydrogen storage behavior of MgH 2. Journal of Power Sources, 2017, 362, 174-183. | 4.0 | 83 |
| 8 | Title is missing!. , 2002, 9, 199-207. | | 82 |
| 9 | Stability and mixed ionicâ€"electronic conductivity of (Sr,La)(Ti,Fe)O3â^'Î´ perovskites. Solid State Ionics, 2003, 156, 45-57. | 1.3 | 81 |
| 10 | Designing strontium titanate-based thermoelectrics: insight into defect chemistry mechanisms. Journal of Materials Chemistry A, 2017, 5, 3909-3922. | 5.2 | 81 |
| 11 | Fabrication and electrochemical performance of a stable, anode supported thin BaCe0.4Zr0.4Y0.2O3-Î´ electrolyte Protonic Ceramic Fuel Cell. Journal of Power Sources, 2015, 278, 582-589. | 4.0 | 73 |
| 12 | Boosting Thermoelectric Performance by Controlled Defect Chemistry Engineering in Ta-Substituted Strontium Titanate. Chemistry of Materials, 2015, 27, 4995-5006. | 3.2 | 67 |
| 13 | Structure, densification and electrical properties of Gd3+ and Cu2+ co-doped ceria solid electrolytes for SOFC applications: Effects of Gd2O3 content. Ceramics International, 2018, 44, 2745-2751. | 2.3 | 65 |
| 14 | Effects of firing conditions and addition of Co on bulk and grain boundary properties of CGO. Solid State Ionics, 2005, 176, 2799-2805. | 1.3 | 59 |
| 15 | Phase Relations at 1500Â°C in the Ternary System ZrO2â€"Y2O3â€"TiO2. Journal of Solid State Chemistry, 1999, 143, 273-276. | 1.4 | 57 |
| 16 | Oxygen permeability, thermal expansion and mixed conductivity of GdxCe0.8â^'xPr0.2O2â^'Î´, x=0, 0.15, 0.2. Journal of Solid State Chemistry, 2006, 179, 3347-3356. | 1.4 | 57 |
| 17 | Synthesis and conductivity of Ba(Ce,Zr,Y)O3â^'Î´ electrolytes forÂPCFCs by new nitrate-free combustion method. International Journal of Hydrogen Energy, 2013, 38, 8461-8470. | 3.8 | 55 |
| 18 | Transport-number determination of a protonic ceramic electrolyte membrane via electrode-polarisation correction with the Gorelov method. Journal of Power Sources, 2014, 245, 445-455. | 4.0 | 53 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | High oxygen permeability in fluorite-type Ce0.8Pr0.2O2âˆ’Î´ via the use of sintering aids. Journal of Membrane Science, 2007, 299, 1-7. | 4.1 | 51 |
| 20 | Ionic and electronic conductivity of Yb2+xTi2âˆ’xO7âˆ’x/2 materials. Solid State Ionics, 2006, 177, 1785-1788. | 1.3 | 49 |
| 21 | Role of chemical interaction between MgH 2 and TiO 2 additive on the hydrogen storage behavior of MgH 2. Applied Surface Science, 2017, 420, 740-745. | 3.1 | 49 |
| 22 | Cathodic polarisation of composite LSCF-SDC IT-SOFC electrode synthesised by one-step microwave self-assisted combustion. Journal of the European Ceramic Society, 2019, 39, 1846-1853. | 2.8 | 48 |
| 23 | Synthesis and characterisation of Niâ€"SrCe0.9Yb0.1O3âˆ’Î´ cermet anodes for protonic ceramic fuel cells. Solid State Ionics, 2003, 158, 333-342. | 1.3 | 44 |
| 24 | Solution blow spun nickel oxide/carbon nanocomposite hollow fibres as an efficient oxygen evolution reaction electrocatalyst. International Journal of Hydrogen Energy, 2019, 44, 14877-14888. | 3.8 | 44 |
| 25 | The importance of phase purity in Niâ€"BaZr<sub>0.85</sub>Y<sub>0.15</sub>O<sub>3âˆ’Î´</sub>cermet anodes â€" novel nitrate-free combustion route and electrochemical study. RSC Advances, 2013, 3, 859-869. | 1.7 | 43 |
| 26 | Enhanced Low-Temperature Proton Conduction in Sr<sub>0.02</sub>La<sub>0.98</sub>NbO<sub>4âˆ’Î´</sub> by Scheelite Phase Retention. Chemistry of Materials, 2010, 22, 6673-6683. | 3.2 | 42 |
| 27 | Hydrogen storage characteristics of magnesium impregnated on the porous channels of activated charcoal scaffold. International Journal of Hydrogen Energy, 2014, 39, 20045-20053. | 3.8 | 41 |
| 28 | B-site substitutions in LaNb1âˆ’xMxO4âˆ’Î´ materials in the search for potential proton conductors (M=Ga,) Tj ETQq0 0 0 rgBT /Overlock | 1.4 | 40 |
| 29 | Electrical characterization of highly Titania doped YSZ. Ionics, 1998, 4, 215-219. | 1.2 | 39 |
| 30 | Modulated Fluorite-Type Structure of Materials from the (1âˆ’x)Y0.5Zr0.5O1.75âˆ’xY0.75Nb0.25O1.75(0 â‰¤xâ‰¤) Tj ETQq0 0 0 rgBT /C | 3.2 | 39 |
| 31 | Development of novel anodes for solid oxide fuel cells. Catalysis Today, 1997, 38, 467-472. | 2.2 | 38 |
| 32 | Mechanosynthesis of nanopowders of the proton-conducting electrolyte material Ba(Zr, Y)O3âˆ’Î´. Journal of Solid State Chemistry, 2009, 182, 2149-2156. | 1.4 | 35 |
| 33 | Transport Properties of Fluorite-Type Ce<sub>0.8</sub>Pr<sub>0.2</sub>O<sub>2âˆ’Î´</sub>: Optimization via the Use of Cobalt Oxide Sintering Aid. Chemistry of Materials, 2009, 21, 381-391. | 3.2 | 35 |
| 34 | Design of SrTiO<sub>3</sub>-Based Thermoelectrics by Tungsten Substitution. Journal of Physical Chemistry C, 2015, 119, 4466-4478. | 1.5 | 35 |
| 35 | Mixed conductivity, thermal expansion, and oxygen permeability of Ce(Pr,Zr)O. Solid State Ionics, 2005, 176, 1723-1730. | 1.3 | 34 |
| 36 | The defect chemistry of Ce(Pr, Zr)O2âˆ’Î´. Journal of Solid State Chemistry, 2006, 179, 1469-1477. | 1.4 | 33 |

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|---|---|---|---|
| 37 | Electrochemical behaviour and degradation of (Ni,M)/YSZ cermet electrodes (M=Co,Cu,Fe) for high temperature applications of solid electrolytes. Journal of the European Ceramic Society, 2004, 24, 1355-1358. | 2.8 | 32 |
| 38 | The impact of porosity, pH 2 and pH 2 O on the polarisation resistance of Niâ€“BaZr 0.85 Y 0.15 O 3âˆ'Î´ cermet anodes for Protonic Ceramic Fuel Cells (PCFCs). International Journal of Hydrogen Energy, 2014, 39, 21231-21241. | 3.8 | 32 |
| 39 | Pr<sub>2</sub>O<sub>2</sub>SO<sub>4</sub>â€“La<sub>0.6</sub>Sr<sub>0.4</sub>Co<sub>0.2</sub>Fe<sub>0.8</sub>O<sub a new category of composite cathode for intermediate temperature-solid oxide fuel cells. Journal of Materials Chemistry A, 2015, 3, 12636-12641. | 5.2 | 32 |
| 40 | Formation of Mgâ€“Nbâ€“O rock salt structures in a series of mechanochemically activated MgH2Â+ÂnNb2O5 (nÂ=Â0.083â€“1.50) mixtures. International Journal of Hydrogen Energy, 2016, 41, 2677-2688. | 3.8 | 31 |
| 41 | Understanding the cathodic polarisation behaviour of the misfit [Ca2CoO3âˆ'Î´]q[CoO2] (C349) as oxygen electrode for IT-SOFC. Electrochimica Acta, 2018, 285, 214-220. | 2.6 | 31 |
| 42 | Transport in ceria electrolytes modified with sintering aids: effects on oxygen reduction kinetics. Journal of Solid State Electrochemistry, 2004, 8, 618. | 1.2 | 30 |
| 43 | Conductivity recovery by redox cycling of yttrium doped barium zirconate proton conductors and exsolution of Ni-based sintering additives. Journal of Power Sources, 2017, 339, 93-102. | 4.0 | 30 |
| 44 | Structural studies on the optimisation of fast oxide ion transport. Solid State Ionics, 2000, 136-137, 879-885. | 1.3 | 29 |
| 45 | Chemically transformed additive phases in Mg2TiO4 and MgTiO3 loaded hydrogen storage system MgH2. Applied Surface Science, 2019, 472, 99-104. | 3.1 | 29 |
| 46 | Exploring the impact of sintering additives on the densification and conductivity of BaCe0.3Zr0.55Y0.15O3-Î´ electrolyte for protonic ceramic fuel cells. Journal of Alloys and Compounds, 2021, 862, 158640. | 2.8 | 29 |
| 47 | Formation of Mg<sub>x</sub>Nb<sub>y</sub>O<sub>x+y</sub> through the Mechanochemical Reaction of MgH<sub>2</sub> and Nb<sub>2</sub>O<sub>5</sub>, and Its Effect on the Hydrogenâ€Storage Behavior of MgH<sub>2</sub>. ChemPhysChem, 2016, 17, 178-183. | 1.0 | 28 |
| 48 | Nonwoven Niâ€“NiO/carbon fibers for electrochemical water oxidation. International Journal of Hydrogen Energy, 2021, 46, 3798-3810. | 3.8 | 28 |
| 49 | Electrochemical behaviour of Ni-BZO and Ni-BZY cermet anodes for Protonic Ceramic Fuel Cells (PCFCs) â€“ A comparative study. Electrochimica Acta, 2015, 154, 387-396. | 2.6 | 26 |
| 50 | Crystal structure, phase stoichiometry and chemical environment of MgxNbyOx+y nanoparticles and their impact on hydrogen storage in MgH2. International Journal of Hydrogen Energy, 2016, 41, 11709-11715. | 3.8 | 26 |
| 51 | Proton conductivity in yttrium-doped barium cerate under nominally dry reducing conditions for application in chemical synthesis. Journal of Materials Chemistry A, 2019, 7, 18135-18142. | 5.2 | 25 |
| 52 | Modeling of electrical conductivity in the proton conductor Ba0.85K0.15ZrO3âˆ'Î´. Electrochimica Acta, 2015, 165, 443-449. | 2.6 | 24 |
| 53 | A comprehensive review of NOx and N2O mitigation from industrial streams. Renewable and Sustainable Energy Reviews, 2022, 155, 111916. | 8.2 | 24 |
| 54 | Electrochemical assessment of Ca3Co4O9 nanofibres obtained by Solution Blow Spinning. Materials Letters, 2018, 221, 81-84. | 1.3 | 23 |

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|---|---|---|---|
| 55 | Transformation of Metallic Ti to TiH<sub>2</sub> Phase in the Ti/MgH<sub>2</sub> Composite and Its Influence on the Hydrogen Storage Behavior of MgH<sub>2</sub>. ChemPhysChem, 2020, 21, 1195-1201. | 1.0 | 23 |
| 56 | Chemical transformation of additive phase in MgH2/CeO2 hydrogen storage system and its effect on catalytic performance. Applied Surface Science, 2021, 561, 150062. | 3.1 | 23 |
| 57 | Boosting the oxygen reduction reaction of the misfit [Ca2CoO3-Î´]q[CoO2] (C349) by the addition of praseodymium oxide. Journal of Alloys and Compounds, 2019, 788, 148-154. | 2.8 | 22 |
| 58 | Nickel-copper based anodes for solid oxide fuel cells running on hydrogen and biogas: Study using ceria-based electrolytes with electronic short-circuiting correction. Journal of Power Sources, 2019, 438, 227041. | 4.0 | 21 |
| 59 | Evidence of three types of short range ordered fluorite structure in the (1â€‰â€“â€‰x)â€‰Y0.15Zr0.85O1.93â€“xâ€‰Y0.75Nb0.25O1.75(0 â‰xâ‰ 1) system. Journal of Materials Chemistry, 2005, 15, | 6.7 | 29 |
| 60 | Reduced magnesium titanate electrodes for solid oxide fuel cells. Solid State Ionics, 1994, 72, 235-239. | 1.3 | 19 |
| 61 | Redox behavior and transport properties of La0.5â^'xSr0.5â^'xFe0.4Ti0.6O3â^'Î´ (0<x<0.1) validated by MÃ¶ssbauer spectroscopy. Solid State Ionics, 2002, 146, 87-93. | 1.3 | 19 |
| 62 | Cobalt-free perovskite Pr0.5Sr0.5Fe1â^'xCuxO3â^'Î´ (PSFC) as a cathode material for intermediate temperature solid oxide fuel cells. Materials Chemistry and Physics, 2016, 180, 256-262. | 2.0 | 19 |
| 63 | Electrochemical assessment of novel misfit Ca-cobaltite-based composite SOFC cathodes synthesized by solution blow spinning. Journal of the European Ceramic Society, 2018, 38, 2562-2569. | 2.8 | 19 |
| 64 | Polarisation mechanism of the misfit Ca-cobaltite electrode for reversible solid oxide cells. Electrochimica Acta, 2021, 373, 137928. | 2.6 | 19 |
| 65 | Stability of Ba(Zr,Pr,Y)O3â^'Î´ materials for potential application in electrochemical devices. Journal of Solid State Chemistry, 2010, 183, 2826-2834. | 1.4 | 18 |
| 66 | Electrical properties and thermal expansion of strontium aluminates. Journal of Alloys and Compounds, 2014, 613, 232-237. | 2.8 | 18 |
| 67 | Effect of the addition mechanism of ZnO sintering aid on densification, microstructure and electrical properties of Ba(Zr,Y)O3-Î´ proton-conducting perovskite. International Journal of Hydrogen Energy, 2021, 46, 26466-26477. | 3.8 | 18 |
| 68 | Composite of calcium cobaltite with praseodymium-doped ceria: A promising new oxygen electrode for solid oxide cells. International Journal of Hydrogen Energy, 2021, 46, 28258-28269. | 3.8 | 18 |
| 69 | Active catalytic species generated in situ in zirconia incorporated hydrogen storage material magnesium hydride. Journal of Magnesium and Alloys, 2022, 10, 786-796. | 5.5 | 18 |
| 70 | Spinel ferrite MFe2O4 (MÂ=ÂNi, Co, or Cu) nanoparticles prepared by a proteic sol-gel route for oxygen evolution reaction. Advanced Powder Technology, 2022, 33, 103391. | 2.0 | 17 |
| 71 | Cu-Ce0.8Gd0.2O2â^'Î´ materials as SOFC electrolyte and anode. Ionics, 2003, 9, 214-219. | 1.2 | 16 |
| 72 | Characterization of Diffuse Scattering in Yttria-Stabilized Zirconia by Electron Diffraction and High-Resolution Transmission Electron Microscopy. Chemistry of Materials, 2008, 20, 5933-5938. | 3.2 | 16 |

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|---|---|---|---|
| 73 | Guidelines for improving resistance to CO2 of materials for solid state electrochemical systems. Solid State Ionics, 2011, 192, 16-20. | 1.3 | 16 |
| 74 | Dehydrogenation Properties of Magnesium Hydride Loaded with Fe, Feâˆ’C, and Feâˆ’Mg Additives. ChemPhysChem, 2017, 18, 287-291. | 1.0 | 16 |
| 75 | In-situ redox cycling behaviour of Niâ€“BaZr0.85Y0.15O3âˆ’Î´ cermet anodes for Protonic Ceramic Fuel Cells. International Journal of Hydrogen Energy, 2014, 39, 19780-19788. | 3.8 | 15 |
| 76 | Synthesis of catalytically active rock salt structured Mg x Nb 1âˆ’x O nanoparticles for MgH 2 system. International Journal of Hydrogen Energy, 2014, 39, 18984-18988. | 3.8 | 15 |
| 77 | Structural and defect chemistry guidelines for Sr(V,Nb)O3-based SOFC anode materials. Physical Chemistry Chemical Physics, 2015, 17, 10749-10758. | 1.3 | 15 |
| 78 | Two step mechanochemical synthesis of Nb doped MgO rock salt nanoparticles and its application for hydrogen storage in MgH2. International Journal of Hydrogen Energy, 2016, 41, 11716-11722. | 3.8 | 15 |
| 79 | DFRTtoEIS: An easy approach to verify the consistency of a DFRT generated from an impedance spectrum. Electrochimica Acta, 2021, 366, 137429. | 2.6 | 15 |
| 80 | Effect of humidification on the grain boundary conductivity and space-charge effects in yttrium-doped barium cerate. International Journal of Hydrogen Energy, 2021, 46, 23828-23838. | 3.8 | 15 |
| 81 | Oxide ion transport in highly defective cubic stabilized zirconias. Ionics, 1995, 1, 279-285. | 1.2 | 14 |
| 82 | Effect of phosphorus additions on the sintering and transport properties of proton conducting BaZr0.85Y0.15O3âˆ’Î´. Journal of Solid State Chemistry, 2012, 191, 27-32. | 1.4 | 14 |
| 83 | Methodology for the study of mixed transport properties of a Zn-doped SrZr<sub>0.9</sub>Y<sub>0.1</sub>O<sub>3âˆ’Î´</sub> electrolyte under reducing conditions. Journal of Materials Chemistry A, 2015, 3, 11098-11110. | 5.2 | 14 |
| 84 | Increased performance by use of a mixed conducting buffer layer, terbia-doped ceria, for Nd2NiO4+Î´ SOFC/SOEC oxygen electrodes. International Journal of Hydrogen Energy, 2019, 44, 31466-31474. | 3.8 | 14 |
| 85 | Creating new surface-exchange pathways on the misfit Ca-cobaltite electrode by the addition of an active interlayer. Journal of Power Sources, 2021, 510, 230417. | 4.0 | 14 |
| 86 | One step high pressure mechanochemical synthesis of reversible alanates NaAlH4 and KAlH4. International Journal of Hydrogen Energy, 2015, 40, 4916-4924. | 3.8 | 13 |
| 87 | Enhancing electrochemical performance by control of transport properties in buffer layers â€“ solid oxide fuel/electrolyser cells. Physical Chemistry Chemical Physics, 2015, 17, 11527-11539. | 1.3 | 13 |
| 88 | Oxygen permeability of mixed-conducting Ce0.8Tb0.2O2âˆ’ membranes: Effects of ceramic microstructure and sintering temperature. Journal of Membrane Science, 2015, 475, 414-424. | 4.1 | 13 |
| 89 | Thermal evolution of structures and conductivity of Pr-substituted BaZr<sub>0.7</sub>Ce<sub>0.2</sub>Y<sub>0.1</sub>O<sub>3âˆ’Î´</sub>: potential cathode components for protonic ceramic fuel cells. Journal of Materials Chemistry A, 2018, 6, 5324-5334. | 5.2 | 13 |
| 90 | Underscoring the transport properties of yttrium-doped barium cerate in nominally dry oxidising conditions. Electrochimica Acta, 2020, 334, 135625. | 2.6 | 13 |

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|---|---|---|---|
| 91 | La4Ni3O10Â±Î´ â€“ BaCe0.9Y0.1O3-Î´ cathodes for proton ceramic fuel cells; short-circuiting analysis using BaCe0.9Y0.1O3-Î´ symmetric cells. International Journal of Hydrogen Energy, 2021, 46, 13594-13605. | 3.8 | 13 |
| 92 | Analysis of La4Ni3O10Â±Î´-BaCe0.9Y0.1O3-Î´ Composite Cathodes for Proton Ceramic Fuel Cells. Applied Sciences (Switzerland), 2021, 11, 3407. | 1.3 | 13 |
| 93 | Ceria based mixed conductors with adjusted electronic conductivity in the bulk and/or along grain boundaries. Solid State Ionics, 2009, 180, 896-899. | 1.3 | 12 |
| 94 | Enhanced BaZrO<sub>3</sub> mechanosynthesis by the use of metastable ZrO<sub>2</sub> precursors. Dalton Transactions, 2014, 43, 9324-9333. | 1.6 | 12 |
| 95 | Preparation of one-step NiO/Ni-CGO composites using factorial design. Ceramics International, 2016, 42, 18166-18172. | 2.3 | 12 |
| 96 | Proteic solâ€“gel synthesis of Gd-doped ceria: a comprehensive structural, chemical, microstructural and electrical analysis. Journal of Materials Science, 2020, 55, 16864-16878. | 1.7 | 12 |
| 97 | Mechanochemical processing of BaZr1â^'YyO3â^' (yÂ=Â0.15, 0.20) protonic ceramic electrolytes: Phase purity, microstructure, electrical properties and comparison with other preparation routes. International Journal of Hydrogen Energy, 2021, 46, 13606-13621. | 3.8 | 12 |
| 98 | The systems Zr(Nb,Ti)(R)O2â^'Î´, R=Yb, Caâ€"optimization of mixed conductivity and comparison with results of other systems (R=Y and Gd). Journal of Solid State Chemistry, 2003, 172, 277-287. | 1.4 | 11 |
| 99 | Effects of firing schedule on solubility limits and transport properties of ZrO2â€“TiO2â€“Y2O3 fluorites. Journal of Solid State Chemistry, 2007, 180, 2371-2376. | 1.4 | 11 |
| 100 | Impedance analysis of Sr-substituted CePO4 with mixed protonic and p-type electronic conduction. Ceramics International, 2009, 35, 1481-1486. | 2.3 | 11 |
| 101 | Thermodynamic restrictions on mechanosynthesis of strontium titanate. Journal of Solid State Chemistry, 2012, 185, 143-149. | 1.4 | 11 |
| 102 | Mixed ionic-electronic conductivity and thermochemical expansion of Ca and Mo co-substituted pyrochlore-type Gd<sub>2</sub>Ti<sub>2</sub>O<sub>7</sub>. RSC Advances, 2016, 6, 70186-70196. | 1.7 | 11 |
| 103 | Electrochemical assessment of one-step Cu-CGO cermets under hydrogen and biogas fuels. Materials Letters, 2017, 191, 141-144. | 1.3 | 11 |
| 104 | Synthesis of Coâ€“Ni and Cuâ€“Ni based-catalysts for dry reforming of methane as potential components for SOFC anodes. Ceramics International, 2021, 47, 33191-33201. | 2.3 | 11 |
| 105 | The optimisation of mixed conduction in potential S.O.F.C. anode materials. Ionics, 1998, 4, 61-71. | 1.2 | 10 |
| 106 | Mechanochemical preparation, sintering aids and hybrid microwave sintering in the proton conductor Sr0.02La0.98Nb1-xVxO4-Î´, xÂ=Â0, 0.15. International Journal of Hydrogen Energy, 2012, 37, 7252-7261. | 3.8 | 9 |
| 107 | Site Redistribution, Partial Frozen-in Defect Chemistry, and Electrical Properties of Ba1â€“x(Zr,Pr)O3â^'Î´. Inorganic Chemistry, 2016, 55, 8552-8563. | 1.9 | 9 |
| 108 | Exploring the mixed transport properties of sulfur(<scp>vi</scp>)-doped Ba<sub>2</sub>In<sub>2</sub>O<sub>5</sub> for intermediate-temperature electrochemical applications. Journal of Materials Chemistry A, 2016, 4, 11069-11076. | 5.2 | 9 |

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|---|---|---|---|
| 109 | Structure and Electrical-Transport Relations in Ba(Zr,Pr)O<sub>3âˆ’Î´</sub> Perovskites. Inorganic Chemistry, 2017, 56, 9120-9131. | 1.9 | 9 |
| 110 | Tailoring the anion stoichiometry and oxidation kinetics of vanadium (oxy)nitride by the control of ammonolysis conditions. Journal of Materials Chemistry C, 2022, 10, 5608-5620. | 2.7 | 9 |
| 111 | Non-aqueous stabilized suspensions of BaZr0.85Y0.15O3âˆ’Î´ proton conducting electrolyte powders for thin film preparation. Journal of the European Ceramic Society, 2013, 33, 1833-1840. | 2.8 | 8 |
| 112 | Structural and electrical properties of strontium substituted Y2BaNiO5. Journal of Alloys and Compounds, 2015, 620, 91-96. | 2.8 | 8 |
| 113 | Interaction of zirconia with magnesium hydride and its influence on the hydrogen storage behavior of magnesium hydride. International Journal of Hydrogen Energy, 2022, 47, 21760-21771. | 3.8 | 8 |
| 114 | Effects of composition and frozen-in conditions on bulk and grain boundary conductivities of Yb2Ti2O7-based materials. Solid State Ionics, 2009, 180, 774-777. | 1.3 | 7 |
| 115 | Ni-YSZ cermets for solid oxide fuel cell anodes via two-step firing. International Journal of Hydrogen Energy, 2014, 39, 15046-15056. | 3.8 | 7 |
| 116 | Processing and characterisation of BaZr<sub>0.8</sub>Y<sub>0.2</sub>O<sub>3âˆ’<i>Î´</i></sub> proton conductor densified at 1200 Â°C. Journal of Materials Chemistry A, 2022, 10, 4428-4439. | 5.2 | 7 |
| 117 | Effects of Fe-additions on sintering and transport properties of Yb2Ti2âˆ’yFeyO7âˆ’Î´. Journal of the European Ceramic Society, 2007, 27, 4283-4286. | 2.8 | 6 |
| 118 | Simulation studies and safety analysis of high pressure milling vials for the direct synthesis ofÂhigh capacity metal hydrides. International Journal of Hydrogen Energy, 2015, 40, 5006-5012. | 3.8 | 6 |
| 119 | Silverâ€“praseodymium oxy-sulfate cermet: A new composite cathode for intermediate temperature solid oxide fuel cells. Journal of Power Sources, 2016, 306, 611-616. | 4.0 | 6 |
| 120 | Exploring the Thermoelectric Performance of BaGd<sub>2</sub>NiO<sub>5</sub> Haldane Gap Materials. Inorganic Chemistry, 2017, 56, 2354-2362. | 1.9 | 6 |
| 121 | Structures, Phase Fields, and Mixed Protonicâ€“Electronic Conductivity of Ba-Deficient, Pr-Substituted BaZr0.7Ce0.2Y0.1O3âˆ’Î´. Inorganic Chemistry, 2018, 57, 15023-15033. | 1.9 | 6 |
| 122 | Fe-doped calcium cobaltites as electrocatalysts for oxygen evolution reaction. Ceramics International, 2021, 47, 26109-26118. | 2.3 | 6 |
| 123 | A high-performance oxygen electrode for solid oxide cells: Compositional optimisation of barium cobaltite-based composites. Journal of Alloys and Compounds, 2022, 906, 164382. | 2.8 | 6 |
| 124 | Fe0.5Co0.5-Co1.15Fe1.15O4/carbon composite nanofibers prepared by solution blow spinning: Structure, morphology, MÃ¶ssbauer spectroscopy, and application as catalysts for electrochemical water oxidation. International Journal of Hydrogen Energy, 2022, 47, 25266-25279. | 3.8 | 6 |
| 125 | Toward improved chemical stability of yttriumâ€doped barium cerate by the introduction of nickel oxide. Journal of the American Ceramic Society, 2022, 105, 6271-6283. | 1.9 | 6 |
| 126 | Elucidating Evidence for the In Situ Reduction of Graphene Oxide by Magnesium Hydride and the Consequence of Reduction on Hydrogen Storage. Catalysts, 2022, 12, 735. | 1.6 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Effects of Yb:Ti ratio on transport properties of Yb2Â±xTi2Â±xO7Â±Î´. Solid State Ionics, 2008, 179, 1046-1049. | 1.3 | 5 |
| 128 | Comparative study of fluorite-type ceria-based Ce1â^'x Ln x O2â^'Î´ (LnÂ=ÂTb, Gd, and Pr) mixed ionic electronic conductors densified at low temperatures. Journal of Materials Science, 2016, 51, 10293-10300. | 1.7 | 5 |
| 129 | Unique dielectric features of a ceramic-semiconductor nanocomposite MgNb2O6+ 0.25Zn0.5Cd0.5S. Applied Surface Science, 2017, 424, 127-131. | 3.1 | 5 |
| 130 | Solid solution limits and electrical properties of scheelite SryLa1-yNb1-xVxO4-Î´ materials for x = 0.25 and 0.30 as potential proton conducting ceramic electrolytes. International Journal of Hydrogen Energy, 2018, 43, 18682-18690. | 3.8 | 5 |
| 131 | Electrochemical behaviour of magnesium hydride-added titania anode for Li-ion battery. Electrochimica Acta, 2021, 394, 139142. | 2.6 | 5 |
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