R T Baker

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Structural, morphological and electrical properties of Gd0.1Ce0.9O1.95 prepared by a citrate complexation method. Journal of Power Sources, 2009, 186, 268-277. | 4.0 | 90 |
| 2 | Preparation and property–performance relationships in samarium-doped ceria nanopowders for solid oxide fuel cell electrolytes. Journal of Power Sources, 2011, 196, 2498-2512. | 4.0 | 87 |
| 3 | Factors affecting the preparation of ordered mesoporous ZrO2 using the replica method. Journal of Materials Chemistry, 2008, 18, 5200. | 6.7 | 61 |
| 4 | Synthesis of Nanocrystalline CeO ₂ â^'ZrO ₂ Solid Solutions by a Citrate Complexation Route: A Thermochemical and Structural Study. Journal of Physical Chemistry C, 2009, 113, 914-924. | 1.5 | 56 |
| 5 | Efficient batch and Fixed-Bed sequestration of a basic dye using a novel variant of ordered mesoporous carbon as adsorbent. Arabian Journal of Chemistry, 2021, 14, 103186. | 2.3 | 46 |
| 6 | Ionic conductivity in multiply substituted ceria-based electrolytes. Solid State Ionics, 2018, 316, 9-19. | 1.3 | 37 |
| 7 | Batch and bulk adsorptive removal of anionic dye using metal/halide-free ordered mesoporous carbon as adsorbent. Journal of Cleaner Production, 2021, 321, 129060. | 4.6 | 35 |
| 8 | The enhancement effect of lithium ions on actuation performance ofÂionic liquid-based IPMC soft actuators. Polymer, 2015, 76, 140-149. | 1.8 | 31 |
| 9 | Visualisation of single atom dynamics in water gas shift reaction for hydrogen generation. Catalysis Science and Technology, 2016, 6, 2214-2227. | 2.1 | 31 |
| 10 | Acetylene hydrogenation over structured Au–Pd catalysts. Faraday Discussions, 2016, 188, 499-523. | 1.6 | 30 |
| 11 | Nanoparticulate ceria–zirconia anode materials for intermediate temperature solid oxide fuel cells using hydrocarbon fuels. Journal of Materials Chemistry, 2010, 20, 9760. | 6.7 | 27 |
| 12 | Redox properties of nanostructured lanthanide-doped ceria spheres prepared by microwave assisted hydrothermal homogeneous co-precipitation. Nanoscale, 2015, 7, 271-281. | 2.8 | 27 |
| 13 | Magnetic resonance imaging study of a soft actuator element during operation. Soft Matter, 2008, 4, 1879. | 1.2 | 25 |
| 14 | Electromechanical behaviour of Nafion-based soft actuators. Journal of Materials Chemistry B, 2013, 1, 2502. | 2.9 | 23 |
| 15 | Steam Reforming of Methanol with Sm ₂ O ₃ â^'CeO ₂ -Supported Palladium Catalysts: Influence of the Thermal Treatments of Catalyst and Support. Industrial & Engineering Chemistry Research, 2009, 48, 8364-8372. | 1.8 | 18 |
| 16 | Deformation of Ordered Mesoporous Silica Structures on Exposure to High Temperatures. Journal of Nanomaterials, 2014, 2014, 1-13. | 1.5 | 18 |
| 17 | Oxygen ion conductivity in ceria-based electrolytes co-doped with samarium and gadolinium. Solid State Ionics, 2020, 347, 115255. | 1.3 | 18 |
| 18 | In situ magnetic resonance imaging of electrically-induced water diffusion in a Nafion ionic polymer filmElectronic supplementary information (ESI) available: structure of Na-exchanged Nafion and schematic description of actuation mechanism of an electro-active polymer actuator device. See http://www.rsc.org/suppdata/cc/b3/b301039b/. Chemical Communications, 2003, , 962-963. | 2.2 | 16 |

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| 19 | Time-Resolved Mapping of Water Diffusion Coefficients in a Working Soft Actuator Device. Journal of Physical Chemistry B, 2008, 112, 9761-9768. | 1.2 | 15 |
| 20 | Reduction and catalytic behaviour of nanostructured Pd/gadolinia-doped ceria catalysts for methane combustion. Applied Catalysis B: Environmental, 2013, 136-137, 122-132. | 10.8 | 14 |
| 21 | Physicochemical properties of nanostructured Pd/lanthanide-doped ceria spheres with high catalytic activity for CH ₄ combustion. Journal of Materials Chemistry A, 2018, 6, 7488-7499. | 5.2 | 14 |
| 22 | Preparation and characterisation of nanostructured gadolinia-doped ceria tubes. Journal of Materials Chemistry, 2008, 18, 5689. | 6.7 | 13 |
| 23 | Nanostructured terbium-doped ceria spheres: effect of dopants on their physical and chemical properties under reducing and oxidizing conditions. Journal of Materials Chemistry A, 2015, 3, 16120-16131. | 5.2 | 11 |
| 24 | Pretreatment-Induced Nanostructural Evolution in CeO2-, Sm2O3-, and CeO2/Sm2O3-Supported Pd Catalysts for Intermediate-Temperature Methanol Fuel Cells. Journal of Physical Chemistry C, 2009, 113, 12465-12475. | 1.5 | 10 |
| 25 | Effect of preparation method on the properties of nanostructured gadolinia-doped ceria materials for IT-SOFCs. International Journal of Hydrogen Energy, 2012, 37, 14854-14863. | 3.8 | 10 |
| 26 | Metal- and halogen-free synthesis of ordered mesoporous carbon materials. Microporous and Mesoporous Materials, 2019, 289, 109622. | 2.2 | 10 |
| 27 | Inhomogeneous composition of alloyed iron–platinum magnetic nanoparticles synthesized at low temperature. Journal of Materials Chemistry, 2011, 21, 3646. | 6.7 | 9 |
| 28 | Structural Properties and Reduction Behavior of Novel Nanostructured Pd/Gadolinia-Doped Ceria Catalysts with Tubular Morphology. Journal of Physical Chemistry C, 2011, 115, 8744-8752. | 1.5 | 9 |
| 29 | Nanostructured carbons containing FeNi/NiFe ₂ O ₄ supported over N-doped carbon nanofibers for oxygen reduction and evolution reactions. RSC Advances, 2019, 9, 36586-36599. | 1.7 | 9 |
| 30 | Synthesis of mesoporous ceria using metal- and halogen-free ordered mesoporous carbon as a hard template. Nanoscale Advances, 2019, 1, 4772-4782. | 2.2 | 7 |
| 31 | Influence of electrolytes of <scp>L</scp> i salts, <scp>EMIMBF</scp> ₄ , and mixed phases on electrochemical and physical properties of <scp>N</scp> afion membrane. Journal of Applied Polymer Science, 2017, 134, 45239. | 1.3 | 6 |
| 32 | Ordered Mesoporous Carbon as a Support for Palladium-Based Hydrodechlorination Catalysts. Catalysts, 2021, 11, 23. | 1.6 | 6 |
| 33 | Effects of Strontium Content on the Microstructure and Ionic Conductivity of Samarium-Doped Ceria. Solids, 2021, 2, 293-313. | 1.1 | 5 |
| 34 | Optimization of STEMâ€HAADF Electron Tomography Reconstructions by Parameter Selection in Compressed Sensing Total Variation Minimizationâ€Based Algorithms. Particle and Particle Systems Characterization, 2020, 37, 2000070. | 1.2 | 4 |
| 35 | Effects on Microstructure and Ionic Conductivity of the Co-Doping with Strontium and Samarium of Ceria with Constant Oxygen Vacancy Concentration. Solids, 2021, 2, 341-370. | 1.1 | 0 |