

# Aligul Buyukaksoy

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

413  
citations

687220

13  
h-index

794469

19  
g-index

36  
all docs

36  
docs citations

36  
times ranked

470  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Electrochemistry of $\text{La}_{0.3}\text{Sr}_{0.7}\text{Fe}_{0.7}\text{Cr}_{0.3}\text{O}_{3-\delta}$ as an oxygen and fuel electrode for SOFCs. Faraday Discussions, 2015, 182, 159-175.   | 1.6 | 45        |
| 2  | A Novel Label-Free Optical Biosensor Using Synthetic Oligonucleotides from E. coli O157:H7: Elementary Sensitivity Tests. Sensors, 2009, 9, 4890-4900.  | 2.1 | 34        |
| 3  | Stability and Performance of Solid Oxide Fuel Cells with Nanocomposite Electrodes. Journal of the Electrochemical Society, 2012, 159, B666-B669.  | 1.3 | 28        |
| 4  | Redox Stable Solid Oxide Fuel Cells with Ni-YSZ Cermet Anodes Prepared by Polymeric Precursor Infiltration. Journal of the Electrochemical Society, 2011, 159, B232-B234.   | 1.3 | 26        |
| 5  | Solid Oxide Fuel Cells with Symmetrical Pt-YSZ Electrodes Prepared by YSZ Infiltration. Journal of the Electrochemical Society, 2013, 160, F482-F486.   | 1.3 | 24        |
| 6  | Optimization of Redox Stable Ni-YSZ Anodes for SOFCs by Two-Step Infiltration. Journal of the Electrochemical Society, 2012, 159, F841-F848.  | 1.3 | 20        |
| 7  | Impact of fabrication temperature on the stability of yttria doped bismuth oxide ceramics. Solid State Ionics, 2019, 338, 66-73.  | 1.3 | 20        |
| 8  | Effect of porous YSZ scaffold microstructure on the long-term performance of infiltrated Ni-YSZ anodes. Journal of Power Sources, 2015, 287, 349-358.   | 4.0 | 18        |
| 9  | Efficient Cathodes for Solid Oxide Fuel Cells Prepared by Polymeric Precursor Infiltration. Journal of the Electrochemical Society, 2011, 159, B67-B71.   | 1.3 | 15        |
| 10 | Performance Enhancement of $\text{La}_{0.3}\text{Ca}_{0.7}\text{Fe}_{0.7}\text{Cr}_{0.3}\text{O}_{3-\delta}$ Air Electrodes by Infiltration Methods. Journal of the Electrochemical Society, 2017, 164, F3123-F3130.  | 1.3 | 15        |
| 11 | Hydroxyapatite/Bioactive Glass Films Produced by a Sol-Gel Method: In Vitro Behavior. Advanced Engineering Materials, 2009, 11, B194.   | 1.6 | 14        |
| 12 | Lowering the sintering temperature of solid oxide fuel cell electrolytes by infiltration. Journal of the European Ceramic Society, 2019, 39, 409-417.   | 2.8 | 14        |
| 13 | Sulfur Tolerance of $\text{La}_{0.3}\text{M}_{0.7}\text{Fe}_{0.7}\text{Cr}_{0.3}\text{O}_{3-\delta}$ (M= Sr, Ca) Solid Oxide Fuel Cell Anodes. ECS Transactions, 2015, 66, 219-228.   | 0.3 | 13        |
| 14 | Cold sintering-assisted densification of GDC electrolytes for SOFC applications. International Journal of Hydrogen Energy, 2022, 47, 19772-19779.   | 3.8 | 13        |
| 15 | Highly active nanoscale Ni - Yttria stabilized zirconia anodes for micro-solid oxide fuel cell applications. Journal of Power Sources, 2016, 307, 449-453.  | 4.0 | 11        |
| 16 | Electrochemical performance of $\text{La}_{0.6}\text{Sr}_{0.4}\text{Co}_{0.2}\text{Fe}_{0.8}\text{O}_{3-\delta}$ - $\text{Ce}_{0.9}\text{Gd}_{0.1}\text{O}_{2-\delta}$ composite SOFC cathodes fabricated by electrocatalyst and/or electrocatalyst-ionic conductor infiltration. Journal of Sol-Gel Science and Technology, 2019, 92, 45-56. | 1.1 | 11        |
| 17 | Redox Stability of Ni-YSZ Cermets Prepared by Polymeric Precursor Infiltration. ECS Transactions, 2012, 45, 509-514.  | 0.3 | 10        |
| 18 | Fabrication of LSCF and LSCF-GDC nanocomposite thin films using polymeric precursors. Ionics, 2020, 26, 913-925.  | 1.2 | 10        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Microstructural Study of Mn and Si Co-substituted Hydroxyapatite Thin Films Produced by a Sol-gel Method. <i>Advanced Engineering Materials</i> , 2009, 11, B77.  | 1.6 | 9         |
| 20 | Electrical properties of gadolinia doped ceria electrolytes fabricated by infiltration aided sintering. <i>Solid State Ionics</i> , 2019, 340, 115020.  | 1.3 | 9         |
| 21 | Formation of Nanocomposite Solid Oxide Fuel Cell Cathodes by Preferential Clustering of Cations from a Single Polymeric Precursor. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47904-47916.                   | 4.0 | 9         |
| 22 | Correlation of Phase, Microstructure and Surface Chemistry Evolution to the Long-Term Performance Stability of (La, Ca)CoO <sub>3</sub> SOFC Electrodes. <i>Journal of the Electrochemical Society</i> , 2020, 167, 124508. | 1.3 | 8         |
| 23 | Effects of Mg doping on sol-gel derived nanocrystalline hydroxyapatite thin films. <i>Materials Science and Technology</i> , 2009, 25, 799-804.   | 0.8 | 6         |
| 24 | Sources of performance degradation in thin film La <sub>0.6</sub> Sr <sub>0.4</sub> FeO <sub>3</sub> air electrodes. <i>Solid State Ionics</i> , 2020, 355, 115420.   | 1.3 | 6         |
| 25 | Comparison of the Electrochemistry of Ni Thin Film and Ni-YSZ Composite Anodes Fabricated by Polymeric Precursor Deposition. <i>Journal of the Electrochemical Society</i> , 2016, 163, F1350-F1357.                        | 1.3 | 5         |
| 26 | First-time electrical characterization of nanotubular ZrO <sub>2</sub> films for micro-solid oxide fuel cell applications. <i>Nanoscale</i> , 2015, 7, 8428-8437.   | 2.8 | 4         |
| 27 | Effect of precursor solution parameters on the formation of yttria stabilized zirconia coatings on yttria stabilized bismuth oxide substrates. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 13561-13571.     | 3.8 | 4         |
| 28 | Cold Sintering of Anode-Supported 8YSZ/NiO-8YSZ Bilayers for Solid Oxide Fuel Cells. <i>ACS Applied Energy Materials</i> , 2021, 4, 13748-13758.  | 2.5 | 4         |
| 29 | Formation, Performance, and Long-Term Stability of Nanostructured Ni-YSZ Thin Film Electrodes. <i>ACS Applied Energy Materials</i> , 2021, 4, 9046-9056.  | 2.5 | 3         |
| 30 | Evaluation of MIEC Ce <sub>0.8</sub> Y <sub>0.1</sub> Mn <sub>0.1</sub> O <sub>2-<math>\delta</math></sub> Anode in Electrolyte-Supported SOFC. <i>Journal of the Electrochemical Society</i> , 2016, 163, F3091-F3098.     | 1.3 | 2         |
| 31 | Stabilization of Ni-YSZ Nanocomposite Anodes by Deposition of a Thin YSZ Overlayer. <i>ECS Transactions</i> , 2015, 66, 267-274.  | 0.3 | 1         |
| 32 | Göçmeç AKIM TOPLAYICI REKKEPLERİNDE FRİT BULUNMASININ KATI OKSİT YAKIT HİKSİT KATOTLARININ ELEKTROKMYASAL PERFORMANSINA ETKİSİ. <i>Endüstriyel Bilimler Ve Tasarım Dergisi</i> , 2019, 7, 796-802.                          | 0.1 | 1         |
| 33 | Structural, Microstructural and Electrochemical Characterization of Ni-YSZ Anodes Fabricated from Pechini-Derived Composite Powders. <i>Sakarya University Journal of Science</i> , 2020, 24, 740-750.                      | 0.3 | 1         |
| 34 | Stability and Performance of YSZ Infiltrated Platinum Electrodes for Sensors and Solid Oxide Cells. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1542, 1.   | 0.1 | 0         |
| 35 | Surface Modification and the Long-Term Performance Stability of Ca Doped LaCoO <sub>3</sub> SOFC Electrodes. <i>ECS Transactions</i> , 2021, 103, 1445-1451.  | 0.3 | 0         |