

Yuki Yamaguchi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8540889/publications.pdf>

Version: 2024-02-01

65
papers

789
citations

516710

16
h-index

552781

26
g-index

66
all docs

66
docs citations

66
times ranked

730
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Degradation evaluation by distribution of relaxation times analysis for microtubular solid oxide fuel cells. <i>Electrochimica Acta</i> , 2020, 339, 135913. | 5.2 | 84 |
| 2 | Nanocomposite electrodes for high current density over 3 A/cm ² in solid oxide electrolysis cells. <i>Nature Communications</i> , 2019, 10, 5432. | 12.8 | 79 |
| 3 | Elastocaloric effect in CuAlZn and CuAlMn shape memory alloys under compression. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150309. | 3.4 | 50 |
| 4 | Effect of Ni diffusion into BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O ₃ electrolyte during high temperature co-sintering in anode-supported solid oxide fuel cells. <i>Ceramics International</i> , 2018, 44, 3134-3140. | 4.8 | 44 |
| 5 | Extremely fine structured cathode for solid oxide fuel cells using Sr-doped LaMnO ₃ and Y ₂ O ₃ -stabilized ZrO ₂ nano-composite powder synthesized by spray pyrolysis. <i>Journal of Power Sources</i> , 2017, 341, 280-284. | 7.8 | 34 |
| 6 | Enhanced La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ -based cathode performance by modification of BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O ₃ electrolyte surface in protonic ceramic fuel cells. <i>Ceramics International</i> , 2021, 47, 16358-16362. | 4.8 | 34 |
| 7 | Performance Comparison of Perovskite Composite Cathodes with BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O ₃ in Anode-Supported Protonic Ceramic Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2020, 167, 124506. | 2.9 | 30 |
| 8 | Influence of oxygen gas concentration on hydrogen sensing of Pt/WO ₃ thin film prepared by sol-gel process. <i>Sensors and Actuators B: Chemical</i> , 2015, 216, 394-401. | 7.8 | 28 |
| 9 | A Key for Achieving Higher Open-Circuit Voltage in Protonic Ceramic Fuel Cells: Lowering Interfacial Electrode Polarization. <i>ACS Applied Energy Materials</i> , 2019, 2, 587-597. | 5.1 | 28 |
| 10 | Comparison of electrochemical impedance spectra for electrolyte-supported solid oxide fuel cells (SOFCs) and protonic ceramic fuel cells (PCFCs). <i>Scientific Reports</i> , 2021, 11, 10622. | 3.3 | 26 |
| 11 | Preparation of Pt/WO ₃ -coated polydimethylsiloxane membrane for transparent/flexible hydrogen gas sensors. <i>Materials Chemistry and Physics</i> , 2019, 226, 226-229. | 4.0 | 25 |
| 12 | Hydrogen gas-sensing properties of Pt/WO ₃ thin film in various measurement conditions. <i>Ionics</i> , 2012, 18, 449-453. | 2.4 | 24 |
| 13 | La _{0.65} Ca _{0.35} FeO ₃ as a novel Sr- and Co-free cathode material for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2020, 448, 227426. | 7.8 | 24 |
| 14 | Densification of a NASICON-Type LATP Electrolyte Sheet by a Cold-Sintering Process. <i>Materials</i> , 2021, 14, 4737. | 2.9 | 24 |
| 15 | Improved transport property of proton-conducting solid oxide fuel cell with multi-layered electrolyte structure. <i>Journal of Power Sources</i> , 2017, 364, 458-464. | 7.8 | 22 |
| 16 | Preparation of Highly Crystallized Strontium Titanate Powders at Room Temperature. <i>Journal of the American Ceramic Society</i> , 2015, 98, 3054-3061. | 3.8 | 17 |
| 17 | Influence of temperature and humidity on the electrical sensing of Pt/WO ₃ thin film hydrogen gas sensor. <i>Journal of the Ceramic Society of Japan</i> , 2016, 124, 629-633. | 1.1 | 15 |
| 18 | Effect of Anode Thickness on Polarization Resistance for Metal-Supported Microtubular Solid Oxide Fuel Cells. <i>Journal of the Electrochemical Society</i> , 2017, 164, F243-F247. | 2.9 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Thermoelectric properties of Sb-doped Mg ₂ (Si _{0.95} Ge _{0.05}) synthesized by spark plasma sintering. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2015, 195, 45-49. | 3.5 | 13 |
| 20 | Protonic Ceramic Fuel Cell with Bi-Layered Structure of BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O ₃ Functional Interlayer and BaZr _{0.8} Yb _{0.2} O ₃ Electrolyte. <i>Journal of the Electrochemical Society</i> , 2021, 168, 124504. | 2.9 | 13 |
| 21 | Additive effect of NiO on electrochemical properties of mixed ion conductor BaZr _{0.1} Ce _{0.7} Y _{0.1} Yb _{0.1} O ₃ . <i>Journal of the Ceramic Society of Japan</i> , 2017, 125, 257-261. | | |
| 22 | Boron-doped Nanodiamond Powder Prepared by Solid-state Diffusion Method. <i>Chemistry Letters</i> , 2015, 44, 627-629. | 1.3 | 9 |
| 23 | Thermoelectric properties of bismuth-substituted calcium manganite Ca _{1-x} Bi _x MnO ₃ prepared via the electrostatic spray deposition method. <i>Journal of the Ceramic Society of Japan</i> , 2017, 125, 308-312. | 1.1 | 9 |
| 24 | Near room temperature synthesis of perovskite oxides. <i>Ceramics International</i> , 2019, 45, 24936-24940. | 4.8 | 9 |
| 25 | Disordered off-center direction of Ti ⁴⁺ in pseudo-cubic type BaTiO ₃ prepared by mixed hydroxide process. <i>Journal of the Ceramic Society of Japan</i> , 2021, 129, 73-78. | 1.1 | 9 |
| 26 | High-performance Gd _{0.5} Sr _{0.5} CoO ₃ and Ce _{0.8} Gd _{0.2} O _{1.9} nanocomposite cathode for achieving high power density in solid oxide fuel cells. <i>Electrochimica Acta</i> , 2021, 368, 137679. | 5.2 | 9 |
| 27 | Lanthanum-doped ceria interlayer between electrolyte and cathode for solid oxide fuel cells. <i>Journal of Asian Ceramic Societies</i> , 2021, 9, 609-616. | 2.3 | 9 |
| 28 | Improvement of hydrogen gas sensing property of the sol-gel derived Pt/WO ₃ thin film by Ti-doping. <i>Journal of the Ceramic Society of Japan</i> , 2015, 123, 1102-1105. | 1.1 | 8 |
| 29 | Low-temperature Solid-state Synthesis of Perovskite Oxides under 50 Å°C. <i>Chemistry Letters</i> , 2016, 45, 226-228. | 1.3 | 8 |
| 30 | Metal-supported microtubular solid oxide fuel cells with ceria-based electrolytes. <i>Journal of the Ceramic Society of Japan</i> , 2017, 125, 208-212. | 1.1 | 7 |
| 31 | Low-temperature synthesis of dense garnet-type Li _{6.5} La ₃ Zr _{1.5} Ta _{0.5} O ₁₂ layered structures using fluorite-type precursor oxide. <i>Journal of Alloys and Compounds</i> , 2021, 865, 158223. | 5.5 | 7 |
| 32 | Investigation of Electrical Hydrogen Detection Properties of Pt/WO ₃ Thin Films Prepared by Sol-Gel Method. <i>Key Engineering Materials</i> , 2011, 485, 271-274. | 0.4 | 6 |
| 33 | Chemical stability and oxygen transport properties of La _{1-x} CaxFe _{1-y} ByO ₃ (with B = Co, Ni, Mg) perovskite membranes. <i>Journal of Materials Research</i> , 2021, 36, 1241-1249. | 2.6 | 6 |
| 34 | The development of low-temperature sintering techniques for functional ceramic devices using chemical reactions. <i>Journal of the Ceramic Society of Japan</i> , 2020, 128, 747-755. | 1.1 | 6 |
| 35 | Phase Transitions, Thermal Expansions, Chemical Expansions, and CO ₂ Resistances of Ba(Ce _{0.8-x} Zr _x Y _{0.1} Yb _{0.1})O ₃ (x = 0.1, 0.4) Perovskite-Type Proton Conductors. <i>Journal of the Electrochemical Society</i> , 2022, 169, 024516. | 2.9 | 6 |
| 36 | Thermoelectric Properties of Mg ₂ Si _{1-x} YGe _x Sb _y Prepared by Spark Plasma Sintering. <i>MRS Advances</i> , 2016, 1, 3971-3976. | 0.9 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Novel Room Temperature Synthesis Process of SrTiO ₃ Fine Particles and Its Photocatalytic Property. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 559-562. | 0.2 | 4 |
| 38 | Reactivity of Carbonates in Superheated Steam under Atmospheric Pressure. Key Engineering Materials, 0, 617, 225-228. | 0.4 | 3 |
| 39 | Reactive-sintering of Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ using alkaline earth peroxides for low-temperature synthesis. Journal of the Ceramic Society of Japan, 2017, 125, 681-685. | 1.1 | 3 |
| 40 | Low-temperature fabrication of (Ba,Sr)(Co,Fe)O ₃ cathode by the reactive sintering method. Journal of the Ceramic Society of Japan, 2019, 127, 485-490. | 1.1 | 3 |
| 41 | Low-Temperature Synthesis of MgAl ₂ O ₄ by Capsule HIP Using Hydroxides as Starting Materials. Key Engineering Materials, 2014, 617, 217-220. | 0.4 | 2 |
| 42 | Preparation and Thermoelectric Properties of Perovskite-Type A _x Ca _{1-x} B _y Mn _{1-y} O ₃ (A;La,Bi,Y,Sr) (B;Ni,Ti,V) Thin-Films by Electrostatic Spray Deposition Method. Key Engineering Materials, 2014, 617, 256-259. | 0.4 | 2 |
| 43 | Single crystal growth and structure refinement of hollandite-type K _{1.98} Fe _{1.98} Sn ₆ O ₁₆ . Journal of Crystal Growth, 2014, 390, 88-91. | 1.5 | 2 |
| 44 | Distribution of Relaxation Times Analysis for Optimization of Anode Thickness in Metal-Supported Microtubular Solid Oxide Fuel Cells. ECS Transactions, 2017, 78, 2151-2157. | 0.5 | 2 |
| 45 | Development of Metal-Supported Planar SOFCs Fabricated by All Wet Process on Metallurgical Porous Substrates. ECS Transactions, 2019, 91, 909-915. | 0.5 | 2 |
| 46 | Effect of Ce/Zr Ratio on Thermal and Chemical Expansions and CO ₂ Resistance of Rare Earth-Doped Ba(Ce,Zr)O ₃ Perovskite-Type Proton Conductors. ECS Transactions, 2021, 103, 1753-1761. | 0.5 | 2 |
| 47 | Effective ceramic sealing agents for solid oxide cells by low temperature curing below 200°C. Ceramics International, 2022, 48, 12988-12995. | 4.8 | 2 |
| 48 | Pt/WO ₃ Nanoparticle-Dispersed Polydimethylsiloxane Membranes for Transparent and Flexible Hydrogen Gas Leakage Sensors. Membranes, 2022, 12, 291. | 3.0 | 2 |
| 49 | Thermoelectric properties of synthesized Mg ₂ Si _{0.95-x} Ge _{0.05} Sb _x by spark plasma sintering. Materials Research Society Symposia Proceedings, 2015, 1735, 56. | 0.1 | 1 |
| 50 | Investigation of Mg ₂ Si formation from Si and Mg by using spark plasma sintering synthesis. Materials Research Society Symposia Proceedings, 2015, 1735, 62. | 0.1 | 1 |
| 51 | Preparation and Characterization of Ca ₃ (Co,M) ₄ O ₉ Type Thermoelectric Materials Using the Electrostatic Spray Deposition Method. Funtai Oyobi Fumatsu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2015, 62, 175-184. | 0.2 | 1 |
| 52 | Preparation and Characterization of Ca ₃ (Co,M) ₄ O ₉ Type Thermoelectric Materials Using the Electrostatic Spray Deposition Method. Materials Transactions, 2016, 57, 1482-1488. | 1.2 | 1 |
| 53 | Electrode Property of Spinel-type LiNi _{0.5} Mn _{1.5} Ti _x O ₄ (0 ≤ x ≤ 1) Tj ETOq1 1 0.784314 Japan Society of Powder and Powder Metallurgy, 2016, 63, 679-683. | 0.2 | 1 |
| 54 | Electrochemical Performance of Anode-Supported Protonic Ceramic Fuel Cells with Various Composite Cathodes. ECS Transactions, 2019, 91, 1075-1083. | 0.5 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Reaction mechanism on the formation of (Sr, Ba)TiO ₃ and Ba(Zr, Ti)O ₃ at near room temperature by using A(OH) ₂ ·8H ₂ O (A = Sr, Ba) and BO ₂ ·nH ₂ O gel (B = Zr, Ti, Zr _{0.45} Ti _{0.55}). Journal of Asian Ceramic Societies, 2021, 9, 124-130. | 2.3 | 1 |
| 56 | Improvement in Power Density of Protonic Ceramic Fuel Cells with Yb Doped BaZrO ₃ Electrolyte. ECS Transactions, 2021, 103, 1725-1734. | 0.5 | 1 |
| 57 | Gasochromic and electrical properties of Pt-nanoparticle-dispersed tungsten oxide thin films prepared by a sol-gel process. Materials Research Society Symposia Proceedings, 2012, 1400, 7. | 0.1 | 0 |
| 58 | Reduction of Contact Resistance between Na _x CoO ₂ Thermoelectric Chip and Ag Electrode by Using Spark Plasma Sintering Method.. Materials Research Society Symposia Proceedings, 2014, 1642, 1. | 0.1 | 0 |
| 59 | Correlativity of the nitrogen oxide adsorption mechanism and crystal structure in hollandite-type compounds. Materials for Renewable and Sustainable Energy, 2014, 3, 1. | 3.6 | 0 |
| 60 | Preparation of Gallium Stannate Dense Sintered Body Using SPS Method. Funtai Oyobi Fummatu Yakin/Journal of the Japan Society of Powder and Powder Metallurgy, 2016, 63, 986-989. | 0.2 | 0 |
| 61 | In-situ observation of nitrogen monoxide adsorption on perovskite-type M ₃ TiO ₇ (M = Sr, Ba). Journal of the Ceramic Society of Japan, 2016, 124, 579-583. | 1.1 | 0 |
| 62 | Phase relation and thermoelectric property of Ca _{1-x} BixMn _{1-y} NiyO ₃ (0 ≤ x, y ≤ 0.1). MRS Advances, 2016, 1, 1941-1946. | 0.9 | 0 |
| 63 | Effect of Ce/Zr Ratio on Thermal and Chemical Expansions and CO ₂ Resistance of Rare Earth-Doped Ba(Ce,Zr)O ₃ Perovskite-Type Proton Conductors. ECS Meeting Abstracts, 2021, MA2021-03, 93-93. | 0.0 | 0 |
| 64 | Improvement in Power Density of Protonic Ceramic Fuel Cells with Yb Doped BaZrO ₃ Electrolyte. ECS Meeting Abstracts, 2021, MA2021-03, 89-89. | 0.0 | 0 |
| 65 | Preparation and electrode property of layered rock-salt type LiNi _{1-x-y} Co _y Al _x O ₂ and | | |