

Takaya Ogawa

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

616
citations

686830

13
h-index

610482

24
g-index

34
all docs

34
docs citations

34
times ranked

912
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Reduction of Dinitrogen to Ammonia Catalyzed by Molybdenum Diamido Complexes. <i>Journal of the American Chemical Society</i> , 2017, 139, 9132-9135. | 6.6 | 129 |
| 2 | The proton conduction mechanism in a material consisting of packed acids. <i>Chemical Science</i> , 2014, 5, 4878-4887. | 3.7 | 72 |
| 3 | Differentiating Grotthuss Proton Conduction Mechanisms by Nuclear Magnetic Resonance Spectroscopic Analysis of Frozen Samples. <i>Analytical Chemistry</i> , 2014, 86, 9362-9366. | 3.2 | 59 |
| 4 | High Electron Density on Ru in Intermetallic YRu ₂ : The Application to Catalyst for Ammonia Synthesis. <i>Journal of Physical Chemistry C</i> , 2018, 122, 10468-10475. | 1.5 | 43 |
| 5 | Analysis of Trends and Emerging Technologies in Water Electrolysis Research Based on a Computational Method: A Comparison with Fuel Cell Research. <i>Sustainability</i> , 2018, 10, 478. | 1.6 | 40 |
| 6 | Assessing the industrial opportunity of academic research with patent relatedness: A case study on polymer electrolyte fuel cells. <i>Technological Forecasting and Social Change</i> , 2015, 90, 469-475. | 6.2 | 35 |
| 7 | Comprehensive Analysis of Trends and Emerging Technologies in All Types of Fuel Cells Based on a Computational Method. <i>Sustainability</i> , 2018, 10, 458. | 1.6 | 32 |
| 8 | Theoretical Studies on Proton Transfer among a High Density of Acid Groups: Surface of Zirconium Phosphate with Adsorbed Water Molecules. <i>Journal of Physical Chemistry C</i> , 2011, 115, 5599-5606. | 1.5 | 26 |
| 9 | Development of a Sustainable Release System for a Ranibizumab Biosimilar Using Poly(lactic- <i>co</i> -glycolic acid) Biodegradable Polymer-Based Microparticles as a Platform. <i>Biological and Pharmaceutical Bulletin</i> , 2017, 40, 145-150. | 0.6 | 25 |
| 10 | Economies of scale in ammonia synthesis loops embedded with iron- and ruthenium-based catalysts. <i>International Journal of Hydrogen Energy</i> , 2021, , . | 3.8 | 20 |
| 11 | Landscape of Research Areas for Zeolites and Metal-Organic Frameworks Using Computational Classification Based on Citation Networks. <i>Materials</i> , 2017, 10, 1428. | 1.3 | 19 |
| 12 | Enhanced Photocatalytic Activity of BiVO ₄ /Bi ₂ S ₃ /SnS ₂ Heterojunction under Visible Light. <i>Catalysts</i> , 2020, 10, 1294. | 1.6 | 15 |
| 13 | Non-humidified proton conduction between a Lewis acid–base pair. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13814. | 1.3 | 14 |
| 14 | Generating novel research ideas using computational intelligence: A case study involving fuel cells and ammonia synthesis. <i>Technological Forecasting and Social Change</i> , 2017, 120, 41-47. | 6.2 | 13 |
| 15 | The effect of potassium chloride on BiVO ₄ morphology and photocatalysis. <i>Journal of Solid State Chemistry</i> , 2021, 302, 122291. | 1.4 | 12 |
| 16 | Theoretical Studies of the Mechanism of Proton Transfer at the Surface of Zirconium Phosphate. <i>Chemistry Letters</i> , 2010, 39, 736-737. | 0.7 | 11 |
| 17 | Proton diffusion facilitated by indirect interactions between proton donors through several hydrogen bonds. <i>Chemical Physics Letters</i> , 2019, 731, 136627. | 1.2 | 10 |
| 18 | The effect of substrate roughness on the properties of RF sputtered AZO thin film. <i>MRS Communications</i> , 2019, 9, 697-701. | 0.8 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Damp-heat durability comparison of Al-doped ZnO transparent electrodes deposited at low temperatures on glass and PI-tape/PC substrates. <i>Ceramics International</i> , 2020, 46, 16178-16184. | 2.3 | 7 |
| 20 | Proton Conductivity of Organic-Inorganic Electrolyte for Polymer Electrolyte Fuel Cell. <i>Chemistry Letters</i> , 2017, 46, 204-206. | 0.7 | 6 |
| 21 | Suitable acid groups and density in electrolytes to facilitate proton conduction. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 23778-23786. | 1.3 | 4 |
| 22 | Success Factors for the Implementation of Community Renewable Energy in Thailand. <i>Energies</i> , 2021, 14, 4203. | 1.6 | 4 |
| 23 | Damp Heat Durability of Al-Doped ZnO Transparent Electrodes with Different Crystal Growth Orientations. <i>ECS Journal of Solid State Science and Technology</i> , 2019, 8, Q240-Q244. | 0.9 | 3 |
| 24 | Evolution and Recovery of Electrical Property of Reactive Sputtered Al-Doped ZnO Transparent Electrode Exposed to Harsh Environment. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900519. | 0.8 | 3 |
| 25 | Effects of Sputtering Gas on Crystal Growth Orientations and Durability of Al-doped ZnO Transparent Electrodes in Harsh Environment. , 2019, , . | | 1 |
| 26 | Assessing the geospatial nature of location-dependent costs in installation of solar photovoltaic plants. <i>Energy Reports</i> , 2021, 7, 4882-4894. | 2.5 | 1 |
| 27 | Ammonia as a carrier of renewable energy: Recent progress of ammonia synthesis by homogeneous catalysts, heterogeneous catalysts, and electrochemical method. , 2022, , 265-291. | | 1 |
| 28 | Enhanced Photocatalytic Activity of TiO ₂ Thin Film Deposited by Reactive RF Sputtering under Oxygen-Rich Conditions. <i>Photochem</i> , 2022, 2, 138-149. | 1.3 | 1 |
| 29 | Development of Carrier Concentration and Its Effects on the Electrical Stability of Al-doped ZnO Transparent Electrode in Harsh Environment. , 2019, , . | | 0 |