

Takaya Ogawa

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

616
citations

686830

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h-index

610482

24
g-index

34
all docs

34
docs citations

34
times ranked

912
citing authors

#	ARTICLE	IF	CITATIONS
1	Ammonia as a carrier of renewable energy: Recent progress of ammonia synthesis by homogeneous catalysts, heterogeneous catalysts, and electrochemical method. , 2022, , 265-291.		1
2	Enhanced Photocatalytic Activity of TiO ₂ Thin Film Deposited by Reactive RF Sputtering under Oxygen-Rich Conditions. Photochem, 2022, 2, 138-149.	1.3	1
3	Economies of scale in ammonia synthesis loops embedded with iron- and ruthenium-based catalysts. International Journal of Hydrogen Energy, 2021, , .	3.8	20
4	Suitable acid groups and density in electrolytes to facilitate proton conduction. Physical Chemistry Chemical Physics, 2021, 23, 23778-23786.	1.3	4
5	Success Factors for the Implementation of Community Renewable Energy in Thailand. Energies, 2021, 14, 4203.	1.6	4
6	The effect of potassium chloride on BiVO ₄ morphology and photocatalysis. Journal of Solid State Chemistry, 2021, 302, 122291.	1.4	12
7	Assessing the geospatial nature of location-dependent costs in installation of solar photovoltaic plants. Energy Reports, 2021, 7, 4882-4894.	2.5	1
8	Evolution and Recovery of Electrical Property of Reactive Sputtered Al-doped ZnO Transparent Electrode Exposed to Harsh Environment. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 1900519.	0.8	3
9	Damp-heat durability comparison of Al-doped ZnO transparent electrodes deposited at low temperatures on glass and PI-tape/PC substrates. Ceramics International, 2020, 46, 16178-16184.	2.3	7
10	Enhanced Photocatalytic Activity of BiVO ₄ /Bi ₂ S ₃ /SnS ₂ Heterojunction under Visible Light. Catalysts, 2020, 10, 1294.	1.6	15
11	Proton diffusion facilitated by indirect interactions between proton donors through several hydrogen bonds. Chemical Physics Letters, 2019, 731, 136627.	1.2	10
12	The effect of substrate roughness on the properties of RF sputtered AZO thin film. MRS Communications, 2019, 9, 697-701.	0.8	8
13	Damp Heat Durability of Al-Doped ZnO Transparent Electrodes with Different Crystal Growth Orientations. ECS Journal of Solid State Science and Technology, 2019, 8, Q240-Q244.	0.9	3
14	Effects of Sputtering Gas on Crystal Growth Orientations and Durability of Al-doped ZnO Transparent Electrodes in Harsh Environment. , 2019, , .		1
15	Development of Carrier Concentration and Its Effects on the Electrical Stability of Al-doped ZnO Transparent Electrode in Harsh Environment. , 2019, , .		0
16	High Electron Density on Ru in Intermetallic YRu ₂ : The Application to Catalyst for Ammonia Synthesis. Journal of Physical Chemistry C, 2018, 122, 10468-10475.	1.5	43
17	Comprehensive Analysis of Trends and Emerging Technologies in All Types of Fuel Cells Based on a Computational Method. Sustainability, 2018, 10, 458.	1.6	32
18	Analysis of Trends and Emerging Technologies in Water Electrolysis Research Based on a Computational Method: A Comparison with Fuel Cell Research. Sustainability, 2018, 10, 478.	1.6	40

#	ARTICLE	IF	CITATIONS
19	Proton Conductivity of Organic-Inorganic Electrolyte for Polymer Electrolyte Fuel Cell. <i>Chemistry Letters</i> , 2017, 46, 204-206.	0.7	6
20	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
21	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
22	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
23	Development of a Sustainable Release System for a Ranibizumab Biosimilar Using Poly(lactic-co-glycolic acid) Biodegradable Polymer-Based Microparticles as a Platform. <i>Biological and Pharmaceutical Bulletin</i> , 2017, 40, 145-150.	0.6	25
24	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
25	The proton conduction mechanism in a material consisting of packed acids. <i>Chemical Science</i> , 2014, 5, 4878-4887.	3.7	72
26	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
27	Non-humidified proton conduction between a Lewis acid-base pair. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13814.	1.3	14
28	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
29	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