

Yongmin Kim

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Highly monodisperse sub-nanometer and nanometer Ru particles confined in alkali-exchanged zeolite Y for ammonia decomposition. <i>Applied Catalysis B: Environmental</i> , 2021, 283, 119627.	20.2	67
2	Extending the limits of Pt/C catalysts with passivation-gas-incorporated atomic layer deposition. <i>Nature Catalysis</i> , 2018, 1, 624-630.	34.4	63
3	Hydrogen production from homocyclic liquid organic hydrogen carriers (LOHCs): Benchmarking studies and energy-economic analyses. <i>Energy Conversion and Management</i> , 2021, 239, 114124.	9.2	43
4	Correlation of film density and wet etch rate in hydrofluoric acid of plasma enhanced atomic layer deposited silicon nitride. <i>AIP Advances</i> , 2016, 6, .	1.3	39
5	Effect of the support properties in dehydrogenation of biphenyl-based eutectic mixture as liquid organic hydrogen carrier (LOHC) over Pt/Al ₂ O ₃ catalysts. <i>Fuel</i> , 2021, 284, 119285.	6.4	39
6	An efficient process for sustainable and scalable hydrogen production from green ammonia. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111562.	16.4	38
7	A compact catalytic foam reactor for decomposition of ammonia by the Joule-heating mechanism. <i>Chemical Engineering Journal</i> , 2021, 426, 130802.	12.7	36
8	Demonstration of a 20ÂW class high-temperature polymer electrolyte fuel cell stack with novel fabrication of a membrane electrode assembly. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 5521-5526.	7.1	32
9	Atomic Layer Deposition for Surface Engineering of Solid Oxide Fuel Cell Electrodes. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019, 6, 629-646.	4.9	27
10	Self-limiting atomic layer deposition of barium oxide and barium titanate thin films using a novel pyrrole based precursor. <i>Journal of Materials Chemistry C</i> , 2016, 4, 1945-1952.	5.5	26
11	A catalytic composite membrane reactor system for hydrogen production from ammonia using steam as a sweep gas. <i>Journal of Membrane Science</i> , 2020, 614, 118483.	8.2	26
12	Development of an Autothermal Formate-Based Hydrogen Generator: From Optimization of Formate Dehydrogenation Conditions to Thermal Integration with Fuel Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 9846-9856.	6.7	21
13	Development of porous nickel catalysts by low-temperature Ni-Al chemical alloying and post selective Al leaching, and their application for ammonia decomposition. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 19181-19191.	7.1	16
14	High purity hydrogen production via aqueous phase reforming of xylose over small Pt nanoparticles on a Î³-Al ₂ O ₃ support. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 13848-13861.	7.1	15
15	Surface area enhancement of nickel foam by low-temperature chemical alloying/dealloying and its application for sodium borohydride hydrolysis. <i>Journal of Alloys and Compounds</i> , 2020, 843, 155759.	5.5	14
16	Improving intrinsic oxygen reduction activity and stability: Atomic layer deposition preparation of platinum-titanium alloy catalysts. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120741.	20.2	14
17	Autothermal recirculating reactor (ARR) with Cu-BN composite as a stable reactor material for sustainable hydrogen release from ammonia. <i>Journal of Power Sources</i> , 2021, 506, 230081.	7.8	10
18	Strategy for Efficient H ₂ Production from a Mixture of Formic Acid and Formate using <i>Operando</i> pH Measurements. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 888-898.	6.7	10

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19	COX-free LOHC dehydrogenation in a heatpipe reformer highly integrated with a hydrogen burner. <i>Chemical Engineering Journal</i> , 2022, 449, 137679.	12.7	9
20	Top-Down Syntheses of Nickel-Based Structured Catalysts for Hydrogen Production from Ammonia. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 597-607.	8.0	8
21	Investigation of a hydrogen generator with the heat management module utilizing liquid-gas organic phase change material. <i>International Journal of Energy Research</i> , 2021, 45, 10378-10392.	4.5	6
22	Compact ATR-WGS-Integrated Bioethanol Fuel Processor for Portable and On-board Fuel Cell Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15611-15619.	6.7	5
23	Facile synthesis of micro-sized Ni-Al alloy powders through low-temperature chemical alloying. <i>Journal of Alloys and Compounds</i> , 2020, 815, 152392.	5.5	4