

Rahat Javaid

List of Publications by Year in descending order

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38
papers

1,699
citations

304368

22
h-index

315357

38
g-index

38
all docs

38
docs citations

38
times ranked

1431
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient Ru/MgO@CeO ₂ catalyst for ammonia synthesis as a hydrogen and energy carrier. International Journal of Hydrogen Energy, 2023, 48, 11214-11224.	3.8	3
2	Effect of texture and physical properties of catalysts on ammonia synthesis. Catalysis Today, 2022, 397-399, 592-597.	2.2	11
3	Performance Analysis of Calcium-Doped Titania (TiO ₂) as an Effective Electron Transport Layer (ETL) for Perovskite Solar Cells. Energies, 2022, 15, 1408.	1.6	10
4	Stability of Cs/Ru/MgO Catalyst for Ammonia Synthesis as a Hydrogen and Energy Carrier. Energies, 2022, 15, 3506.	1.6	5
5	Enhancing biohydrogen production from lignocellulosic biomass of Paulownia waste by charge facilitation in Zn doped SnO ₂ nanocatalysts. Bioresource Technology, 2022, 355, 127299.	4.8	17
6	Application of Attapulgite Clay-Based Fe-Zeolite 5A in UV-Assisted Catalytic Ozonation for the Removal of Ciprofloxacin. Journal of Chemistry, 2022, 2022, 1-10.	0.9	9
7	Application of Nanocatalysts in Advanced Oxidation Processes for Wastewater Purification: Challenges and Future Prospects. Catalysts, 2022, 12, 741.	1.6	26
8	Effect of reaction conditions and surface characteristics of Ru/CeO ₂ on catalytic performance for ammonia synthesis as a clean fuel. International Journal of Hydrogen Energy, 2021, 46, 18107-18115.	3.8	23
9	Explorative Study of a Ru/CeO ₂ Catalyst for NH ₃ Synthesis from Renewable Hydrogen and Demonstration of NH ₃ Synthesis under a Range of Reaction Conditions. Journal of the Japan Petroleum Institute, 2021, 64, 1-9.	0.4	24
10	Efficient Cr(VI) photoreduction under natural solar irradiation using a novel step-scheme ZnS/SnIn ₄ S ₈ nanoheterostructured photocatalysts. RSC Advances, 2021, 11, 29433-29440.	1.7	15
11	Combined Iron-Loaded Zeolites and Ozone-Based Process for the Purification of Drinking Water in a Novel Hybrid Reactor: Removal of Faecal Coliforms and Arsenic. Catalysts, 2021, 11, 373.	1.6	13
12	Bimetallic NiCo@NiCoO ₂ nano-heterostructures embedded on copper foam as a self-supported bifunctional electrode for water oxidation and hydrogen production in alkaline media. International Journal of Hydrogen Energy, 2021, 46, 18936-18948.	3.8	35
13	Catalytic Hydrogen Production, Storage and Application. Catalysts, 2021, 11, 836.	1.6	28
14	Subcritical and supercritical water oxidation for dye decomposition. Journal of Environmental Management, 2021, 290, 112605.	3.8	60
15	Recent developments for antimicrobial applications of graphene-based polymeric composites: A review. Journal of Industrial and Engineering Chemistry, 2021, 100, 40-58.	2.9	57
16	Effect of preparation method and reaction parameters on catalytic activity for ammonia synthesis. International Journal of Hydrogen Energy, 2021, 46, 35209-35218.	3.8	16
17	Deep eutectic solvents as alternative green solvents for the efficient desulfurization of liquid fuel: A comprehensive review. Fuel, 2021, 305, 121502.	3.4	53
18	UV-Accelerated Photocatalytic Degradation of Pesticide over Magnetite and Cobalt Ferrite Decorated Graphene Oxide Composite. Plants, 2021, 10, 6.	1.6	43

#	ARTICLE	IF	CITATIONS
19	Design of advanced self-supported electrode by surface modification of copper foam with transition metals for efficient hydrogen evolution reaction. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 33396-33406.	3.8	31
20	Solid-state synthesis of heterogeneous Ni _{0.5} Cu _{0.5-x} Zn _x Fe ₂ O ₄ spinel oxides with controlled morphology and tunable dielectric properties. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 14261-14270.	1.1	13
21	Enhanced High-Temperature (600 °C) NO ₂ Response of ZnFe ₂ O ₄ Nanoparticle-Based Exhaust Gas Sensors. <i>Nanomaterials</i> , 2020, 10, 2133.	1.9	21
22	Highly efficient Ru/MgO@Er ₂ O ₃ catalysts for ammonia synthesis. <i>Journal of Physics and Chemistry of Solids</i> , 2020, 146, 109570.	1.9	30
23	A review of ammonia as a compression ignition engine fuel. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7098-7118.	3.8	388
24	MgFe ₂ O ₄ @Ru Supported Ru Catalyst for Ammonia Synthesis: Promotive Effect of Chlorine. <i>ChemistrySelect</i> , 2020, 5, 4312-4315.	0.7	21
25	Catalytic Oxidation Process for the Degradation of Synthetic Dyes: An Overview. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 2066.	1.2	240
26	Influence of Reaction Conditions and Promoting Role of Ammonia Produced at Higher Temperature Conditions in Its Synthesis Process over Cs@Ru/MgO Catalyst. <i>ChemistrySelect</i> , 2019, 4, 2218-2224.	0.7	24
27	Green Synthesis of Silver Nanoparticles by Pulsed Laser Irradiation: Effect of Hydrophilicity of Dispersing Agents on Size of Particles. <i>Frontiers in Nanoscience and Nanotechnology</i> , 2018, 4, .	0.3	6
28	One-Step Growth of Iron@Nickel Bimetallic Nanoparticles on FeNi Alloy Foils: Highly Efficient Advanced Electrodes for the Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 28627-28634.	4.0	116
29	Formation and Growth of Silver Nanocubes upon Nanosecond Pulsed Laser Irradiation: Effects of Laser Intensity and Irradiation Time. <i>Advances in Nanoparticles</i> , 2017, 06, 148-157.	0.3	10
30	Highly efficient decomposition of Remazol Brilliant Blue R using tubular reactor coated with thin layer of PdO. <i>Journal of Environmental Management</i> , 2016, 180, 551-556.	3.8	26
31	A Review on Metal Nanostructures: Preparation Methods and Their Potential Applications. <i>Advances in Nanoparticles</i> , 2016, 05, 27-43.	0.3	65
32	Efficient and Continuous Decomposition of Hydrogen Peroxide Using a Silica Capillary Coated with a Thin Palladium or Platinum Layer. <i>Bulletin of the Chemical Society of Japan</i> , 2015, 88, 976-980.	2.0	20
33	Factors affecting coke formation on H-ZSM-5 in naphtha cracking. <i>Applied Catalysis A: General</i> , 2015, 491, 100-105.	2.2	86
34	Simple and rapid hydrogenation of <i>p</i> -nitrophenol with aqueous formic acid in catalytic flow reactors. <i>Beilstein Journal of Organic Chemistry</i> , 2013, 9, 1156-1163.	1.3	51
35	Continuous Dehydrogenation of Aqueous Formic Acid under Sub-Critical Conditions by Use of Hollow Tubular Reactor Coated with Thin Palladium Oxide Layer. <i>Journal of Chemical Engineering of Japan</i> , 2013, 46, 751-758.	0.3	18
36	Sonogashira C-C coupling reaction in water using tubular reactors with catalytic metal inner surface. <i>Chemical Engineering Journal</i> , 2011, 167, 431-435.	6.6	38

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37	Fabrication of microtubular reactors coated with thin catalytic layer (M=Pd, Pd~Cu, Pt, Rh, Au). Catalysis Communications, 2010, 11, 1160-1164.	1.6	25
38	Silica Capillary with Thin Metal (Pd and Pt) Inner Wall: Application to Continuous Decomposition of Hydrogen Peroxide. Chemistry Letters, 2009, 38, 146-147.	0.7	22