

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	A review of ammonia as a compression ignition engine fuel. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7098-7118.	3.8	388
2	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
3	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
4	Factors affecting coke formation on H-ZSM-5 in naphtha cracking. <i>Applied Catalysis A: General</i> , 2015, 491, 100-105.	2.2	86
5	A Review on Metal Nanostructures: Preparation Methods and Their Potential Applications. <i>Advances in Nanoparticles</i> , 2016, 05, 27-43.	0.3	65
6	Subcritical and supercritical water oxidation for dye decomposition. <i>Journal of Environmental Management</i> , 2021, 290, 112605.	3.8	60
7	Recent developments for antimicrobial applications of graphene-based polymeric composites: A review. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 100, 40-58.	2.9	57
8	Deep eutectic solvents as alternative green solvents for the efficient desulfurization of liquid fuel: A comprehensive review. <i>Fuel</i> , 2021, 305, 121502.	3.4	53
9	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
10	UV-Accelerated Photocatalytic Degradation of Pesticide over Magnetite and Cobalt Ferrite Decorated Graphene Oxide Composite. <i>Plants</i> , 2021, 10, 6.	1.6	43
11	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
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. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 18936-18948.	3.8	35
13	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
14	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
15	Catalytic Hydrogen Production, Storage and Application. <i>Catalysts</i> , 2021, 11, 836.	1.6	28
16	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
17	Application of Nanocatalysts in Advanced Oxidation Processes for Wastewater Purification: Challenges and Future Prospects. <i>Catalysts</i> , 2022, 12, 741.	1.6	26
18	Fabrication of microtubular reactors coated with thin catalytic layer (M=Pd, Pd~Cu, Pt, Rh, Au). <i>Catalysis Communications</i> , 2010, 11, 1160-1164.	1.6	25

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19	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
20	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. <i>Journal of the Japan Petroleum Institute</i> , 2021, 64, 1-9.	0.4	24
21	Effect of reaction conditions and surface characteristics of Ru/CeO ₂ on catalytic performance for ammonia synthesis as a clean fuel. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 18107-18115.	3.8	23
22	Silica Capillary with Thin Metal (Pd and Pt) Inner Wall: Application to Continuous Decomposition of Hydrogen Peroxide. <i>Chemistry Letters</i> , 2009, 38, 146-147.	0.7	22
23	Enhanced High-Temperature (600 Å°C) NO ₂ Response of ZnFe ₂ O ₄ Nanoparticle-Based Exhaust Gas Sensors. <i>Nanomaterials</i> , 2020, 10, 2133.	1.9	21
24	MgFe ₂ O ₄ -Supported Ru Catalyst for Ammonia Synthesis: Promotive Effect of Chlorine. <i>ChemistrySelect</i> , 2020, 5, 4312-4315.	0.7	21
25	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
26	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
27	Enhancing biohydrogen production from lignocellulosic biomass of Paulownia waste by charge facilitation in Zn doped SnO ₂ nanocatalysts. <i>Bioresource Technology</i> , 2022, 355, 127299.	4.8	17
28	Effect of preparation method and reaction parameters on catalytic activity for ammonia synthesis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 35209-35218.	3.8	16
29	Efficient Cr(<i>vi</i>) photoreduction under natural solar irradiation using a novel step-scheme ZnS/SnIn ₄ S ₈ nanoheterostructured photocatalysts. <i>RSC Advances</i> , 2021, 11, 29433-29440.	1.7	15
30	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
31	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. <i>Catalysts</i> , 2021, 11, 373.	1.6	13
32	Effect of texture and physical properties of catalysts on ammonia synthesis. <i>Catalysis Today</i> , 2022, 397-399, 592-597.	2.2	11
33	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
34	Performance Analysis of Calcium-Doped Titania (TiO ₂) as an Effective Electron Transport Layer (ETL) for Perovskite Solar Cells. <i>Energies</i> , 2022, 15, 1408.	1.6	10
35	Application of Attapulgitic Clay-Based Fe-Zeolite 5A in UV-Assisted Catalytic Ozonation for the Removal of Ciprofloxacin. <i>Journal of Chemistry</i> , 2022, 2022, 1-10.	0.9	9
36	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

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37	Stability of Cs/Ru/MgO Catalyst for Ammonia Synthesis as a Hydrogen and Energy Carrier. <i>Energies</i> , 2022, 15, 3506.	1.6	5
38	Efficient Ru/MgO@CeO ₂ catalyst for ammonia synthesis as a hydrogen and energy carrier. <i>International Journal of Hydrogen Energy</i> , 2023, 48, 11214-11224.	3.8	3