

Cheralathan Kk

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,193
citations

331670

21
h-index

395702

33
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37
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37
docs citations

37
times ranked

1726
citing authors

#	ARTICLE	IF	CITATIONS
1	Manifestation of enhanced and durable photocatalytic H ₂ production using hierarchically structured Pt@Co ₃ O ₄ /TiO ₂ ternary nanocomposite. <i>Ceramics International</i> , 2021, 47, 10226-10235.	4.8	22
2	Inclusion of low cost activated carbon for improving hydrogen production performance of TiO ₂ nanoparticles under natural solar light irradiation. <i>Ceramics International</i> , 2021, 47, 10216-10225.	4.8	16
3	Light-driven transformation of biomass into chemicals using photocatalysts – Vistas and challenges. <i>Journal of Environmental Management</i> , 2021, 284, 111983.	7.8	23
4	Review on the interface engineering in the carbonaceous titania for the improved photocatalytic hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 7584-7615.	7.1	44
5	Highly efficient solar light-driven photocatalytic hydrogen production over Cu/FCNTs-titania quantum dots-based heterostructures. <i>Journal of Environmental Management</i> , 2020, 254, 109747.	7.8	111
6	Facile synthesis of hydrothermally stable mesoporous ZSM-5 zeolite from Al-SBA-16 via steam assisted crystallization. <i>Journal of Porous Materials</i> , 2020, 27, 587-601.	2.6	11
7	Emerging trends in photocatalytic transformation of biomass-derived glycerol into hydrogen fuel and value-added chemicals. , 2020, , 227-246.		1
8	Levulinic acid – a potential keto acid for producing biofuels and chemicals. , 2020, , 171-197.		6
9	Heterojunction of CdS Nanocapsules/WO ₃ Nanosheets Composite as a Stable and Efficient Photocatalyst for Hydrogen Evolution. <i>Energy & Fuels</i> , 2020, 34, 14598-14610.	5.1	22
10	Sustainable hydrogen production for the greener environment by quantum dots-based efficient photocatalysts: A review. <i>Journal of Environmental Management</i> , 2019, 248, 109246.	7.8	122
11	Synthesis of zeolite/activated carbon composite material for the removal of lead (II) and cadmium (II) ions. <i>Environmental Progress and Sustainable Energy</i> , 2019, 38, e13246.	2.3	26
12	Low-cost TiO ₂ -graphitic carbon core/shell nanocomposite for depriving electron, hole recombination. <i>Materials Letters</i> , 2019, 248, 105-108.	2.6	3
13	Pt/TiO ₂ nanotube photocatalyst – Effect of synthesis methods on valance state of Pt and its influence on hydrogen production and dye degradation. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 83-98.	9.4	51
14	Enhanced photocatalytic hydrogen production activity of noble metal free MWCNT-TiO ₂ nanocomposites. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4036-4043.	7.1	46
15	Photocatalytic Reforming of Biomass Derived Crude Glycerol in Water: A Sustainable Approach for Improved Hydrogen Generation Using Ni(OH) ₂ Decorated TiO ₂ Nanotubes under Solar Light Irradiation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 3754-3764.	6.7	67
16	Sulphonic Acid-Functionalized Benzimidazolium Based Poly Ionic Liquid Catalyzed Esterification of Levulinic Acid. <i>Catalysis Letters</i> , 2018, 148, 680-690.	2.6	41
17	Transesterification of castor oil using benzimidazolium based Brønsted acid ionic liquid catalyst. <i>Fuel</i> , 2018, 231, 458-467.	6.4	54
18	Heteropoly acid supported on silicalite – 1 possessing intracrystalline nanovoids prepared using biomass – an efficient and recyclable catalyst for esterification of levulinic acid. <i>Applied Catalysis A: General</i> , 2017, 547, 237-247.	4.3	41

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19	Deep-desulfurization of the petroleum diesel using the heterogeneous carboxyl functionalized poly-ionic liquid. Resource-efficient Technologies, 2016, 2, S105-S113.	0.1	23
20	Hierarchically structured MFI zeolite monolith prepared using agricultural waste as solid template. Microporous and Mesoporous Materials, 2016, 221, 23-31.	4.4	16
21	In vitro bioactivity and drug release kinetics studies of mesoporous silica-biopolymer composites. Journal of Porous Materials, 2015, 22, 1465-1472.	2.6	10
22	Study of Carbon Based Solid State EDLCs at High Sweep Rates. ECS Transactions, 2012, 41, 37-49.	0.5	4
23	Hierarchically Porous ZSM-5 Synthesized by Nonionic- and Cationic-Templating Routes and Their Catalytic Activity in Liquid-Phase Esterification. ITB Journal of Science, 2011, 43, 59-72.	0.1	1
24	Promising catalytic performance and shape-selectivity of nitrogen-doped siliceous MFI zeolite for base-catalyzed reactions. Microporous and Mesoporous Materials, 2010, 132, 290-295.	4.4	37
25	Preparation of spherical LiNi _{0.80} Co _{0.15} Mn _{0.05} O ₂ lithium-ion cathode material by continuous co-precipitation. Journal of Power Sources, 2010, 195, 1486-1494.	7.8	53
26	Pt/CeO ₂ @ZrO ₂ present in the mesopores of SBA-15 a better catalyst for CO oxidation. Physical Chemistry Chemical Physics, 2010, 12, 7513.	2.8	21
27	A New Method for Post-Synthesis Coating of Zirconia on the Mesopore Walls of SBA-15 Without Pore Blocking. Advanced Materials, 2008, 20, 2131-2136.	21.0	98
28	Composite electrolyte of heteropolyacid (HPA) and polyethylene oxide (PEO) for solid-state dye-sensitized solar cell. Electrochimica Acta, 2008, 53, 6623-6628.	5.2	48
29	Post-synthesis coating of alumina on the mesopore walls of SBA-15 by ammonia/water vapour induced internal hydrolysis and its consequences on pore structure and acidity. Microporous and Mesoporous Materials, 2008, 116, 406-415.	4.4	31
30	Assembling mode of alumina and zirconia particles inside the mesopores of SBA-15 under high loading. Studies in Surface Science and Catalysis, 2008, 174, 161-166.	1.5	2
31	Cyclisation of (phenylthio)acetaldehyde diethylacetal in the presence of dealuminated beta zeolites: an unexpected Meerwein-Ponndorf-Verley reduction. Applied Catalysis A: General, 2004, 263, 219-225.	4.3	7
32	Enhanced photocatalytic activity for the destruction of monocrotophos pesticide by TiO ₂ /H ₂ O ₂ . Journal of Molecular Catalysis A, 2004, 223, 195-200.	4.8	102
33	Title is missing!. Catalysis Letters, 2003, 86, 173-177.	2.6	5
34	Liquid phase alkylation of phenol with 4-hydroxybutan-2-one in the presence of modified zeolite HBEA. Applied Catalysis A: General, 2003, 241, 247-260.	4.3	25
35	25-O-02 - Facile friedel-craft's alkylation of phenol with 4-hydroxybutan-2-one over β and γ zeolites to produce raspberry ketone. Studies in Surface Science and Catalysis, 2001, , 152.	1.5	3