

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
all docs

37
docs citations

37
times ranked

1726
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Enhanced photocatalytic activity for the destruction of monocrotophos pesticide by TiO ₂ /H ₂ O ₂ . <i>Journal of Molecular Catalysis A</i> , 2004, 223, 195-200.	4.8	102
4	A New Method for Post-synthesis Coating of Zirconia on the Mesopore Walls of SBA-15 Without Pore Blocking. <i>Advanced Materials</i> , 2008, 20, 2131-2136.	21.0	98
5	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
6	Transesterification of castor oil using benzimidazolium based Brønsted acid ionic liquid catalyst. <i>Fuel</i> , 2018, 231, 458-467.	6.4	54
7	Preparation of spherical LiNi _{0.80} Co _{0.15} Mn _{0.05} O ₂ lithium-ion cathode material by continuous co-precipitation. <i>Journal of Power Sources</i> , 2010, 195, 1486-1494.	7.8	53
8	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
9	Composite electrolyte of heteropolyacid (HPA) and polyethylene oxide (PEO) for solid-state dye-sensitized solar cell. <i>Electrochimica Acta</i> , 2008, 53, 6623-6628.	5.2	48
10	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
11	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
12	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
13	Sulphonic Acid-Functionalized Benzimidazolium Based Poly Ionic Liquid Catalyzed Esterification of Levulinic Acid. <i>Catalysis Letters</i> , 2018, 148, 680-690.	2.6	41
14	Promising catalytic performance and shape-selectivity of nitrogen-doped siliceous MFI zeolite for base-catalyzed reactions. <i>Microporous and Mesoporous Materials</i> , 2010, 132, 290-295.	4.4	37
15	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. <i>Microporous and Mesoporous Materials</i> , 2008, 116, 406-415.	4.4	31
16	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
17	Liquid phase alkylation of phenol with 4-hydroxybutan-2-one in the presence of modified zeolite HBEA. <i>Applied Catalysis A: General</i> , 2003, 241, 247-260.	4.3	25
18	Deep-desulfurization of the petroleum diesel using the heterogeneous carboxyl functionalized poly-ionic liquid. <i>Resource-efficient Technologies</i> , 2016, 2, S105-S113.	0.1	23

#	ARTICLE	IF	CITATIONS
19	Light-driven transformation of biomass into chemicals using photocatalysts – Vistas and challenges. Journal of Environmental Management, 2021, 284, 111983.	7.8	23
20	Manifestation of enhanced and durable photocatalytic H ₂ production using hierarchically structured Pt@Co ₃ O ₄ /TiO ₂ ternary nanocomposite. Ceramics International, 2021, 47, 10226-10235.	4.8	22
21	Heterojunction of CdS Nanocapsules–WO ₃ Nanosheets Composite as a Stable and Efficient Photocatalyst for Hydrogen Evolution. Energy & Fuels, 2020, 34, 14598-14610.	5.1	22
22	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
23	Hierarchically structured MFI zeolite monolith prepared using agricultural waste as solid template. Microporous and Mesoporous Materials, 2016, 221, 23-31.	4.4	16
24	Inclusion of low cost activated carbon for improving hydrogen production performance of TiO ₂ nanoparticles under natural solar light irradiation. Ceramics International, 2021, 47, 10216-10225.	4.8	16
25	Facile synthesis of hydrothermally stable mesoporous ZSM-5 zeolite from Al- SBA-16 via steam assisted crystallization. Journal of Porous Materials, 2020, 27, 587-601.	2.6	11
26	In vitro bioactivity and drug release kinetics studies of mesoporous silica-biopolymer composites. Journal of Porous Materials, 2015, 22, 1465-1472.	2.6	10
27	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
28	Levulinic acid – a potential keto acid for producing biofuels and chemicals. , 2020, , 171-197.		6
29	Title is missing!. Catalysis Letters, 2003, 86, 173-177.	2.6	5
30	Study of Carbon Based Solid State EDLCs at High Sweep Rates. ECS Transactions, 2012, 41, 37-49.	0.5	4
31	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
32	Low-cost TiO ₂ -graphitic carbon core/shell nanocomposite for depriving electron, hole recombination. Materials Letters, 2019, 248, 105-108.	2.6	3
33	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
34	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
35	Emerging trends in photocatalytic transformation of biomass-derived glycerol into hydrogen fuel and value-added chemicals. , 2020, , 227-246.		1