

Sreedevi Upadhyayula, U Sridevi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10832714/publications.pdf>

Version: 2024-02-01

36
papers

839
citations

430874

18
h-index

501196

28
g-index

38
all docs

38
docs citations

38
times ranked

1016
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous fixed-bed column study for the removal of nitrate from water using chitosan/alumina composite. <i>Journal of Water Process Engineering</i> , 2016, 12, 58-65.	5.6	71
2	Hydrolysis of microcrystalline cellulose using functionalized Bronsted acidic ionic liquids – A comparative study. <i>Carbohydrate Polymers</i> , 2016, 135, 280-284.	10.2	59
3	An investigation on biosorption of nitrate from water by chitosan based organic-inorganic hybrid biocomposites. <i>International Journal of Biological Macromolecules</i> , 2017, 97, 489-502.	7.5	51
4	Efficient conversion of glucose to HMF using organocatalysts with dual acidic and basic functionalities - A mechanistic and experimental study. <i>Fuel Processing Technology</i> , 2017, 162, 30-36.	7.2	48
5	Alkylation of p-cresol with tert-butyl alcohol using benign Bronsted acidic ionic liquid catalyst. <i>Journal of Molecular Catalysis A</i> , 2010, 321, 34-41.	4.8	40
6	Prediction of crude oil blends compatibility and blend optimization for increasing heavy oil processing. <i>Fuel Processing Technology</i> , 2018, 177, 309-327.	7.2	40
7	Biomass-derived CO ₂ rich syngas conversion to higher hydrocarbon via Fischer-Tropsch process over Fe-Co bimetallic catalyst. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27741-27748.	7.1	38
8	2nd generation biomass derived glucose conversion to 5-hydroxymethylfurfural and levulinic acid catalyzed by ionic liquid and transition metal sulfate: Elucidation of kinetics and mechanism. <i>Journal of Cleaner Production</i> , 2020, 256, 120292.	9.3	38
9	Mesoporous SAPO-5 (MESO-SAPO-5): a potential catalyst for hydroisomerisation of 1-octene. <i>RSC Advances</i> , 2014, 4, 8727.	3.6	34
10	Kinetic studies of sulfuric acid decomposition over Al-Fe ₂ O ₃ catalyst in the sulfur-iodine cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 3586-3594.	7.1	33
11	Hydrothermal conversion of glucose to levulinic acid using multifunctional ionic liquids: effects of metal ion co-catalysts on the product yield. <i>New Journal of Chemistry</i> , 2018, 42, 228-236.	2.8	33
12	Uniform Mesoporous Silicoaluminophosphate Derived by Vapor Phase Treatment: Its Catalytic and Kinetic Studies in Hydroisomerization of 1-Octene. <i>Journal of Physical Chemistry C</i> , 2014, 118, 27961-27972.	3.1	31
13	Synergistic Effect of Fe-Co Bimetallic Catalyst on FTS and WGS Activity in the Fischer-Tropsch Process: A Kinetic Study. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 4659-4671.	3.7	27
14	Synthesis of C ₅ + hydrocarbons from low H ₂ /CO ratio syngas over silica supported bimetallic Fe-Co catalyst. <i>Catalysis Today</i> , 2017, 291, 133-145.	4.4	27
15	Highly efficient alkylation of phenol with tert-butyl alcohol using environmentally benign Bronsted acidic ionic liquids. <i>Applied Catalysis A: General</i> , 2015, 506, 228-236.	4.3	24
16	A machine learning approach to improve ignition properties of high-ash Indian coals by solvent extraction and coal blending. <i>Chemical Engineering Journal</i> , 2021, 413, 127385.	12.7	23
17	Upgrading of HMF and Biomass-Derived Acids into HMF Esters Using Bifunctional Ionic Liquid Catalysts under Solvent Free Conditions. <i>ChemistrySelect</i> , 2018, 3, 6242-6248.	1.5	22
18	Zn-loaded HY zeolite as active catalyst for iso-propylation of biomass-derived phenolic compounds: A comparative study on the effect of acidity and porosity of zeolites. <i>Molecular Catalysis</i> , 2017, 441, 122-133.	2.0	21

#	ARTICLE	IF	CITATIONS
19	Kinetic modeling and simulation of catalyst pellet in the high temperature sulfuric acid decomposition section of Iodine-Sulfur process. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 30850-30864.	7.1	20
20	Synergistic effect of chloro and sulphonic acid groups on the hydrolysis of microcrystalline cellulose under benign conditions. <i>Carbohydrate Polymers</i> , 2017, 159, 146-151.	10.2	18
21	Acetalization of 5-hydroxymethyl furfural into biofuel additive cyclic acetal using protic ionic liquid catalyst- A thermodynamic and kinetic analysis. <i>Renewable Energy</i> , 2021, 167, 282-293.	8.9	18
22	A structure-activity relationship study using DFT analysis of Bronsted-Lewis acidic ionic liquids and synergistic effect of dual acidity in one-pot conversion of glucose to value-added chemicals. <i>New Journal of Chemistry</i> , 2018, 42, 1423-1430.	2.8	15
23	Mechanistic insights into solvent induced alkylation of p-cresol with tert-butyl alcohol using Brønsted acidic ionic liquids. <i>Molecular Catalysis</i> , 2017, 433, 175-184.	2.0	12
24	Insights into enhanced stability and activity of silica modified SiC supported iron oxide catalyst in sulfuric acid decomposition. <i>Applied Catalysis B: Environmental</i> , 2021, 284, 119613.	20.2	12
25	Cellulose conversion to biofuel precursors using conjugated ionic liquid catalyst: An experimental and DFT study. <i>Applied Catalysis A: General</i> , 2021, 610, 117951.	4.3	11
26	A review on the development of supported non-noble metal catalysts for the endothermic high temperature sulfuric acid decomposition step in the Iodine-Sulfur cycle for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 14186-14210.	7.1	10
27	Synthesis of an oxygenated fuel additive from a waste biomass derived aldehyde using a green catalyst: an experimental and DFT study. <i>Sustainable Energy and Fuels</i> , 2020, 4, 2924-2936.	4.9	9
28	Investigation of physical parameters of crude oils and their impact on kinematic viscosity of vacuum residue and heavy product blends for crude oil selection. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 120, 33-42.	5.3	8
29	High temperature sulfuric acid decomposition in iodine-sulfur process –thermodynamics, concentrator and reactor, product separation, materials, and energy analysis. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 34148-34174.	7.1	8
30	Synergistic Bronsted-Lewis Acidity Effect on Upgrading Biomass-Derived Phenolic Compounds: Statistical Optimization of Process Parameters, Kinetic Investigations and DFT Study. <i>ChemistrySelect</i> , 2018, 3, 634-647.	1.5	7
31	Thermodynamic Insights into Valorization of Biomass-Derived Oxygenates and Reconciliation with Experimental Study. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 2197-2210.	1.9	7
32	Mechanistic insights into upgrading of biomass-derived phenolic compounds: Comparative study of the impact of Lewis acidity in Zn loaded FAU zeolite on reaction mechanism. <i>Chemical Engineering Journal</i> , 2019, 377, 120236.	12.7	6
33	Effect of linkers (aliphatic/ aromatic) and anions on the activity of sulfonic acid functionalized ionic liquids towards catalyzing the hydrolysis of microcrystalline cellulose-an experimental and theoretical study. <i>Renewable Energy</i> , 2018, 121, 590-596.	8.9	5
34	Framework development and modeling of the thermodynamics for aqueous sulfuric acid decomposition. <i>Journal of Molecular Liquids</i> , 2019, 291, 111215.	4.9	5
35	Evaluation of materials of construction for the sulfuric acid decomposition section in the sulfur-iodine (S-I) cycle for hydrogen production: Some preliminary studies on selected materials. <i>Journal of Chemical Sciences</i> , 2019, 131, 1.	1.5	5
36	Deciphering Mn modulated structure-activity interplay and rational statistical analysis for CO ₂ rich syngas hydrogenation to clean methanol. <i>Journal of Cleaner Production</i> , 2022, 340, 130794.	9.3	3