

Sunil K Maity

List of Publications by Year in descending order

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42
papers

1,213
citations

516215

16
h-index

377514

34
g-index

42
all docs

42
docs citations

42
times ranked

1364
citing authors

#	ARTICLE	IF	CITATIONS
1	Advances in the conversion of methanol to gasoline. , 2022, , 177-200.		3
2	Hydrocarbon biorefinery: A sustainable approach. , 2022, , 1-44.		2
3	Hydrodeoxygenation of triglycerides for the production of green diesel: Role of heterogeneous catalysis. , 2022, , 97-126.		1
4	Dual liquidâ€“liquid extraction versus distillation for the production of bio-butanol from corn, sugarcane, and lignocellulose biomass: A techno-economic analysis using pinch technology. Fuel, 2022, 312, 122932.	3.4	18
5	Production of jet fuel-range hydrocarbon biofuel by hydroxyalkylationâ€“alkylation of furfural with 2-methylfuran and hydrodeoxygenation of C ₁₅ fuel precursor over a Ni/Î³-Al ₂ O ₃ catalyst: a reaction mechanism. Energy Advances, 2022, 1, 99-112.	1.4	2
6	Techno-Economic Analysis for the Production of 2,3-Butanediol from Brewersâ€™ Spent Grain Using Pinch Technology. Industrial & Engineering Chemistry Research, 2022, 61, 2195-2205.	1.8	13
7	Technological Advancements in the Production of Green Diesel from Biomass. Advances in Sustainability Science and Technology, 2022, , 219-248.	0.4	2
8	Biomass, biorefinery, and biofuels. , 2021, , 51-87.		6
9	Role of CeO ₂ /ZrO ₂ mole ratio and nickel loading for steam reforming of n-butanol using Niâ€“CeO ₂ â€“ZrO ₂ â€“SiO ₂ composite catalysts: A reaction mechanism. International Journal of Hydrogen Energy, 2021, 46, 7320-7335.	3.8	14
10	Techno-economic Analysis for Production of Biodiesel and Green Diesel from Microalgal Oil. Springer Proceedings in Energy, 2021, , 1465-1475.	0.2	0
11	Hydrodeoxygenation of karanja oil using ordered mesoporous nickel-alumina composite catalysts. Catalysis Today, 2020, 348, 45-54.	2.2	16
12	Hydrodeoxygenation of stearic acid using Mo modified Ni and Co/alumina catalysts: Effect of calcination temperature. Chemical Engineering Communications, 2020, 207, 904-919.	1.5	19
13	Production of Aromatics from n-Butanol over HZSM-5, H ₂ , and Î³-Al ₂ O ₃ : Role of Silica/Alumina Mole Ratio and Effect of Pressure. ACS Sustainable Chemistry and Engineering, 2020, 8, 15230-15242.	3.2	13
14	Near-Room-Temperature Synthesis of Sulfonated Carbon Nanoplates and Their Catalytic Application. ACS Sustainable Chemistry and Engineering, 2019, 7, 12707-12717.	3.2	18
15	Production of green diesel from karanja oil (Pongamia pinnata) using mesoporous NiMo-alumina composite catalysts. Bioresource Technology Reports, 2019, 7, 100288.	1.5	20
16	Techno-economic evaluation of two alternative processes for production of green diesel from karanja oil: A pinch analysis approach. Journal of Renewable and Sustainable Energy, 2019, 11, .	0.8	20
17	Role of NiMo Alloy and Ni Species in the Performance of NiMo/Alumina Catalysts for Hydrodeoxygenation of Stearic Acid: A Kinetic Study. ACS Omega, 2019, 4, 2833-2843.	1.6	34
18	Biorefinery Polyutilization Systems: Production of Green Transportation Fuels From Biomass. , 2019, , 373-407.		10

#	ARTICLE	IF	CITATIONS
19	Etherification of Glycerol with Ethanol over Solid Acid Catalysts: Kinetic Study Using Cation Exchange Resin. <i>Indian Chemical Engineer</i> , 2017, 59, 117-135.	0.9	10
20	Reaction mechanism and kinetic modeling for the hydrodeoxygenation of triglycerides over alumina supported nickel catalyst. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017, 120, 109-128.	0.8	27
21	Conversion of n- butanol to gasoline range hydrocarbons, butylenes and aromatics. <i>Applied Catalysis A: General</i> , 2016, 526, 28-36.	2.2	25
22	Hydrodeoxygenation of karanja oil over supported nickel catalysts: influence of support and nickel loading. <i>Catalysis Science and Technology</i> , 2016, 6, 3156-3165.	2.1	48
23	Roles of supports (γ -Al ₂ O ₃ , SiO ₂ , ZrO ₂) and performance of metals (Ni, Co, Mo) in steam reforming of isobutanol. <i>RSC Advances</i> , 2015, 5, 52522-52532.	1.7	30
24	Oxidative steam reforming of isobutanol over Ni/ γ -Al ₂ O ₃ catalysts: A comparison with thermodynamic equilibrium analysis. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 27, 153-163.	2.9	15
25	Opportunities, recent trends and challenges of integrated biorefinery: Part I. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 43, 1427-1445.	8.2	338
26	Opportunities, recent trends and challenges of integrated biorefinery: Part II. <i>Renewable and Sustainable Energy Reviews</i> , 2015, 43, 1446-1466.	8.2	134
27	Kinetics of hydrodeoxygenation of stearic acid using supported nickel catalysts: Effects of supports. <i>Applied Catalysis A: General</i> , 2014, 471, 28-38.	2.2	159
28	Kinetics of hydrodeoxygenation of octanol over supported nickel catalysts: a mechanistic study. <i>RSC Advances</i> , 2014, 4, 41612-41621.	1.7	26
29	Steam reforming of isobutanol for the production of synthesis gas over Ni/ γ -Al ₂ O ₃ catalysts. <i>RSC Advances</i> , 2013, 3, 24521.	1.7	22
30	Thermodynamic evaluation of dry reforming of vegetable oils for production of synthesis gas. <i>Journal of Renewable and Sustainable Energy</i> , 2012, 4, 043120.	0.8	7
31	Correlation of solubility of single gases/hydrocarbons in polyethylene using PC-SAFT. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2012, 7, 406-417.	0.8	10
32	Reforming of vegetable oil for production of hydrogen: A thermodynamic analysis. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 11666-11675.	3.8	35
33	Kinetic Modeling of Esterification of Ethylene Glycol with Acetic Acid. , 2010, , .		1
34	A new mechanistic model for liquid-liquid phase transfer catalysis: Reaction of benzyl chloride with aqueous ammonium sulfide. <i>Chemical Engineering Science</i> , 2009, 64, 4365-4374.	1.9	13
35	Reduction of p-nitrotoluene by aqueous ammonium sulfide: Anion exchange resin as a triphasic catalyst. <i>Chemical Engineering Journal</i> , 2008, 141, 187-193.	6.6	10
36	Kinetics of phase transfer catalyzed reduction of nitrochlorobenzenes by aqueous ammonium sulfide: Utilization of hydrotreater off-gas for the production of value-added chemicals. <i>Applied Catalysis B: Environmental</i> , 2008, 77, 418-426.	10.8	9

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37	$\frac{1}{1 + \frac{K_1}{K_2} \frac{[C]}{[A]}}$ <p>Reduction of nitrobenzene by aqueous ammonium sulfide under liquid phase transfer catalysis. Applied Catalysis A: General, 2006, 301, 251-258.</p>	1.9	7
38	Kinetics of Reduction of Nitrotoluenes by H ₂ S-Rich Aqueous Ethanolamine. Industrial & Engineering Chemistry Research, 2006, 45, 7767-7774.	1.8	11
39	Kinetics of the reduction of nitrotoluenes by aqueous ammonium sulfide under liquid phase transfer catalysis. Applied Catalysis A: General, 2006, 301, 251-258.	2.2	30
40	Reaction of benzyl chloride with ammonium sulfide under liquid phase transfer catalysis: Reaction mechanism and kinetics. Journal of Molecular Catalysis A, 2006, 250, 114-121.	4.8	10
41	Alkylation of toluene with isopropyl alcohol catalyzed by Ce-exchanged NaX zeolite. Chemical Engineering Journal, 2005, 114, 39-45.	6.6	17
42	Experimental Measurement and Model Based Inferencing of Solubility of Polyethylene in Xylene. Journal of Chemical Engineering of Japan, 2004, 37, 1427-1435.	0.3	8