A COMET'S CHEMICAL COMPOSITION

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#	Paper	IF	Citations
47	One-pot electrocatalytic oxidation of glycerol to DHA. *Tetrahedron Letters*, **2006**, 47, 6993-6995	2	96
46	Anaerobic fermentation of glycerol by Escherichia coli: a new platform for metabolic engineering. *Biotechnology and Bioengineering*, **2006**, 94, 821-9	4.9	313
45	Anharmonic properties of the vibrational quantum computer. *Journal of Chemical Physics*, **2007**, 126, 204102	3.9	30
44	Green chemistry: the emergence of a transformative framework. *Green Chemistry Letters and Reviews*, **2007**, 1, 9-24	4.7	69
43	Acidic Mesoporous Silica for the Acetylation of Glycerol: Synthesis of Bioadditives to Petrol Fuel. *Energy & Fuels*, **2007**, 21, 1782-1791	4.1	219
42	Chemoselective catalytic conversion of glycerol as a biorenewable source to valuable commodity chemicals. *Chemical Society Reviews*, **2008**, 37, 527-49	58.5	1330
41	A General Strategy for the Design of New Solid Catalysts for Environmentally Benign Conversions. *Topics in Catalysis*, **2009**, 52, 1630-1639	2.3	27
40	Synthesis and Stabilization of Novel Aliphatic Polycarbonate from Renewable Resource. *Macromolecules*, **2009**, 42, 9251-9254	5.5	43
39	Dehydratisierung von Glycerin zu Acrolein in der Gasphase an getr□gerten Heteropolys□ure-Katalysatoren. *Chemie-Ingenieur-Technik*, **2010**, 82, 1203-1210	0.8	6
38	In situ nitrogen enriched carbon for carbon dioxide capture. *Carbon*, **2010**, 48, 396-402	10.4	121
37	Platensimycin and platencin: promising antibiotics for future application in human medicine. *Journal of Antibiotics*, **2011**, 64, 705-10	3.7	58
36	Hydroxylated magnesium fluorides as environmentally friendly catalysts for glycerol acetylation. *Applied Catalysis B: Environmental*, **2011**, 107, 260-267	21.8	46
35	Cyclopentadienyl and pentamethylcyclopentadienyl ruthenium complexes as catalysts for the total deoxygenation of 1,2-hexanediol and glycerol. *Green Chemistry*, **2011**, 13, 357-366	10	32
34	The energy balance of soybean biodiesel in Brazil: a case study. *Biofuels, Bioproducts and Biorefining* , **2011**, 5, 185-197	5.3	27
33	Influence of alkaline metal on performance of supported silicotungstic acid catalysts in glycerol dehydration towards acrolein. *Applied Catalysis A: General*, **2011**, 393, 331-339	5.1	70
32	Direct catalytic conversion of glycerol to liquid-fuel classes over Ir□e supported on W-doped mesostructured silica. *Applied Catalysis A: General*, **2012**, 449, 163-171	5.1	5
31	Tuning of diglycerol yield and isomer distribution in oligomerization of glycerol supported by DFT-calculations. *Catalysis Communications*, **2012**, 25, 130-135	3.2	24

30	Bioconversion of glycerol to ethanol by a mutant Enterobacter aerogenes. *AMB Express*, **2012**, 2, 20	4.1	26
29	Metabolically engineered Escherichia coli as a tool for the production of bioenergy and biochemicals from glycerol. *Biotechnology and Bioprocess Engineering*, **2012**, 17, 671-678	3.1	19
28	Characterization of crude glycerol from biodiesel plants. *Journal of Agricultural and Food Chemistry*, **2012**, 60, 5915-21	5.7	187
27	Optimization of culture conditions for 1,3-propanediol production from glycerol using a mutant strain of Klebsiella pneumoniae. *Applied Biochemistry and Biotechnology*, **2012**, 166, 127-37	3.2	29
26	Biotechnological conversion of glycerol to 2-amino-1,3-propanediol (serinol) in recombinant Escherichia coli. *Applied Microbiology and Biotechnology*, **2012**, 93, 357-65	5.7	11
25	Effect of crude glycerol-derived inhibitors on ethanol production by Enterobacter aerogenes. *Bioprocess and Biosystems Engineering*, **2012**, 35, 85-92	3.7	27
24	Optimization of cultural conditions for conversion of glycerol to ethanol by Enterobacter aerogenes S012. *AMB Express*, **2013**, 3, 12	4.1	13
23	Enrichment of activated sludge for enhanced hydrogen production from crude glycerol. *International Journal of Hydrogen Energy*, **2013**, 38, 1319-1331	6.7	39
22	Wet oxidation of glycerol into fine organic acids: catalyst selection and kinetic evaluation. *Brazilian Journal of Chemical Engineering*, **2014**, 31, 913-923	1.7	15
21	Polyols and polyurethane foams from acid-catalyzed biomass liquefaction by crude glycerol: Effects of crude glycerol impurities. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	11
20	Microbial Conversion of Crude Glycerol to Dihydroxyacetone. *Waste and Biomass Valorization*, **2014**, 5, 781-787	3.2	6
19	Enhanced CO2 capture in Fe3O4-graphene nanocomposite by physicochemical adsorption. *Journal of Applied Physics*, **2014**, 116, 064306	2.5	32
18	Experimental and modelling studies of carbon dioxide adsorption by porous biomass derived activated carbon. *Clean Technologies and Environmental Policy*, **2014**, 16, 1353-1361	4.3	59
17	Isocyanate- and phosgene-free routes to polyfunctional cyclic carbonates and green polyurethanes by fixation of carbon dioxide. *Macromolecular Rapid Communications*, **2014**, 35, 1238-54	4.8	215
16	Preparation of lignin/glycerol-based bis(cyclic carbonate) for the synthesis of polyurethanes. *Green Chemistry*, **2015**, 17, 4546-4551	10	63
15	Selective electro-oxidation of glycerol over Au supported on extended poly(4-vinylpyridine) functionalized graphene. *Applied Catalysis B: Environmental*, **2015**, 166-167, 25-31	21.8	14
14	Jatropha and Karanja oil derived DMCBiodiesel synthesis: A kinetics study. *Fuel*, **2015**, 140, 597-608	7.1	60
13	Alcohol-treated SiO2 as the support of Ir-Re/SiO2 catalysts for glycerol hydrogenolysis. *Chinese Journal of Catalysis*, **2016**, 37, 2009-2017	11.3	14

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10	Environmentally Friendly Coatings. **2016**, 183-223		4
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8	Selective hydrogenolysis of glycerol to 1,3-propanediol over egg-shell type IrReOx catalysts. *RSC Advances*, **2016**, 6, 13600-13608	3.7	25
7	Continuous fermentation and kinetic experiments for the conversion of crude glycerol derived from second-generation biodiesel into 1,3 propanediol and butyric acid. *Biochemical Engineering Journal*, **2017**, 128, 149-161	4.2	29
6	Dehydrogenation of alcohols and polyols from a hydrogen production perspective. *ChemistrySelect*, **2018**, 3,	1.8	1
5	Preparation, characterization, and catalytic behavior of xMO/yNaZSM-5 catalyst for dichlorohydrin dechlorination reaction. *Asia-Pacific Journal of Chemical Engineering*, **2018**, 13, e2194	1.3	1
4	Carbon Dioxide Capture by Deep Eutectic Solvent Impregnated Sea Mango Activated Carbon. *E3S Web of Conferences*, **2018**, 34, 02030	0.5	2
3	Oxidation of bio-renewable glycerol to value-added chemicals through catalytic and electro-chemical processes. *Applied Energy*, **2018**, 230, 1347-1379	10.7	36
2	Characterization analysis of activated carbon derived from the carbonization process of plane tree (Platanus orientalis) seeds. *Energy and Environment*, **2020**, 31, 583-612	2.4	3
1	Glycerol as Carbon Source for Production of Added-Value Compounds. **2017**, 93-123		3