Catalysts for the Production of Fine Chemicals

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Citation Report

#	Article	IF	Citations
1	Base-functionalized MCM-41 as catalysts for the synthesis of monoglycerides. Journal of Molecular Catalysis A, 1999, 150, 287-294.	4.8	55
2	Mesoporous Sulfonic Acids as Selective Heterogeneous Catalysts for the Synthesis of Monoglycerides. Journal of Catalysis, 1999, 182, 156-164.	6.2	307
3	Synthesis and characterization of a novel Mg/In layered double hydroxide. Journal of Materials Chemistry, 1999, 9, 2291-2292.	6.7	15
4	Calcined Layered Double Hydroxides as Basic Heterogeneous Catalysts for the Oppenauer Oxidation of Alcohols. Bulletin of the Chemical Society of Japan, 1999, 72, 2117-2119.	3.2	14
5	Technische Chemie 1998. Nachrichten Aus Der Chemie, 1999, 47, 303-312.	0.0	0
6	New Aspects of Knoevenagel Condensation and Michael Addition Reactions on Alkaline Carbonates. Chemistry Letters, 2000, 29, 574-575.	1.3	14
7	Selective synthesis of glycerol monolaurate with zeolitic molecular sieves. Applied Catalysis A: General, 2000, 203, 321-328.	4.3	85
8	Heterogeneized BrÃ¶nsted base catalysts for fine chemicals production: grafted quaternary organic ammonium hydroxides as catalyst for the production of chromenes and coumarins. Applied Catalysis A: General, 2000, 194-195, 241-252.	4.3	79
9	Basic Properties of the Mixed Oxides Obtained by Thermal Decomposition of Hydrotalcites Containing Different Metallic Compositions. Journal of Catalysis, 2000, 189, 370-381.	6.2	173
10	Combined Alkyl and Sulfonic Acid Functionalization of MCM-41-Type Silica. Journal of Catalysis, 2000, 193, 283-294.	6.2	260
11	Hydrotalcite-like anionic clays in catalytic organic reactions. Catalysis Reviews - Science and Engineering, 2001, 43, 443-488.	12.9	449
12	Transesterification of rapeseed oil in the presence of basic zeolites and related solid catalysts. JAOCS, Journal of the American Oil Chemists' Society, 2001, 78, 1161-1165.	1.9	179
13	Temperature programmed desorption of toluene, p-xylene, mesitylene and naphthalene on Naâ€“AlSiâ€“MCM-41 and Hâ€“AlSiâ€“MCM-41. Microporous and Mesoporous Materials, 2001, 46, 47-55.	4.4	8
14	Base catalysis on microporous and mesoporous materials: recent progress and perspectives. Microporous and Mesoporous Materials, 2001, 48, 255-270.	4.4	242
15	Catalytic transfer hydrogenation of citral on calcined layered double hydroxides. Applied Catalysis A: General, 2001, 206, 95-101.	4.3	59
16	Structure and basicity of Î³-Al2O3-supported MgO and its application to mercaptan oxidation. Applied Catalysis A: General, 2001, 219, 69-78.	4.3	67
17	Perspectives in catalytic applications of mesostructured materials. Applied Catalysis A: General, 2001, 222, 299-357.	4.3	374
18	Cycloaddition of CO2 to Epoxides over Solid Base Catalysts. Journal of Catalysis, 2001, 199, 85-91.	6.2	245

#	Article	IF	Citations
19	Al-MCM-41 Supported Magnesium Oxide as Catalyst for Synthesis of Î±-Pentylcinnamaldehyde. Catalysis Letters, 2001, 77, 165-169.	2.6	23
20	Synthesis, characterisation and catalytic activity of SO3H-phenyl-MCM-41 materials. Studies in Surface Science and Catalysis, 2002, 142, 1275-1282.	1.5	19
21	Hydrotalcites as sorbent for 2,4,6-trinitrophenol: influence of the layer composition and interlayer anion. Journal of Materials Chemistry, 2002, 12, 1027-1034.	6.7	73
23	The first example of bromination of aromatic compounds with unprecedented atom economy using molecular bromine. Applied Catalysis A: General, 2003, 251, 397-409.	4.3	42
24	Catalytic hydrogen transfer from 2-propanol to cyclohexanone over basic Mgâ€“Al oxides. Applied Catalysis A: General, 2003, 255, 301-308.	4.3	47
25	Catalytic Properties of Hydrotalcite-Type Anionic Clays. Interface Science and Technology, 2004, 1, 496-546.	3.3	18
26	Esterification and Transesterification of Renewable Chemicals. Topics in Catalysis, 2004, 27, 83-96.	2.8	236
27	Solid Catalysts for the Synthesis of Fatty Esters of Glycerol, Polyglycerols and Sorbitol from Renewable Resources. Topics in Catalysis, 2004, 27, 105-117.	2.8	78
28	Base Catalysis in the Synthesis of Fine Chemicals. Topics in Catalysis, 2004, 29, 189-196.	2.8	108
29	Catalytic etherification of sucrose with 1,2-epoxydodecane: investigation of homogeneous and heterogeneous catalysts. Comptes Rendus Chimie, 2004, 7, 151-160.	0.5	19
30	An investigation of Knoevenagel condensation reaction in microreactors using a new zeolite catalyst. Applied Catalysis A: General, 2004, 261, 109-118.	4.3	196
31	Alkali-exchanged sepiolites containing palladium as bifunctional (basic sites and noble metal) catalysts for the Heck and Suzuki reactions. Applied Catalysis A: General, 2004, 257, 77-83.	4.3	83
32	Physico-chemical and catalytic properties of Ruâ€“MCM-41 mesoporous molecular sieve catalyst: influence of Ru modification methods. Microporous and Mesoporous Materials, 2004, 69, 173-179.	4.4	27
33	Heterogeneous basic catalysts for the transesterification and the polycondensation reactions in PET production from DMT. Journal of Molecular Catalysis A, 2004, 212, 251-257.	4.8	31
34	Transesterification of soybean oil with zeolite and metal catalysts. Applied Catalysis A: General, 2004, 257, 213-223.	4.3	482
35	Hydrotalcites as precursors for Mg,Al-mixed oxides used as catalysts on the aldol condensation of citral with acetone. Applied Catalysis A: General, 2004, 272, 229-240.	4.3	58
36	Structure and surface chemistry of manganese-doped copper-based mixed metal oxides derived from layered double hydroxides. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2004, 244, 169-177.	4.7	135
37	â€œOne potâ€•and selective synthesis of monoglycerides over homogeneous and heterogeneous guanidine catalysts. Green Chemistry, 2004, 6, 72-74.	9.0	47

#	Article	IF	Citations
38	CATALYSIS INVOLVING MESOPOROUS MOLECULAR SIEVE. Series on Chemical Engineering, 2004, , 649-693.	0.2	3
39	Handbook of Layered Materials. , 2004, , .		230
40	Transesterification of triacetin with methanol on solid acid and base catalysts. Applied Catalysis A: General, 2005, 295, 97-105.	4.3	489
41	Synthesis of [Znâ€“Alâ€“CO3] layered double hydroxides by a coprecipitation method under steady-state conditions. Journal of Solid State Chemistry, 2005, 178, 2766-2777.	2.9	86
42	Ordered mesoporous materials in catalysis. Microporous and Mesoporous Materials, 2005, 77, 1-45.	4.4	1,976
43	Catalytic application of sulfonic acid functionalized mesoporous benzeneâ€“silica with crystal-like pore wall structure in esterification. Journal of Molecular Catalysis A, 2005, 230, 85-89.	4.8	103
44	Lewis and BrÃ¶nsted basic active sites on solid catalysts and their role in the synthesis of monoglycerides. Journal of Catalysis, 2005, 234, 340-347.	6.2	200
45	Solid base and their performance in synthesis of propylene glycol methyl ether. Journal of Molecular Catalysis A, 2005, 231, 83-88.	4.8	54
46	Selective transesterification of triolein with methanol to methyl oleate and glycerol using alumina loaded with alkali metal salt as a solid-base catalyst. Applied Catalysis A: General, 2005, 283, 111-116.	4.3	184
47	Influence of the alkyl chain length of HSO3-R-MCM-41 on the esterification of glycerol with fatty acids. Microporous and Mesoporous Materials, 2005, 80, 33-42.	4.4	74
48	Design of well balanced hydrophilicâ€“lipophilic catalytic surfaces for the direct and selective monoesterification of various polyols. New Journal of Chemistry, 2005, 29, 928.	2.8	17
49	Optimization of Alkaline Earth Metal Oxide and Hydroxide Catalysts for Base-Catalyzed Reactions. Advances in Catalysis, 2006, 49, 239-302.	0.2	82
50	Advances in the Synthesis and Catalytic Applications of Organosulfonic-Functionalized Mesostructured Materials. Chemical Reviews, 2006, 106, 3790-3812.	47.7	443
51	Facile and regioselective mono- or diesterification of glycerol derivatives over recyclable phosphazene organocatalyst. Green Chemistry, 2006, 8, 710-716.	9.0	13
52	Chemicals from biomass derived products: synthesis of polyoxyethyleneglycol esters from fatty acid methyl esters with solid basic catalysts. Green Chemistry, 2006, 8, 524.	9.0	26
53	Transesterification: Salol synthesis over solid acids. Catalysis Communications, 2006, 7, 593-599.	3.3	18
54	Preparation, characterisation of molybdophosphoric and tungstophosphoric acid intercalated zinc aluminium hydrotalcite-like compounds and their catalytic evaluation towards the oxidative bromination of phenol. Catalysis Communications, 2006, 7, 913-919.	3.3	12
55	Transesterification of Soybean Oil to Biodiesel by Using Heterogeneous Basic Catalysts. Industrial & Engineering Chemistry Research, 2006, 45, 3009-3014.	3.7	378

#	Article	IF	Citations
57	Base-Type Catalysis. , 2006, , 171-205.		4
58	Spatially resolved observation of crystal-face-dependent catalysis by single turnover counting. Nature, 2006, 439, 572-575.	27.8	434
59	Novel solid basic catalysts by nitridation of zeolite beta at low temperature. Microporous and Mesoporous Materials, 2006, 90, 377-383.	4.4	53
60	Influence of nature of precursors on the formation and structure of Cuâ€“Niâ€“Cr mixed oxides from layered double hydroxides. Journal of Physics and Chemistry of Solids, 2006, 67, 1678-1686.	4.0	35
61	Synthesis of Transportation Fuels from Biomass:Â Chemistry, Catalysts, and Engineering. Chemical Reviews, 2006, 106, 4044-4098.	47.7	6,799
62	Extension of the modified Sanderson method to ternary mixed oxides derived from hydrotalcite-like compounds and its correlation to CO2 (TPD-CO2) desorption peak maxima. Journal of Mathematical Chemistry, 2006, 39, 541-549.	1.5	4
63	Conversion of oils and fats using advanced mesoporous heterogeneous catalysts. JAOCS, Journal of the American Oil Chemists' Society, 2006, 83, 79-91.	1.9	141
64	Kinetics of heterogeneously MgO-catalyzed transesterification. Applied Catalysis B: Environmental, 2006, 62, 35-45.	20.2	190
65	Simulation of heterogeneously MgO-catalyzed transesterification for fine-chemical and biodiesel industrial production. Applied Catalysis B: Environmental, 2006, 67, 136-148.	20.2	217
66	Transesterification of karanja(Pongamia pinnata) oil by solid basic catalysts. European Journal of Lipid Science and Technology, 2006, 108, 389-397.	1.5	176
67	Synthesis of Pt-modified MCM-41 mesoporous molecular sieve catalysts: influence of methods of Pt introduction in MCM-41 on physico-chemical and catalytic properties for ring opening of decalin. Studies in Surface Science and Catalysis, 2006, , 401-408.	1.5	6
68	Control of the basic sites strength by adjusting the active species dispersion. Studies in Surface Science and Catalysis, 2006, 162, 283-290.	1.5	0
70	Chemical Routes for the Transformation of Biomass into Chemicals. Chemical Reviews, 2007, 107, 2411-2502.	47.7	5,297
71	Recent Progress in Synthesis of Fine and Specialty Chemicals from Wood and Other Biomass by Heterogeneous Catalytic Processes. Catalysis Reviews - Science and Engineering, 2007, 49, 197-340.	12.9	250
72	Process options for converting renewable feedstocks to bioproducts. Green Chemistry, 2007, 9, 295.	9.0	180
73	Synthesis of Pt modified ZSM-5 and beta zeolite catalysts: Influence of ultrasonic irradiation and preparation methods on physico-chemical and catalytic properties in pentane isomerization. Ultrasonics Sonochemistry, 2007, 14, 122-130.	8.2	39
74	Transesterification of poultry fat with methanol using Mgâ€“Al hydrotalcite derived catalysts. Applied Catalysis A: General, 2007, 331, 138-148.	4.3	226
75	Transesterification of soybean oil with nano-MgO or not in supercritical and subcritical methanol. Fuel, 2007, 86, 328-333.	6.4	222

#	Article	IF	Citations
76	Transesterification of triacetin using solid BrÃ¸nsted bases. Journal of Catalysis, 2007, 246, 428-433.	6.2	73
77	Rice bran lipase catalyzed esterification of palm oil fatty acid distillate and glycerol in organic solvent. Biotechnology and Bioprocess Engineering, 2007, 12, 250-256.	2.6	17
78	Biodiesel production from soybean oil using calcined Liâ€“Al layered double hydroxide catalysts. Catalysis Letters, 2007, 115, 56-61.	2.6	81
79	Catalytic routes from renewables to fine chemicals. Catalysis Today, 2007, 121, 76-91.	4.4	247
80	Liquid phase transesterification of methyl salicylate and phenol over solid acids: Kinetic studies. Journal of Molecular Catalysis A, 2007, 273, 55-63.	4.8	28
81	High Surface Area MgO as a Highly Effective Heterogeneous Base Catalyst for Three-Component Synthesis of Tetrahydrobenzopyran and 3,4-Dihydropyrano[c]chromene Derivatives in Aqueous Media. Catalysis Letters, 2008, 126, 275-279.	2.6	188
82	Rational Design of Solid Catalysts for the Selective Use of Glycerol as a Natural Organic Building Block. ChemSusChem, 2008, 1, 586-613.	6.8	208
83	Design of new solid catalysts for the selective conversion of glycerol. European Journal of Lipid Science and Technology, 2008, 110, 825-830.	1.5	51
84	A life-cycle comparison between inorganic and biological catalysis for the production of biodiesel. Journal of Cleaner Production, 2008, 16, 1368-1378.	9.3	137
85	Biodiesel synthesis using calcined layered double hydroxide catalysts. Applied Catalysis B: Environmental, 2008, 82, 120-130.	20.2	149
86	Preparation and characterization of polyurethane foams using a palm oil-based polyol. Bioresource Technology, 2008, 99, 3810-3816.	9.6	165
87	Alkaline and alkaline-earth metals compounds as catalysts for the methanolysis of sunflower oil. Catalysis Today, 2008, 133-135, 305-313.	4.4	152
88	Transesterification of soybean oil with methanol catalyzed by basic solids. Catalysis Today, 2008, 133-135, 548-554.	4.4	115
89	CaO supported on mesoporous silicas as basic catalysts for transesterification reactions. Applied Catalysis A: General, 2008, 334, 35-43.	4.3	281
90	Transesterification of sunflower oil over zeolites using different metal loading: A case of leaching and agglomeration studies. Applied Catalysis A: General, 2008, 346, 79-85.	4.3	153
91	MgM (M=Al and Ca) oxides as basic catalysts in transesterification processes. Applied Catalysis A: General, 2008, 347, 162-168.	4.3	86
92	Advancements in development and characterization of biodiesel: A review. Fuel, 2008, 87, 2355-2373.	6.4	918
93	Chemoselective catalytic conversion of glycerol as a biorenewable source to valuable commodity chemicals. Chemical Society Reviews, 2008, 37, 527-549.	38.1	1,493

#	Article	IF	Citations
94	Room-Temperature Transesterification of Edible and Nonedible Oils Using a Heterogeneous Strong Basic Mg/La Catalyst. Energy & Fuels, 2008, 22, 1965-1971.	5.1	109
95	Sunflower and rapeseed oil transesterification to biodiesel over different nanocrystalline MgO catalysts. Green Chemistry, 2008, 10, 373-381.	9.0	238
96	Study on catalytic pyrolysis of polystyrene over base modified silicon mesoporous molecular sieve. Catalysis Communications, 2008, 9, 1132-1136.	3.3	44
97	Transesterification of Palm Oil with Methanol to Biodiesel over a KF/Hydrotalcite Solid Catalyst. Energy & Fuels, 2008, 22, 3531-3535.	5.1	80
98	Environmentally Benign Route for the Synthesis of Polycarbonate Diols (PCDLs)â˜'Calcined MgAl Hydrotalcites as Heterogeneous Catalysts. Industrial & Engineering Chemistry Research, 2008, 47, 2140-2145.	3.7	25
99	Transesterification of Glycerides Using a Heterogeneous Resin Catalyst Combined with a Homogeneous Catalyst. Energy & Fuels, 2008, 22, 3594-3599.	5.1	35
101	SÃntesis y caracterizaciÃ³n de espumas flexibles de poliuretano obtenidas a partir de aceite de castor maleinizado. Polimeros, 2009, 19, 149-154.	0.7	8
102	Catalytic upgrading of tri-glycerides and fatty acids to transport biofuels. Energy and Environmental Science, 2009, 2, 262-271.	30.8	121
103	Transesterification of vegetable oils on basic large mesoporous alumina supported alkaline fluoridesâ€"Evidences of the nature of the active site and catalytic performances. Journal of Catalysis, 2009, 263, 56-66.	6.2	106
104	Grain boundary control in nanocrystalline MgO as a novel means for significantly enhancing surface basicity and catalytic activity. Journal of Catalysis, 2009, 263, 196-204.	6.2	55
105	Exploring, Tuning, and Exploiting the Basicity of Hydrotalcites for Applications in Heterogeneous Catalysis. Chemistry - A European Journal, 2009, 15, 3920-3935.	3.3	450
106	Catalytic Applications in the Production of Biodiesel from Vegetable Oils. ChemSusChem, 2009, 2, 278-300.	6.8	282
107	Transforming Triglycerides and Fatty Acids into Biofuels. ChemSusChem, 2009, 2, 1109-1119.	6.8	232
108	Heterogeneous Base Catalysts for Transesterification in Biodiesel Synthesis. Catalysis Surveys From Asia, 2009, 13, 63-77.	2.6	197
109	Transformation of Vegetable Oils into Hydrocarbons over Mesoporous-Alumina-Supported CoMo Catalysts. Topics in Catalysis, 2009, 52, 161-168.	2.8	161
110	Towards a Phosgene-Free Synthesis of Aryl Isocyanates: Alcoholysis of N-phenylurea to N-phenyl-O-methyl Carbamate Promoted by Basic Metal Oxide Nanoparticles and Organocatalysts. Topics in Catalysis, 2009, 52, 1688-1695.	2.8	27
111	Transesterification of ethyl butyrate with methanol using MgO/CaO catalysts. Journal of Molecular Catalysis A, 2009, 300, 19-24.	4.8	68
112	Transesterification of soybean frying oil to biodiesel using heterogeneous catalysts. Fuel Processing Technology, 2009, 90, 671-676.	7.2	153

#	Article	IF	Citations
113	Transesterification of rapeseed oil for the production of biodiesel using homogeneous and heterogeneous catalysis. Fuel Processing Technology, 2009, 90, 1016-1022.	7.2	137
114	Pd nanoparticles immobilized on sepiolite by ionic liquids: efficient catalysts for hydrogenation of alkenes and Heck reactions. Green Chemistry, 2009, 11, 96-101.	9.0	89
115	Biodiesel Production from Waste Oil Using Mgâ^'Al Layered Double Hydroxide Catalysts. Energy & Fuels, 2009, 23, 2952-2958.	5.1	85
116	Hydrolysis of Triglycerides Using Solid Acid Catalysts. Industrial & Engineering Chemistry Research, 2009, 48, 4757-4767.	3.7	79
117	Three-Component Synthesis of Pyrimidine and Pyrimidinone Derivatives in the Presence of High-Surface-Area MgO, a Highly Effective Heterogeneous Base Catalyst. Synthetic Communications, 2009, 39, 1055-1064.	2.1	39
118	Placing microalgae on the biofuels priority list: a review of the technological challenges. Journal of the Royal Society Interface, 2010, 7, 703-726.	3.4	680
119	Biomass upgrading through acidâ€"base catalysis. Chemical Engineering Journal, 2010, 161, 314-322.	12.7	87
120	Clean synthesis of biodiesel over solid acid catalysts of sulfonated mesopolymers. Science China Chemistry, 2010, 53, 1481-1486.	8.2	18
121	Vapour phase synthesis of salol over solid acids via transesterification. Journal of Chemical Sciences, 2010, 122, 193-201.	1.5	6
122	Synthesis and Characterization of Novel Surfactants: Combination Products of Fatty Acids, Hydroxycarboxylic Acids and Alcohols. Journal of Surfactants and Detergents, 2010, 13, 399-407.	2.1	19
123	Sepiolite as environmental friendly and reusable catalyst for the selective synthesis of (E)-nitrostyrenes. Reaction Kinetics, Mechanisms and Catalysis, 2010, 99, 303.	1.7	3
124	Selective synthesis of monoolein with clinoptilolite. Microporous and Mesoporous Materials, 2010, 131, 238-244.	4.4	22
125	Regioselective bromination of organic substrates by LDH-CO32â^'â€"Brâ^' promoted by V2O5â€"H2O2. Applied Catalysis A: General, 2010, 384, 18-26.	4.3	9
126	Biodiesel from palm oil via loading KF/Caâ€"Al hydrotalcite catalyst. Biomass and Bioenergy, 2010, 34, 1283-1288.	5.7	128
127	PVA embedded hydrotalcite membranes as basic catalysts for biodiesel synthesis by soybean oil methanolysis. Catalysis Today, 2010, 156, 191-197.	4.4	51
128	In situ studies of structureâ€"reactivity relations in biodiesel synthesis over nanocrystalline MgO. Chemical Engineering Journal, 2010, 161, 332-339.	12.7	49
129	Preparation, Characterization, and Catalytic Application of a Nanosized Ce1MgxZr1-xO2Solid Heterogeneous Catalyst for the Synthesis of Tetrahydrobenzo[b]pyran Derivatives. Chinese Journal of Catalysis, 2010, 31, 631-636.	14.0	43
130	Valorisation of the glycerol by-product from biodiesel production. , 2010, , 571-624.		8

#	Article	IF	Citations
131	Basic Ion Exchange Resins as Heterogeneous Catalysts for Biodiesel Synthesis. Advanced Materials Research, 2010, 132, 220-227.	0.3	4
132	Base Catalysts Derived from Hydrocalumite for the Transesterification of Sunflower Oil. Energy & Fuels, 2010, 24, 979-984.	5.1	52
133	Chapter 17. Catalytic Conversion of Glycerol to Valuable Commodity Chemicals. RSC Energy and Environment Series, 2010, , 435-467.	0.5	2
134	Removal of nitrophenol pesticides from aqueous solutions by layered double hydroxides and their calcined products. Applied Clay Science, 2010, 50, 292-298.	5.2	56
135	Biodiesel catalysis. , 2010, , 322-385.		2
136	Pyrolysis of Waste Polystyrene to Recover Styrene over Alkaline Mesoporous Molecular Sieve K2O-BaO/MCM-41. , 2010, , .		0
137	Synthesis and Characterization of Silicotungstic Acid Nanoparticles via Sol Gel Technique as a Catalyst in Esterification Reaction. Advanced Materials Research, 2011, 364, 266-271.	0.3	6
138	The effect of support material on the transesterification activity of CaOâ€“La2O3and CaOâ€“CeO2supported catalysts. Green Chemistry, 2011, 13, 334-339.	9.0	39
139	PROSES GLISEROLISIS MINYAK KELAPA SAWIT MENJADI MONO DAN DIACYL GLISEROL DENGAN PELARUT N-BUTANOL DAN KATALIS MgO. Reaktor, 2011, 12, 22.	0.3	4
140	First Generation Biodiesel. , 0, , .		5
141	Synthesis, Characterization and Catalytic Performance of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mtext>H</mml:mtext></mml:mrow> Journal of Nanotechnology, 2011, 2011, 1-6.	3.4	11
142	DoE oriented reaction optimization on the lipase-catalyzed monostearin synthesis. Journal of Molecular Catalysis B: Enzymatic, 2011, 72, 313-318.	1.8	12
143	Effects of Acidity and Pore Size Constraints on Supported Niobium Oxide Catalysts for the Selective Formation of Glycerol Monolaurate. ChemCatChem, 2011, 3, 761-770.	3.7	9
144	Bio-oil from hydro-liquefaction of Dunaliella salina over Ni/REHY catalyst. Bioresource Technology, 2011, 102, 4580-4584.	9.6	107
145	Lowâ€Temperature Chemical Glycerolysis: An Evaluation of Substrates Miscibility on Reaction Rate. JAOCS, Journal of the American Oil Chemists' Society, 2011, 88, 1077-1079.	1.9	3
146	Preparation and characterization of exfoliated layered double hydroxide/silicone rubber nanocomposites. Journal of Applied Polymer Science, 2011, 119, 343-351.	2.6	42
147	Etherification of glycerol to polyglycerols over MgAl mixed oxides. Catalysis Today, 2011, 167, 84-90.	4.4	81
148	Biomass to fuels: The role of zeolite and mesoporous materials. Microporous and Mesoporous Materials, 2011, 144, 28-39.	4.4	164

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149	Hydrotalcite: recyclable, novel heterogeneous catalyst for facile, environmentally benign and high yielding multi-component synthesis and mechanistic study under solvent free conditions. Catalysis Science and Technology, 2012, 2, 2465.	4.1	38
150	Simple method to synthesize high surface area magnesium oxide and its use as a heterogeneous base catalyst. Applied Catalysis B: Environmental, 2012, 128, 31-38.	20.2	97
151	Synthesis, characterization and catalytic activity studies on cordierite honeycomb coated with ZrO2 based solid super acids. Comptes Rendus Chimie, 2012, 15, 799-807.	0.5	15
152	Selective Synthesis of Glycerol Monoester with Heteropoly Acid as a New Catalyst. Advanced Materials Research, 0, 545, 373-378.	0.3	3
153	Synthesis and characterization of solid base mesoporous and microporous catalysts: Influence of the support, structure and type of base metal. Microporous and Mesoporous Materials, 2012, 152, 71-77.	4.4	44
154	1,2,3â€Trimethoxypropane and Glycerol Ethers as Bioâ€Sourced Solvents from Glycerol. Synthesis by Solventâ€Free Phaseâ€Transfer Catalysis and Utilization as an Alternative Solvent in Chemical Transformations. ChemCatChem, 2013, 5, 2893-2904.	3.7	36
155	Heterogeneous Catalysis for Biodiesel Production. , 2013, , 93-136.		8
156	Metal organic frameworks as heterogeneous catalysts for the production of fine chemicals. Catalysis Science and Technology, 2013, 3, 2509.	4.1	270
157	The Effect of Thermal Pre-Treatment on Structure, Composition, Basicity and Catalytic Activity of Mg/Al Mixed Oxides. Topics in Catalysis, 2013, 56, 586-593.	2.8	24
158	High yield of monoacylglycerols production through lowâ€temperature chemical and enzymatic glycerolysis. European Journal of Lipid Science and Technology, 2013, 115, 684-690.	1.5	28
159	Thermal Properties of Monoglycerides from Nephelium Lappaceum L. Oil, as a Natural Source of Saturated and Monounsaturated Fatty Acids. Industrial & Engineering Chemistry Research, 2013, 52, 14089-14098.	3.7	17
160	ZnOâ€“Al2O3â€“La2O3 layered double hydroxides as catalysts precursors for the esterification of oleic acid fatty grass at low temperature. Catalysis Today, 2013, 212, 164-168.	4.4	20
161	Role of calcinations and basicity of hydrotalcite as catalyst for environmental benign novel synthesis of 4H-pyrimido[2,1-b][1,3]benzothiazole derivatives of curcumin. Catalysis Science and Technology, 2013, 3, 1520.	4.1	28
162	Effects of ultrasound on the synthesis of zeolites: a review. Journal of Porous Materials, 2013, 20, 285-302.	2.6	90
163	Effect of calcination temperature and MgO crystallite size on MgO/TiO2 catalyst system for soybean oil transesterification. Catalysis Communications, 2013, 34, 52-57.	3.3	20
164	1-O-Alkyl (di)glycerol ethers synthesis from methyl esters and triglycerides by two pathways: catalytic reductive alkylation and transesterification/reduction. Green Chemistry, 2013, 15, 786.	9.0	49
165	Synthesis of Monoglycerides by Esterification of Oleic Acid with Glycerol in Heterogeneous Catalytic Process Using Tinâ€“Organic Framework Catalyst. Catalysis Letters, 2013, 143, 356-363.	2.6	50
166	Transesterification of Soybean Oil with Ethylene Glycol, Catalyzed by Modified Liâ€Al layered double hydroxides. Chemical Engineering and Technology, 2013, 36, 1371-1377.	1.5	9

#	Article	IF	Citations
167	Mesoporous materials for clean energy technologies. Chemical Society Reviews, 2014, 43, 7681-7717.	38.1	422
168	Biofuel production via transesterification using sepiolite-supported alkaline catalysts. Applied Catalysis B: Environmental, 2014, 150-151, 147-156.	20.2	49
169	LDH-catalyzed esterification of lauric acid with glycerol in solvent-free system. Applied Catalysis A: General, 2014, 475, 242-248.	4.3	32
170	Aspects of Mgâ€“Al mixed oxide activity in transesterification of rapeseed oil in a fixed-bed reactor. Fuel Processing Technology, 2014, 122, 176-181.	7.2	20
171	Strategies to obtain high content of monoacylglycerols. European Journal of Lipid Science and Technology, 2014, 116, 97-107.	1.5	28
172	Role of basicity, calcinations, catalytic activity and recyclability of hydrotalcite in eco-friendly synthesis of coumarin derivatives. Journal of Molecular Catalysis A, 2014, 395, 251-260.	4.8	5
173	Polystyrene degradation studies using Cu supported catalysts. Journal of Analytical and Applied Pyrolysis, 2014, 109, 196-204.	5.5	63
174	Dealing with the surplus of glycerol production from biodiesel industry through catalytic upgrading to polyglycerols and other value-added products. Renewable and Sustainable Energy Reviews, 2014, 39, 327-341.	16.4	135
175	Conversion of waste polystyrene through catalytic degradation into valuable products. Korean Journal of Chemical Engineering, 2014, 31, 1389-1398.	2.7	36
176	Lowâ€temperature chemical glycerolysis to produce diacylglycerols by heterogeneous base catalyst. European Journal of Lipid Science and Technology, 2014, 116, 470-476.	1.5	21
177	Highly Selective Glycerol Esterification over Silicotungstic Acid Nanoparticles on Ionic Liquid Catalyst. Industrial & Engineering Chemistry Research, 2014, 53, 10285-10293.	3.7	30
178	Effects of the different synthetic parameters on the crystallinity and crystal size of nanosized ZSM-5 zeolite. Reviews in Chemical Engineering, 2014, 30, .	4.4	44
179	Homogeneous Tubularâ€Flow Process for Monoolein Preparation. JAOCS, Journal of the American Oil Chemists' Society, 2015, 92, 1525-1529.	1.9	4
180	Advancement in heterogeneous base catalyzed technology: An efficient production of biodiesel fuels. Journal of Renewable and Sustainable Energy, 2015, 7, .	2.0	40
181	Utilization of Active Ni to Fabricate Ptâ€“Ni Nanoframe/NiAl Layered Double Hydroxide Multifunctional Catalyst through In Situ Precipitation. Chemistry - A European Journal, 2015, 21, 13181-13185.	3.3	19
182	Modified Fats by Heterogeneous Catalysis: Changes on the Way to Green Chemistry. Advance Journal of Food Science and Technology, 2015, 9, 584-591.	0.1	2
183	SÃntesis y CaracterizaciÃ³n de Catalizadores tipo Hidrotalcita Dopados con FeÂ³+ para la ProducciÃ³n de MonoglicÃ©ridos y DiglicÃ©ridos de Aceite de Soya. Informacion Tecnologica (discontinued), 2015, 26, 79-88.	0.3	1
184	Role of basicity and the catalytic activity of KOH loaded MgO and hydrotalcite as catalysts for the efficient synthesis of 1-[(2-benzothiazolylamino)arylmethyl]-2-naphthalenols. RSC Advances, 2015, 5, 69143-69151.	3.6	11

#	Article	IF	Citations
185	Monoacylglycerol Synthesis by Glycerolysis of Soybean Oil Using Alkaline Ionic Liquid. Industrial & Engineering Chemistry Research, 2015, 54, 4923-4928.	3.7	23
186	Products and production routes for the catalytic conversion of seed oil into fuel and chemicals: a comprehensive review. Science China Chemistry, 2015, 58, 1110-1121.	8.2	6
187	Effect of carbon supported metals on the tertiary recycling of waste expanded polystyrene. Chemical Engineering Research and Design, 2015, 96, 149-155.	5.6	5
188	Catalytic esterification of bioglycerol to value-added products. Reviews in Chemical Engineering, 2015, 31, .	4.4	29
189	Sono-synthesis of biodiesel from soybean oil by KF/Î³-Al2O3 as a nano-solid-base catalyst. Ultrasonics Sonochemistry, 2015, 23, 266-274.	8.2	52
190	Production of Monoacylglycerols from Fully Hydrogenated Palm Oil Catalyzed by Hydrotalcite Loaded with K₂CO₃. Chemical Engineering Communications, 2015, 202, 585-592.	2.6	8
191	Ionic Liquids in Acylglycerol Synthesis and Modification. , 2016, , 251-278.		4
192	Diacylglycerolâ€enriched oil production using chemical glycerolysis. European Journal of Lipid Science and Technology, 2016, 118, 1880-1890.	1.5	29
193	Glycerolysis of palm oil using copper oxide nanoparticles combined with homogeneous base catalyst. New Journal of Chemistry, 2016, 40, 8704-8709.	2.8	15
194	The occurrence of Cannizzaro reaction over Mg-Al hydrotalcites. Applied Catalysis A: General, 2016, 525, 215-225.	4.3	35
195	Solid Acid Catalysts: New Routes to Food Additives and Antibacterials. ChemistrySelect, 2016, 1, 2999-3004.	1.5	3
196	Catalysis for Renewable Chemicals. , 2016, , 597-662.		3
197	Selective esterification of fatty acids with glycerol to monoglycerides over â€“SO3H functionalized carbon catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2016, 119, 121-138.	1.7	27
198	Promotional Effects of CeO2 on Stability and Activity of CaO for the Glycerolysis of Triglycerides. Catalysis Letters, 2016, 146, 1273-1282.	2.6	16
199	Alkoxide-intercalated Mgâ€“Al layered double hydroxides as selective catalysts forÂthe synthesis of monoglycerides. Reaction Kinetics, Mechanisms and Catalysis, 2016, 119, 273-289.	1.7	6
200	The role of phase behavior in the enzyme catalyzed synthesis of glycerol monolaurate. RSC Advances, 2016, 6, 32422-32429.	3.6	12
201	Glycerolysis of palm fatty acid distillate for biodiesel feedstock under different reactor conditions. Fuel, 2016, 174, 133-139.	6.4	21
202	The surface chemistry of nanocrystalline MgO catalysts for FAME production: An in situ XPS study of H2O, CH3OH and CH3OAc adsorption. Surface Science, 2016, 646, 170-178.	1.9	40

#	Article	IF	Citations
203	Activity of titania and zeolite samples dosed with triethylamine. Microporous and Mesoporous Materials, 2016, 220, 44-57.	4.4	4
204	Mixed oxides tuned with alkaline metals to improve glycerolysis for sustainable biodiesel production. Catalysis Today, 2017, 279, 209-216.	4.4	15
205	Heterogeneous Catalysis in Zeolites, Mesoporous Silica, and Metalâ€“Organic Frameworks. Advanced Materials, 2017, 29, 1701139.	21.0	522
206	Synthesis of Biodiesel from Karanja Oil Using Modified Mordenite as a Heterogeneous Catalyst. Springer Proceedings in Energy, 2017, , 15-24.	0.3	1
207	Sustainable utilization of crude glycerol from biodiesel production: catalyst free monoacyglycerols production. Journal of Chemical Technology and Biotechnology, 2017, 92, 1801-1808.	3.2	2
208	Valorization of biodiesel plant-derived products via preparation of solketal fatty esters over calcium-rich natural materials derived oxides. Journal of the Taiwan Institute of Chemical Engineers, 2017, 81, 57-64.	5.3	9
209	High catalytic activity over novel Mgâ€“Fe/Ti layered double hydroxides (LDHs) for polycarbonate diols (PCDLs): synthesis, mechanism and application. RSC Advances, 2017, 7, 35181-35190.	3.6	31
210	Metal decorated montmorillonite as a catalyst for the degradation of polystyrene. Journal of the Taiwan Institute of Chemical Engineers, 2017, 80, 391-398.	5.3	9
212	Biodiesel and Green Diesel Production, Upgrading of Fats and Oils from Renewable Sources. Green Energy and Technology, 2017, , 91-112.	0.6	2
214	Recovery of Valuable Hydrocarbons from Waste Polystyrene Using Zinc Supported Catalysts. Journal of Polymers and the Environment, 2017, 25, 759-769.	5.0	7
215	Simplistic transesterification approach for the synthesis of benzyl salicylate over honeycomb monoliths coated with modified forms of zirconia as catalysts: Kinetics. Chemical Engineering Communications, 2018, 205, 557-570.	2.6	4
216	Diglyceride-rich oils from glycerolysis of edible vegetable oils. Catalysis Today, 2018, 302, 233-241.	4.4	32
217	Conversion of Triolein Into Mono- and Diacylglycerols by Immobilized Lipase. Arabian Journal for Science and Engineering, 2018, 43, 2247-2255.	3.0	12
218	TiO2/porous adsorbents: Recent advances and novel applications. Journal of Hazardous Materials, 2018, 341, 404-423.	12.4	173
219	Effect of Surface Modifications of SBA-15 with Aminosilanes and 12-Tungstophosphoric Acid on Catalytic Properties in Environmentally Friendly Esterification of Glycerol with Oleic Acid to Produce Monoolein. Catalysts, 2018, 8, 360.	3.5	13
220	Effective synthesis of n-butyl salicylate over wash coated cordierite honeycomb by zirconia and its mixed oxides: a kinetic study. Bangladesh Journal of Scientific and Industrial Research, 2018, 53, 63-76.	0.3	1
221	Monoglycerides: Categories, Structures, Properties, Preparations, and Applications in the Food Industry. , 2019, , 155-163.		8
222	Catalytic Synthesis of Levulinate Esters over Zirconia and its Modified Forms Coated on Honeycomb Monoliths: Green Synthesis. Asian Journal of Chemistry, 2019, 31, 1993-1999.	0.3	0

#	Article	IF	Citations
223	Catalytic Synthesis of Monoglycerides by Glycerolysis of Triglycerides. International Journal of Chemical Reactor Engineering, 2019, 17, .	1.1	3
224	Depolymerization of lignin over CoO/m-SEP catalyst under supercritical methanol. Journal of Renewable and Sustainable Energy, 2019, 11, .	2.0	12
226	Vapor-Phase Stabilization of Biomass Pyrolysis Vapors Using Mixed-Metal Oxide Catalysts. ACS Sustainable Chemistry and Engineering, 2019, 7, 7386-7394.	6.7	15
227	Advanced Catalysts Derived from Compositionâ€Segregated Platinumâ€“Nickel Nanostructures: New Opportunities and Challenges. Advanced Functional Materials, 2019, 29, 1808161.	14.9	38
228	Comparison of acid, basic and enzymatic catalysis on the production of biodiesel after RSM optimization. Renewable Energy, 2019, 135, 1-9.	8.9	94
229	Nanoclays as dispersing precursors of La and Ce oxide catalysts to produce high-valued derivatives of biodiesel by-product. Molecular Catalysis, 2020, 481, 110290.	2.0	12
230	Efficient emulsifying properties of monoglycerides synthesized via simple and green route. Journal of Dispersion Science and Technology, 2020, 41, 1902-1910.	2.4	5
231	Monoglycerides as an Antifungal Agent. , 0, , .		1
232	Synthesis of Edible Vegetable Oils Enriched with Healthy 1,3â€Diglycerides Using Crude Glycerol and Homogeneous/Heterogeneous Catalysis. JAOCS, Journal of the American Oil Chemists' Society, 2020, 97, 551-561.	1.9	4
233	Preparation of Fatty Acid and Monoglyceride from Vegetable Oil. Journal of Oleo Science, 2020, 69, 277-295.	1.4	38
234	Selective oxidation of glycerol over supported noble metal catalysts. Catalysis Today, 2021, 365, 162-171.	4.4	42
235	Enzymatic hydrolysis of rapeseed oil with a non-GMO lipase: A strategy to substitute mono- and diglycerides of fatty acids and improve the softness of sponge cakes. LWT - Food Science and Technology, 2021, 137, 110405.	5.2	13
236	Types and Concentrations of Catalysts in Chemical Glycerolysis for the Production of Monoacylglycerols and Diacylglycerols. Advances in Science, Technology and Engineering Systems, 2021, 6, 612-618.	0.5	5
237	Styrenated Oil Synthesis with Cyclic Carbonate Functional Groups on Polystyrene Segment. Polymers, 2021, 13, 2343.	4.5	1
238	Catalytic applications of hydrotalcite and related materials in multi -component reactions: Concepts, challenges and future scope. Sustainable Chemistry and Pharmacy, 2021, 22, 100458.	3.3	5
239	Soybean oil-based monoacylglycerol synthesis using bio-compatible amino acid ionic liquid as a catalyst at low temperature. Journal of Molecular Liquids, 2021, 340, 117231.	4.9	6
240	Alternate Feedstocks and Technologies for Biodiesel Production. , 2005, , .		15
241	Study of a Continuous Process of Glycerolysis of Rapeseed Oil with the Solid Base Catalysts. Chemistry and Chemical Technology, 2012, 6, 89-94.	1.1	8

#	Article	IF	Citations
242	Catalytic Synthesis of Salicylate Esters over Cordierite Honeycomb Coated with Mo (VI)/ZrO₂. Modern Research in Catalysis, 2013, 02, 39-41.	1.7	1
243	Honeycomb Monolith Coated with Mo(VI)/ZrO₂as a Versatile Catalyst System for Liquid Phase Transesterification. Journal of the Korean Chemical Society, 2012, 56, 563-570.	0.2	8
244	Layered Double Hydroxides (Ldhs). , 2004, , .		5
245	SÃntese de Ã©ster de cadeia longa via catÃ¡lise bÃ¡sica heterogÃªnea. Ecletica Quimica, 2009, 34, 49-57.	0.5	4
246	Catalytic Technologies for Sustainable Development in Argentina. , 2011, , 373-390.		0
247	Fundamental Study on the Application of Glycerin-containing Byproducts Obtained from BDF Production for Liquid Fuel. Journal of the Japan Society of Material Cycles and Waste Management, 2013, 24, 63-69.	0.0	2
248	Food Waste and Catering Waste; Focus on Valorisation of Used Cooking Oil and Recovered Triglycerides. RSC Green Chemistry, 2013, , 130-184.	0.1	0
249	MgO Supported Al2O3 Oxide: A New, Efficient, and Reusable Catalyst for Synthesis of Chalcones. Chemistry and Chemical Technology, 2020, 14, 169-176.	1.1	1
250	Mono- and diglyceride production from microalgae: Challenges and prospects of high-value emulsifiers. Trends in Food Science and Technology, 2021, 118, 589-600.	15.1	10
251	Synthesis of Glycerides of Fatty Acids by Inorganic Solid Catalysts: A Review. ChemBioEng Reviews, 2022, 9, 110-123.	4.4	3
252	Green Epoxidation of Olefins with ZnxAl/MgxAl-LDH Compounds: Influence of the Chemical Composition. Catalysts, 2022, 12, 145.	3.5	4
253	Sodium Silicate Catalyst for Synthesis Monoacylglycerol and Diacylglycerol-Rich Structured Lipids: Product Characteristic and Glycerolysisâ€“Interesterification Kinetics. Bulletin of Chemical Reaction Engineering and Catalysis, 2022, 17, 250-262.	1.1	4
255	Production of Biodiesel from Soybean Oil in Less Time and at Low Temperature. Asian Journal of Chemistry, 2022, 34, 2173-2177.	0.3	0
256	Crystallization and Rheology of Mono- and Diglycerides and Their Role in Stabilization of Emulsion Droplets in Model Topical Ointments. Langmuir, 2022, 38, 8502-8512.	3.5	6
257	Current and Future Trends for Crude Glycerol Upgrading to High Value-Added Products. Sustainability, 2023, 15, 2979.	3.2	13
258	Sistema catalÃtico heterogÃ©neo para generaciÃ³n de biocombustible. Sapienza: International Journal of Interdisciplinary Studies, 2022, 3, 549-559.	0.1	0
259	Advanced zeolite and ordered mesoporous silica-based catalysts for the conversion of CO₂to chemicals and fuels. Chemical Society Reviews, 2023, 52, 1773-1946.	38.1	57
260	Investigation of Some Food Industrial vegetable Oil-Based Nonionic Surfactants. Waste and Biomass Valorization, 2024, 15, 917-921.	3.4	0

#	Article	IF	Citations