Martin HÃ¡jek

List of Publications by Year
in descending order

38 papers	809 citations	516710 16 h-index	526287 27 g-index
38 all docs	38 docs citations	38 times ranked	837 citing authors

#	Article	IF	Citations
1	Treatment of glycerol phase formed by biodiesel production. Bioresource Technology, 2010, 101, 3242-3245.	9.6	153
2	The effect of the acidity of rapeseed oil on its transesterification. Bioresource Technology, 2009, 100, 5555-5559.	9.6	51
3	Transesterification of rapeseed oil by Mgâ€"Al mixed oxides with various Mg/Al molar ratio. Chemical Engineering Journal, 2015, 263, 160-167.	12.7	45
4	The Catalysed Transformation of Vegetable Oils or Animal Fats to Biofuels and Bio-Lubricants: A Review. Catalysts, 2021, 11, 1118.	3.5	43
5	Ethanolysis of rapeseed oil â€" Distribution of ethyl esters, glycerides and glycerol between ester and glycerol phases. Bioresource Technology, 2010, 101, 2071-2075.	9.6	41
6	Determination of free glycerol in biodiesel. European Journal of Lipid Science and Technology, 2006, 108, 666-669.	1.5	36
7	Ethanolysis of rapeseed oil by KOH as homogeneous and as heterogeneous catalyst supported on alumina and CaO. Energy, 2012, 48, 392-397.	8.8	36
8	Transesterification of rapeseed oil by butanol and separation of butyl ester. Journal of Cleaner Production, 2017, 155, 28-33.	9.3	29
9	Relationships among flash point, carbon residue, viscosity and some impurities in biodiesel after ethanolysis of rapeseed oil. Bioresource Technology, 2010, 101, 7397-7401.	9.6	28
10	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
11	The factors influencing stability of Caâ€"Al mixed oxides as a possible catalyst for biodiesel production. Fuel Processing Technology, 2015, 134, 297-302.	7.2	23
12	Study of effects of some reaction conditions on ethanolysis of rapeseed oil with dispergation. Bioresource Technology, 2010, 101, 1213-1219.	9.6	22
13	Mg-Fe mixed oxides and their rehydrated mixed oxides as catalysts for transesterification. Journal of Cleaner Production, 2017, 161, 1423-1431.	9.3	20
14	The influence of vegetable oils composition on separation of transesterification products, especially quality of glycerol. Renewable Energy, 2021, 176, 262-268.	8.9	19
15	Combined effect of water and KOH on rapeseed oil methanolysis. Bioresource Technology, 2010, 101, 3121-3125.	9.6	18
16	Effect of phase separation temperature on ester yields from ethanolysis of rapeseed oil in the presence of NaOH and KOH as catalysts. Bioresource Technology, 2012, 110, 288-291.	9.6	18
17	Simplification of separation of the reaction mixture after transesterification of vegetable oil. European Journal of Lipid Science and Technology, 2008, 110, 347-350.	1.5	17
18	Separation of reaction mixture after ethanolysis of rapeseed oil. European Journal of Lipid Science and Technology, 2009, 111, 663-668.	1.5	17

#	Article	IF	Citations
19	Statistical evaluation of the mutual relations of properties of Mg/Fe hydrotalcites and mixed oxides as transesterification catalysts. Applied Clay Science, 2018, 154, 28-35.	5.2	16
20	Butanol as a co-solvent for transesterification of rapeseed oil by methanol under homogeneous and heterogeneous catalyst. Fuel, 2020, 277, 118239.	6.4	16
21	Acceleration and simplification of separation by addition of inorganic acid in biodiesel production. Journal of Cleaner Production, 2018, 192, 390-395.	9.3	15
22	Determination of esters in glycerol phase after transesterification of vegetable oil. Talanta, 2010, 82, 283-285.	5.5	14
23	Biodiesel: The influence of dealcoholization on reaction mixture composition after neutralization of catalyst by carbon dioxide. Fuel, 2012, 96, 85-89.	6.4	14
24	Screening of active solid catalysts for esterification of tall oil fatty acids with methanol. Journal of Cleaner Production, 2017, 155, 34-38.	9.3	11
25	Biodiesel: The study of methyl esters loss in the glycerol phase at various conditions. Journal of Cleaner Production, 2018, 197, 1573-1578.	9.3	10
26	The long-term catalytic performance of mixed oxides in fixed-bed reactors in transesterification. Renewable Energy, 2019, 143, 1259-1267.	8.9	10
27	The removal of free fatty acids from methyl ester. Renewable Energy, 2017, 103, 695-700.	8.9	9
28	Transition metals promoting Mg-Al mixed oxides for conversion of ethanol to butanol and other valuable products: Reaction pathways. Applied Catalysis A: General, 2021, 626, 118380.	4.3	9
29	The use of cosolvents in heterogeneously and homogeneously catalysed methanolysis of oil. Journal of Environmental Management, 2020, 262, 110295.	7.8	8
30	Butanolysis: Comparison of potassium hydroxide and potassium tert-butoxide as catalyst for biodiesel preparing from rapeseed oil. Journal of Environmental Management, 2018, 218, 555-561.	7.8	7
31	Transesterification of <i>Camelina sativa</i> Oil Catalyzed by Mg/Al Mixed Oxides with Added Divalent Metals. ACS Omega, 2020, 5, 32040-32050.	3.5	7
32	Biodiesel preparation in a batch emulsification reactor. European Journal of Lipid Science and Technology, 2009, 111, 979-984.	1.5	6
33	The description of catalyst behaviour during transesterification of rapeseed oil â€" Formation of micellar emulsion. Renewable Energy, 2020, 159, 938-943.	8.9	6
34	The influence of long-term exposure of Mgâ€"Al mixed oxide at ambient conditions on its transition to hydrotalcite. Journal of Solid State Chemistry, 2021, 304, 122556.	2.9	4
35	Factors affecting the separation of the reaction mixture after transesterification of rapeseed oil. European Journal of Lipid Science and Technology, 2008, 110, 920-925.	1.5	3
36	Relationship of variables affecting separation following transesterification of vegetable oil. European Journal of Lipid Science and Technology, 2009, 111, 499-504.	1.5	2

#	Article	IF	Citations
37	Improved method of water removal from vegetable oil. Chemical Papers, 2019, 73, 767-769.	2.2	2
38	The influence of residue sodium ions in mixed oxide on catalytic activity in transesterification of vegetable oil. Molecular Catalysis, 2022, 517, 112017.	2.0	0