# Martin HÃ¡jek

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 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 |
| 2 | The Catalysed Transformation of Vegetable Oils or Animal Fats to Biofuels and Bio-Lubricants: A Review. Catalysts, 2021, 11, 1118. | 3.5 | 43 |
| 3 | 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 |
| 4 | The influence of vegetable oils composition on separation of transesterification products, especially quality of glycerol. Renewable Energy, 2021, 176, 262-268. | 8.9 | 19 |
| 5 | 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 |
| 6 | Butanol as a co-solvent for transesterification of rapeseed oil by methanol under homogeneous and heterogeneous catalyst. Fuel, 2020, 277, 118239. | 6.4 | 16 |
| 7 | The description of catalyst behaviour during transesterification of rapeseed oil â€“ Formation of micellar emulsion. Renewable Energy, 2020, 159, 938-943. | 8.9 | 6 |
| 8 | The use of cosolvents in heterogeneously and homogeneously catalysed methanolysis of oil. Journal of Environmental Management, 2020, 262, 110295. | 7.8 | 8 |
| 9 | 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 |
| 10 | The long-term catalytic performance of mixed oxides in fixed-bed reactors in transesterification. Renewable Energy, 2019, 143, 1259-1267. | 8.9 | 10 |
| 11 | Improved method of water removal from vegetable oil. Chemical Papers, 2019, 73, 767-769. | 2.2 | 2 |
| 12 | 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 |
| 13 | 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 |
| 14 | Acceleration and simplification of separation by addition of inorganic acid in biodiesel production. Journal of Cleaner Production, 2018, 192, 390-395. | 9.3 | 15 |
| 15 | 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 |
| 16 | Transesterification of rapeseed oil by butanol and separation of butyl ester. Journal of Cleaner Production, 2017, 155, 28-33. | 9.3 | 29 |
| 17 | The removal of free fatty acids from methyl ester. Renewable Energy, 2017, 103, 695-700. | 8.9 | 9 |
| 18 | Mg-Fe mixed oxides and their rehydrated mixed oxides as catalysts for transesterification. Journal of Cleaner Production, 2017, 161, 1423-1431. | 9.3 | 20 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | Biodiesel: The influence of dealcoholization on reaction mixture composition after neutralization of catalyst by carbon dioxide. Fuel, 2012, 96, 85-89. | 6.4 | 14 |
| 25 | 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 |
| 26 | 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 |
| 27 | Combined effect of water and KOH on rapeseed oil methanolysis. Bioresource Technology, 2010, 101, 3121-3125. | 9.6 | 18 |
| 28 | Study of effects of some reaction conditions on ethanolysis of rapeseed oil with dispergation. Bioresource Technology, 2010, 101, 1213-1219. | 9.6 | 22 |
| 29 | Treatment of glycerol phase formed by biodiesel production. Bioresource Technology, 2010, 101, 3242-3245. | 9.6 | 153 |
| 30 | 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 |
| 31 | Determination of esters in glycerol phase after transesterification of vegetable oil. Talanta, 2010, 82, 283-285. | 5.5 | 14 |
| 32 | Relationship of variables affecting separation following transesterification of vegetable oil. European Journal of Lipid Science and Technology, 2009, 111, 499-504. | 1.5 | 2 |
| 33 | Separation of reaction mixture after ethanolysis of rapeseed oil. European Journal of Lipid Science and Technology, 2009, 111, 663-668. | 1.5 | 17 |
| 34 | Biodiesel preparation in a batch emulsification reactor. European Journal of Lipid Science and Technology, 2009, 111, 979-984. | 1.5 | 6 |
| 35 | The effect of the acidity of rapeseed oil on its transesterification. Bioresource Technology, 2009, 100, 5555-5559. | 9.6 | 51 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 37 | 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 |
| 38 | Determination of free glycerol in biodiesel. European Journal of Lipid Science and Technology, 2006, 108, 666-669. | 1.5 | 36 |