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Furfuryl alcohol in synthesis of levulinic acid esters and difurylmethane with Fe and Rh complexes

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Russian Journal of Applied Chemistry, 2007, 80, 1687-1690.

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#	Paper	IF	Citations
41	Acid-Catalyzed Furfuryl Alcohol Polymerization: Characterizations of Molecular Structure and Thermodynamic Properties. <i>ChemCatChem</i> , 2011 , 3, 1451-1458	5.2	85
40	Efficient conversion of furfuryl alcohol into alkyl levulinates catalyzed by an organic-inorganic hybrid solid acid catalyst. <i>ChemSusChem</i> , 2011 , 4, 112-8	8.3	154
39	Solid acid catalyzed glucose conversion to ethyl levulinate. <i>Applied Catalysis A: General</i> , 2011 , 397, 259-265	5.5	147
38	Bio based fuels and fuel additives from lignocellulose feedstock via the production of levulinic acid and furfural. <i>Holzforschung</i> , 2011 , 65,	2	34
37	Advances in conversion of hemicellulosic biomass to furfural and upgrading to biofuels. <i>Catalysis Science and Technology</i> , 2012 , 2, 2025	5.5	334
36	Advances in the Catalytic Production of Valuable Levulinic Acid Derivatives. <i>ChemCatChem</i> , 2012 , 4, 1230-1237	5.1	166
35	Catalytic Processes of Lignocellulosic Feedstock Conversion for Production of Furfural, Levulinic Acid, and Formic Acid-Based Fuel Components. 2013 , 91-113		7
34	Conversion of furfuryl alcohol to ethyl levulinate using porous aluminosilicate acid catalysts. <i>Catalysis Today</i> , 2013 , 218-219, 76-84	5.3	101
33	Di- and triheteroarylalkanes via self-condensation and intramolecular Friedel-Crafts type reaction of heteroaryl alcohols. <i>Organic and Biomolecular Chemistry</i> , 2013 , 11, 8030-5	3.9	27
32	A Defunctionalization Concept for the Convenient Synthesis of Bis(5-arylfuran-2-yl)methane Scaffolds. <i>European Journal of Organic Chemistry</i> , 2013 , 2013, 8083-8086	3.2	2
31	Production of biomass-derived furanic ethers and levulinate esters using heterogeneous acid catalysts. <i>Green Chemistry</i> , 2013 , 15, 3367	10	81
30	Conversion of Biomass Sugars to Butyl Levulinate over Combined Catalyst of Solid Acid and other Acid. <i>Advanced Materials Research</i> , 2014 , 955-959, 779-784	0.5	3
29	Ecotoxicity studies of the levulinate ester series. <i>Ecotoxicology</i> , 2014 , 23, 1484-93	2.9	20
28	Synthesis of ethyl levulinate as fuel additives using heterogeneous solid superacidic catalysts: Efficacy and kinetic modeling. <i>Chemical Engineering Journal</i> , 2014 , 243, 556-563	14.7	79
27	Efficient and selective alcoholysis of furfuryl alcohol to alkyl levulinates catalyzed by double SO ₃ H-functionalized ionic liquids. <i>Green Chemistry</i> , 2014 , 16, 1436-1443	10	106
26	Thermodynamics and reaction pathways of furfuryl alcohol oligomer formation. <i>Catalysis Communications</i> , 2014 , 46, 66-70	3.2	34
25	Heteropoly acid and ZrO ₂ bifunctionalized organosilica hollow nanospheres for esterification and transesterification. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 14127-14138	13	36

24	The versatility of furfuryl alcohols and furanoxonium ions in synthesis. <i>Chemical Communications</i> , 2014 , 50, 7223-42	5.8	49
23	Synthesis and Applications of Alkyl Levulinates. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 1338-1352	2.89	
22	Design of organosulfonic acid functionalized organosilica hollow nanospheres for efficient conversion of furfural alcohol to ethyl levulinate. <i>Green Chemistry</i> , 2015 , 17, 1767-1778	10	62
21	One-pot conversion of furfural to useful bio-products in the presence of a Sn,Al-containing zeolite beta catalyst prepared via post-synthesis routes. <i>Journal of Catalysis</i> , 2015 , 329, 522-537	7.3	102
20	Levulinic Acid Production Using Solid-Acid Catalysis. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 5139-5144	3.9	27
19	Efficient conversion of furfuryl alcohol to ethyl levulinate with sulfonic acid-functionalized MIL-101(Cr). <i>RSC Advances</i> , 2016 , 6, 90232-90238	3.7	37
18	Catalytic and mechanistic insights into the production of ethyl levulinate from biorenewable feedstocks. <i>Green Chemistry</i> , 2016 , 18, 4804-4823	10	162
17	Efficient conversion of biomass-derived furfuryl alcohol to levulinate esters over commercial Fe ₂ O ₃ . <i>RSC Advances</i> , 2016 , 6, 22174-22178	3.7	24
16	Integrated reduction and acid-catalysed conversion of furfural in alcohol medium using Zr,Al-containing ordered micro/mesoporous silicates. <i>Applied Catalysis B: Environmental</i> , 2016 , 182, 485-503	21.8	77
15	Catalytic upgrading of furfuryl alcohol to bio-products: Catalysts screening and kinetic analysis. <i>Applied Catalysis A: General</i> , 2017 , 537, 74-82	5.1	31
14	Selective catalytic dehydration of furfuryl alcohol to 2,2-difurfuryl ether using a polyoxometalate catalyst. <i>Scientific Reports</i> , 2017 , 7, 12954	4.9	6
13	Reformulation of Gasoline To Replace Aromatics by Biomass-Derived Alkyl Levulinates. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 7118-7127	8.3	20
12	Sulphonic Acid-Functionalized Benzimidazolium Based Poly Ionic Liquid Catalyzed Esterification of Levulinic Acid. <i>Catalysis Letters</i> , 2018 , 148, 680-690	2.8	25
11	Continuous Synthesis of Fuel Additives Alkyl Levulinates via Alcoholysis of Furfuryl Alcohol over Silica Supported Metal Oxides. <i>Catalysis Letters</i> , 2018 , 148, 1731-1738	2.8	7
10	Making Levulinic Acid and Ethyl Levulinate Economically Viable: A Worldwide Technoeconomic and Environmental Assessment of Possible Routes. <i>Energy Technology</i> , 2018 , 6, 613-639	3.5	59
9	Investigation of Alcohol Conformer Distribution and Hydrogen Bonding in (2,2?-Difurylmethane + n-propanol or n-butanol) Binary Mixtures Using Molecular Dynamics Simulations. <i>Chemistry Africa</i> , 2019 , 2, 455-461	2.2	1
8	Esterification of furfuryl alcohol to butyl levulinate over ion-exchange resins. <i>Fuel</i> , 2019 , 257, 116010	7.1	22
7	Study of a New Process for the Preparation of Butyl Levulinate from Cellulose. <i>ACS Omega</i> , 2019 , 4, 9828-9834	3.9	4

6	Catalyst-free synthesis of biodiesel precursors from biomass-based furfuryl alcohols in the presence of H ₂ O and air. <i>Green Chemistry</i> , 2019 , 21, 6326-6334	10	8
5	Microwave-assisted catalytic upgrading of bio-based furfuryl alcohol to alkyl levulinate over commercial non-metal activated carbon. <i>Molecular Catalysis</i> , 2020 , 480, 110630	3.3	17
4	Current Approaches to Alkyl Levulinates Efficient Valorization of Biomass Derivatives. <i>Frontiers in Chemistry</i> , 2020 , 8, 794	5	5
3	New advances in the catalysis of organic reactions by iron compounds. <i>Russian Chemical Reviews</i> , 2020 , 89, 824-857	6.8	3
2	Ethyl Levulinate. 2022 , 163-189		0
1	Insights into Lewis/Brønsted acidity of metal chlorides and solvent effect of alcohols for synthesis of Valerolactone by combining molecular dynamics simulations and experiments. 2023 , 335, 126749		0