Carles FitÃ©

List of Publications by Year
in descending order

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73	1,355	331670 21	414414 32
papers	citations	h-index	g-index

74	74	74	975
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Esterification of levulinic acid with butanol over ion exchange resins. Applied Catalysis A: General, 2016, 517, 56-66.	4.3	97
2	Kinetics of the Liquid-Phase Synthesis of Ethyl tert-Butyl Ether (ETBE). Industrial & Engineering Chemistry Research, 1994, 33, 581-591.	3.7	75
3	Thermally stable ion-exchange resins as catalysts for the liquid-phase dehydration of 1-pentanol to di-n-pentyl ether (DNPE). Journal of Catalysis, 2006, 244, 33-42.	6.2	61
4	Modeling Pervaporation of Ethanol/Water Mixtures within â€˜Real' Zeolite NaA Membranes. Industrial & Engineering Chemistry Research, 2008, 47, 3213-3224.	3.7	47
5	Dehydration of 1-pentanol to di-n-pentyl ether over ion-exchange resin catalysts. Journal of Molecular Catalysis A, 2002, 182-183, 541-554.	4.8	43
6	Acid ion-exchange resins catalysts for the liquid-phase dimerization/etherification of isoamylenes in methanol or ethanol presence. Reactive and Functional Polymers, 2005, 65, 149-160.	4.1	43
7	Scope and limitations of mechanistic inferences from kinetic studies on acidic macroporous resins The MTBE liquid-phase synthesis case. Applied Catalysis A: General, 1996, 134, 21-36.	4.3	34
8	Kinetic modelling of the liquid-phase dimerization of isoamylenes on Amberlyst 35. Reactive and Functional Polymers, 2007, 67, 210-224.	4.1	34
9	Role of ionâ€exchange resins as catalyst in the reactionâ€network of transformation of biomass into biofuels. Journal of Chemical Technology and Biotechnology, 2017, 92, 2775-2786.	3.2	34
10	Liquid-Phase Oligomerization of 1-Hexene Catalyzed by Macroporous Ion-Exchange Resins. Topics in Catalysis, 2011, 54, 998-1008.	2.8	33
11	Kinetic study of the reaction between sulfur dioxide and calcium hydroxide at low temperature in a fixed-bed reactor. Journal of Hazardous Materials, 2000, 76, 113-123.	12.4	31
12	Drying of acidic macroporous styrene-divinylbenzene resins. Reactive & Functional Polymers, 1993, 21, 65-76.	0.8	30
13	Conversion of 1-hexanol to di-n-hexyl ether on acidic catalysts. Applied Catalysis A: General, 2010, 374, 41-47.	4.3	29
14	Catalytic Activity and Deactivation of Acidic Ion-Exchange Resins in Methyltert-Butyl Ether Liquid-Phase Synthesis. Industrial & Engineering Chemistry Research, 1998, 37, 3575-3581.	3.7	28
15	Influence of acid ion-exchange resins morphology in a swollen state on the synthesis of ethyl octyl ether from ethanol and 1-octanol. Journal of Catalysis, 2013, 304, 7-21.	6.2	27
16	The effect of the reaction medium on the kinetics of the liquid-phase addition of methanol to isobutene. Applied Catalysis A: General, 1998, 169, 165-177.	4.3	26
17	Kinetic modeling of the reaction between hydrated lime and SO2at low temperature. AICHE Journal, 2005, 51, 1455-1466.	3.6	26
18	Conversion, selectivity and kinetics of the liquid-phase dimerisation of isoamylenes in the presence of C1 to C5 alcohols catalysed by a macroporous ion-exchange resin. Journal of Catalysis, 2006, 238, 330-341.	6.2	26

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19	Study of the oligomerization of 1-octene catalyzed by macroreticular ion-exchange resins. Chemical Engineering Journal, 2012, 207-208, 226-234.	12.7	25
20	Enhancing MTBE rate equation by considering reaction medium influence. AICHE Journal, 1998, 44, 2273-2279.	3.6	23
21	Water effect on the kinetics of 1-pentanol dehydration to di-n-pentyl ether (DNPE) on amberlyst 70. Topics in Catalysis, 2007, 45, 181-186.	2.8	22
22	Assessment of ion exchange resins as catalysts for the direct transformation of fructose into butyl levulinate. Applied Catalysis A: General, 2021, 612, 117988.	4.3	22
23	Conversion, Selectivity, and Kinetics of the Addition of Isopropanol to Isobutene Catalyzed by a Macroporous Ion-Exchange Resin. Industrial & Engineering Chemistry Research, 2000, 39, 1235-1241.	3.7	21
24	Thermal stability and water effect on ion-exchange resins in ethyl octyl ether production at high temperature. Applied Catalysis A: General, 2013, 467, 301-309.	4.3	21
25	Study of the Chemical Equilibrium of the Liquid-Phase Dehydration of 1-Hexanol to Dihexyl Ether. Journal of Chemical & Engineering Data, 2008, 53, 2854-2860.	1.9	19
26	Catalytic Activity and Accessibility of Acidic Ion-Exchange Resins in Liquid Phase Etherification Reactions. Topics in Catalysis, 2015, 58, 919-932.	2.8	19
27	Drying of Acidic Macroporous Styreneâ^'Divinylbenzene Resins with 12â^'20 Cross-Linking Degree. Industrial & Engineering Chemistry Research, 2000, 39, 1416-1422.	3.7	18
28	Liquid-phase dehydrocondensation of 1-pentanol to di-n-pentyl ether (DNPE) over medium and large pore acidic zeolites. Microporous and Mesoporous Materials, 2009, 117, 650-660.	4.4	18
29	Byproducts formation in the ethyl tert-butyl ether (ETBE) synthesis reaction on macroreticular acid ion-exchange resins. Applied Catalysis A: General, 2013, 468, 384-394.	4.3	18
30	Revamping of teachingâ€“learning methodologies in laboratory subjects of the Chemical Engineering undergraduate degree of the University of Barcelona for their adjustment to the Bologna process. Education for Chemical Engineers, 2014, 9, e43-e49.	4.8	18
31	Catalytic activity dependence on morphological properties of acidic ion-exchange resins for the simultaneous ETBE and TAEE liquid-phase synthesis. Reaction Chemistry and Engineering, 2018, 3, 195-205.	3.7	18
32	Enhancement of Gas Desulfurization with Hydrated Lime at Low Temperature by the Presence of NO2. Industrial & Engineering Chemistry Research, 2005, 44, 9040-9049.	3.7	17
33	Experimental Study of the Chemical Equilibria in the Liquid-Phase Dehydration of 1-Pentanol to Di-n-pentyl Ether. Industrial & Engineering Chemistry Research, 2007, 46, 6865-6872.	3.7	17
34	Conversion, Selectivity, and Kinetics of the Dehydration of 1-Pentanol to Di-n-Pentyl Ether Catalyzed by a Microporous Ion-Exchange Resin. Industrial & Engineering Chemistry Research, 2005, 44, 318-324.	3.7	16
35	Isoamylene Trimerization in Liquid-Phase over Ion Exchange Resins and Zeolites. Industrial & Engineering Chemistry Research, 2010, 49, 3561-3570.	3.7	16
36	Dehydration of 1-pentanol to di-n-pentyl ether catalyzed by a microporous ion-exchange resin with simultaneous water removal. Applied Catalysis A: General, 2006, 308, 223-230.	4.3	15

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37	Kinetic study of methyl-butenes dimerization and trimerization in liquid-phase over a macroreticular acid resin. Chemical Engineering Journal, 2013, 234, 266-275.	12.7	15
38	Synthesis of ethyl hexyl ether over acidic ion-exchange resins for cleaner diesel fuel. Catalysis Science and Technology, 2015, 5, 2238-2250.	4.1	15
39	Supported Nafion catalyst for 1-pentanol dehydration reaction in liquid phase. Chemical Engineering Journal, 2008, 145, 135-141.	12.7	14
40	Relevant properties for catalytic activity of sulfonic ion-exchange resins in etherification of isobutene with linear primary alcohols. Journal of Industrial and Engineering Chemistry, 2016, 42, 36-45.	5.8	14
41	Liquid-phase synthesis of isopropyl tert-butyl ether by addition of 2-propanol to isobutene on the oversulfonated ion-exchange resin Amberlyst-35. Applied Catalysis A: General, 2007, 323, 38-50.	4.3	13
42	Equilibrium conversion, selectivity and yield optimization of the simultaneous liquid-phase etherification of isobutene and isoamylenes with ethanol over Amberlystâ„¢ 35. Fuel Processing Technology, 2016, 142, 201-211.	7.2	13
43	Liquid-phase synthesis of butyl levulinate with simultaneous water removal catalyzed by acid ion exchange resins. Journal of Industrial and Engineering Chemistry, 2019, 78, 222-231.	5.8	13
44	Water-induced rearrangement of Ca(OH)2 (0001) surfaces reacted with SO2. AICHE Journal, 2006, 52, 2876-2886.	3.6	12
45	Comparison between Ethanol and Diethyl Carbonate as Ethylating Agents for Ethyl Octyl Ether Synthesis over Acidic Ion-Exchange Resins. Industrial & Engineering Chemistry Research, 2012, 51, 16525-16530.	3.7	12
46	Kinetic modeling of the simultaneous etherification of ethanol with C4 and C5 olefins over Amberlystâ„¢ 35 using model averaging. Chemical Engineering Journal, 2017, 307, 122-134.	12.7	12
47	Experimental Study of the Liquid-Phase Simultaneous Syntheses of Methyltert-Butyl Ether (MTBE) andtert-Butyl Alcohol (TBA). Industrial & Engineering Chemistry Research, 2002, 41, 5359-5365.	3.7	11
48	Zeolite-catalysed liquid-phase synthesis of isopropyl -butyl ether by the addition of 2-propanol to isobutene. Journal of Catalysis, 2005, 231, 77-91.	6.2	11
49	Kinetics of 1-Pentanol Etherification without Water Removal. Industrial & Engineering Chemistry Research, 2011, 50, 7911-7919.	3.7	11
50	Equilibrium of the simultaneous etherification of isobutene and isoamylenes with ethanol in liquid-phase. Chemical Engineering Research and Design, 2014, 92, 644-656.	5.6	10
51	Adsorption of C₁â€“C₄ Alcohols, C₄â€“C₅ Isoolefins, and their Corresponding Ethers over Amberlystâ„¢35. Chemical Engineering and Technology, 2017, 40, 889-899.	1.5	10
52	Optimization and green metrics analysis of the liquid-phase synthesis of sec-butyl levulinate by esterification of levulinic acid with 1-butene over ion-exchange resins. Fuel Processing Technology, 2021, 220, 106893.	7.2	10
53	Simultaneous etherification of isobutene with ethanol and 1-butanol over ion-exchange resins. Applied Catalysis A: General, 2017, 541, 141-150.	4.3	9
54	Kinetic study of ethyl octyl ether formation from ethanol and 1â€•octanol on Amberlyst 70. AICHE Journal, 2014, 60, 2918-2928.	3.6	8

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55	Kinetic study of 1â€butanol dehydration to diâ€nâ€butyl ether over Amberlyst 70. AICHE Journal, 2016, 62, 180-194.	3.6	8
56	Thermodynamic Analysis of the Experimental Equilibria for the Liquid-Phase Etherification of Isobutene with C₁ to C₄ Linear Primary Alcohols. Journal of Chemical & Engineering Data, 2016, 61, 1054-1064.	1.9	8
57	Comparative study of IPTBE synthesis on HZSM-5 and ion-exchange resin catalysts. Catalysis Today, 2001, 65, 381-389.	4.4	7
58	Alkylation of toluene with 1-hexene over macroreticular ion-exchange resins. Applied Catalysis A: General, 2014, 485, 143-148.	4.3	7
59	Chemical Equilibrium of the Liquid-Phase Dehydration of 1-Octanol to 1-(Octyloxy)octane. Journal of Chemical & Engineering Data, 2013, 58, 741-748.	1.9	6
60	Effect of water addition on the simultaneous liquid-phase etherification of isobutene and isoamylenes with ethanol over amberlystâ„¢ 35. Catalysis Today, 2015, 256, 336-346.	4.4	6
61	Kinetics of the liquid phase dehydration of 1â€octanol to diâ€nâ€octyl ether on Amberlyst 70. AICHE Journal, 2017, 63, 3966-3978.	3.6	5
62	Implementing the flipped classroom methodology to the subject "Applied computing" of the chemical engineering degree at the University of Barcelona. Journal of Technology and Science Education, 2017, 7, 119.	1.2	5
63	Systematic kinetic modeling of the propyl tert-butyl ether synthesis reaction. Chemical Engineering Journal, 2019, 356, 219-226.	12.7	5
64	Dehydration of 1-octanol to di- n -octyl ether in liquid phase with simultaneous water removal over ion exchange resins: Effect of working-state morphologies. Applied Catalysis A: General, 2017, 545, 10-16.	4.3	3
65	Liquid-phase synthesis of butyl tert-butyl ether catalysed by ion-exchange resins: kinetic modelling through in-depth model discrimination. Reaction Chemistry and Engineering, 2021, 6, 165-172.	3.7	3
66	Effect of internal diffusion on liquid-phase synthesis of MTBE. Studies in Surface Science and Catalysis, 2000, , 2609-2614.	1.5	2
67	The Effect of Ether on the Reaction Rate of MTBE Synthesis. Industrial & Engineering Chemistry Research, 2001, 40, 1348-1354.	3.7	2
68	Deactivation of Ion Exchange Catalysts by Acetonitrile and Methylamine. Topics in Catalysis, 2011, 54, 1054-1062.	2.8	2
69	Determination of Thermodynamic Properties for the Esterification of Levulinic Acid with 1-Butene. Industrial & Engineering Chemistry Research, 0, , .	3.7	2
70	Effect of solubility parameter on the MTBE synthesis kinetics. Studies in Surface Science and Catalysis, 1997, 109, 541-546.	1.5	1
71	Green metrics analysis applied to the simultaneous liquid-phase etherification of isobutene and isoamylenes with ethanol over Amberlystâ„¢ 35. Green Processing and Synthesis, 2014, 3, .	3.4	1
72	Experimental Study on the Liquidâ€Phase Adsorption Equilibrium of nâ€Butanol over Amberlystâ„¢15 and Contribution of Diffusion Resistances. Chemical Engineering and Technology, 2021, 44, 2210-2219.	1.5	1

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73	The Investigation of the Selected Parameters of Catalysis on the Effectiveness Factor of MTBE Synthesis in the Case of a Pellet Catalyst. International Journal of Chemical Reactor Engineering, 2012, 10, .	1.1	0