Javier Tejero

List of Publications by Year in descending order

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92 papers	2,006 citations	201674 27 h-index	315739 38 g-index
93 all docs	93 docs citations	93 times ranked	1061 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	Effect of water presence on methyl tert-butyl ether and ethyl tert-butyl ether liquid-phase syntheses. Industrial & Engineering Chemistry Research, 1993, 32, 564-569.	3.7	57
5	Description of the pervaporation dehydration performance of A-type zeolite membranes: A modeling approach based on the Maxwellâ€“Stefan theory. Catalysis Today, 2006, 118, 73-84.	4.4	55
6	Reactivation of fly ash and calcium hydroxide mixtures for sulfur dioxide removal of flue gas. Industrial & Engineering Chemistry Research, 1991, 30, 2143-2147.	3.7	51
7	Liquid-phase dehydration of 1-octanol, 1-hexanol and 1-pentanol to linear symmetrical ethers over ion exchange resins. Applied Catalysis A: General, 2011, 396, 129-139.	4.3	49
8	Equilibrium constants for methyl tert-butyl ether liquid-phase synthesis. Journal of Chemical & Engineering Data, 1992, 37, 339-343.	1.9	48
9	Equilibrium Constants for Methyl tert-Butyl Ether and Ethyl tert-Butyl Ether Liquid-Phase Syntheses using C4 Olefinic Cut. Industrial & Engineering Chemistry Research, 1994, 33, 2830-2835.	3.7	45
10	Kinetic study of mtbe liquid-phase synthesis using C4 olefinic cut. Chemical Engineering Science, 1994, 49, 4563-4578.	3.8	44
11	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
12	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
13	Esterification of furfuryl alcohol to butyl levulinate over ion-exchange resins. Fuel, 2019, 257, 116010.	6.4	37
14	Equilibrium constant for the methyl tert-butyl ether vapor-phase synthesis. Industrial & Engineering Chemistry Research, 1988, 27, 338-343.	3.7	36
15	Kinetic study of isobutene dimerization catalyzed by a macroporous sulphonic acid resin. Applied Catalysis A: General, 1993, 106, 155-165.	4.3	35
16	EQUILIBRIUM CONSTANTS FOR ETHYL tert-BUTYL ETHER LIQUID-PHASE SYNTHESIS. Chemical Engineering Communications, 1993, 124, 223-232.	2.6	35
17	Vapor-phase addition of methanol to isobutene on a macroporous resin. A kinetic study. Industrial & Engineering Chemistry Research, 1989, 28, 1269-1277.	3.7	34
18	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

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19	Kinetic modelling of the liquid-phase dimerization of isoamylenes on Amberlyst 35. Reactive and Functional Polymers, 2007, 67, 210-224.	4.1	34
20	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
21	Ion exchange resins as catalysts for the liquid-phase dehydration of 1-butanol to di-n-butyl ether. Applied Catalysis A: General, 2014, 482, 38-48.	4.3	33
22	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
23	Drying of acidic macroporous styrene-divinylbenzene resins. Reactive & Functional Polymers, 1993, 21, 65-76.	0.8	30
24	Experimental Study of the Simultaneous Synthesis of Methyl tert-Butyl Ether and Ethyl tert-Butyl Ether in Liquid Phase. Industrial & Engineering Chemistry Research, 1997, 36, 4756-4762.	3.7	29
25	Conversion of 1-hexanol to di-n-hexyl ether on acidic catalysts. Applied Catalysis A: General, 2010, 374, 41-47.	4.3	29
26	Application of the response surface methodology to the kinetic study of the gas-phase addition of ethanol to isobutene on a sulfonated styrene-divinylbenzene resin. Industrial & Engineering Chemistry Research, 1992, 31, 1840-1848.	3.7	28
27	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
28	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
29	Kinetics of decomposition of methyl tert-butyl ether in the gas phase on amberlyst 15 as a catalyst. Applied Catalysis, 1987, 34, 341-351.	0.8	26
30	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
31	Kinetic modeling of the reaction between hydrated lime and SO2at low temperature. AICHE Journal, 2005, 51, 1455-1466.	3.6	26
32	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
33	Molecular mechanisms of MTBE synthesis on a sulphonic acid ion exchange resin. Journal of Molecular Catalysis, 1987, 42, 257-268.	1.2	25
34	Influence of water on the gas-phase decomposition of methyl tert.-Butyl ether catalysed by a macroporous ion-exchange resin. Applied Catalysis, 1988, 38, 327-340.	0.8	23
35	Thermodynamic and Kinetic Studies of the Liquid Phase Synthesis of tert-Butyl Ethyl Ether Using a Reaction Calorimeter. Industrial & Engineering Chemistry Research, 1995, 34, 3718-3725.	3.7	23
36	Enhancing MTBE rate equation by considering reaction medium influence. AICHE Journal, 1998, 44, 2273-2279.	3.6	23

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37	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
38	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
39	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
40	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
41	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
42	Synthesis of ethyl octyl ether from diethyl carbonate and 1-octanol over solid catalysts. A screening study. Applied Catalysis A: General, 2012, 413-414, 21-29.	4.3	19
43	Drying of Acidic Macroporous Styreneâ^'Divinylbenzene Resins with 12â^'20 Cross-Linking Degree. Industrial & Engineering Chemistry Research, 2000, 39, 1416-1422.	3.7	18
44	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
45	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
46	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
47	Equilibrium constant for ethyl tert-butyl ether vapor-phase synthesis. Journal of Chemical & Engineering Data, 1989, 34, 1-5.	1.9	17
48	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
49	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
50	Kinetics of 1-hexanol etherification on Amberlyst 70. Chemical Engineering Journal, 2014, 246, 71-78.	12.7	17
51	The formation of byproducts in the reaction of synthesis of isopropyl tert-butyl ether from isopropyl alcohol and isobutene on an acidic macroporous copolymer. Reactive and Functional Polymers, 1997, 33, 201-209.	4.1	16
52	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
53	Isoamylene Trimerization in Liquid-Phase over Ion Exchange Resins and Zeolites. Industrial & Engineering Chemistry Research, 2010, 49, 3561-3570.	3.7	16
54	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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55	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
56	Equilibrium Constants for the Liquid-Phase Synthesis of Isopropyltert-Butyl Ether from 2-Propanol and Isobutene. Industrial & Engineering Chemistry Research, 1997, 36, 896-902.	3.7	14
57	Supported Nafion catalyst for 1-pentanol dehydration reaction in liquid phase. Chemical Engineering Journal, 2008, 145, 135-141.	12.7	14
58	Influence of resin structure on the addition of ethanol to isobutene in the vapour phase. British Polymer Journal, 1990, 23, 117-127.	0.7	13
59	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
60	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
61	Water-induced rearrangement of Ca(OH)2 (0001) surfaces reacted with SO2. AICHE Journal, 2006, 52, 2876-2886.	3.6	12
62	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
63	Influence of resin type and water on the kinetics of the decomposition of methyl tert-butyl ether in the gas phase. Reactive & Functional Polymers, 1989, 10, 175-184.	0.8	11
64	Fly Ash Reactivation for the Desulfurization of Coal-Fired Utility Station's Flue Gas. Separation Science and Technology, 1992, 27, 61-72.	2.5	11
65	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
66	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
67	Kinetics of 1-Pentanol Etherification without Water Removal. Industrial & Engineering Chemistry Research, 2011, 50, 7911-7919.	3.7	11
68	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
69	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
70	Influence of different additives on the reaction between hydrated lime and sulfur dioxide. Environmental Progress, 1991, 10, 273-277.	0.7	9
71	Simultaneous etherification of isobutene with ethanol and 1-butanol over ion-exchange resins. Applied Catalysis A: General, 2017, 541, 141-150.	4.3	9
72	Catalytic Hydroxyalkylation/Alkylation of 2-Methylfuran with Butanal to Form a Biodiesel Precursor Using Acidic Ion-Exchange Resins. Industrial & Engineering Chemistry Research, 2020, 59, 20676-20685.	3.7	9

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73	Equilibrium and thermodynamics for 2-methyl-2-methoxybutane liquid-phase decomposition. Thermochimica Acta, 1995, 259, 111-120.	2.7	8
74	Kinetic study of ethyl octyl ether formation from ethanol and 1â€octanol on Amberlyst 70. AICHE Journal, 2014, 60, 2918-2928.	3.6	8
75	Kinetic study of 1â€butanol dehydration to diâ€‹n‹/i›â€butyl ether over Amberlyst 70. AICHE Journal, 2016, 62, 180-194.	3.6	8
76	Comparative study of IPTBE synthesis on HZSM-5 and ion-exchange resin catalysts. Catalysis Today, 2001, 65, 381-389.	4.4	7
77	Reliability of the synthesis of C10â€“C16 linear ethers from 1-alkanols over acidic ion-exchange resins. Biomass Conversion and Biorefinery, 2013, 3, 27-37.	4.6	7
78	AFM Observation of Ca(OH)2(0001) Surfaces Reacted with SO2: Role of Water Vapour on Product Morphology. Chemistry Letters, 2006, 35, 24-25.	1.3	6
79	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
80	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
81	Influence of the functionalization degree of acidic ion-exchange resins on ethyl octyl ether formation. Reactive and Functional Polymers, 2014, 78, 14-22.	4.1	5
82	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
83	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
84	Zeolite catalysed dehydration of alcohol to linear ether. Studies in Surface Science and Catalysis, 2008, , 1115-1118.	1.5	3
85	Thermodynamic equilibrium for the dehydration of 1-butanol to di-n-butyl ether. Chemical Engineering Research and Design, 2015, 102, 186-195.	5.6	3
86	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
87	Effect of internal diffusion on liquid-phase synthesis of MTBE. Studies in Surface Science and Catalysis, 2000, , 2609-2614.	1.5	2
88	The Effect of Ether on the Reaction Rate of MTBE Synthesis. Industrial & Engineering Chemistry Research, 2001, 40, 1348-1354.	3.7	2
89	Experimental Study of Chemical Equilibria in the Liquid-Phase Reaction between 1-Octanol and Ethanol to 1-Ethoxyoctane. Journal of Chemical & Engineering Data, 2013, 58, 2076-2082.	1.9	2
90	Determination of Thermodynamic Properties for the Esterification of Levulinic Acid with 1-Butene. Industrial & Engineering Chemistry Research, 0, , .	3.7	2

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91	Effect of solubility parameter on the MTBE synthesis kinetics. Studies in Surface Science and Catalysis, 1997, 109, 541-546.	1.5	1
92	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