

# Javier Tejero

## List of Publications by Year in descending order

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92  
papers

2,006  
citations

201674

27  
h-index

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38  
g-index

93  
all docs

93  
docs citations

93  
times ranked

1061  
citing authors

| #  | ARTICLE                                                                                                                                                                                                                                                        | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1  | Assessment of ion exchange resins as catalysts for the direct transformation of fructose into butyl levulinate. <i>Applied Catalysis A: General</i> , 2021, 612, 117988.                                                                                       | 4.3 | 22        |
| 2  | Experimental Study on the Liquid-Phase Adsorption Equilibrium of <i>n</i> -Butanol over Amberlyst <sup>®</sup> 15 and Contribution of Diffusion Resistances. <i>Chemical Engineering and Technology</i> , 2021, 44, 2210-2219.                                 | 1.5 | 1         |
| 3  | Optimization and green metrics analysis of the liquid-phase synthesis of <i>sec</i> -butyl levulinate by esterification of levulinic acid with 1-butene over ion-exchange resins. <i>Fuel Processing Technology</i> , 2021, 220, 106893.                       | 7.2 | 10        |
| 4  | Catalytic Hydroxyalkylation/Alkylation of 2-Methylfuran with Butanal to Form a Biodiesel Precursor Using Acidic Ion-Exchange Resins. <i>Industrial &amp; Engineering Chemistry Research</i> , 2020, 59, 20676-20685.                                           | 3.7 | 9         |
| 5  | Liquid-phase synthesis of butyl levulinate with simultaneous water removal catalyzed by acid ion exchange resins. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 78, 222-231.                                                                  | 5.8 | 13        |
| 6  | Esterification of furfuryl alcohol to butyl levulinate over ion-exchange resins. <i>Fuel</i> , 2019, 257, 116010.                                                                                                                                              | 6.4 | 37        |
| 7  | Catalytic activity dependence on morphological properties of acidic ion-exchange resins for the simultaneous ETBE and TAAE liquid-phase synthesis. <i>Reaction Chemistry and Engineering</i> , 2018, 3, 195-205.                                               | 3.7 | 18        |
| 8  | Adsorption of <i>C</i> <sub>1</sub> - <i>C</i> <sub>4</sub> Alcohols, <i>C</i> <sub>4</sub> - <i>C</i> <sub>5</sub> Isoolefins, and their Corresponding Ethers over Amberlyst <sup>®</sup> 35. <i>Chemical Engineering and Technology</i> , 2017, 40, 889-899. | 1.5 | 10        |
| 9  | Simultaneous etherification of isobutene with ethanol and 1-butanol over ion-exchange resins. <i>Applied Catalysis A: General</i> , 2017, 541, 141-150.                                                                                                        | 4.3 | 9         |
| 10 | Role of ion-exchange resins as catalyst in the reaction network of transformation of biomass into biofuels. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2775-2786.                                                                     | 3.2 | 34        |
| 11 | Kinetics of the liquid phase dehydration of 1-octanol to di-n-octyl ether on Amberlyst 70. <i>AIChE Journal</i> , 2017, 63, 3966-3978.                                                                                                                         | 3.6 | 5         |
| 12 | 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. <i>Applied Catalysis A: General</i> , 2017, 545, 10-16.                                           | 4.3 | 3         |
| 13 | Implementing the flipped classroom methodology to the subject "Applied computing" of the chemical engineering degree at the University of Barcelona. <i>Journal of Technology and Science Education</i> , 2017, 7, 119.                                        | 1.2 | 5         |
| 14 | Kinetic study of 1-butanol dehydration to <i>n</i> -butyl ether over Amberlyst 70. <i>AIChE Journal</i> , 2016, 62, 180-194.                                                                                                                                   | 3.6 | 8         |
| 15 | Esterification of levulinic acid with butanol over ion exchange resins. <i>Applied Catalysis A: General</i> , 2016, 517, 56-66.                                                                                                                                | 4.3 | 97        |
| 16 | Effect of water addition on the simultaneous liquid-phase etherification of isobutene and isoamylenes with ethanol over amberlyst <sup>®</sup> 35. <i>Catalysis Today</i> , 2015, 256, 336-346.                                                                | 4.4 | 6         |
| 17 | Synthesis of ethyl hexyl ether over acidic ion-exchange resins for cleaner diesel fuel. <i>Catalysis Science and Technology</i> , 2015, 5, 2238-2250.                                                                                                          | 4.1 | 15        |
| 18 | Thermodynamic equilibrium for the dehydration of 1-butanol to di-n-butyl ether. <i>Chemical Engineering Research and Design</i> , 2015, 102, 186-195.                                                                                                          | 5.6 | 3         |

| #  | ARTICLE                                                                                                                                                                                                                                                      | IF   | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Kinetic study of ethyl octyl ether formation from ethanol and 1-octanol on Amberlyst 70. <i>AICHE Journal</i> , 2014, 60, 2918-2928.                                                                                                                         | 3.6  | 8         |
| 20 | Influence of the functionalization degree of acidic ion-exchange resins on ethyl octyl ether formation. <i>Reactive and Functional Polymers</i> , 2014, 78, 14-22.                                                                                           | 4.1  | 5         |
| 21 | Kinetics of 1-hexanol etherification on Amberlyst 70. <i>Chemical Engineering Journal</i> , 2014, 246, 71-78.                                                                                                                                                | 12.7 | 17        |
| 22 | Revamping of teaching-learning methodologies in laboratory subjects of the Chemical Engineering undergraduate degree of the University of Barcelona for their adjustment to the Bologna process. <i>Education for Chemical Engineers</i> , 2014, 9, e43-e49. | 4.8  | 18        |
| 23 | Ion exchange resins as catalysts for the liquid-phase dehydration of 1-butanol to di-n-butyl ether. <i>Applied Catalysis A: General</i> , 2014, 482, 38-48.                                                                                                  | 4.3  | 33        |
| 24 | Reliability of the synthesis of C10-C16 linear ethers from 1-alkanols over acidic ion-exchange resins. <i>Biomass Conversion and Biorefinery</i> , 2013, 3, 27-37.                                                                                           | 4.6  | 7         |
| 25 | Thermal stability and water effect on ion-exchange resins in ethyl octyl ether production at high temperature. <i>Applied Catalysis A: General</i> , 2013, 467, 301-309.                                                                                     | 4.3  | 21        |
| 26 | Chemical Equilibrium of the Liquid-Phase Dehydration of 1-Octanol to 1-(Octyloxy)octane. <i>Journal of Chemical &amp; Engineering Data</i> , 2013, 58, 741-748.                                                                                              | 1.9  | 6         |
| 27 | Experimental Study of Chemical Equilibria in the Liquid-Phase Reaction between 1-Octanol and Ethanol to 1-Ethoxyoctane. <i>Journal of Chemical &amp; Engineering Data</i> , 2013, 58, 2076-2082.                                                             | 1.9  | 2         |
| 28 | Influence of acid ion-exchange resins morphology in a swollen state on the synthesis of ethyl octyl ether from ethanol and 1-octanol. <i>Journal of Catalysis</i> , 2013, 304, 7-21.                                                                         | 6.2  | 27        |
| 29 | Comparison between Ethanol and Diethyl Carbonate as Ethylating Agents for Ethyl Octyl Ether Synthesis over Acidic Ion-Exchange Resins. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 16525-16530.                                       | 3.7  | 12        |
| 30 | Synthesis of ethyl octyl ether from diethyl carbonate and 1-octanol over solid catalysts. A screening study. <i>Applied Catalysis A: General</i> , 2012, 413-414, 21-29.                                                                                     | 4.3  | 19        |
| 31 | Kinetics of 1-Pentanol Etherification without Water Removal. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 7911-7919.                                                                                                                   | 3.7  | 11        |
| 32 | Liquid-phase dehydration of 1-octanol, 1-hexanol and 1-pentanol to linear symmetrical ethers over ion exchange resins. <i>Applied Catalysis A: General</i> , 2011, 396, 129-139.                                                                             | 4.3  | 49        |
| 33 | Conversion of 1-hexanol to di-n-hexyl ether on acidic catalysts. <i>Applied Catalysis A: General</i> , 2010, 374, 41-47.                                                                                                                                     | 4.3  | 29        |
| 34 | Isoamylene Trimerization in Liquid-Phase over Ion Exchange Resins and Zeolites. <i>Industrial &amp; Engineering Chemistry Research</i> , 2010, 49, 3561-3570.                                                                                                | 3.7  | 16        |
| 35 | Liquid-phase dehydrocondensation of 1-pentanol to di-n-pentyl ether (DNPE) over medium and large pore acidic zeolites. <i>Microporous and Mesoporous Materials</i> , 2009, 117, 650-660.                                                                     | 4.4  | 18        |
| 36 | Supported Nafion catalyst for 1-pentanol dehydration reaction in liquid phase. <i>Chemical Engineering Journal</i> , 2008, 145, 135-141.                                                                                                                     | 12.7 | 14        |

| #  | ARTICLE                                                                                                                                                                                                                    | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Study of the Chemical Equilibrium of the Liquid-Phase Dehydration of 1-Hexanol to Dihexyl Ether. <i>Journal of Chemical &amp; Engineering Data</i> , 2008, 53, 2854-2860.                                                  | 1.9 | 19        |
| 38 | Zeolite catalysed dehydration of alcohol to linear ether. <i>Studies in Surface Science and Catalysis</i> , 2008, , 1115-1118.                                                                                             | 1.5 | 3         |
| 39 | Experimental Study of the Chemical Equilibria in the Liquid-Phase Dehydration of 1-Pentanol to Di-n-pentyl Ether. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 6865-6872.                            | 3.7 | 17        |
| 40 | Liquid-phase synthesis of isopropyl tert-butyl ether by addition of 2-propanol to isobutene on the oversulfonated ion-exchange resin Amberlyst-35. <i>Applied Catalysis A: General</i> , 2007, 323, 38-50.                 | 4.3 | 13        |
| 41 | Kinetic modelling of the liquid-phase dimerization of isoamylenes on Amberlyst 35. <i>Reactive and Functional Polymers</i> , 2007, 67, 210-224.                                                                            | 4.1 | 34        |
| 42 | Water effect on the kinetics of 1-pentanol dehydration to di-n-pentyl ether (DNPE) on amberlyst 70. <i>Topics in Catalysis</i> , 2007, 45, 181-186.                                                                        | 2.8 | 22        |
| 43 | AFM Observation of Ca(OH) <sub>2</sub> (0001) Surfaces Reacted with SO <sub>2</sub> : Role of Water Vapour on Product Morphology. <i>Chemistry Letters</i> , 2006, 35, 24-25.                                              | 1.3 | 6         |
| 44 | Dehydration of 1-pentanol to di-n-pentyl ether catalyzed by a microporous ion-exchange resin with simultaneous water removal. <i>Applied Catalysis A: General</i> , 2006, 308, 223-230.                                    | 4.3 | 15        |
| 45 | Description of the pervaporation dehydration performance of A-type zeolite membranes: A modeling approach based on the Maxwell-Stefan theory. <i>Catalysis Today</i> , 2006, 118, 73-84.                                   | 4.4 | 55        |
| 46 | 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. <i>Journal of Catalysis</i> , 2006, 238, 330-341. | 6.2 | 26        |
| 47 | Thermally stable ion-exchange resins as catalysts for the liquid-phase dehydration of 1-pentanol to di-n-pentyl ether (DNPE). <i>Journal of Catalysis</i> , 2006, 244, 33-42.                                              | 6.2 | 61        |
| 48 | Water-induced rearrangement of Ca(OH) <sub>2</sub> (0001) surfaces reacted with SO <sub>2</sub> . <i>AIChE Journal</i> , 2006, 52, 2876-2886.                                                                              | 3.6 | 12        |
| 49 | Zeolite-catalysed liquid-phase synthesis of isopropyl -butyl ether by the addition of 2-propanol to isobutene. <i>Journal of Catalysis</i> , 2005, 231, 77-91.                                                             | 6.2 | 11        |
| 50 | Kinetic modeling of the reaction between hydrated lime and SO <sub>2</sub> at low temperature. <i>AIChE Journal</i> , 2005, 51, 1455-1466.                                                                                 | 3.6 | 26        |
| 51 | Acid ion-exchange resins catalysts for the liquid-phase dimerization/etherification of isoamylenes in methanol or ethanol presence. <i>Reactive and Functional Polymers</i> , 2005, 65, 149-160.                           | 4.1 | 43        |
| 52 | Enhancement of Gas Desulfurization with Hydrated Lime at Low Temperature by the Presence of NO <sub>2</sub> . <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 9040-9049.                                | 3.7 | 17        |
| 53 | Conversion, Selectivity, and Kinetics of the Dehydration of 1-Pentanol to Di-n-Pentyl Ether Catalyzed by a Microporous Ion-Exchange Resin. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 318-324.     | 3.7 | 16        |
| 54 | Experimental Study of the Liquid-Phase Simultaneous Syntheses of Methyltert-Butyl Ether (MTBE) and tert-Butyl Alcohol (TBA). <i>Industrial &amp; Engineering Chemistry Research</i> , 2002, 41, 5359-5365.                 | 3.7 | 11        |

| #  | ARTICLE                                                                                                                                                                                                                      | IF   | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Dehydration of 1-pentanol to di-n-pentyl ether over ion-exchange resin catalysts. <i>Journal of Molecular Catalysis A</i> , 2002, 182-183, 541-554.                                                                          | 4.8  | 43        |
| 56 | The Effect of Ether on the Reaction Rate of MTBE Synthesis. <i>Industrial &amp; Engineering Chemistry Research</i> , 2001, 40, 1348-1354.                                                                                    | 3.7  | 2         |
| 57 | Comparative study of IPTBE synthesis on HZSM-5 and ion-exchange resin catalysts. <i>Catalysis Today</i> , 2001, 65, 381-389.                                                                                                 | 4.4  | 7         |
| 58 | Kinetic study of the reaction between sulfur dioxide and calcium hydroxide at low temperature in a fixed-bed reactor. <i>Journal of Hazardous Materials</i> , 2000, 76, 113-123.                                             | 12.4 | 31        |
| 59 | Effect of internal diffusion on liquid-phase synthesis of MTBE. <i>Studies in Surface Science and Catalysis</i> , 2000, , 2609-2614.                                                                                         | 1.5  | 2         |
| 60 | Conversion, Selectivity, and Kinetics of the Addition of Isopropanol to Isobutene Catalyzed by a Macroporous Ion-Exchange Resin. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 1235-1241.               | 3.7  | 21        |
| 61 | Drying of Acidic Macroporous Styrene <sup>2</sup> -Divinylbenzene Resins with 12 <sup>2</sup> -20 Cross-Linking Degree. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 1416-1422.                        | 3.7  | 18        |
| 62 | Enhancing MTBE rate equation by considering reaction medium influence. <i>AIChE Journal</i> , 1998, 44, 2273-2279.                                                                                                           | 3.6  | 23        |
| 63 | The effect of the reaction medium on the kinetics of the liquid-phase addition of methanol to isobutene. <i>Applied Catalysis A: General</i> , 1998, 169, 165-177.                                                           | 4.3  | 26        |
| 64 | Catalytic Activity and Deactivation of Acidic Ion-Exchange Resins in Methyltert-Butyl Ether Liquid-Phase Synthesis. <i>Industrial &amp; Engineering Chemistry Research</i> , 1998, 37, 3575-3581.                            | 3.7  | 28        |
| 65 | Effect of solubility parameter on the MTBE synthesis kinetics. <i>Studies in Surface Science and Catalysis</i> , 1997, 109, 541-546.                                                                                         | 1.5  | 1         |
| 66 | Experimental Study of the Simultaneous Synthesis of Methyl tert-Butyl Ether and Ethyl tert-Butyl Ether in Liquid Phase. <i>Industrial &amp; Engineering Chemistry Research</i> , 1997, 36, 4756-4762.                        | 3.7  | 29        |
| 67 | Equilibrium Constants for the Liquid-Phase Synthesis of Isopropyltert-Butyl Ether from 2-Propanol and Isobutene. <i>Industrial &amp; Engineering Chemistry Research</i> , 1997, 36, 896-902.                                 | 3.7  | 14        |
| 68 | The formation of byproducts in the reaction of synthesis of isopropyl tert-butyl ether from isopropyl alcohol and isobutene on an acidic macroporous copolymer. <i>Reactive and Functional Polymers</i> , 1997, 33, 201-209. | 4.1  | 16        |
| 69 | Scope and limitations of mechanistic inferences from kinetic studies on acidic macroporous resins The MTBE liquid-phase synthesis case. <i>Applied Catalysis A: General</i> , 1996, 134, 21-36.                              | 4.3  | 34        |
| 70 | Equilibrium and thermodynamics for 2-methyl-2-methoxybutane liquid-phase decomposition. <i>Thermochimica Acta</i> , 1995, 259, 111-120.                                                                                      | 2.7  | 8         |
| 71 | Thermodynamic and Kinetic Studies of the Liquid Phase Synthesis of tert-Butyl Ethyl Ether Using a Reaction Calorimeter. <i>Industrial &amp; Engineering Chemistry Research</i> , 1995, 34, 3718-3725.                        | 3.7  | 23        |
| 72 | Kinetic study of mtbe liquid-phase synthesis using C4 olefinic cut. <i>Chemical Engineering Science</i> , 1994, 49, 4563-4578.                                                                                               | 3.8  | 44        |

| #  | ARTICLE                                                                                                                                                                                                                                            | IF  | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Equilibrium Constants for Methyl tert-Butyl Ether and Ethyl tert-Butyl Ether Liquid-Phase Syntheses using C4 Olefinic Cut. <i>Industrial &amp; Engineering Chemistry Research</i> , 1994, 33, 2830-2835.                                           | 3.7 | 45        |
| 74 | Kinetics of the Liquid-Phase Synthesis of Ethyl tert-Butyl Ether (ETBE). <i>Industrial &amp; Engineering Chemistry Research</i> , 1994, 33, 581-591.                                                                                               | 3.7 | 75        |
| 75 | Drying of acidic macroporous styrene-divinylbenzene resins. <i>Reactive &amp; Functional Polymers</i> , 1993, 21, 65-76.                                                                                                                           | 0.8 | 30        |
| 76 | Kinetic study of isobutene dimerization catalyzed by a macroporous sulphonic acid resin. <i>Applied Catalysis A: General</i> , 1993, 106, 155-165.                                                                                                 | 4.3 | 35        |
| 77 | Effect of water presence on methyl tert-butyl ether and ethyl tert-butyl ether liquid-phase syntheses. <i>Industrial &amp; Engineering Chemistry Research</i> , 1993, 32, 564-569.                                                                 | 3.7 | 57        |
| 78 | EQUILIBRIUM CONSTANTS FOR ETHYL tert-BUTYL ETHER LIQUID-PHASE SYNTHESIS. <i>Chemical Engineering Communications</i> , 1993, 124, 223-232.                                                                                                          | 2.6 | 35        |
| 79 | Fly Ash Reactivation for the Desulfurization of Coal-Fired Utility Station's Flue Gas. <i>Separation Science and Technology</i> , 1992, 27, 61-72.                                                                                                 | 2.5 | 11        |
| 80 | Equilibrium constants for methyl tert-butyl ether liquid-phase synthesis. <i>Journal of Chemical &amp; Engineering Data</i> , 1992, 37, 339-343.                                                                                                   | 1.9 | 48        |
| 81 | 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. <i>Industrial &amp; Engineering Chemistry Research</i> , 1992, 31, 1840-1848. | 3.7 | 28        |
| 82 | Reactivation of fly ash and calcium hydroxide mixtures for sulfur dioxide removal of flue gas. <i>Industrial &amp; Engineering Chemistry Research</i> , 1991, 30, 2143-2147.                                                                       | 3.7 | 51        |
| 83 | Influence of different additives on the reaction between hydrated lime and sulfur dioxide. <i>Environmental Progress</i> , 1991, 10, 273-277.                                                                                                      | 0.7 | 9         |
| 84 | Influence of resin structure on the addition of ethanol to isobutene in the vapour phase. <i>British Polymer Journal</i> , 1990, 23, 117-127.                                                                                                      | 0.7 | 13        |
| 85 | Influence of resin type and water on the kinetics of the decomposition of methyl tert-butyl ether in the gas phase. <i>Reactive &amp; Functional Polymers</i> , 1989, 10, 175-184.                                                                 | 0.8 | 11        |
| 86 | Equilibrium constant for ethyl tert-butyl ether vapor-phase synthesis. <i>Journal of Chemical &amp; Engineering Data</i> , 1989, 34, 1-5.                                                                                                          | 1.9 | 17        |
| 87 | Vapor-phase addition of methanol to isobutene on a macroporous resin. A kinetic study. <i>Industrial &amp; Engineering Chemistry Research</i> , 1989, 28, 1269-1277.                                                                               | 3.7 | 34        |
| 88 | Equilibrium constant for the methyl tert-butyl ether vapor-phase synthesis. <i>Industrial &amp; Engineering Chemistry Research</i> , 1988, 27, 338-343.                                                                                            | 3.7 | 36        |
| 89 | Influence of water on the gas-phase decomposition of methyl tert-Butyl ether catalysed by a macroporous ion-exchange resin. <i>Applied Catalysis</i> , 1988, 38, 327-340.                                                                          | 0.8 | 23        |
| 90 | Kinetics of decomposition of methyl tert-butyl ether in the gas phase on amberlyst 15 as a catalyst. <i>Applied Catalysis</i> , 1987, 34, 341-351.                                                                                                 | 0.8 | 26        |

| #  | ARTICLE                                                                                                                                               | IF  | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | Molecular mechanisms of MTBE synthesis on a sulphonic acid ion exchange resin. Journal of Molecular Catalysis, 1987, 42, 257-268.                     | 1.2 | 25        |
| 92 | Determination of Thermodynamic Properties for the Esterification of Levulinic Acid with 1-Butene. Industrial & Engineering Chemistry Research, 0, , . | 3.7 | 2         |