A Vicent Orchilles Balbastre

List of Publications by Year
in descending order

43 papers	2,612 citations	201385 27 h-index	253896 43 g-index
43 all docs	43 docs citations	43 times ranked	1869 citing authors

#	Article	IF	Citations
1	Current views on the mechanism of catalytic cracking. Microporous and Mesoporous Materials, 2000, 35-36, 21-30.	2.2	342
2	Cracking Activity and Hydrothermal Stability of MCM-41 and Its Comparison with Amorphous Silica-Alumina and a USY Zeolite. Journal of Catalysis, 1996, 159, 375-382.	3.1	281
3	Volumetric and Ultrasonic Studies of 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate Ionic Liquid with Methanol, Ethanol, 1-Propanol, and Water at Several Temperatures. Journal of Chemical & Engineering Data, 2007, 52, 1468-1482.	1.0	183
4	Decalin and Tetralin as Probe Molecules for Cracking and Hydrotreating the Light Cycle Oil. Journal of Catalysis, 2001, 200, 34-44.	3.1	171
5	Ionic Liquids as Entrainers in Extractive Distillation:Â Isobaric Vaporâˆ’Liquid Equilibria for Acetone + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate. Journal of Chemical & Engineering Data, 2007, 52, 141-147.	1.0	121
6	The Role of Reaction Temperature and Cracking Catalyst Characteristics in Determining the Relative Rates of Protolytic Cracking, Chain Propagation, and Hydrogen Transfer. Journal of Catalysis, 1994, 145, 171-180.	3.1	118
7	Methylcyclohexane and methylcyclohexene cracking over zeolite Y catalysts. Applied Catalysis, 1990, 67, 307-324.	1.1	83
8	Catalytic activity of large-pore high Si/Al zeolites: Cracking of heptane on H-Beta and dealuminated HY zeolites. Journal of Catalysis, 1987, 107, 288-295.	3.1	81
9	Isobaric Vaporâˆ’Liquid Equilibria for Ethyl Acetate + Ethanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa. Journal of Chemical & Engineering Data, 2007, 52, 2325-2330.	1.0	75
10	Catalytic cracking of alkanes on MCM-22 zeolite. Comparison with ZSM-5 and beta zeolite and its possibility as an FCC cracking additive. Applied Catalysis A: General, 1995, 129, 203-215.	2.2	74
11	The role of pore topology on the behaviour of FCC zeolite additives. Applied Catalysis A: General, 1999, 187, 245-254.	2.2	73
12	Isobaric Vaporâˆ’Liquid Equilibria for Methyl Acetate + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa. Journal of Chemical & Engineering Data, 2007, 52, 915-920.	1.0	73
13	Using 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate as an Entrainer for the Extractive Distillation of Ethanol + Water Mixtures. Journal of Chemical & Engineering Data, 2010, 55, 1669-1674.	1.0	65
14	Influence of hydrocarbon chain length and zeolite structure on the catalyst activity and deactivation for n-alkanes cracking. Applied Catalysis A: General, 1994, 117, 29-40.	2.2	57
15	Isobaric Vaporâˆ’Liquid Equilibria for 1-Propanol + Water + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa. Journal of Chemical & Engineering Data, 2008, 53, 2426-2431.	1.0	57
16	Volumetric and Acoustic Properties of Aqueous Solutions of Trifluoromethanesulfonate-Based Ionic Liquids at Several Temperatures. Journal of Chemical & Engineering Data, 2012, 57, 1953-1963.	1.0	50
17	1-Ethyl-3-methylimidazolium Dicyanamide as a Very Efficient Entrainer for the Extractive Distillation of the Acetone + Methanol System. Journal of Chemical & Engineering Data, 2012, 57, 394-399.	1.0	49
18	Cracking Behavior of Zeolites with Connected 12- and 10-Member Ring Channels: The Influence of Pore Structure on Product Distribution. Journal of Catalysis, 1997, 167, 438-446.	3.1	48

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19	Isobaric Vaporâ€"Liquid Equilibria for the Extractive Distillation of Ethanol + Water Mixtures Using 1-Ethyl-3-methylimidazolium Dicyanamide. Journal of Chemical & Engineering Data, 2011, 56, 4875-4880.	1.0	46
20	Cracking of n-heptane on a hzsm-5 zeolite. The influence of acidity and pore structure. Applied Catalysis, 1985, 16, 59-74.	1.1	45
21	Formation of products responsible for motor and research octane of gasolines produced by cracking The implication of framework Si/Al ratio and operation variables. Journal of Catalysis, 1989, 115, 551-566.	3.1	45
22	Product selectivity effects during cracking of alkanes at very short and longer times on stream. Applied Catalysis A: General, 1996, 138, 57-73.	2.2	43
23	Isobaric Vaporâ€"Liquid Equilibria of 1-Propanol + Water + Trifluoromethanesulfonate-Based Ionic Liquid Ternary Systems at 100 kPa. Journal of Chemical & Engineering Data, 2011, 56, 4454-4460.	1.0	41
24	Isobaric vapor-liquid equilibria for the extractive distillation of 2-propanol + water mixtures using 1-ethyl-3-methylimidazolium dicyanamide ionic liquid. Journal of Chemical Thermodynamics, 2017, 110, 16-24.	1.0	37
25	Influence of Some Ionic Liquids Containing the Trifluoromethanesulfonate Anion on the Vaporâ€"Liquid Equilibria of the Acetone + Methanol System. Journal of Chemical & Engineering Data, 2011, 56, 4430-4435.	1.0	34
26	Isobaric vaporâ€"liquid equilibria for acetone+methanol+lithium nitrate at 100kPa. Fluid Phase Equilibria, 2006, 250, 131-137.	1.4	32
27	Ultrasonic and Volumetric Properties of 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate Ionic Liquid with 2-Propanol or Tetrahydrofuran at Several Temperatures. Journal of Chemical & Engineering Data, 2011, 56, 4633-4642.	1.0	30
28	Cracking of long-chain alkyl aromatics on USY zeolite catalysts. Journal of Catalysis, 1992, 135, 45-59.	3.1	27
29	Zeolite Effects on the Cracking of Long Chain Alkyl Aromatics. Journal of Catalysis, 1994, 145, 181-186.	3.1	27
30	Volumetric properties of binary mixtures of ionic liquid 1-butyl-3-methylimidazolium octylsulfate with water or propanol in the temperature range of 278.15K to 328.15K. Journal of Chemical Thermodynamics, 2006, 38, 1124-1129.	1.0	27
31	Comparison of the activity, selectivity and decay properties of lay and hyultrastable zeolites during the cracking of alkanes. Applied Catalysis, 1984, 12, 105-116.	1.1	21
32	Kinetics of the Catalytic Cracking of Paraffins at Very Short Times on Stream. Journal of Catalysis, 1994, 145, 58-64.	3.1	21
33	Isobaric Vaporâ^'Liquid and Liquidâ^'Liquid Equilibria for Chloroform + Ethanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa. Journal of Chemical & Engineering Data, 2008, 53, 2642-2648.	1.0	20
34	Influence of the process variables on the product distribution and catalyst decay during cracking of paraffins. Applied Catalysis, 1986, 23, 255-269.	1.1	17
35	Isobaric Vaporâ^'Liquid and Liquidâ^'Liquid Equilibria for Chloroform + Methanol + 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate at 100 kPa. Journal of Chemical & Engineering Data, 2010, 55, 1209-1214.	1.0	16
36	Can Macroscopic Parameters, Such as Conversion and Selectivity, Distinguish between Different Cracking Mechanisms on Acid Catalysts?. Journal of Catalysis, 1997, 172, 355-369.	3.1	14

#	Article	IF	Citations
37	Isobaric vaporâ€“liquid equilibria for 1-propanol + water + lithium chloride at 100 kPa. Fluid Phase Equilibria, 2004, 216, 47-52.	1.4	14
38	Thermophysical properties of binary mixtures of 1-butyl-1-methylpyrrolidinium trifluoromethanesulfonate ionic liquid with alcohols at several temperatures. Journal of Chemical Thermodynamics, 2018, 118, 292-301.	1.0	14
39	Isobaric vapor-liquid equilibria for the 1-propanol + water + 1-ethyl-3-methylimidazolium dicyanamide system at 100 kPa. Journal of Chemical Thermodynamics, 2017, 113, 116-123.	1.0	11
40	Isobaric vaporâ€“liquid equilibria for 1-propanol+water+copper(II) chloride at 100kPa. Fluid Phase Equilibria, 2005, 227, 239-244.	1.4	10
41	Isobaric vapor-liquid equilibria for the extractive distillation of tert-butyl alcoholâ€¯+â€¯water mixtures using 1-ethyl-3-methylimidazolium dicyanamide ionic liquid. Journal of Chemical Thermodynamics, 2019, 139, 105866.	1.0	7
42	On the Limitations To Establish the Contribution of the Different Reaction Mechanisms from Selectivity Data, During Cracking of Long-Chain Linear Paraffins. Industrial & Engineering Chemistry Research, 1997, 36, 3400-3415.	1.8	6
43	Isobaric Vaporâˆ’Liquid Equilibria for Water + Acetic Acid + Potassium Acetate. Journal of Chemical & Engineering Data, 2004, 49, 566-569.	1.0	6