JosÃ© MarÃ-a Arandes

List of Publications by Year
in descending order

141 papers	4,551 citations	94433 37 h-index	138484 58 g-index
143 all docs	143 docs citations	143 times ranked	2781 citing authors

#	Article	IF	Citations
1	Stable operation conditions for gas-solid contact regimes in conical spouted beds. Industrial & Engineering Chemistry Research, 1992, 31, 1784-1792.	3.7	223
2	Opportunities and barriers for producing high quality fuels from the pyrolysis of scrap tires. Renewable and Sustainable Energy Reviews, 2016, 56, 745-759.	16.4	197
3	Kinetic Modeling of Dimethyl Ether Synthesis in a Single Step on a CuOâˆ’ZnOâˆ’Al₂O₃/Î³-Al₂O₃ Catalyst. Industrial & Engineering Chemistry Research, 2007, 46, 5522-5530.	3.7	162
4	Effect of operating conditions on the synthesis of dimethyl ether over a CuO-ZnO-Al2O3/NaHZSM-5 bifunctional catalyst. Catalysis Today, 2005, 107-108, 467-473.	4.4	141
5	Dual coke deactivation pathways during the catalytic cracking of raw bio-oil and vacuum gasoil in FCC conditions. Applied Catalysis B: Environmental, 2016, 182, 336-346.	20.2	133
6	Waste Refinery: The Valorization of Waste Plastics and End-of-Life Tires in Refinery Units. A Review. Energy & Fuels, 2021, 35, 3529-3557.	5.1	116
7	Stability of an acid activated carbon based bifunctional catalyst for the raw bio-oil hydrodeoxygenation. Applied Catalysis B: Environmental, 2017, 203, 389-399.	20.2	114
8	Transformation of Several Plastic Wastes into Fuels by Catalytic Cracking. Industrial & Engineering Chemistry Research, 1997, 36, 4523-4529.	3.7	100
9	Revealing the pathways of catalyst deactivation by coke during the hydrodeoxygenation of raw bio-oil. Applied Catalysis B: Environmental, 2018, 239, 513-524.	20.2	87
10	Design factors of conical spouted beds and jet spouted beds. Industrial & Engineering Chemistry Research, 1993, 32, 1245-1250.	3.7	82
11	Pressure drop in conical spouted beds. The Chemical Engineering Journal, 1993, 51, 53-60.	0.3	80
12	Synergy in the Cracking of a Blend of Bio-oil and Vacuum Gasoil under Fluid Catalytic Cracking Conditions. Industrial & Engineering Chemistry Research, 2016, 55, 1872-1880.	3.7	68
13	Enhancement of pyrolysis gasoline hydrogenation over Pd-promoted Ni/SiO2â€“Al2O3 catalysts. Fuel, 2007, 86, 2262-2274.	6.4	64
14	Upgrading model compounds and Scrap Tires Pyrolysis Oil (STPO) on hydrotreating NiMo catalysts with tailored supports. Fuel, 2015, 145, 158-169.	6.4	64
15	Catalytic cracking of raw bio-oil under FCC unit conditions over different zeolite-based catalysts. Journal of Industrial and Engineering Chemistry, 2019, 78, 372-382.	5.8	64
16	Effect of HZSM-5 Zeolite Addition to a Fluid Catalytic Cracking Catalyst. Study in a Laboratory Reactor Operating under Industrial Conditions. Industrial & Engineering Chemistry Research, 2000, 39, 1917-1924.	3.7	63
17	Deactivating Species Deposited on Ptâ€“Pd Catalysts in the Hydrocracking of Light-Cycle Oil. Energy & Fuels, 2012, 26, 1509-1519.	5.1	63
18	Correlation for calculation of the gas dispersion coefficient in conical spouted beds. Chemical Engineering Science, 1995, 50, 2161-2172.	3.8	60

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19	Regeneration of CuO-ZnO-Al2O3/Î³-Al2O3 catalyst in the direct synthesis of dimethyl ether. Applied Catalysis B: Environmental, 2010, 94, 108-116.	20.2	60
20	Design and Operation of a Catalytic Polymerization Reactor in a Dilute Spouted Bed Regime. Industrial & Engineering Chemistry Research, 1997, 36, 1637-1643.	3.7	58
21	Preliminary studies on fuel production through LCO hydrocracking on noble-metal supported catalysts. Fuel, 2012, 94, 504-515.	6.4	56
22	Design and operation of a jet spouted bed reactor with continuous catalyst feed in the benzyl alcohol polymerization. Industrial & Engineering Chemistry Research, 1987, 26, 1297-1304.	3.7	55
23	Fuel production by cracking of polyolefins pyrolysis waxes under fluid catalytic cracking (FCC) operating conditions. Waste Management, 2019, 93, 162-172.	7.4	52
24	Role of Acidity in the Deactivation and Steady Hydroconversion of Light Cycle Oil on Noble Metal Supported Catalysts. Energy & Fuels, 2011, 25, 3389-3399.	5.1	51
25	Expansion of spouted beds in conical contactors. The Chemical Engineering Journal, 1993, 51, 45-52.	0.3	50
26	Study of Physical Mixtures of Cr2O3â^'ZnO and ZSM-5 Catalysts for the Transformation of Syngas into Liquid Hydrocarbons. Industrial & Engineering Chemistry Research, 1998, 37, 1211-1219.	3.7	49
27	Catalytic Cracking of Waxes Produced by the Fast Pyrolysis of Polyolefins. Energy & Fuels, 2007, 21, 561-569.	5.1	49
28	Isotherms of chemical adsorption of bases on solid catalysts for acidity measurement. Journal of Chemical Technology and Biotechnology, 1994, 60, 141-146.	3.2	48
29	Thermal recycling of polystyrene and polystyrene-butadiene dissolved in a light cycle oil. Journal of Analytical and Applied Pyrolysis, 2003, 70, 747-760.	5.5	47
30	Prospects for Obtaining High Quality Fuels from the Hydrocracking of a Hydrotreated Scrap Tires Pyrolysis Oil. Energy & Fuels, 2015, 29, 5458-5466.	5.1	44
31	Effect of space velocity on the hydrocracking of Light Cycle Oil over a Ptâ€"Pd/HY zeolite catalyst. Fuel Processing Technology, 2012, 95, 8-15.	7.2	42
32	Recycled Plastics in FCC Feedstocks:â€‰ Specific Contributions. Industrial & Engineering Chemistry Research, 1997, 36, 4530-4534.	3.7	41
33	Aromatics reduction of pyrolysis gasoline (PyGas) over HY-supported transition metal catalysts. Applied Catalysis A: General, 2006, 315, 101-113.	4.3	41
34	Modelling FCC units under steady and unsteady state conditions. Canadian Journal of Chemical Engineering, 2000, 78, 111-123.	1.7	39
35	Effect of catalyst properties on the cracking of polypropylene pyrolysis waxes under FCC conditions. Catalysis Today, 2008, 133-135, 413-419.	4.4	39
36	Phosphorus-containing activated carbon as acid support in a bifunctional Ptâ€"Pd catalyst for tire oil hydrocracking. Catalysis Communications, 2016, 78, 48-51.	3.3	39

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37	Simulation and multiplicity of steady states in fluidized FCCUs. Chemical Engineering Science, 1992, 47, 2535-2540.	3.8	38
38	Catalyst used in fluid catalytic cracking (FCC) unit as a support of NiMoP catalyst for light cycle oil hydroprocessing. Fuel, 2018, 216, 142-152.	6.4	38
39	Calculation of the kinetics of deactivation by coke in an integral reactor for a triangular scheme reaction. Chemical Engineering Science, 1993, 48, 1077-1087.	3.8	36
40	Effect of the support acidity on the aromatic ring-opening of pyrolysis gasoline over Pt/HZSM-5 catalysts. Catalysis Today, 2009, 143, 115-119.	4.4	36
41	Designing supported ZnNi catalysts for the removal of oxygen from bio-liquids and aromatics from diesel. Green Chemistry, 2012, 14, 2759.	9.0	33
42	Factors influencing the thioresistance of nickel catalysts in aromatics hydrogenation. Applied Catalysis A: General, 2007, 317, 20-33.	4.3	32
43	Effect of HZSM-5 catalyst addition on the cracking of polyolefin pyrolysis waxes under FCC conditions. Chemical Engineering Journal, 2007, 132, 17-26.	12.7	32
44	HZSM-5 Zeolite As Catalyst Additive for Residue Cracking under FCC Conditions. Energy & Fuels, 2009, 23, 4215-4223.	5.1	32
45	Coke deposition and product distribution in the co-cracking of waste polyolefin derived streams and vacuum gas oil under FCC unit conditions. Fuel Processing Technology, 2019, 192, 130-139.	7.2	32
46	Effect of Atmospheric Residue Incorporation in the Fluidized Catalytic Cracking (FCC) Feed on Product Stream Yields and Composition. Energy & Fuels, 2008, 22, 2149-2156.	5.1	31
47	Towards waste refinery: Co-feeding HDPE pyrolysis waxes with VGO into the catalytic cracking unit. Energy Conversion and Management, 2020, 207, 112554.	9.2	31
48	Hydrodeoxygenation of raw bio-oil towards platform chemicals over FeMoP/zeolite catalysts. Journal of Industrial and Engineering Chemistry, 2019, 80, 392-400.	5.8	30
49	Assessing the potential of the recycled plastic slow pyrolysis for the production of streams attractive for refineries. Journal of Analytical and Applied Pyrolysis, 2019, 142, 104668.	5.5	29
50	Calculation of the kinetics of deactivation by coke of a silica-alumina catalyst in the dehydration of 2-ethylhexanol. Industrial & Engineering Chemistry Research, 1993, 32, 458-465.	3.7	28
51	Assessment of thermogravimetric methods for calculating coke combustion-regeneration kinetics of deactivated catalyst. Chemical Engineering Science, 2017, 171, 459-470.	3.8	28
52	Production of Non-Conventional Fuels by Catalytic Cracking of Scrap Tires Pyrolysis Oil. Industrial & Engineering Chemistry Research, 2019, 58, 5158-5167.	3.7	28
53	Effect of the support on the kinetic and deactivation performance of Pt/support catalysts during coupled hydrogenation and ring-opening of pyrolysis gasoline. Applied Catalysis A: General, 2007, 333, 161-171.	4.3	27
54	Effect of Pressure on the Hydrocracking of Light Cycle Oil with a Ptâ€“Pd/HY Catalyst. Energy & Fuels, 2012, 26, 5897-5904.	5.1	27

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55	Kinetic Modeling of the Hydrotreating and Hydrocracking Stages for Upgrading Scrap Tires Pyrolysis Oil (STPO) toward High-Quality Fuels. Energy & Fuels, 2015, 29, 7542-7553.	5.1	27
56	Cracking of Scrap Tires Pyrolysis Oil in a Fluidized Bed Reactor under Catalytic Cracking Unit Conditions. Effects of Operating Conditions. Energy & Fuels, 2019, 33, 3133-3143.	5.1	27
57	Catalytic deactivation pathways during the cracking of glycerol and glycerol/VGO blends under FCC unit conditions. Chemical Engineering Journal, 2017, 307, 955-965.	12.7	26
58	Upgrading of high-density polyethylene and light cycle oil mixtures to fuels via hydroprocessing. Catalysis Today, 2018, 305, 212-219.	4.4	26
59	MTG fluidized bed reactorâ€"regenerator unit with catalyst circulation: process simulation and operation of an experimental setup. Chemical Engineering Science, 2000, 55, 3223-3235.	3.8	25
60	Petcoke-derived functionalized activated carbon as support in a bifunctional catalyst for tire oil hydroprocessing. Fuel Processing Technology, 2016, 144, 239-247.	7.2	25
61	Effect of the FCC Equilibrium Catalyst Properties and of the Cracking Temperature on the Production of Fuel from HDPE Pyrolysis Waxes. Energy & Fuels, 2019, 33, 5191-5199.	5.1	25
62	Effect of the operating conditions on the conversion of syngas into liquid hydrocarbons over a Cr2O3-ZnO/ZSM5 bifunctional catalyst. Journal of Chemical Technology and Biotechnology, 1998, 72, 190-196.	3.2	24
63	Cracking of plastic pyrolysis oil over FCC equilibrium catalysts to produce fuels: Kinetic modeling. Fuel, 2022, 316, 123341.	6.4	24
64	OPTIMIZATION OF THE OPERATION IN A REACTOR WITH CONTINUOUS CATALYST CIRCULATION IN THE GASEOUS BENZYL ALCOHOL POLYMERIZATION. Chemical Engineering Communications, 1989, 75, 121-134.	2.6	23
65	Deactivation and acidity deterioration of a silica/alumina catalyst in the isomerization of cis-butene. Industrial & Engineering Chemistry Research, 1993, 32, 588-593.	3.7	23
66	Study of the preparation and composition of the metallic function for the selective hydrogenation of CO2to gasoline over bifunctional catalysts. Journal of Chemical Technology and Biotechnology, 2003, 78, 161-166.	3.2	23
67	Kinetic modelling of methylcyclohexane ring-opening over a HZSM-5 zeolite catalyst. Chemical Engineering Journal, 2008, 140, 287-295.	12.7	23
68	Kinetic Modeling for Assessing the Product Distribution in Toluene Hydrocracking on a Pt/HZSM-5 Catalyst. Industrial & Engineering Chemistry Research, 2008, 47, 1043-1050.	3.7	23
69	Effect of Temperature in Hydrocracking of Light Cycle Oil on a Noble Metalâ€Supported Catalyst for Fuel Production. Chemical Engineering and Technology, 2012, 35, 653-660.	1.5	23
70	Scrap tires pyrolysis oil as a co-feeding stream on the catalytic cracking of vacuum gasoil under fluid catalytic cracking conditions. Waste Management, 2020, 105, 18-26.	7.4	23
71	Coke deposition on silica-alumina catalysts in dehydration reactions. Industrial & Engineering Chemistry Product Research and Development, 1985, 24, 531-539.	0.5	22
72	Valorization of Polyolefins Dissolved in Light Cycle Oil over HY Zeolites under Fluid Catalytic Cracking Unit Conditions. Industrial & Engineering Chemistry Research, 2003, 42, 3952-3961.	3.7	22

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73	Upgrading of heavy coker naphtha by means of catalytic cracking in refinery FCC unit. Fuel Processing Technology, 2020, 205, 106454.	7.2	22
74	Direct Synthesis of Dimethyl Ether From (H2+CO) and (H2+CO2) Feeds. Effect of Feed Composition. International Journal of Chemical Reactor Engineering, 2005, 3, .	1.1	21
75	Influence of the Composition of Raw Bio-Oils on Their Valorization in Fluid Catalytic Cracking Conditions. Energy & Fuels, 2019, 33, 7458-7465.	5.1	21
76	Kinetic Modeling of Hydrotreating for Enhanced Upgrading of Light Cycle Oil. Industrial & Engineering Chemistry Research, 2019, 58, 13064-13075.	3.7	21
77	Effect of co-feeding HDPE on the product distribution in the hydrocracking of VGO. Catalysis Today, 2020, 353, 197-203.	4.4	21
78	Isomerization of butenes as a test reaction for measurement of solid catalyst acidity. Industrial & Engineering Chemistry Research, 1990, 29, 1172-1178.	3.7	20
79	Recycling Hydrocarbon Cuts into FCC Units. Energy & Fuels, 2002, 16, 615-621.	5.1	20
80	Kinetic Model Discrimination for Toluene Hydrogenation over Noble-Metal-Supported Catalysts. Industrial & Engineering Chemistry Research, 2007, 46, 7417-7425.	3.7	20
81	Enhancement of aromatic hydro-upgrading on a Pt catalyst by promotion with Pd and shape-selective supports. Fuel Processing Technology, 2012, 101, 64-72.	7.2	20
82	Solute transport characterization in karst aquifers by tracer injection tests for a sustainable water resource management. Journal of Hydrology, 2017, 547, 269-279.	5.4	20
83	Screening hydrotreating catalysts for the valorization of a light cycle oil/scrap tires oil blend based on a detailed product analysis. Applied Catalysis B: Environmental, 2019, 256, 117863.	20.2	20
84	Co-cracking of high-density polyethylene (HDPE) and vacuum gasoil (VGO) under refinery conditions. Chemical Engineering Journal, 2020, 382, 122602.	12.7	20
85	Valorization by thermal cracking over silica of polyolefins dissolved in LCO. Fuel Processing Technology, 2004, 85, 125-140.	7.2	19
86	Kinetic equation for the regeneration of a solid catalyst by coke-burning. Chemical Engineering Science, 1983, 38, 1356-1360.	3.8	18
87	Study of temperature-programmed desorption of tert-butylamine to measure the surface acidity of solid catalysts. Industrial & Engineering Chemistry Research, 1990, 29, 1621-1626.	3.7	18
88	Hydrodynamics of nearly flat base spouted beds. The Chemical Engineering Journal and the Biochemical Engineering Journal, 1994, 55, 27-37.	0.1	18
89	Co-feeding water to attenuate deactivation of the catalyst metallic function (CuOâ€“ZnOâ€“Al2O3) by coke in the direct synthesis of dimethyl ether. Applied Catalysis B: Environmental, 2011, 106, 167-167.	20.2	18
90	Conversion of syngas to liquid hydrocarbons over a two-component (Cr2O3â€“ZnO and ZSM-5 zeolite) catalyst:. Chemical Engineering Science, 2000, 55, 1845-1855.	3.8	17

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91	Cracking of Coker Naphtha with Gasâˆ'Oil. Effect of HZSM-5 Zeolite Addition to the Catalyst. Energy & Fuels, 2007, 21, 11-18.	5.1	16
92	The Role of Zeolite Acidity in Coupled Toluene Hydrogenation and Ring Opening in One and Two Steps. Industrial & Engineering Chemistry Research, 2008, 47, 665-671.	3.7	16
93	Effect of hydrogen on the cracking mechanisms of cycloalkanes over zeolites. Catalysis Today, 2010, 150, 363-367.	4.4	16
94	Different approaches to convert waste polyolefins into automotive fuels via hydrocracking with a NiW/HY catalyst. Fuel Processing Technology, 2021, 220, 106891.	7.2	16
95	Kinetic modeling for the catalytic cracking of tires pyrolysis oil. Fuel, 2022, 309, 122055.	6.4	16
96	Detailed nature of tire pyrolysis oil blended with light cycle oil and its hydroprocessed products using a NiW/HY catalyst. Waste Management, 2021, 128, 36-44.	7.4	15
97	Reactionâ€"regeneration cycles in the isomerization of cis-butene and calculation of the reactivation kinetics of a silicaâ€"alumina catalyst. Chemical Engineering Science, 1993, 48, 2741-2752.	3.8	14
98	A Data-Driven Reaction Network for the Fluid Catalytic Cracking of Waste Feeds. Processes, 2018, 6, 243.	2.8	14
99	A model for gas flow in jet spouted beds. Canadian Journal of Chemical Engineering, 1993, 71, 189-194.	1.7	13
100	Kinetics of Gaseous Product Formation in the Coke Combustion of a Fluidized Catalytic Cracking Catalyst. Industrial & Engineering Chemistry Research, 1999, 38, 3255-3260.	3.7	13
101	MTG Process in a Fixed-Bed Reactor. Operation and Simulation of a Pseudoadiabatic Experimental Unit. Industrial & Engineering Chemistry Research, 2001, 40, 6087-6098.	3.7	13
102	Converting the Surplus of Low-Quality Naphtha into More Valuable Products by Feeding It to a Fluid Catalytic Cracking Unit. Industrial & Engineering Chemistry Research, 2020, 59, 16868-16875.	3.7	13
103	A Hybrid FCC/HZSM-5 Catalyst for the Catalytic Cracking of a VGO/Bio-Oil Blend in FCC Conditions. Catalysts, 2020, 10, 1157.	3.5	13
104	Lessening coke formation and boosting gasoline yield by incorporating scrap tire pyrolysis oil in the cracking conditions of an FCC unit. Energy Conversion and Management, 2020, 224, 113327.	9.2	13
105	Dimerization of acetaldehyde to crotonaldehyde over silica-alumina bed operating in reaction-regeneration cycles. Industrial & Engineering Chemistry Process Design and Development, 1985, 24, 828-831.	0.6	12
106	Oil Production by Pyrolysis of Real Plastic Waste. Polymers, 2022, 14, 553.	4.5	12
107	Modelling product distribution of pyrolysis gasoline hydroprocessing on a Ptâ€"Pd/HZSM-5 catalyst. Chemical Engineering Journal, 2011, 176-177, 302-311.	12.7	11
108	Product composition and coke deposition in the hydrocracking of polystyrene blended with vacuum gasoil. Fuel Processing Technology, 2021, 224, 107010.	7.2	11

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109	Optimization of the preparation of a catalyst under deactivation. 1. Control of its kinetic behavior by electing the preparation conditions. Industrial & Engineering Chemistry Research, 1987, 26, 2403-2408.	3.7	10
110	Selective kinetic deactivation model for a triangular reaction scheme. Chemical Engineering Science, 1993, 48, 2273-2282.	3.8	10
111	Optimization of temperature-time sequences in reaction-regeneration cycles. Application to the isomerization of cis-butene. Industrial & Engineering Chemistry Research, 1993, 32, 2542-2547.	3.7	10
112	Application of a solute transport model under variable velocity conditions in a conduit flow aquifer: Olalde karst system, Basque Country, Spain. Environmental Geology, 1997, 30, 143-151.	1.2	10
113	COMPOSITION AND QUALITY OF THE GASOLINE OBTAINED FROM SYNGAS ON Cr2O3-ZnO/ZSM5 CATALYSTS. Chemical Engineering Communications, 1999, 174, 1-19.	2.6	10
114	Kinetic study of the regeneration of solid catalysts under internal diffusion restrictions. The Chemical Engineering Journal, 1987, 35, 115-122.	0.3	9
115	Gas Flow Dispersion in Jet-Spouted Beds. Effect of Geometric Factors and Operating Conditions. Industrial & Engineering Chemistry Research, 1994, 33, 3267-3273.	3.7	9
116	Valorization of the Blends Polystyrene/Light Cycle Oil and Polystyreneâ˜'Butadiene/Light Cycle Oil over HZSM-5 Zeolites. Industrial & Engineering Chemistry Research, 2003, 42, 3700-3710.	3.7	9
117	Valorization of the Blends Polystyrene/Light Cycle Oil and Polystyreneâ˜'Butadiene/Light Cycle Oil over Different HY Zeolites under FCC Unit Conditions. Energy & Fuels, 2004, 18, 218-227.	5.1	9
118	Implications of feeding or cofeeding bio-oil in the fluid catalytic cracker (FCC) in terms of regeneration kinetics and energy balance. Energy, 2020, 209, 118467.	8.8	9
119	Simulation and Optimization of Methanol Transformation into Hydrocarbons in an Isothermal Fixed-Bed Reactor under Reactionâ˜'Regeneration Cycles. Industrial & Engineering Chemistry Research, 1998, 37, 2383-2390.	3.7	8
120	Catalytic Cracking of Plastic Pyrolysis Waxes with Vacuum Gasoil: Effect of HZSM-5 Zeolite in the FCC Catalyst. International Journal of Chemical Reactor Engineering, 2006, 4, .	1.1	8
121	Taking advantage of the excess of thermal naphthas to enhance the quality of FCC unit products. Journal of Analytical and Applied Pyrolysis, 2020, 152, 104943.	5.5	8
122	Polymerization of gaseous benzyl alcohol. 2. Kinetic study of the polymerization and of the deactivation for a silica/alumina catalyst. Industrial & Engineering Chemistry Research, 1987, 26, 1960-1965.	3.7	7
123	Optimization of the preparation of a catalyst under deactivation. 2. Application to the operation in reaction-regeneration cycles. Industrial & Engineering Chemistry Research, 1989, 28, 1299-1303.	3.7	7
124	Simulation of isothermal catalytic fixed-bed reactors operated in successive reaction-regeneration cycles. The Chemical Engineering Journal, 1985, 31, 137-144.	0.3	6
125	Polymerization of gaseous benzyl alcohol. 3. Deactivation mechanism of silica/alumina catalyst. Industrial & Engineering Chemistry Research, 1989, 28, 1752-1756.	3.7	6
126	Temperature vs. time sequences to palliate deactivation in parallel and in series-parallel with the main reaction: parametric study. The Chemical Engineering Journal, 1993, 51, 167-176.	0.3	6

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127	A simplified model for gas flow in conical spouted beds. The Chemical Engineering Journal and the Biochemical Engineering Journal, 1995, 56, 19-26.	0.1	6
128	Synergy in the Cocracking under FCC Conditions of a Phenolic Compound in the Bio-oil and a Model Compound for Vacuum Gasoil. Industrial & Engineering Chemistry Research, 2020, 59, 8145-8154.	3.7	6
129	Calculation of the kinetics of catalyst regeneration by burning coke following a temperature ramp. The Chemical Engineering Journal and the Biochemical Engineering Journal, 1994, 54, 35-40.	0.1	5
130	Consistency of the ten-lump kinetic model for cracking: Study in a laboratory reactor and use for simulation of an FCCU. Chemical Engineering Communications, 2003, 190, 254-284.	2.6	5
131	Characterization of flow and transport dynamics in karst aquifers by analyzing tracer test results in conduits and recharge areas (the Egino Massif, Basque Country, Spain): environmental and management implications. Environmental Earth Sciences, 2018, 77, 1.	2.7	5
132	Fuel production via catalytic cracking of pre-hydrotreated heavy-fuel oil generated by marine-transport operations. Fuel, 2022, 325, 124765.	6.4	5
133	Valorization of Polyolefin/LCO Blend over HZSM-5 Zeolites. International Journal of Chemical Reactor Engineering, 2002, 1, .	1.1	4
134	Hydrogen Pressure as a Key Parameter to Control the Quality of the Naphtha Produced in the Hydrocracking of an HDPE/VGO Blend. Catalysts, 2022, 12, 543.	3.5	4
135	Deactivation Kinetic Model in Catalytic PolymerizationsTaking into Account the Initiation Step. Industrial & Engineering Chemistry Research, 1996, 35, 62-69.	3.7	3
136	Limitations in the energy balance when VGO/aqueous bio-oil mixtures are co-processed in FCC units. Fuel, 2022, 324, 124798.	6.4	2
137	Mechanism and Analysis of Deactivation Data in Heterogeneous Polymerizations. Studies in Surface Science and Catalysis, 1991, , 413-416.	1.5	1
138	Contributions to the calculation of coke deactivation kinetics. A comparison of methods. The Chemical Engineering Journal and the Biochemical Engineering Journal, 1994, 55, 125-134.	0.1	1
139	Pseudoadiabatic operation for fixed-bed catalytic reactors: methods for finding the limits of the regime. The Chemical Engineering Journal and the Biochemical Engineering Journal, 1995, 58, 33-44.	0.1	1
140	Operation strategies for the regeneration section of catalytic cracking units. Studies in Surface Science and Catalysis, 1999, 126, 281-288.	1.5	1
141	Contribution to the Design of an Adiabatic Fixed Bed Reactor for the MTG Process under Reaction-regeneration Cycles. Studies in Surface Science and Catalysis, 2001, 139, 319-326.	1.5	0