

Jos Mara Arandes

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

139 papers	3,558 citations	33 h-index	51 g-index
143 ext. papers	4,072 ext. citations	5.9 avg, IF	5.29 L-index

#	Paper	IF	Citations
139	Stable operation conditions for gas-solid contact regimes in conical spouted beds. <i>Industrial & Engineering Chemistry Research</i> , 1992 , 31, 1784-1792	3.9	185
138	Kinetic Modeling of Dimethyl Ether Synthesis in a Single Step on a CuO-ZnO-Al ₂ O ₃ /Al ₂ O ₃ Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 5522-5530	3.9	139
137	Opportunities and barriers for producing high quality fuels from the pyrolysis of scrap tires. <i>Renewable and Sustainable Energy Reviews</i> , 2016 , 56, 745-759	16.2	137
136	Effect of operating conditions on the synthesis of dimethyl ether over a CuO-ZnO-Al ₂ O ₃ /NaHZSM-5 bifunctional catalyst. <i>Catalysis Today</i> , 2005 , 107-108, 467-473	5.3	125
135	Dual coke deactivation pathways during the catalytic cracking of raw bio-oil and vacuum gasoil in FCC conditions. <i>Applied Catalysis B: Environmental</i> , 2016 , 182, 336-346	21.8	105
134	Stability of an acid activated carbon based bifunctional catalyst for the raw bio-oil hydrodeoxygenation. <i>Applied Catalysis B: Environmental</i> , 2017 , 203, 389-399	21.8	91
133	Transformation of Several Plastic Wastes into Fuels by Catalytic Cracking. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 4523-4529	3.9	90
132	Pressure drop in conical spouted beds. <i>The Chemical Engineering Journal</i> , 1993 , 51, 53-60		75
131	Design factors of conical spouted beds and jet spouted beds. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 1245-1250	3.9	72
130	Effect of HZSM-5 Zeolite Addition to a Fluid Catalytic Cracking Catalyst. Study in a Laboratory Reactor Operating under Industrial Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2000 , 39, 1917-1924	3.9	60
129	Enhancement of pyrolysis gasoline hydrogenation over Pd-promoted Ni/SiO ₂ -Al ₂ O ₃ catalysts. <i>Fuel</i> , 2007 , 86, 2262-2274	7.1	59
128	Synergy in the Cracking of a Blend of Bio-oil and Vacuum Gasoil under Fluid Catalytic Cracking Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 1872-1880	3.9	57
127	Deactivating Species Deposited on PtPd Catalysts in the Hydrocracking of Light-Cycle Oil. <i>Energy & Fuels</i> , 2012 , 26, 1509-1519	4.1	56
126	Regeneration of CuO-ZnO-Al ₂ O ₃ /Al ₂ O ₃ catalyst in the direct synthesis of dimethyl ether. <i>Applied Catalysis B: Environmental</i> , 2010 , 94, 108-116	21.8	56
125	Design and Operation of a Catalytic Polymerization Reactor in a Dilute Spouted Bed Regime. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 1637-1643	3.9	55
124	Revealing the pathways of catalyst deactivation by coke during the hydrodeoxygenation of raw bio-oil. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 513-524	21.8	54
123	Correlation for calculation of the gas dispersion coefficient in conical spouted beds. <i>Chemical Engineering Science</i> , 1995 , 50, 2161-2172	4.4	54

122	Upgrading model compounds and Scrap Tires Pyrolysis Oil (STPO) on hydrotreating NiMo catalysts with tailored supports. <i>Fuel</i> , 2015 , 145, 158-169	7.1	52
121	Design and operation of a jet spouted bed reactor with continuous catalyst feed in the benzyl alcohol polymerization. <i>Industrial & Engineering Chemistry Research</i> , 1987 , 26, 1297-1304	3.9	52
120	Study of Physical Mixtures of Cr ₂ O ₃ /ZnO and ZSM-5 Catalysts for the Transformation of Syngas into Liquid Hydrocarbons. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 1211-1219	3.9	46
119	Catalytic Cracking of Waxes Produced by the Fast Pyrolysis of Polyolefins. <i>Energy & Fuels</i> , 2007 , 21, 561-569	4.1	45
118	Preliminary studies on fuel production through LCO hydrocracking on noble-metal supported catalysts. <i>Fuel</i> , 2012 , 94, 504-515	7.1	44
117	Expansion of spouted beds in conical contactors. <i>The Chemical Engineering Journal</i> , 1993 , 51, 45-52		44
116	Role of Acidity in the Deactivation and Steady Hydroconversion of Light Cycle Oil on Noble Metal Supported Catalysts. <i>Energy & Fuels</i> , 2011 , 25, 3389-3399	4.1	41
115	Isotherms of chemical adsorption of bases on solid catalysts for acidity measurement. <i>Journal of Chemical Technology and Biotechnology</i> , 1994 , 60, 141-146	3.5	40
114	Aromatics reduction of pyrolysis gasoline (PyGas) over HY-supported transition metal catalysts. <i>Applied Catalysis A: General</i> , 2006 , 315, 101-113	5.1	39
113	Thermal recycling of polystyrene and polystyrene-butadiene dissolved in a light cycle oil. <i>Journal of Analytical and Applied Pyrolysis</i> , 2003 , 70, 747-760	6	39
112	Catalytic cracking of raw bio-oil under FCC unit conditions over different zeolite-based catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 78, 372-382	6.3	38
111	Recycled Plastics in FCC Feedstocks: Specific Contributions. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 4530-4534	3.9	37
110	Effect of catalyst properties on the cracking of polypropylene pyrolysis waxes under FCC conditions. <i>Catalysis Today</i> , 2008 , 133-135, 413-419	5.3	35
109	Effect of space velocity on the hydrocracking of Light Cycle Oil over a Pt/Bd/HY zeolite catalyst. <i>Fuel Processing Technology</i> , 2012 , 95, 8-15	7.2	34
108	Calculation of the kinetics of deactivation by coke in an integral reactor for a triangular scheme reaction. <i>Chemical Engineering Science</i> , 1993 , 48, 1077-1087	4.4	34
107	Prospects for Obtaining High Quality Fuels from the Hydrocracking of a Hydrotreated Scrap Tires Pyrolysis Oil. <i>Energy & Fuels</i> , 2015 , 29, 5458-5466	4.1	33
106	Phosphorus-containing activated carbon as acid support in a bifunctional Pt/Bd catalyst for tire oil hydrocracking. <i>Catalysis Communications</i> , 2016 , 78, 48-51	3.2	33
105	Waste Refinery: The Valorization of Waste Plastics and End-of-Life Tires in Refinery Units. A Review.. <i>Energy & Fuels</i> , 2021 , 35, 3529-3557	4.1	33

104	Simulation and multiplicity of steady states in fluidized FCCUs. <i>Chemical Engineering Science</i> , 1992 , 47, 2535-2540	4.4	32
103	Effect of the support acidity on the aromatic ring-opening of pyrolysis gasoline over Pt/HZSM-5 catalysts. <i>Catalysis Today</i> , 2009 , 143, 115-119	5.3	30
102	HZSM-5 Zeolite As Catalyst Additive for Residue Cracking under FCC Conditions. <i>Energy & Fuels</i> , 2009 , 23, 4215-4223	4.1	30
101	Fuel production by cracking of polyolefins pyrolysis waxes under fluid catalytic cracking (FCC) operating conditions. <i>Waste Management</i> , 2019 , 93, 162-172	8.6	29
100	Factors influencing the thioresistance of nickel catalysts in aromatics hydrogenation. <i>Applied Catalysis A: General</i> , 2007 , 317, 20-33	5.1	29
99	Modelling FCC units under steady and unsteady state conditions. <i>Canadian Journal of Chemical Engineering</i> , 2000 , 78, 111-123	2.3	29
98	Catalyst used in fluid catalytic cracking (FCC) unit as a support of NiMoP catalyst for light cycle oil hydroprocessing. <i>Fuel</i> , 2018 , 216, 142-152	7.1	29
97	Effect of Atmospheric Residue Incorporation in the Fluidized Catalytic Cracking (FCC) Feed on Product Stream Yields and Composition. <i>Energy & Fuels</i> , 2008 , 22, 2149-2156	4.1	28
96	Effect of HZSM-5 catalyst addition on the cracking of polyolefin pyrolysis waxes under FCC conditions. <i>Chemical Engineering Journal</i> , 2007 , 132, 17-26	14.7	28
95	Calculation of the kinetics of deactivation by coke of a silica-alumina catalyst in the dehydration of 2-ethylhexanol. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 458-465	3.9	27
94	Designing supported ZnNi catalysts for the removal of oxygen from bio-liquids and aromatics from diesel. <i>Green Chemistry</i> , 2012 , 14, 2759	10	25
93	Effect of the operating conditions on the conversion of syngas into liquid hydrocarbons over a Cr ₂ O ₃ /ZnO/ZSM5 bifunctional catalyst. <i>Journal of Chemical Technology and Biotechnology</i> , 1998 , 72, 190-196	3.5	24
92	Cracking of Scrap Tires Pyrolysis Oil in a Fluidized Bed Reactor under Catalytic Cracking Unit Conditions. Effects of Operating Conditions. <i>Energy & Fuels</i> , 2019 , 33, 3133-3143	4.1	23
91	Effect of the support on the kinetic and deactivation performance of Pt/support catalysts during coupled hydrogenation and ring-opening of pyrolysis gasoline. <i>Applied Catalysis A: General</i> , 2007 , 333, 161-171	5.1	23
90	MTG fluidized bed reactor/regenerator unit with catalyst circulation: process simulation and operation of an experimental setup. <i>Chemical Engineering Science</i> , 2000 , 55, 3223-3235	4.4	23
89	OPTIMIZATION OF THE OPERATION IN A REACTOR WITH CONTINUOUS CATALYST CIRCULATION IN THE GASEOUS BENZYL ALCOHOL POLYMERIZATION. <i>Chemical Engineering Communications</i> , 1989 , 75, 121-134	2.2	23
88	Petcoke-derived functionalized activated carbon as support in a bifunctional catalyst for tire oil hydroprocessing. <i>Fuel Processing Technology</i> , 2016 , 144, 239-247	7.2	22
87	Deactivation and acidity deterioration of a silica/alumina catalyst in the isomerization of cis-butene. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 588-593	3.9	22

86	Coke deposition on silica-alumina catalysts in dehydration reactions. <i>Industrial & Engineering Chemistry Product Research and Development</i> , 1985 , 24, 531-539		22
85	Kinetic Modeling of the Hydrotreating and Hydrocracking Stages for Upgrading Scrap Tires Pyrolysis Oil (STPO) toward High-Quality Fuels. <i>Energy & Fuels</i> , 2015 , 29, 7542-7553	4.1	21
84	Kinetic Modeling for Assessing the Product Distribution in Toluene Hydrocracking on a Pt/HZSM-5 Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 1043-1050	3.9	21
83	Kinetic modelling of methylcyclohexane ring-opening over a HZSM-5 zeolite catalyst. <i>Chemical Engineering Journal</i> , 2008 , 140, 287-295	14.7	21
82	Effect of Pressure on the Hydrocracking of Light Cycle Oil with a PtPd/HY Catalyst. <i>Energy & Fuels</i> , 2012 , 26, 5897-5904	4.1	20
81	Study of the preparation and composition of the metallic function for the selective hydrogenation of CO ₂ to gasoline over bifunctional catalysts. <i>Journal of Chemical Technology and Biotechnology</i> , 2003 , 78, 161-166	3.5	20
80	Catalytic deactivation pathways during the cracking of glycerol and glycerol/VGO blends under FCC unit conditions. <i>Chemical Engineering Journal</i> , 2017 , 307, 955-965	14.7	19
79	Effect of Temperature in Hydrocracking of Light Cycle Oil on a Noble Metal-Supported Catalyst for Fuel Production. <i>Chemical Engineering and Technology</i> , 2012 , 35, 653-660	2	19
78	Valorization of Polyolefins Dissolved in Light Cycle Oil over HY Zeolites under Fluid Catalytic Cracking Unit Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 3952-3961	3.9	19
77	Isomerization of butenes as a test reaction for measurement of solid catalyst acidity. <i>Industrial & Engineering Chemistry Research</i> , 1990 , 29, 1172-1178	3.9	19
76	Assessment of thermogravimetric methods for calculating coke combustion-regeneration kinetics of deactivated catalyst. <i>Chemical Engineering Science</i> , 2017 , 171, 459-470	4.4	18
75	Production of Non-Conventional Fuels by Catalytic Cracking of Scrap Tires Pyrolysis Oil. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 5158-5167	3.9	18
74	Hydrodeoxygenation of raw bio-oil towards platform chemicals over FeMoP/zeolite catalysts. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 80, 392-400	6.3	18
73	Recycling Hydrocarbon Cuts into FCC Units. <i>Energy & Fuels</i> , 2002 , 16, 615-621	4.1	18
72	Study of temperature-programmed desorption of tert-butylamine to measure the surface acidity of solid catalysts. <i>Industrial & Engineering Chemistry Research</i> , 1990 , 29, 1621-1626	3.9	18
71	Coke deposition and product distribution in the co-cracking of waste polyolefin derived streams and vacuum gas oil under FCC unit conditions. <i>Fuel Processing Technology</i> , 2019 , 192, 130-139	7.2	17
70	Towards waste refinery: Co-feeding HDPE pyrolysis waxes with VGO into the catalytic cracking unit. <i>Energy Conversion and Management</i> , 2020 , 207, 112554	10.6	17
69	Kinetic Model Discrimination for Toluene Hydrogenation over Noble-Metal-Supported Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7417-7425	3.9	17

68	Direct Synthesis of Dimethyl Ether From (H ₂ +CO) and (H ₂ +CO ₂) Feeds. Effect of Feed Composition. <i>International Journal of Chemical Reactor Engineering</i> , 2005 , 3,	1.2	17
67	Hydrodynamics of nearly flat base spouted beds. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , 1994 , 55, 27-37		17
66	Kinetic equation for the regeneration of a solid catalyst by coke-burning. <i>Chemical Engineering Science</i> , 1983 , 38, 1356-1360	4.4	17
65	Enhancement of aromatic hydro-upgrading on a Pt catalyst by promotion with Pd and shape-selective supports. <i>Fuel Processing Technology</i> , 2012 , 101, 64-72	7.2	16
64	Co-feeding water to attenuate deactivation of the catalyst metallic function (CuO/ZnO/Al ₂ O ₃) by coke in the direct synthesis of dimethyl ether. <i>Applied Catalysis B: Environmental</i> , 2011 , 106, 167-167	21.8	16
63	Scrap tires pyrolysis oil as a co-feeding stream on the catalytic cracking of vacuum gasoil under fluid catalytic cracking conditions. <i>Waste Management</i> , 2020 , 105, 18-26	8.6	15
62	Upgrading of high-density polyethylene and light cycle oil mixtures to fuels via hydroprocessing. <i>Catalysis Today</i> , 2018 , 305, 212-219	5.3	15
61	Conversion of syngas to liquid hydrocarbons over a two-component (Cr ₂ O ₃ /ZnO and ZSM-5 zeolite) catalyst. <i>Chemical Engineering Science</i> , 2000 , 55, 1845-1855	4.4	15
60	Assessing the potential of the recycled plastic slow pyrolysis for the production of streams attractive for refineries. <i>Journal of Analytical and Applied Pyrolysis</i> , 2019 , 142, 104668	6	14
59	Cracking of Coker Naphtha with Gas Dil. Effect of HZSM-5 Zeolite Addition to the Catalyst. <i>Energy & Fuels</i> , 2007 , 21, 11-18	4.1	14
58	Valorization by thermal cracking over silica of polyolefins dissolved in LCO. <i>Fuel Processing Technology</i> , 2004 , 85, 125-140	7.2	14
57	Solute transport characterization in karst aquifers by tracer injection tests for a sustainable water resource management. <i>Journal of Hydrology</i> , 2017 , 547, 269-279	6	13
56	Kinetic Modeling of Hydrotreating for Enhanced Upgrading of Light Cycle Oil. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 13064-13075	3.9	13
55	Screening hydrotreating catalysts for the valorization of a light cycle oil/scrap tires oil blend based on a detailed product analysis. <i>Applied Catalysis B: Environmental</i> , 2019 , 256, 117863	21.8	13
54	The Role of Zeolite Acidity in Coupled Toluene Hydrogenation and Ring Opening in One and Two Steps. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 665-671	3.9	13
53	Kinetics of Gaseous Product Formation in the Coke Combustion of a Fluidized Catalytic Cracking Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 3255-3260	3.9	13
52	Reaction/Regeneration cycles in the isomerization of cis-butene and calculation of the reactivation kinetics of a silica/alumina catalyst. <i>Chemical Engineering Science</i> , 1993 , 48, 2741-2752	4.4	13
51	A Data-Driven Reaction Network for the Fluid Catalytic Cracking of Waste Feeds. <i>Processes</i> , 2018 , 6, 2432.9		13

50	Effect of hydrogen on the cracking mechanisms of cycloalkanes over zeolites. <i>Catalysis Today</i> , 2010 , 150, 363-367	5.3	12
49	MTG Process in a Fixed-Bed Reactor. Operation and Simulation of a Pseudoadiabatic Experimental Unit. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 6087-6098	3.9	12
48	Dimerization of acetaldehyde to crotonaldehyde over silica-alumina bed operating in reaction-regeneration cycles. <i>Industrial & Engineering Chemistry Process Design and Development</i> , 1985 , 24, 828-831		12
47	Effect of the FCC Equilibrium Catalyst Properties and of the Cracking Temperature on the Production of Fuel from HDPE Pyrolysis Waxes. <i>Energy & Fuels</i> , 2019 , 33, 5191-5199	4.1	11
46	A model for gas flow in jet spouted beds. <i>Canadian Journal of Chemical Engineering</i> , 1993 , 71, 189-194	2.3	11
45	Application of a solute transport model under variable velocity conditions in a conduit flow aquifer: Olalde karst system, Basque Country, Spain. <i>Environmental Geology</i> , 1997 , 30, 143-151		10
44	COMPOSITION AND QUALITY OF THE GASOLINE OBTAINED FROM SYNGAS ON Cr ₂ O ₃ -ZnO/ZSM5 CATALYSTS. <i>Chemical Engineering Communications</i> , 1999 , 174, 1-19	2.2	10
43	Selective kinetic deactivation model for a triangular reaction scheme. <i>Chemical Engineering Science</i> , 1993 , 48, 2273-2282	4.4	10
42	Co-cracking of high-density polyethylene (HDPE) and vacuum gasoil (VGO) under refinery conditions. <i>Chemical Engineering Journal</i> , 2020 , 382, 122602	14.7	10
41	Upgrading of heavy coker naphtha by means of catalytic cracking in refinery FCC unit. <i>Fuel Processing Technology</i> , 2020 , 205, 106454	7.2	9
40	Influence of the Composition of Raw Bio-Oils on Their Valorization in Fluid Catalytic Cracking Conditions. <i>Energy & Fuels</i> , 2019 , 33, 7458-7465	4.1	9
39	Valorization of the Blends Polystyrene/Light Cycle Oil and PolystyreneButadiene/Light Cycle Oil over Different HY Zeolites under FCC Unit Conditions. <i>Energy & Fuels</i> , 2004 , 18, 218-227	4.1	9
38	Optimization of the preparation of a catalyst under deactivation. 1. Control of its kinetic behavior by electing the preparation conditions. <i>Industrial & Engineering Chemistry Research</i> , 1987 , 26, 2403-2408	3.9	9
37	Modelling product distribution of pyrolysis gasoline hydroprocessing on a PtPd/HZSM-5 catalyst. <i>Chemical Engineering Journal</i> , 2011 , 176-177, 302-311	14.7	8
36	Gas Flow Dispersion in Jet-Spouted Beds. Effect of Geometric Factors and Operating Conditions. <i>Industrial & Engineering Chemistry Research</i> , 1994 , 33, 3267-3273	3.9	8
35	Kinetic study of the regeneration of solid catalysts under internal diffusion restrictions. <i>The Chemical Engineering Journal</i> , 1987 , 35, 115-122		8
34	Effect of co-feeding HDPE on the product distribution in the hydrocracking of VGO. <i>Catalysis Today</i> , 2020 , 353, 197-203	5.3	8
33	Lessening coke formation and boosting gasoline yield by incorporating scrap tire pyrolysis oil in the cracking conditions of an FCC unit. <i>Energy Conversion and Management</i> , 2020 , 224, 113327	10.6	7

32	Catalytic Cracking of Plastic Pyrolysis Waxes with Vacuum Gasoil: Effect of HZSM-5 Zeolite in the FCC Catalyst. <i>International Journal of Chemical Reactor Engineering</i> , 2006 , 4,	1.2	7
31	Valorization of the Blends Polystyrene/Light Cycle Oil and Polystyrene/Butadiene/Light Cycle Oil over HZSM-5 Zeolites. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 3700-3710	3.9	7
30	Polymerization of gaseous benzyl alcohol. 2. Kinetic study of the polymerization and of the deactivation for a silica/alumina catalyst. <i>Industrial & Engineering Chemistry Research</i> , 1987 , 26, 1960-1965	3.9	7
29	Simulation and Optimization of Methanol Transformation into Hydrocarbons in an Isothermal Fixed-Bed Reactor under Reaction/Regeneration Cycles. <i>Industrial & Engineering Chemistry Research</i> , 1998 , 37, 2383-2390	3.9	6
28	Optimization of temperature-time sequences in reaction-regeneration cycles. Application to the isomerization of cis-butene. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 2542-2547	3.9	6
27	Polymerization of gaseous benzyl alcohol. 3. Deactivation mechanism of silica/alumina catalyst. <i>Industrial & Engineering Chemistry Research</i> , 1989 , 28, 1752-1756	3.9	6
26	Optimization of the preparation of a catalyst under deactivation. 2. Application to the operation in reaction-regeneration cycles. <i>Industrial & Engineering Chemistry Research</i> , 1989 , 28, 1299-1303	3.9	6
25	Implications of feeding or cofeeding bio-oil in the fluid catalytic cracker (FCC) in terms of regeneration kinetics and energy balance. <i>Energy</i> , 2020 , 209, 118467	7.9	6
24	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. <i>Environmental Earth Sciences</i> , 2018 , 77, 1	2.9	5
23	Simulation of isothermal catalytic fixed-bed reactors operated in successive reaction-regeneration cycles. <i>The Chemical Engineering Journal</i> , 1985 , 31, 137-144		5
22	Converting the Surplus of Low-Quality Naphtha into More Valuable Products by Feeding It to a Fluid Catalytic Cracking Unit. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 16868-16875	3.9	5
21	A Hybrid FCC/HZSM-5 Catalyst for the Catalytic Cracking of a VGO/Bio-Oil Blend in FCC Conditions. <i>Catalysts</i> , 2020 , 10, 1157	4	4
20	Consistency of the ten-lump kinetic model for cracking: Study in a laboratory reactor and use for simulation of an FCCU. <i>Chemical Engineering Communications</i> , 2003 , 190, 254-284	2.2	4
19	A simplified model for gas flow in conical spouted beds. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , 1995 , 56, 19-26		4
18	Calculation of the kinetics of catalyst regeneration by burning coke following a temperature ramp. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , 1994 , 54, 35-40		4
17	Temperature vs. time sequences to palliate deactivation in parallel and in series-parallel with the main reaction: parametric study. <i>The Chemical Engineering Journal</i> , 1993 , 51, 167-176		4
16	Upgrading of Bio-oil via Fluid Catalytic Cracking 2020 , 61-96		4
15	Different approaches to convert waste polyolefins into automotive fuels via hydrocracking with a NiW/HY catalyst. <i>Fuel Processing Technology</i> , 2021 , 220, 106891	7.2	4

14	Kinetic modeling for the catalytic cracking of tires pyrolysis oil. <i>Fuel</i> , 2022 , 309, 122055	7.1	4
13	Synergy in the Cocracking under FCC Conditions of a Phenolic Compound in the Bio-oil and a Model Compound for Vacuum Gasoil. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 8145-8154	3.9	3
12	Deactivation Kinetic Model in Catalytic Polymerizations Taking into Account the Initiation Step. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 62-69	3.9	3
11	Taking advantage of the excess of thermal naphthas to enhance the quality of FCC unit products. <i>Journal of Analytical and Applied Pyrolysis</i> , 2020 , 152, 104943	6	3
10	Valorization of Polyolefin/LCO Blend over HZSM-5 Zeolites. <i>International Journal of Chemical Reactor Engineering</i> , 2002 , 1,	1.2	2
9	Detailed nature of tire pyrolysis oil blended with light cycle oil and its hydroprocessed products using a NiW/HY catalyst. <i>Waste Management</i> , 2021 , 128, 36-44	8.6	2
8	Operation strategies for the regeneration section of catalytic cracking units. <i>Studies in Surface Science and Catalysis</i> , 1999 , 126, 281-288	1.8	1
7	Pseudoadiabatic operation for fixed-bed catalytic reactors: methods for finding the limits of the regime. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , 1995 , 58, 33-44		1
6	Contributions to the calculation of coke deactivation kinetics. A comparison of methods. <i>The Chemical Engineering Journal and the Biochemical Engineering Journal</i> , 1994 , 55, 125-134		1
5	Mechanism and Analysis of Deactivation Data in Heterogeneous Polymerizations. <i>Studies in Surface Science and Catalysis</i> , 1991 , 413-416	1.8	1
4	Product composition and coke deposition in the hydrocracking of polystyrene blended with vacuum gasoil. <i>Fuel Processing Technology</i> , 2021 , 224, 107010	7.2	1
3	Cracking of plastic pyrolysis oil over FCC equilibrium catalysts to produce fuels: Kinetic modeling. <i>Fuel</i> , 2022 , 316, 123341	7.1	0
2	Hydrogen Pressure as a Key Parameter to Control the Quality of the Naphtha Produced in the Hydrocracking of an HDPE/VGO Blend. <i>Catalysts</i> , 2022 , 12, 543	4	0
1	Contribution to the Design of an Adiabatic Fixed Bed Reactor for the MTG Process under Reaction-regeneration Cycles. <i>Studies in Surface Science and Catalysis</i> , 2001 , 139, 319-326	1.8	