Ana G Gayubo

List of Publications by Year
in descending order

149 papers	8,746 citations	28274 55 h-index	49909 87 g-index
149 all docs	149 docs citations	149 times ranked	4278 citing authors

#	Article	IF	Citations
1	Role of zeolite properties in bio-oil deoxygenation and hydrocarbons production by catalytic cracking. Fuel Processing Technology, 2022, 227, 107130.	7.2	36
2	Streamlining the estimation of kinetic parameters using periodic reaction conditions: The methanol-to-hydrocarbon reaction as a case study. Chemical Engineering Journal, 2022, 435, 134800.	12.7	1
3	Spectro-kinetics of the methanol to hydrocarbons reaction combining online product analysis with UVâ€"vis and FTIR spectroscopies throughout the space time evolution. Journal of Catalysis, 2022, 408, 115-127.	6.2	13
4	Unveiling the deactivation by coke of NiAl2O4 spinel derived catalysts in the bio-oil steam reforming: Role of individual oxygenates. Fuel, 2022, 321, 124009.	6.4	17
5	Stability of a NiAl2O4 Derived Catalyst in the Ethanol Steam Reforming in Reaction-Regeneration Cycles: Effect of Reduction Temperature. Catalysts, 2022, 12, 550.	3.5	4
6	Combined effect of bio-oil composition and temperature on the stability of Ni spinel derived catalyst for hydrogen production by steam reforming. Fuel, 2022, 326, 124966.	6.4	16
7	Consideration of the activity distribution using the population balance theory for designing a dual fluidized bed reactor-regenerator system. Application to the MTO process. Chemical Engineering Journal, 2021, 405, 126448.	12.7	16
8	Feasibility of online pre-reforming step with dolomite for improving Ni spinel catalyst stability in the steam reforming of raw bio-oil. Fuel Processing Technology, 2021, 215, 106769.	7.2	20
9	Insights into the Reaction Routes for H₂ Formation in the Ethanol Steam Reforming on a Catalyst Derived from NiAl₂O₄ Spinel. Energy & Fuels, 2021, 35, 17197-17211.	5.1	19
10	Global vision from the thermodynamics of the effect of the bio-oil composition and the reforming strategies in the H2 production and the energy requirement. Energy Conversion and Management, 2021, 239, 114181.	9.2	18
11	Influence of HZSM-5-based catalyst deactivation on the performance of different reactor configurations for the conversion of bioethanol into hydrocarbons. Fuel, 2021, 302, 121061.	6.4	2
12	Effect of reaction conditions on the deactivation by coke of a NiAl2O4 spinel derived catalyst in the steam reforming of bio-oil. Applied Catalysis B: Environmental, 2021, 297, 120445.	20.2	44
13	A comprehensive approach for designing different configurations of isothermal reactors with fast catalyst deactivation. Chemical Engineering Journal, 2020, 379, 122260.	12.7	16
14	Dual catalyst-sorbent role of dolomite in the steam reforming of raw bio-oil for producing H2-rich syngas. Fuel Processing Technology, 2020, 200, 106316.	7.2	28
15	Coke formation and deactivation during catalytic reforming of biomass and waste pyrolysis products: A review. Renewable and Sustainable Energy Reviews, 2020, 119, 109600.	16.4	278
16	Deactivation of Ni spinel derived catalyst during the oxidative steam reforming of raw bio-oil. Fuel, 2020, 276, 117995.	6.4	26
17	Recent research progress on bioâ€oil conversion into bioâ€fuels and raw chemicals: a review. Journal of Chemical Technology and Biotechnology, 2019, 94, 670-689.	3.2	124
18	Origin and Nature of Coke in Ethanol Steam Reforming and Its Role in Deactivation of Ni/La₂O₃â€"Î±Al₂O₃ Catalyst. Industrial & Engineering Chemistry Research, 2019, 58, 14736-14751.	3.7	70

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19	Cost-effective upgrading of biomass pyrolysis oil using activated dolomite as a basic catalyst. Fuel Processing Technology, 2019, 195, 106142.	7.2	43
20	Aqueous-phase reforming of bio-oil aqueous fraction over nickel-based catalysts. International Journal of Hydrogen Energy, 2019, 44, 13157-13168.	7.1	43
21	Effect of phenols extraction on the behavior of Ni-spinel derived catalyst for raw bio-oil steam reforming. International Journal of Hydrogen Energy, 2019, 44, 12593-12603.	7.1	35
22	On the dynamics and reversibility of the deactivation of a Rh/CeO2ZrO2 catalyst in raw bio-oil steam reforming. International Journal of Hydrogen Energy, 2019, 44, 2620-2632.	7.1	25
23	Stability of a Rh/CeO2â€“ZrO2 Catalyst in the Oxidative Steam Reforming of Raw Bio-oil. Energy & Fuels, 2018, 32, 3588-3598.	5.1	24
24	Coking and sintering progress of a Ni supported catalyst in the steam reforming of biomass pyrolysis volatiles. Applied Catalysis B: Environmental, 2018, 233, 289-300.	20.2	134
25	Temperature Programmed Oxidation Coupled with Inâ€…Situ Techniques Reveal the Nature and Location of Coke Deposited on a Ni/La₂O₃â€Î±Al₂O₃ Catalyst in the Steam Reforming of Bioâ€oil. ChemCatChem, 2018, 10, 2311-2321.	3.7	44
26	Kinetic Model for the Conversion of Chloromethane into Hydrocarbons over a HZSM-5 Zeolite Catalyst. Industrial & Engineering Chemistry Research, 2018, 57, 908-919.	3.7	11
27	Steam reforming of raw bio-oil over Ni/La2O3-Î±Al2O3: Influence of temperature on product yields and catalyst deactivation. Fuel, 2018, 216, 463-474.	6.4	89
28	Biomass to hydrogen-rich gas via steam reforming of raw bio-oil over Ni/La2O3-Î±Al2O3 catalyst: Effect of space-time and steam-to-carbon ratio. Fuel, 2018, 216, 445-455.	6.4	79
29	Simultaneous modeling of the kinetics for n-pentane cracking and the deactivation of a HZSM-5 based catalyst. Chemical Engineering Journal, 2018, 331, 818-830.	12.7	53
30	Kinetic model considering catalyst deactivation for the steam reforming of bio-oil over Ni/La2O3-Î±Al2O3. Chemical Engineering Journal, 2018, 332, 192-204.	12.7	36
31	Optimum operating conditions in ethanol steam reforming over a Ni/La2O3-Î±Al2O3 catalyst in a fluidized bed reactor. Fuel Processing Technology, 2018, 169, 207-216.	7.2	58
32	Oxidative Steam Reforming of Raw Bio-Oil over Supported and Bulk Ni Catalysts for Hydrogen Production. Catalysts, 2018, 8, 322.	3.5	31
33	Regeneration of NiAl2O4 spinel type catalysts used in the reforming of raw bio-oil. Applied Catalysis B: Environmental, 2018, 237, 353-365.	20.2	59
34	Deactivation dynamics of a Ni supported catalyst during the steam reforming of volatiles from waste polyethylene pyrolysis. Applied Catalysis B: Environmental, 2017, 209, 554-565.	20.2	93
35	Comparison of Ni Based and Rh Based Catalyst Performance in the Oxidative Steam Reforming of Raw Bio-Oil. Energy & Fuels, 2017, 31, 7147-7156.	5.1	19
36	SAPO-18 and SAPO-34 catalysts for propylene production from the oligomerization-cracking of ethylene or 1-butene. Applied Catalysis A: General, 2017, 547, 176-182.	4.3	20

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37	Selective dealumination of HZSM-5 zeolite boosts propylene by modifying 1-butene cracking pathway. Applied Catalysis A: General, 2017, 543, 1-9.	4.3	30
38	Reaction conditions effect and pathways in the oxidative steam reforming of raw bio-oil on a Rh/CeO2-ZrO2 catalyst in a fluidized bed reactor. International Journal of Hydrogen Energy, 2017, 42, 29175-29185.	7.1	25
39	Role of oxygenates and effect of operating conditions in the deactivation of a Ni supported catalyst during the steam reforming of bio-oil. Green Chemistry, 2017, 19, 4315-4333.	9.0	97
40	Deactivation kinetics for the conversion of dimethyl ether to olefins over a HZSM-5 zeolite catalyst. Chemical Engineering Journal, 2017, 311, 367-377.	12.7	58
41	Kinetic model for the reaction of DME to olefins over a HZSM-5 zeolite catalyst. Chemical Engineering Journal, 2016, 302, 801-810.	12.7	88
42	Kinetics of the steam reforming of dimethyl ether over CuFe 2 O 4 /Î³-Al 2 O 3. Chemical Engineering Journal, 2016, 306, 401-412.	12.7	22
43	Reproducible performance of a Ni/La2O3â€"Î±Al2O3 catalyst in ethanol steam reforming under reactionâ€"regeneration cycles. Fuel Processing Technology, 2016, 152, 215-222.	7.2	36
44	Development of a bifunctional catalyst for dimethyl ether steam reforming with CuFe2O4 spinel as the metallic function. Journal of Industrial and Engineering Chemistry, 2016, 36, 169-179.	5.8	17
45	Comparison of Noble Metal- and Copper-Based Catalysts for the Step of Methanol Steam Reforming in the Dimethyl Ether Steam Reforming Process. Industrial & Engineering Chemistry Research, 2016, 55, 3546-3555.	3.7	29
46	Controlling coke deactivation and cracking selectivity of MFI zeolite by H3PO4 or KOH modification. Applied Catalysis A: General, 2015, 505, 105-115.	4.3	45
47	Role of Shape Selectivity and Catalyst Acidity in the Transformation of Chloromethane into Light Olefins. Industrial & Engineering Chemistry Research, 2015, 54, 7822-7832.	3.7	20
48	Effect of Operating Conditions on Dimethyl Ether Steam Reforming over a CuFe₂O₄/Î³-Al₂O₃ Bifunctional Catalyst. Industrial & Engineering Chemistry Research, 2015, 54, 9722-9732.	3.7	32
49	Monitoring Ni 0 and coke evolution during the deactivation of a Ni/La 2 O 3 â€"Î±Al 2 O 3 catalyst in ethanol steam reforming in a fluidized bed. Journal of Catalysis, 2015, 331, 181-192.	6.2	208
50	Thermodynamic comparison between bio-oil and ethanol steam reforming. International Journal of Hydrogen Energy, 2015, 40, 15963-15971.	7.1	52
51	Behavior of a CuFe₂O₄/Î³-Al₂O₃ Catalyst for the Steam Reforming of Dimethyl Ether in Reaction-Regeneration Cycles. Industrial & Engineering Chemistry Research, 2015, 54, 11285-11294.	3.7	21
52	Strategies for maximizing the bio-oil valorization by catalytic transformation. Journal of Cleaner Production, 2015, 88, 345-348.	9.3	11
53	Hydrogen production by steam reforming of bio-oil/bio-ethanol mixtures in a continuous thermal-catalytic process. International Journal of Hydrogen Energy, 2014, 39, 6889-6898.	7.1	31
54	Modified HZSM-5 zeolites for intensifying propylene production in the transformation of 1-butene. Chemical Engineering Journal, 2014, 251, 80-91.	12.7	89

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55	Modifications in the HZSM-5 zeolite for the selective transformation of ethylene into propylene. Applied Catalysis A: General, 2014, 479, 17-25.	4.3	39
56	Comparison of Ni and Co Catalysts for Ethanol Steam Reforming in a Fluidized Bed Reactor. Catalysis Letters, 2014, 144, 1134-1143.	2.6	29
57	Compositional Insights and Valorization Pathways for Carbonaceous Material Deposited During Bioâ€Oil Thermal Treatment. ChemSusChem, 2014, 7, 2597-2608.	6.8	41
58	Kinetic Model for the Transformation of 1-Butene on a K-Modified HZSM-5 Catalyst. Industrial & Engineering Chemistry Research, 2014, 53, 10599-10607.	3.7	34
59	Effect of Operating Conditions on Dimethyl Ether Steam Reforming in a Fluidized Bed Reactor with a CuOâ€“ZnOâ€“Al2O3 and Desilicated ZSM-5 Zeolite Bifunctional Catalyst. Industrial & Engineering Chemistry Research, 2014, 53, 3462-3471.	3.7	23
60	Causes of deactivation of bifunctional catalysts made up of CuO-ZnO-Al2O3 and desilicated HZSM-5 zeolite in DME steam reforming. Applied Catalysis A: General, 2014, 483, 76-84.	4.3	44
61	Coke deactivation of Ni and Co catalysts in ethanol steam reforming at mild temperatures in a fluidized bed reactor. International Journal of Hydrogen Energy, 2014, 39, 12586-12596.	7.1	175
62	Upgrading of Bio-Oil in a Continuous Process with Dolomite Catalyst. Energy & Fuels, 2014, 28, 6419-6428.	5.1	42
63	Reaction pathway for ethanol steam reforming on a Ni/SiO 2 catalyst including coke formation. International Journal of Hydrogen Energy, 2014, 39, 18820-18834.	7.1	131
64	Effect of calcination/reduction conditions of Ni/La2O3â€“Î±Al2O3 catalyst on its activity and stability for hydrogen production by steam reforming of raw bio-oil/ethanol. Applied Catalysis B: Environmental, 2014, 147, 402-410.	20.2	111
65	Intensifying Propylene Production by 1-Butene Transformation on a K Modified HZSM-5 Zeolite-Catalyst. Industrial & Engineering Chemistry Research, 2014, 53, 4614-4622.	3.7	32
66	Kinetic behaviour of commercial catalysts for methane reforming in ethanol steam reforming process. Journal of Energy Chemistry, 2014, 23, 639-644.	12.9	8
67	Differences among the deactivation pathway of HZSM-5 zeolite and SAPO-34 in the transformation of ethylene or 1-butene to propylene. Microporous and Mesoporous Materials, 2014, 195, 284-293.	4.4	126
68	Stability of CuZnOAl2O3/HZSM-5 and CuFe2O4/HZSM-5 catalysts in dimethyl ether steam reforming operating in reactionâ€“regeneration cycles. Fuel Processing Technology, 2014, 126, 145-154.	7.2	40
69	Spatial Distribution of Zeolite ZSMâ€5 within Catalyst Bodies Affects Selectivity and Stability of Methanolâ€toâ€Hydrocarbons Conversion. ChemCatChem, 2013, 5, 2827-2831.	3.7	38
70	Kinetic behaviour of catalysts with different CuO-ZnO-Al2O3 metallic function compositions in DME steam reforming in a fluidized bed. Applied Catalysis B: Environmental, 2013, 142-143, 315-322.	20.2	32
71	Operating conditions for attenuating Ni/La2O3â€“Î±Al2O3 catalyst deactivation in the steam reforming of bio-oil aqueous fraction. Fuel Processing Technology, 2013, 115, 222-232.	7.2	122
72	Steam Reforming of Raw Bio-oil in a Fluidized Bed Reactor with Prior Separation of Pyrolytic Lignin. Energy & Fuels, 2013, 27, 7549-7559.	5.1	71

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73	Effect of combining metallic and acid functions in CZA/HZSM-5 desilicated zeolite catalysts on the DME steam reforming in a fluidized bed. International Journal of Hydrogen Energy, 2013, 38, 10019-10028.	7.1	34
74	Improving the DME steam reforming catalyst by alkaline treatment of the HZSM-5 zeolite. Applied Catalysis B: Environmental, 2013, 130-131, 73-83.	20.2	59
75	Catalysts of Ni/Î±-Al2O3 and Ni/La2O3-Î±Al2O3 for hydrogen production by steam reforming of bio-oil aqueous fraction with pyrolytic lignin retention. International Journal of Hydrogen Energy, 2013, 38, 1307-1318.	7.1	111
76	Steam Reforming of the Bio-Oil Aqueous Fraction in a Fluidized Bed Reactor with in Situ CO₂ Capture. Industrial & Engineering Chemistry Research, 2013, 52, 17087-17098.	3.7	40
77	Joint Transformation of Methanol and n-Butane into Olefins on an HZSM-5 Zeolite Catalyst in Reactionâ€“Regeneration Cycles. Industrial & Engineering Chemistry Research, 2012, 51, 13073-13084.	3.7	7
78	Effect of operating conditions on the coke nature and HZSM-5 catalysts deactivation in the transformation of crude bio-oil into hydrocarbons. Catalysis Today, 2012, 195, 106-113.	4.4	101
79	Deactivating species in the transformation of crude bio-oil with methanol into hydrocarbons on a HZSM-5 catalyst. Journal of Catalysis, 2012, 285, 304-314.	6.2	175
80	Deactivation kinetics of a HZSMâ€5 zeolite catalyst treated with alkali for the transformation of bioâ€ethanol into hydrocarbons. AIChE Journal, 2012, 58, 526-537.	3.6	27
81	Effect of Cofeeding Butane with Methanol on the Deactivation by Coke of a HZSM-5 Zeolite Catalyst. Industrial & Engineering Chemistry Research, 2011, 50, 9980-9988.	3.7	67
82	Kinetic modelling for the transformation of bioethanol into olefins on a hydrothermally stable Niâ€“HZSM-5 catalyst considering the deactivation by coke. Chemical Engineering Journal, 2011, 167, 262-277.	12.7	73
83	Olefin production by cofeeding methanol and <i>n</i>â€butane: Kinetic modeling considering the deactivation of HZSMâ€5 zeolite. AIChE Journal, 2011, 57, 2841-2853.	3.6	39
84	Hydrothermally stable HZSM-5 zeolite catalysts for the transformation of crude bio-oil into hydrocarbons. Applied Catalysis B: Environmental, 2010, 100, 318-327.	20.2	124
85	Hydrothermal stability of HZSM-5 catalysts modified with Ni for the transformation of bioethanol into hydrocarbons. Fuel, 2010, 89, 3365-3372.	6.4	96
86	Catalyst discrimination for olefin production by coupled methanol/n-butane cracking. Applied Catalysis A: General, 2010, 383, 202-210.	4.3	36
87	Selective production of olefins from bioethanol on HZSM-5 zeolite catalysts treated with NaOH. Applied Catalysis B: Environmental, 2010, 97, 299-306.	20.2	135
88	Synergies in the production of olefins by combined cracking of n-butane and methanol on a HZSM-5 zeolite catalyst. Chemical Engineering Journal, 2010, 160, 760-769.	12.7	47
89	Kinetic Modeling of <i>n</i>-Butane Cracking on HZSM-5 Zeolite Catalyst. Industrial & Engineering Chemistry Research, 2010, 49, 8415-8423.	3.7	40
90	Selective Production of Aromatics by Crude Bio-oil Valorization with a Nickel-Modified HZSM-5 Zeolite Catalyst. Energy & Fuels, 2010, 24, 2060-2070.	5.1	164

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91	Kinetics of Methanol Transformation into Hydrocarbons on a HZSM-5 Zeolite Catalyst at High Temperature (400âˆ'550 Â°C). Industrial & Engineering Chemistry Research, 2010, 49, 12371-12378.	3.7	64
92	Olefin Production by Catalytic Transformation of Crude Bio-Oil in a Two-Step Process. Industrial & Engineering Chemistry Research, 2010, 49, 123-131.	3.7	119
93	Kinetic Model for the Transformation of Bioethanol into Olefins over a HZSM-5 Zeolite Treated with Alkali. Industrial & Engineering Chemistry Research, 2010, 49, 10836-10844.	3.7	52
94	Attenuation of Catalyst Deactivation by Cofeeding Methanol for Enhancing the Valorisation of Crude Bio-oil. Energy & Fuels, 2009, 23, 4129-4136.	5.1	88
95	Kinetic modelling of methylcyclohexane ring-opening over a HZSM-5 zeolite catalyst. Chemical Engineering Journal, 2008, 140, 287-295.	12.7	23
96	Deactivation of a CuOâˆ'ZnOâˆ'Al₂O₃/Î³-Al₂O₃ Catalyst in the Synthesis of Dimethyl Ether. Industrial & Engineering Chemistry Research, 2008, 47, 2238-2247.	3.7	97
97	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
98	Study of Complex Reactions under Rapid Deactivation -- Improvements in the Reaction Equipment and in the Methodology for Kinetic Calculation. International Journal of Chemical Reactor Engineering, 2007, 5, .	1.1	0
99	Kinetic Modeling of the Methanol-to-Olefins Process on a Silicoaluminophosphate (SAPO-18) Catalyst by Considering Deactivation and the Formation of Individual Olefins. Industrial & Engineering Chemistry Research, 2007, 46, 1981-1989.	3.7	65
100	Integration of Thermal Treatment and Catalytic Transformation for Upgrading Biomass Pyrolysis Oil. International Journal of Chemical Reactor Engineering, 2007, 5, .	1.1	21
101	Development of Alternative Catalysts Based on HZSM-5 Zeolite for the BTO Process. International Journal of Chemical Reactor Engineering, 2007, 5, .	1.1	3
102	Kinetic Study of the Simultaneous Cracking of Paraffins and Methanol on HZSM-5 Zeolite Catalysts. International Journal of Chemical Reactor Engineering, 2007, 5, .	1.1	2
103	Role of acidity and microporous structure in alternative catalysts for the transformation of methanol into olefins. Applied Catalysis A: General, 2005, 283, 197-207.	4.3	164
104	Undesired components in the transformation of biomass pyrolysis oil into hydrocarbons on an HZSM-5 zeolite catalyst. Journal of Chemical Technology and Biotechnology, 2005, 80, 1244-1251.	3.2	135
105	Kinetic Behavior of the SAPO-18 Catalyst in the Transformation of Methanol into Olefins. Industrial & Engineering Chemistry Research, 2005, 44, 6605-6614.	3.7	17
106	Initiation Step and Reactive Intermediates in the Transformation of Methanol into Olefins over SAPO-18 Catalyst. Industrial & Engineering Chemistry Research, 2005, 44, 7279-7286.	3.7	45
107	Kinetic Description of the Catalytic Pyrolysis of Biomass in a Conical Spouted Bed Reactor. Energy & Fuels, 2005, 19, 765-774.	5.1	122
108	ROLE OF WATER IN THE KINETIC MODELING OF METHANOL TRANSFORMATION INTO HYDROCARBONS ON HZSM-5 ZEOLITE. Chemical Engineering Communications, 2004, 191, 944-967.	2.6	35

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109	Role of Reaction-Medium Water on the Acidity Deterioration of a HZSM-5 Zeolite. Industrial & Engineering Chemistry Research, 2004, 43, 5042-5048.	3.7	65
110	Transformation of Oxygenate Components of Biomass Pyrolysis Oil on a HZSM-5 Zeolite. II. Aldehydes, Ketones, and Acids. Industrial & Engineering Chemistry Research, 2004, 43, 2619-2626.	3.7	363
111	Deactivation of a HZSM-5 Zeolite Catalyst in the Transformation of the Aqueous Fraction of Biomass Pyrolysis Oil into Hydrocarbons. Energy & Fuels, 2004, 18, 1640-1647.	5.1	161
112	Transformation of Oxygenate Components of Biomass Pyrolysis Oil on a HZSM-5 Zeolite. I. Alcohols and Phenols. Industrial & Engineering Chemistry Research, 2004, 43, 2610-2618.	3.7	402
113	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
114	Kinetics of the irreversible deactivation of the HZSM-5 catalyst in the MTO process. Chemical Engineering Science, 2003, 58, 5239-5249.	3.8	108
115	Study of the regeneration stage of the MTG process in a pseudoadiabatic fixed bed reactor. Chemical Engineering Journal, 2003, 92, 141-150.	12.7	5
116	Coke Aging and Its Incidence on Catalyst Regeneration. Industrial & Engineering Chemistry Research, 2003, 42, 3914-3921.	3.7	50
117	Catalyst Deactivation by Coke in the Transformation of Aqueous Ethanol into Hydrocarbons. Kinetic Modeling and Acidity Deterioration of the Catalyst. Industrial & Engineering Chemistry Research, 2002, 41, 4216-4224.	3.7	123
118	Role of water in the kinetic modeling of catalyst deactivation in the MTG process. AIChE Journal, 2002, 48, 1561-1571.	3.6	87
119	Study of operating variables in the transformation of aqueous ethanol into hydrocarbons on an HZSM-5 zeolite. Journal of Chemical Technology and Biotechnology, 2002, 77, 211-216.	3.2	104
120	Kinetic Modelling of the Transformation of Aqueous Ethanol into Hydrocarbons on a HZSM-5 Zeolite. Industrial & Engineering Chemistry Research, 2001, 40, 3467-3474.	3.7	67
121	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
122	Catalyst reactivation kinetics for methanol transformation into hydrocarbons. Expressions for designing reactionâ€"regeneration cycles in isothermal and adiabatic fixed bed reactor. Chemical Engineering Science, 2001, 56, 5059-5071.	3.8	26
123	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
124	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
125	Kinetic Modeling of Methanol Transformation into Olefins on a SAPO-34 Catalyst. Industrial & Engineering Chemistry Research, 2000, 39, 292-300.	3.7	98
126	COMPOSITION AND QUALITY OF THE GASOLINE OBTAINED FROM SYNGAS ON Cr2O3-ZnO/ZSM5 CATALYSTS. Chemical Engineering Communications, 1999, 174, 1-19.	2.6	10

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127	COKE COMBUSTION AND REACTIVATION KINETICS OF A ZSM-5 ZEOLITE BASED CATALYST USED FOR THE TRANSFORMATION OF METHANOL INTO HYDROCARBONS. Chemical Engineering Communications, 1999, 176, 43-63.	2.6	15
128	Deactivation by coke of a catalyst based on a SAPO-34 in the transformation of methanol into olefins. Journal of Chemical Technology and Biotechnology, 1999, 74, 315-321.	3.2	78
129	Regeneration of a catalyst based on a SAPO-34 used in the transformation of methanol into olefins. Journal of Chemical Technology and Biotechnology, 1999, 74, 1082-1088.	3.2	41
130	The role of shape selectivity and intrinsic selectivity of acidic sites of the catalysts in the skeletal isomerization ofn-butenes. Journal of Chemical Technology and Biotechnology, 1998, 71, 6-14.	3.2	2
131	Acidity, Surface Species, and Mechanism of Methanol Transformation into Olefins on a SAPO-34. Industrial & Engineering Chemistry Research, 1998, 37, 2336-2340.	3.7	27
132	MTG Process in a Fluidized Bed with Catalyst Circulation:Â Operation and Simulation of an Experimental Unit. Industrial & Engineering Chemistry Research, 1998, 37, 4222-4230.	3.7	12
133	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
134	Deactivation and Regeneration of a Chlorinated Alumina Catalyst Used in the Skeletal Isomerization of n-Butenes. Industrial & Engineering Chemistry Research, 1997, 36, 5189-5195.	3.7	4
135	Role of Coke Characteristics in the Regeneration of a Catalyst for the MTG Process. Industrial & Engineering Chemistry Research, 1997, 36, 60-66.	3.7	67
136	Catalyst deactivation by coking in the MTG process in fixed and fluidized bed reactors. Catalysis Today, 1997, 37, 239-248.	4.4	69
137	Reactivation of the HZSM-5 zeolite-based catalyst used in the MTG process. AICHE Journal, 1997, 43, 1551-1558.	3.6	14
138	Deposition and Characteristics of Coke over a H-ZSM5 Zeolite-Based Catalyst in the MTG Process. Industrial & Engineering Chemistry Research, 1996, 35, 3991-3998.	3.7	103
139	Concentration-Dependent Kinetic Model for Catalyst Deactivation in the MTG Process. Industrial & Engineering Chemistry Research, 1996, 35, 81-89.	3.7	63
140	Catalyst Equilibration for Transformation of Methanol into Hydrocarbons by Reactionâ˘'Regeneration Cycles. Industrial & Engineering Chemistry Research, 1996, 35, 2177-2182.	3.7	80
141	Relationship between surface acidity and activity of catalysts in the transformation of methanol into hydrocarbons. Journal of Chemical Technology and Biotechnology, 1996, 65, 186-192.	3.2	75
142	Deactivation Kinetic Model in Catalytic PolymerizationsTaking into Account the Initiation Step. Industrial & Engineering Chemistry Research, 1996, 35, 62-69.	3.7	3
143	Analysis of kinetic models of the methanol-to-gasoline (MTG) process in an integral reactor. The Chemical Engineering Journal and the Biochemical Engineering Journal, 1996, 63, 45-51.	0.1	4
144	Effect of Si/Al Ratio and of Acidity of H-ZSM5 Zeolites on the Primary Products of Methanol to Gasoline Conversion. Journal of Chemical Technology and Biotechnology, 1996, 66, 183-191.	3.2	87

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145	Relationship between surface acidity and activity of catalysts in the transformation of methanol into hydrocarbons. Journal of Chemical Technology and Biotechnology, 1996, 65, 186-192.	3.2	2
146	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
147	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
148	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
149	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