

Hugo de Lasa

List of Publications by Citations

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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.

162
papers

4,844
citations

31
h-index

64
g-index

166
ext. papers

5,405
ext. citations

5.3
avg, IF

6.12
L-index

#	Paper	IF	Citations
162	Chemical-looping combustion (CLC) for inherent CO ₂ separations— review. <i>Chemical Engineering Science</i> , 2008 , 63, 4433-4451	4.4	750
161	Integrated CO ₂ capture, wastewater treatment and biofuel production by microalgae culturing— review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 27, 622-653	16.2	384
160	Catalytic steam gasification of biomass: catalysts, thermodynamics and kinetics. <i>Chemical Reviews</i> , 2011 , 111, 5404-33	68.1	295
159	HZSM-5 Zeolites with Different SiO ₂ /Al ₂ O ₃ Ratios. Characterization and NH ₃ Desorption Kinetics. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 15303-15316	3.9	171
158	Photocatalytic hydrogen production using mesoporous TiO ₂ doped with Pt. <i>Applied Catalysis B: Environmental</i> , 2017 , 211, 337-348	21.8	170
157	Reactivity and stability of Co-Ni/Al ₂ O ₃ oxygen carrier in multicycle CLC. <i>AIChE Journal</i> , 2007 , 53, 1817-1829	3.9	109
156	Photocatalytic Reaction Engineering 2005 ,		108
155	FCC catalysts with different zeolite crystallite sizes: acidity, structural properties and reactivity. <i>Applied Catalysis A: General</i> , 2004 , 270, 9-25	5.1	104
154	Reactivity and stability of Ni/Al ₂ O ₃ oxygen carrier for chemical-looping combustion (CLC). <i>Chemical Engineering Science</i> , 2008 , 63, 2994-3007	4.4	89
153	Photocatalytic degradation of methyl parathion: Reaction pathways and intermediate reaction products. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2007 , 186, 71-84	4.7	80
152	The role of diffusion in alkyl-benzenes catalytic cracking. <i>Applied Catalysis A: General</i> , 2002 , 226, 139-153	5.1	76
151	Photocatalytic conversion of phenolic compounds in slurry reactors. <i>Chemical Engineering Science</i> , 2004 , 59, 3-15	4.4	73
150	VO _x /c-Al ₂ O ₃ catalyst for oxidative dehydrogenation of ethane to ethylene: Desorption kinetics and catalytic activity. <i>Applied Catalysis A: General</i> , 2013 , 450, 120-130	5.1	68
149	Photocatalytic Degradation of Water Organic Pollutants. Kinetic Modeling and Energy Efficiency. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 4705-4711	3.9	62
148	Quantum yield with platinum modified TiO ₂ photocatalyst for hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2013 , 140-141, 523-536	21.8	60
147	Reduction kinetics of a fluidizable nickel—alumina oxygen carrier for chemical-looping combustion. <i>Canadian Journal of Chemical Engineering</i> , 2008 , 86, 323-334	2.3	56
146	Evaluation of Photon Absorption in an Aqueous TiO ₂ Slurry Reactor Using Monte Carlo Simulations and Macroscopic Balance. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 10524-10534	3.9	55

145	Diffusion and catalytic cracking of 1,3,5 tri-iso-propyl-benzene in FCC catalysts. <i>Chemical Engineering Science</i> , 2002 , 57, 4909-4920	4.4	54
144	Nickel on lanthanum-modified γ -Al ₂ O ₃ oxygen carrier for CLC: Reactivity and stability. <i>Catalysis Today</i> , 2009 , 143, 179-186	5.3	52
143	Neat dimethyl ether conversion to olefins (DTO) over HZSM-5: Effect of SiO ₂ /Al ₂ O ₃ on porosity, surface chemistry, and reactivity. <i>Fuel</i> , 2014 , 138, 52-64	7.1	50
142	CPFD flow pattern simulation in downer reactors. <i>AIChE Journal</i> , 2013 , 59, 1635-1647	3.6	45
141	Bubble measurement in three-phase fluidized beds using a u-shaped optical fiber. <i>Canadian Journal of Chemical Engineering</i> , 1984 , 62, 165-169	2.3	43
140	A unified kinetic model for phenol photocatalytic degradation over TiO ₂ photocatalysts. <i>Chemical Engineering Science</i> , 2012 , 78, 186-203	4.4	42
139	Photocatalytic Oxidation of Phenol: Reaction Network, Kinetic Modeling, and Parameter Estimation. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7394-7409	3.9	41
138	Fluidizable Ni/La ₂ O ₃ -Al ₂ O ₃ catalyst for steam gasification of a cellulosic biomass surrogate. <i>Applied Catalysis B: Environmental</i> , 2014 , 160-161, 67-79	21.8	38
137	Catalytic Conversion of 1,2,4-Trimethylbenzene in a CREC Riser Simulator. A Heterogeneous Model with Adsorption and Reaction Phenomena. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 4162-4173	3.9	37
136	Particle clustering in down flow reactors. <i>Powder Technology</i> , 2000 , 108, 6-20	5.2	37
135	Photo-catalytic conversion of air borne pollutants Effect of catalyst type and catalyst loading in a novel photo-CREC-air unit. <i>Applied Catalysis B: Environmental</i> , 2002 , 38, 201-213	21.8	35
134	Catalytic Cracking of Cumene in a Riser Simulator: A Catalyst Activity Decay Model. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 5398-5404	3.9	35
133	Butane dehydrogenation on vanadium supported catalysts under oxygen free atmosphere. <i>Applied Catalysis A: General</i> , 2004 , 272, 69-78	5.1	34
132	Fast catalytic cracking of heavy gas oils: modeling coke deactivation. <i>Industrial & Engineering Chemistry Research</i> , 1990 , 29, 171-180	3.9	33
131	Novel Fluidizable K-Doped HAc-Li ₄ SiO ₄ Sorbent for CO ₂ Capture Preparation and Characterization. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 12524-12531	3.9	31
130	Kinetic modeling of the photocatalytic degradation of air-borne pollutants. <i>AIChE Journal</i> , 2004 , 50, 1017-1027	3.6	31
129	Photocatalytic degradation of water organic pollutants: pollutant reactivity and kinetic modeling. <i>Chemical Engineering Science</i> , 1999 , 54, 3063-3069	4.4	31
128	A CPFD model for a bubbly biomass and fluidized bed. <i>Powder Technology</i> , 2015 , 275, 39-50	5.2	29

127	Thiophene conversion under mild conditions over a ZSM-5 catalyst. <i>Chemical Engineering Science</i> , 2009 , 64, 2539-2561	4.4	29
126	Diffusion and reactivity of gas oil in FCC catalysts. <i>Canadian Journal of Chemical Engineering</i> , 2001 , 79, 341-348	2.3	29
125	Modelling FCC units under steady and unsteady state conditions. <i>Canadian Journal of Chemical Engineering</i> , 2000 , 78, 111-123	2.3	29
124	Biomass Catalytic Steam Gasification Thermodynamics Analysis and Reaction Experiments in a CREC Riser Simulator. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 6834-6844	3.9	28
123	Eggshell catalyst in Fischer-Tropsch synthesis: Intrinsic reaction kinetics. <i>Chemical Engineering Science</i> , 2001 , 56, 1239-1245	4.4	28
122	Immobilized particle coating for optimum photon and TiO ₂ utilization in scaled air treatment photo reactors. <i>Applied Catalysis B: Environmental</i> , 2016 , 198, 211-223	21.8	27
121	Ni based oxygen carrier over γ -Al ₂ O ₃ for chemical looping combustion: Effect of preparation method on metal support interaction. <i>Catalysis Today</i> , 2013 , 210, 124-134	5.3	27
120	Boundary conditions and phase functions in a Photo-CREC Water-II reactor radiation field. <i>Chemical Engineering Science</i> , 2014 , 107, 123-136	4.4	27
119	Enhanced mineralization of phenol and other hydroxylated compounds in a photocatalytic process assisted with ferric ions. <i>Chemical Engineering Science</i> , 2008 , 63, 520-557	4.4	27
118	TiO ₂ absorption and scattering coefficients using Monte Carlo method and macroscopic balances in a photo-CREC unit. <i>Chemical Engineering Science</i> , 2011 , 66, 5813-5821	4.4	26
117	Activity and Selectivity of Fluidized Catalytic Cracking Catalysts in a Riser Simulator: The Role of Y-Zeolite Crystal Size. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 1350-1356	3.9	26
116	Cracking catalysts deactivation by nickel and vanadium contaminants. <i>Industrial & Engineering Chemistry Research</i> , 1990 , 29, 2181-2191	3.9	26
115	Catalytic Conversion of Thiophene under Mild Conditions over a ZSM-5 Catalyst. A Kinetic Model. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 7505-7516	3.9	25
114	CPFD modeling and experimental validation of gas-solid flow in a down flow reactor. <i>Computers and Chemical Engineering</i> , 2016 , 90, 79-93	4	25
113	Propane Oxidative Dehydrogenation Using Consecutive Feed Injections and Fluidizable VO _x /Al ₂ O ₃ and VO _x /ZrO ₂ /Al ₂ O ₃ Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 13109-13124	3.9	24
112	Flow field investigation in a photocatalytic reactor for air treatment (Photo-CREC _{air}). <i>Chemical Engineering Science</i> , 2006 , 61, 3343-3361	4.4	24
111	Particle velocity and particle clustering in down-flow reactors. <i>Powder Technology</i> , 2004 , 148, 172-185	5.2	24
110	Kinetic Modeling of Catalytic Cracking of Gas Oil Feedstocks: Reaction and Diffusion Phenomena. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 1583-1593	3.9	23

109	Photoreduction of a Pd-Doped Mesoporous TiO ₂ Photocatalyst for Hydrogen Production under Visible Light. <i>Catalysts</i> , 2020 , 10, 74	4	22
108	Catalytic Dry Reforming of Methane in a CREC Riser Simulator Kinetic Modeling and Model Discrimination. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 2507-2515	3.9	22
107	Novel Photocatalytic Reactor for the Destruction of Airborne Pollutants Reaction Kinetics and Quantum Yields. <i>Industrial & Engineering Chemistry Research</i> , 1999 , 38, 3211-3217	3.9	22
106	Hydrogen Production via Water Dissociation Using Pt/TiO ₂ Photocatalysts: An Oxidation/Reduction Network. <i>Catalysts</i> , 2017 , 7, 324	4	21
105	FCC gasoline desulfurization using a ZSM-5 catalyst. <i>Fuel</i> , 2011 , 90, 2016-2025	7.1	21
104	Photo-catalytic degradation of air borne pollutants apparent quantum efficiencies in a novel photo-CREC-air reactor. <i>Chemical Engineering Science</i> , 2003 , 58, 943-949	4.4	21
103	Pseudoadiabatic catalytic reactor operation for the conversion of synthesis gas into hydrocarbons (gasoline range). <i>Industrial & Engineering Chemistry Research</i> , 1991 , 30, 1448-1455	3.9	21
102	Hydrogen production using a platinum modified TiO ₂ photocatalyst and an organic scavenger. Kinetic modeling. <i>Fuel</i> , 2016 , 181, 438-449	7.1	21
101	Fluidized bed oxidative dehydrogenation of ethane to ethylene over VO _x /Ce-Al ₂ O ₃ catalysts: Reduction kinetics and catalyst activity. <i>Molecular Catalysis</i> , 2017 , 443, 78-91	3.3	20
100	Establishing photon absorption fields in a Photo-CREC Water II Reactor using a CREC-spectroradiometric probe. <i>Chemical Engineering Science</i> , 2014 , 116, 406-417	4.4	20
99	Kinetic modeling of catalytic conversion of methylcyclohexane over USY zeolites: Adsorption and reaction phenomena. <i>AIChE Journal</i> , 2009 , 55, 1538-1558	3.6	20
98	Catalyst activity decay due to pore blockage during catalytic cracking of hydrocarbons. <i>Fuel</i> , 2013 , 110, 89-98	7.1	19
97	Particle clusters and drag coefficients in gas-solid downer units. <i>Chemical Engineering Journal</i> , 2012 , 200-202, 439-451	14.7	19
96	Fluidizable catalyst for methane reforming. <i>Applied Catalysis A: General</i> , 2001 , 210, 315-324	5.1	19
95	Effect of steaming treatment in the structure and reactivity of FCC catalysts. <i>AIChE Journal</i> , 2006 , 52, 754-768	3.6	18
94	Catalytic Desulfurization of Gasoline via Dehydrosulfidation. <i>Industrial & Engineering Chemistry Research</i> , 2006 , 45, 1291-1299	3.9	18
93	Adsorption and catalytic reaction in FCC catalysts using a novel fluidized CREC riser simulator. <i>Chemical Engineering Science</i> , 2004 , 59, 5663-5669	4.4	18
92	A sporulation kinetic model for batch growth of <i>B. thuringiensis</i> . <i>Canadian Journal of Chemical Engineering</i> , 1999 , 77, 903-910	2.3	18

91	Catalytic Cracking of Hydrocarbons in a CREC Riser Simulator Using a Y-Zeolite-Based Catalyst: Assessing the Catalyst/Oil Ratio Effect. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 13627-13638	3.9	18
90	Catalytic cracking of hydrocarbons in a novel Riser Simulator: Lump adsorption parameters under reaction conditions. <i>Chemical Engineering Science</i> , 1996 , 51, 1799-1806	4.4	17
89	Kinetic Modeling of Propane Oxidative Dehydrogenation over VOx/Al ₂ O ₃ Catalysts in the Chemical Reactor Engineering Center Riser Reactor Simulator. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 15317-15332	3.9	16
88	Adsorption, Diffusion, and Reaction Phenomena on FCC Catalysts in the CREC Riser Simulator. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 4709-4720	3.9	16
87	Application of the pseudoadiabatic operation to catalytic fixed bed reactors case of the orthoxylene oxidation. <i>Canadian Journal of Chemical Engineering</i> , 1983 , 61, 710-718	2.3	16
86	Modeling thermal and catalytic conversion of decalin under industrial FCC operating conditions. <i>Chemical Engineering Science</i> , 2010 , 65, 626-644	4.4	15
85	FCC Riser Unit Operated in the Heat-Transfer Mode: Kinetic Modeling. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 3223-3229	3.9	15
84	Efficiency Factors in Photocatalytic Reactors: Quantum Yield and Photochemical Thermodynamic Efficiency Factor. <i>Chemical Engineering and Technology</i> , 2016 , 39, 51-65	2	15
83	Photocatalytic Hydrogen Production Under Near-UV Using Pd-Doped Mesoporous TiO ₂ and Ethanol as Organic Scavenger. <i>Catalysts</i> , 2019 , 9, 33	4	15
82	Photocatalytic reactor under different external irradiance conditions: Validation of a fully predictive radiation absorption model. <i>Chemical Engineering Science</i> , 2015 , 126, 42-54	4.4	14
81	The photochemical thermodynamic efficiency factor (PTEF) in photocatalytic reactors for air treatment. <i>Chemical Engineering Journal</i> , 2010 , 165, 891-901	14.7	14
80	Heterogeneous Approach to the Catalytic Cracking of Vacuum Gas Oil. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 7631-7641	3.9	14
79	A chemical equilibrium model for biomass gasification. Application to Costa Rican coffee pulp transformation unit. <i>Biomass and Bioenergy</i> , 2019 , 123, 89-103	5.3	12
78	Downer reactor flow measurements using CREC-GS-Optiprobos. <i>Powder Technology</i> , 2012 , 224, 1-11	5.2	12
77	Eight-lamp externally irradiated bench-scale photocatalytic reactor: Scale-up and performance prediction. <i>Chemical Engineering Journal</i> , 2015 , 282, 142-151	14.7	12
76	Catalytic Cracking with FCCT Loaded with Tin Metal Traps. Adsorption Constants for Gas Oil, Gasoline and Light Gases. <i>Industrial & Engineering Chemistry Research</i> , 1994 , 33, 3131-3140	3.9	12
75	Hydrogen Production via Pd-TiO ₂ Photocatalytic Water Splitting under Near-UV and Visible Light: Analysis of the Reaction Mechanism. <i>Catalysts</i> , 2021 , 11, 405	4	12
74	The Effect of Zn on Offretite Zeolite Properties. Acidic Characterizations and NH ₃ -TPD Desorption Models. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 1948-1960	3.9	11

73	FIBRE OPTIC AND CAPACITANCE PROBES IN TURBULENT FLUIDIZED BEDS. <i>Chemical Engineering Communications</i> , 1997 , 157, 73-107	2.2	11
72	A Bentonitic Clay Assisted Method for the Preparation of 2-(R-Anilino)-1, 4-Naphthoquinones. <i>Topics in Catalysis</i> , 2008 , 49, 281-287	2.3	11
71	Kinetic modeling of catalytic cracking of gas oils using in situ traps (FCCT) to prevent metal contaminant effects. <i>Industrial & Engineering Chemistry Research</i> , 1993 , 32, 1071-1080	3.9	11
70	Scaling-up down flow reactors. CPFD simulations and model validation. <i>Computers and Chemical Engineering</i> , 2017 , 101, 226-242	4	10
69	110th Anniversary: Kinetic Model for Syngas Chemical Looping Combustion Using a Nickel-Based Highly Performing Fluidizable Oxygen Carrier. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 2801-2811	3.9	10
68	High Propylene Selectivity via Propane Oxidative Dehydrogenation Using a Novel Fluidizable Catalyst: Kinetic Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 10251-10260	3.9	10
67	Energy Efficiencies in a Photo-CREC-Air Reactor: Conversion of Model Organic Pollutants in Air. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 5715-5727	3.9	10
66	Heats of Catalytic Cracking. Determination in a Riser Simulator Reactor. <i>Industrial & Engineering Chemistry Research</i> , 1997 , 36, 4516-4522	3.9	10
65	Kinematic waves and flow patterns in bubble columns and three-phase fluidized beds. <i>Chemical Engineering Science</i> , 1992 , 47, 3403-3410	4.4	10
64	Kinetics of the pollutant photocatalytic conversion in a Photo-CREC-Air Reactor. <i>Chemical Engineering Journal</i> , 2017 , 317, 1069-1082	14.7	9
63	Selective adsorption of thiophene using a HIPZD additive in FCC. <i>Fuel</i> , 2014 , 128, 71-87	7.1	9
62	Energy efficiency limits in Photo-CREC-Air photocatalytic reactors. <i>Chemical Engineering Science</i> , 2016 , 156, 77-88	4.4	9
61	Propane Oxidative Dehydrogenation on Vanadium-Based Catalysts under Oxygen-Free Atmospheres. <i>Catalysts</i> , 2020 , 10, 418	4	8
60	Photocatalytic degradation of malic acid using a thin coated TiO ₂ -film: Insights on the mechanism of photocatalysis. <i>AIChE Journal</i> , 2014 , 60, 3286-3299	3.6	8
59	Influence des agrégats sur le rendement d'un réacteur à transport pneumatique. <i>Chemical Engineering Science</i> , 1973 , 28, 1875-1884	4.4	8
58	Photocatalysis for Air Treatment Processes: Current Technologies and Future Applications for the Removal of Organic Pollutants and Viruses. <i>Catalysts</i> , 2020 , 10, 966	4	8
57	Particle cluster sizing in downer units. Applicable methodology across downer scale units. <i>Powder Technology</i> , 2017 , 316, 198-206	5.2	7
56	Downer fluidized bed reactor modeling for catalytic propane oxidative dehydrogenation with high propylene selectivity. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 137, 87-99	3.7	7

55	Ru-Promoted Ni/Al ₂ O ₃ Fluidized Catalyst for Biomass Gasification. <i>Catalysts</i> , 2020 , 10, 316	4	7
54	A fluidizable Zn-offretite for selective thiophenic species adsorption. Additive performance under FCC conditions. <i>Fuel</i> , 2016 , 186, 222-234	7.1	7
53	Desulfurization of FCC Gasoline: Novel Catalytic Processes with Zeolites. <i>International Journal of Chemical Reactor Engineering</i> , 2008 , 6,	1.2	7
52	Novel Photocatalytic Reactors for Water and Air Treatment 2005 , 17-47		7
51	MTBE synthesis in a novel riser simulator. <i>Canadian Journal of Chemical Engineering</i> , 1999 , 77, 413-419	2.3	7
50	Evaluation of the moment method technique for the definition of adsorption parameters in a packed bed. <i>Chemical Engineering Science</i> , 1986 , 41, 1233-1242	4.4	7
49	Photochemical Thermodynamic Efficiency Factors (PTEFs) for Hydrogen Production Using Different TiO ₂ Photocatalysts. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 22225-22235	3.9	7
48	Syngas chemical looping combustion using a highly performing fluidizable oxygen carrier. <i>Catalysis Today</i> , 2020 , 343, 63-71	5.3	7
47	Steam gasification of a cellulosic biomass surrogate using a Ni/La ₂ O ₃ -Al ₂ O ₃ catalyst in a CREC fluidized riser simulator. Kinetics and model validation. <i>Fuel</i> , 2018 , 216, 101-109	7.1	6
46	CO ₂ biomass fluidized gasification: Thermodynamics and reactivity studies. <i>Canadian Journal of Chemical Engineering</i> , 2018 , 96, 2176-2184	2.3	6
45	Influence of zeolite crystallite size on methyl-cyclohexane catalytic conversion products. <i>Fuel</i> , 2012 , 96, 511-523	7.1	6
44	Catalytic Cracking of Alkylbenzenes. Y-zeolites with Different Crystal Sizes. <i>Studies in Surface Science and Catalysis</i> , 2001 , 134, 279-292	1.8	6
43	Computational Fluid Dynamics study of the CREC Riser Simulator: Mixing patterns. <i>Powder Technology</i> , 2017 , 316, 641-649	5.2	5
42	A Zn-Offretite for the adsorption of thiophenic species under fluidized catalytic cracking conditions. Synthesis, characterization and reactivity. <i>Applied Catalysis B: Environmental</i> , 2016 , 189, 160-171	7.8	5
41	Monitoring the progress of catalytic cracking for model compounds in the mid-infrared (MIR) 3200-800 cm ⁻¹ range. <i>Chemical Engineering Science</i> , 2018 , 192, 788-802	4.4	5
40	Simultaneous estimation of kinetics and catalysts activity during cracking of 1,3,5-tri-isopropyl benzene on FCC catalyst. <i>Catalysis Today</i> , 2014 , 220-222, 178-185	5.3	5
39	Steam gasification of a cellulose surrogate over a fluidizable Ni/Alumina catalyst: A kinetic model. <i>AIChE Journal</i> , 2012 , 58, 1588-1599	3.6	5
38	Determination of Kinetic Parameter in a Unified Kinetic Model for the Photodegradation of Phenol by Using Nonlinear Regression and the Genetic Algorithm. <i>International Journal of Chemical Reactor Engineering</i> , 2013 , 11, 641-656	1.2	5

37	The pseudoadiabatic regime for catalytic fixed bed reactors: The limiting operating conditions. <i>The Chemical Engineering Journal</i> , 1987 , 34, 47-53		5
36	Cooling exothermic catalytic fixed bed reactors: Co-current versus countercurrent operation in a methanol conversion reactor. <i>Canadian Journal of Chemical Engineering</i> , 1987 , 65, 1021-1026	2.3	5
35	An Eco-Friendly Fluidizable Fe _x O _y /CaO-FeAl ₂ O ₃ Catalyst for Tar Cracking during Biomass Gasification. <i>Catalysts</i> , 2020 , 10, 806	4	5
34	Catalyst/Feedstock Ratio Effect on FCC Using Different Catalysts Samples. <i>Catalysts</i> , 2019 , 9, 542	4	4
33	Single-Bubble Dynamics in a Dense Phase Fluidized Sand Bed Biomass Gasification Environment. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 5601-5614	3.9	4
32	CO ₂ Capture Using Chemical Looping Combustion from a Biomass-Derived Syngas Feedstock: Simulation of a Riser-Downer Scaled-Up Unit. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 6900-6913	3.9	4
31	Egg-shell catalyst for the synthesis of middle distillates. <i>Studies in Surface Science and Catalysis</i> , 2000 , 130, 395-400	1.8	4
30	Compound catalyst for high yields of olefins from synthesis gas. <i>Chemical Engineering Science</i> , 1996 , 51, 2885-2890	4.4	4
29	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
28	Steam promoted mesoporosity in USY zeolites: structural properties and 1,2,4-TMB reactivity. <i>Journal of Molecular Catalysis A</i> , 2004 , 216, 83-99		3
27	C ₁₋₄ Hydrocarbons from synthesis gas Reaction network modelling. <i>Chemical Engineering Science</i> , 1999 , 54, 3391-3397	4.4	3
26	CO ₂ -Derived Carbon Capture and Photon Absorption Efficiency by Microalgae in Novel PhotoBioCREC. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 14710-14716	3.9	3
25	Synthetic naphtha recovery from water streams: Vapour-liquid-liquid equilibrium (VLLE) studies in a dynamic VL-cell unit with high intensity mixing. <i>Canadian Journal of Chemical Engineering</i> ,	2.3	3
24	Photocatalytic Conversion of Organic Pollutants in Air: Quantum Yields Using a Silver/Nitrogen/TiO ₂ Mesoporous Semiconductor under Visible Light. <i>Catalysts</i> , 2021 , 11, 529	4	3
23	Photodegradation Efficiencies in a Photo-CREC Water-II Reactor Using Several TiO ₂ Based Catalysts. <i>International Journal of Chemical Reactor Engineering</i> , 2016 , 14, 685-701	1.2	3
22	Self Diffusivity of n-Dodecane and Benzothiophene in ZSM-5 Zeolites. Its Significance for a New Catalytic Light Diesel Desulfurization Process. <i>International Journal of Chemical Reactor Engineering</i> , 2016 , 14, 737-748	1.2	2
21	A Mid-Infrared Region (MIR) lumped Group Contribution based method for monitoring light gases and gasolines in Fluid Catalytic Cracking. <i>Chemical Engineering Science</i> , 2020 , 212, 115324	4.4	2
20	Thermodynamics and Machine Learning Based Approaches for Vapor-liquid-liquid Phase Equilibria in n-Octane/Water, as a Naphtha-Water Surrogate in Water Blends. <i>Processes</i> , 2021 , 9, 413	2.9	2

19	Advances and Perspectives for Photocatalysis 2005 , 169-183		1
18	Modelling the kinetics of fast catalytic cracking reactions. <i>Canadian Journal of Chemical Engineering</i> , 1989 , 67, 955-962	2.3	1
17	Entrained coal gasifiers: Modeling the particle acceleration. <i>Canadian Journal of Chemical Engineering</i> , 1981 , 59, 658-661	2.3	1
16	Synthesis and Performance of Photocatalysts for Photocatalytic Hydrogen Production: Future Perspectives. <i>Catalysts</i> , 2021 , 11, 1505	4	1
15	Cluster Acceleration and Stabilization in a Downflow Circulating Fluidized Bed Unit. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 12360-12370	3.9	1
14	Hybrid Particle Cluster CPFD Simulation in the Acceleration and Stabilized Sections of a Downflow Circulating Fluidized Bed. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 20325-20336	3.9	1
13	CO ₂ -Derived Carbon Capture Using Microalgae and Sodium Bicarbonate in a PhotoBioCREC Unit: Kinetic Modeling. <i>Processes</i> , 2021 , 9, 1296	2.9	1
12	Single bubble in a 3D sand fluidized bed gasifier environment: A CFD-MPPIC simulation. <i>Chemical Engineering Science</i> , 2021 , 231, 116291	4.4	1
11	Diffusion and Equilibrium Adsorption Coefficients of Aromatic Hydrocarbon Species in Capillary Columns. <i>International Journal of Chemical Reactor Engineering</i> , 2014 , 12, 597-609	1.2	0
10	Photocatalytic Degradation of Air Borne Pollutants 2005 , 149-168		0
9	Kinetic Modeling and Quantum Yields: Hydrogen Production via Pd-TiO ₂ Photocatalytic Water Splitting under Near-UV and Visible Light. <i>Catalysts</i> , 2022 , 12, 113	4	0
8	Dancing with Bubbles: Deterministic versus Probabilistic Bubble Models in Dense Phase Sand Fluidized Beds for Biomass Gasification. <i>Processes</i> , 2021 , 9, 1092	2.9	0
7	Kinetic Model of Catalytic Steam Gasification of 2-Methoxy-4-methylphenol Using 5% NiO.25% Ru/Al ₂ O ₃ in a CREC-Riser Simulator. <i>Catalysts</i> , 2022 , 12, 282	4	0
6	Riser Simulator: Testing of Adsorption Effects. <i>ACS Symposium Series</i> , 1996 , 312-321	0.4	
5	Water Decontamination of Organic Species: Modeling Reaction and Adsorption Processes 2005 , 133-147		
4	Heat-Transfer Prediction in the Riser of a Novel Fluidized Catalytic Cracking Unit. <i>Industrial & Engineering Chemistry Research</i> , 2001 , 40, 4623-4632	3.9	
3	Solutions approximatives pour l'adsorption dans un solide poreux. <i>Chemical Engineering Science</i> , 1973 , 28, 1885-1896	4.4	
2	Phase equilibrium in n-octane/water separation units: vapor pressures, vapor and liquid molar fractions. <i>International Journal of Chemical Reactor Engineering</i> , 2021 , 19, 767-777	1.2	

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