Hugo de Lasa

List of Publications by Year
in descending order

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162 papers	5,871 citations	126708 33 h-index	91712 69 g-index
166 all docs	166 docs citations	166 times ranked	5383 citing authors

#	Article	IF	Citations
1	Chemical-looping combustion (CLC) for inherent <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si144.gif" display="inline" overflow="scroll"><mml:msub><mml:mrow><mml:mi>CO</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></ separationsâ€"a review. Chemical Engineering Science, 2008, 63, 4433-4451.	1.9	855
2	Integrated CO2 capture, wastewater treatment and biofuel production by microalgae culturingâ€"A review. Renewable and Sustainable Energy Reviews, 2013, 27, 622-653.	8.2	483
3	Catalytic Steam Gasification of Biomass: Catalysts, Thermodynamics and Kinetics. Chemical Reviews, 2011, 111, 5404-5433.	23.0	362
4	Photocatalytic hydrogen production using mesoporous TiO2 doped with Pt. Applied Catalysis B: Environmental, 2017, 211, 337-348.	10.8	243
5	HZSM-5 Zeolites with Different SiO₂/Al₂O₃ Ratios. Characterization and NH₃ Desorption Kinetics. Industrial & Engineering Chemistry Research, 2014, 53, 15303-15316.	1.8	235
6	Reactivity and stability of Co-Ni/Al2O3 oxygen carrier in multicycle CLC. AICHE Journal, 2007, 53, 1817-1829.	1.8	119
7	FCC catalysts with different zeolite crystallite sizes: acidity, structural properties and reactivity. Applied Catalysis A: General, 2004, 270, 9-25.	2.2	114
8	Reactivity and stability of Ni/Al2O3 oxygen carrier for chemical-looping combustion (CLC). Chemical Engineering Science, 2008, 63, 2994-3007.	1.9	96
9	Photocatalytic degradation of methyl parathion: Reaction pathways and intermediate reaction products. Journal of Photochemistry and Photobiology A: Chemistry, 2007, 186, 71-84.	2.0	95
10	The role of diffusion in alkyl-benzenes catalytic cracking. Applied Catalysis A: General, 2002, 226, 139-153.	2.2	90
11	VOx/c-Al2O3 catalyst for oxidative dehydrogenation of ethane to ethylene: Desorption kinetics and catalytic activity. Applied Catalysis A: General, 2013, 450, 120-130.	2.2	83
12	Photocatalytic conversion of phenolic compounds in slurry reactors. Chemical Engineering Science, 2004, 59, 3-15.	1.9	75
13	Photocatalytic Degradation of Water Organic Pollutants. Kinetic Modeling and Energy Efficiency. Industrial & Engineering Chemistry Research, 1997, 36, 4705-4711.	1.8	70
14	Quantum yield with platinum modified TiO2 photocatalyst for hydrogen production. Applied Catalysis B: Environmental, 2013, 140-141, 523-536.	10.8	69
15	Diffusion and catalytic cracking of 1,3,5 tri-iso-propyl-benzene in FCC catalysts. Chemical Engineering Science, 2002, 57, 4909-4920.	1.9	64
16	Evaluation of Photon Absorption in an Aqueous TiO₂ Slurry Reactor Using Monte Carlo Simulations and Macroscopic Balance. Industrial & Engineering Chemistry Research, 2010, 49, 10524-10534.	1.8	63
17	Reduction kinetics of a fluidizable nickelâ€"alumina oxygen carrier for chemicalâ€looping combustion. Canadian Journal of Chemical Engineering, 2008, 86, 323-334.	0.9	61
18	Nickel on lanthanum-modified Î³-Al2O3 oxygen carrier for CLC: Reactivity and stability. Catalysis Today, 2009, 143, 179-186.	2.2	58

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19	Neat dimethyl ether conversion to olefins (DTO) over HZSM-5: Effect of SiO2/Al2O3 on porosity, surface chemistry, and reactivity. Fuel, 2014, 138, 52-64.	3.4	58
20	Bubble measurement in threeâ€phase fluidized beds using a uâ€shaped optical fiber. Canadian Journal of Chemical Engineering, 1984, 62, 165-169.	0.9	51
21	CPFD flow pattern simulation in downer reactors. AIChE Journal, 2013, 59, 1635-1647.	1.8	49
22	Fluidizable Ni/La2O3-Î³Al2O3 catalyst for steam gasification of a cellulosic biomass surrogate. Applied Catalysis B: Environmental, 2014, 160-161, 67-79.	10.8	46
23	Photocatalytic Oxidation of Phenol:â€‰ Reaction Network, Kinetic Modeling, and Parameter Estimation. Industrial & Engineering Chemistry Research, 2007, 46, 7394-7409.	1.8	44
24	A unified kinetic model for phenol photocatalytic degradation over TiO2 photocatalysts. Chemical Engineering Science, 2012, 78, 186-203.	1.9	43
25	Modelling FCC units under steady and unsteady state conditions. Canadian Journal of Chemical Engineering, 2000, 78, 111-123.	0.9	39
26	Particle clustering in down flow reactors. Powder Technology, 2000, 108, 6-20.	2.1	39
27	Catalytic Conversion of 1,2,4-Trimethylbenzene in a CREC Riser Simulator. A Heterogeneous Model with Adsorption and Reaction Phenomena. Industrial & Engineering Chemistry Research, 2003, 42, 4162-4173.	1.8	39
28	Butane dehydrogenation on vanadium supported catalysts under oxygen free atmosphere. Applied Catalysis A: General, 2004, 272, 69-78.	2.2	39
29	Fast catalytic cracking of heavy gas oils: modeling coke deactivation. Industrial & Engineering Chemistry Research, 1990, 29, 171-180.	1.8	38
30	Novel Fluidizable K-Doped HAc-Li₄SiO₄ Sorbent for CO₂ Capture Preparation and Characterization. Industrial & Engineering Chemistry Research, 2016, 55, 12524-12531.	1.8	38
31	Photo-catalytic conversion of air borne pollutants Effect of catalyst type and catalyst loading in a novel photo-CREC-air unit. Applied Catalysis B: Environmental, 2002, 38, 201-213.	10.8	37
32	Catalytic Cracking of Cumene in a Riser Simulator:Â A Catalyst Activity Decay Model. Industrial & Engineering Chemistry Research, 2001, 40, 5398-5404.	1.8	36
33	A CPFD model for a bubbly biomassâ€“sand fluidized bed. Powder Technology, 2015, 275, 39-50.	2.1	35
34	Photoreduction of a Pd-Doped Mesoporous TiO2 Photocatalyst for Hydrogen Production under Visible Light. Catalysts, 2020, 10, 74.	1.6	34
35	Kinetic modeling of the photocatalytic degradation of air-borne pollutants. AIChE Journal, 2004, 50, 1017-1027.	1.8	33
36	Hydrogen Production via Pd-TiO2 Photocatalytic Water Splitting under Near-UV and Visible Light: Analysis of the Reaction Mechanism. Catalysts, 2021, 11, 405.	1.6	33

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37	Photocatalytic degradation of water organic pollutants: pollutant reactivity and kinetic modeling. Chemical Engineering Science, 1999, 54, 3063-3069.	1.9	32
38	Ni based oxygen carrier over Î³-Al2O3 for chemical looping combustion: Effect of preparation method on metal support interaction. Catalysis Today, 2013, 210, 124-134.	2.2	32
39	Activity and Selectivity of Fluidized Catalytic Cracking Catalysts in a Riser Simulator:Â The Role of Y-Zeolite Crystal Size. Industrial & Engineering Chemistry Research, 1999, 38, 1350-1356.	1.8	31
40	Diffusion and reactivity of gas oil in FCC catalysts. Canadian Journal of Chemical Engineering, 2001, 79, 341-348.	0.9	31
41	Eggshell catalyst in Fischerâ€“Tropsch synthesis. Chemical Engineering Science, 2001, 56, 1239-1245.	1.9	31
42	Thiophene conversion under mild conditions over a ZSM-5 catalyst. Chemical Engineering Science, 2009, 64, 2539-2561.	1.9	31
43	Biomass Catalytic Steam Gasification Thermodynamics Analysis and Reaction Experiments in a CREC Riser Simulator. Industrial & Engineering Chemistry Research, 2010, 49, 6834-6844.	1.8	31
44	Boundary conditions and phase functions in a Photo-CREC Water-II reactor radiation field. Chemical Engineering Science, 2014, 107, 123-136.	1.9	31
45	Immobilized particle coating for optimum photon and TiO 2 utilization in scaled air treatment photo reactors. Applied Catalysis B: Environmental, 2016, 198, 211-223.	10.8	31
46	Propane Oxidative Dehydrogenation Using Consecutive Feed Injections and Fluidizable VO_x/Î³Al₂O₃ and VO_x/ZrO₂â€“Î³Al₂O₃ Catalysts. Industrial & Engineering Chemistry Research, 2017, 56, 13109-13124.	1.8	31
47	Enhanced mineralization of phenol and other hydroxylated compounds in a photocatalytic process assisted with ferric ions. Chemical Engineering Science, 2008, 63, 520-557.	1.9	29
48	TiO2 absorption and scattering coefficients using Monte Carlo method and macroscopic balances in a photo-CREC unit. Chemical Engineering Science, 2011, 66, 5813-5821.	1.9	29
49	CPFD modeling and experimental validation of gasâ€“solid flow in a down flow reactor. Computers and Chemical Engineering, 2016, 90, 79-93.	2.0	29
50	Cracking catalysts deactivation by nickel and vanadium contaminants. Industrial & Engineering Chemistry Research, 1990, 29, 2181-2191.	1.8	28
51	Catalyst activity decay due to pore blockage during catalytic cracking of hydrocarbons. Fuel, 2013, 110, 89-98.	3.4	28
52	Catalytic Dry Reforming of Methane in a CREC Riser Simulator Kinetic Modeling and Model Discrimination. Industrial & Engineering Chemistry Research, 2003, 42, 2507-2515.	1.8	27
53	Flow field investigation in a photocatalytic reactor for air treatment (Photo-CRECâ€“air). Chemical Engineering Science, 2006, 61, 3343-3361.	1.9	27
54	Catalytic Conversion of Thiophene under Mild Conditions over a ZSM-5 Catalyst. A Kinetic Model. Industrial & Engineering Chemistry Research, 2009, 48, 7505-7516.	1.8	27

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55	Novel Photocatalytic Reactor for the Destruction of Airborne Pollutants Reaction Kinetics and Quantum Yields. Industrial & Engineering Chemistry Research, 1999, 38, 3211-3217.	1.8	26
56	Kinetic Modeling of Catalytic Cracking of Gas Oil Feedstocks:â€‰ Reaction and Diffusion Phenomena. Industrial & Engineering Chemistry Research, 2006, 45, 1583-1593.	1.8	26
57	Particle velocity and particle clustering in down-flow reactors. Powder Technology, 2004, 148, 172-185.	2.1	25
58	Kinetic modeling of catalytic conversion of methylcyclohexane over USY zeolites: Adsorption and reaction phenomena. AICHE Journal, 2009, 55, 1538-1558.	1.8	25
59	Adsorption and catalytic reaction in FCC catalysts using a novel fluidized CREC riser simulator. Chemical Engineering Science, 2004, 59, 5663-5669.	1.9	24
60	Establishing photon absorption fields in a Photo-CREC Water II Reactor using a CREC-spectroradiometric probe. Chemical Engineering Science, 2014, 116, 406-417.	1.9	24
61	Hydrogen production using a platinum modified TiO2 photocatalyst and an organic scavenger. Kinetic modeling. Fuel, 2016, 181, 438-449.	3.4	24
62	Fluidized bed oxidative dehydrogenation of ethane to ethylene over VOx/Ce-Î³Al2O3 catalysts: Reduction kinetics and catalyst activity. Molecular Catalysis, 2017, 443, 78-91.	1.0	24
63	Hydrogen Production via Water Dissociation Using Ptâ€“TiO2 Photocatalysts: An Oxidationâ€“Reduction Network. Catalysts, 2017, 7, 324.	1.6	24
64	Catalytic Cracking of Hydrocarbons in a CREC Riser Simulator Using a Y-Zeolite-Based Catalyst: Assessing the Catalyst/Oil Ratio Effect. Industrial & Engineering Chemistry Research, 2018, 57, 13627-13638.	1.8	24
65	Photocatalysis for Air Treatment Processes: Current Technologies and Future Applications for the Removal of Organic Pollutants and Viruses. Catalysts, 2020, 10, 966.	1.6	24
66	Photo-catalytic degradation of air borne pollutants apparent quantum efficiencies in a novel photo-CREC-air reactor. Chemical Engineering Science, 2003, 58, 943-949.	1.9	23
67	FCC gasoline desulfurization using a ZSM-5 catalyst. Fuel, 2011, 90, 2016-2025.	3.4	23
68	Propane Oxidative Dehydrogenation on Vanadium-Based Catalysts under Oxygen-Free Atmospheres. Catalysts, 2020, 10, 418.	1.6	23
69	A sporulation kinetic model for batch growth of B. thuringiensis. Canadian Journal of Chemical Engineering, 1999, 77, 903-910.	0.9	22
70	Fluidizable catalyst for methane reforming. Applied Catalysis A: General, 2001, 210, 315-324.	2.2	22
71	Particle clusters and drag coefficients in gasâ€“solid downer units. Chemical Engineering Journal, 2012, 200-202, 439-451.	6.6	22
72	Pseudoadiabatic catalytic reactor operation for the conversion of synthesis gas into hydrocarbons (gasoline range). Industrial & Engineering Chemistry Research, 1991, 30, 1448-1455.	1.8	21

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73	The Effect of Zn on Offretite Zeolite Properties. Acidic Characterizations and NH₃-TPD Desorption Models. Industrial & Engineering Chemistry Research, 2017, 56, 1948-1960.	1.8	21
74	Catalytic cracking of hydrocarbons in a novel Riser Simulator: Lump adsorption parameters under reaction conditions. Chemical Engineering Science, 1996, 51, 1799-1806.	1.9	20
75	Heterogeneous Approach to the Catalytic Cracking of Vacuum Gas Oil. Industrial & Engineering Chemistry Research, 2008, 47, 7631-7641.	1.8	20
76	Effect of steaming treatment in the structure and reactivity of FCC catalysts. AICHE Journal, 2006, 52, 754-768.	1.8	19
77	Modeling thermal and catalytic conversion of decalin under industrial FCC operating conditions. Chemical Engineering Science, 2010, 65, 626-644.	1.9	19
78	Photocatalytic Hydrogen Production Under Near-UV Using Pd-Doped Mesoporous TiO2 and Ethanol as Organic Scavenger. Catalysts, 2019, 9, 33.	1.6	19
79	Application of the pseudoadiabatic operation to catalytic fixed bed reactors case of the orthoxylene oxidation. Canadian Journal of Chemical Engineering, 1983, 61, 710-718.	0.9	18
80	FCC Riser Unit Operated in the Heat-Transfer Mode:â€‰ Kinetic Modeling. Industrial & Engineering Chemistry Research, 1997, 36, 3223-3229.	1.8	18
81	Catalytic Desulfurization of Gasoline via Dehydrosulfidation. Industrial & Engineering Chemistry Research, 2006, 45, 1291-1299.	1.8	18
82	Efficiency Factors in Photocatalytic Reactors: Quantum Yield and Photochemical Thermodynamic Efficiency Factor. Chemical Engineering and Technology, 2016, 39, 51-65.	0.9	18
83	Adsorption, Diffusion, and Reaction Phenomena on FCC Catalysts in the CREC Riser Simulator. Industrial & Engineering Chemistry Research, 2004, 43, 4709-4720.	1.8	17
84	Kinetic Modeling of Propane Oxidative Dehydrogenation over VO_x/Î³-Al₂O₃ Catalysts in the Chemical Reactor Engineering Center Riser Reactor Simulator. Industrial & Engineering Chemistry Research, 2014, 53, 15317-15332.	1.8	17
85	Photocatalytic reactor under different external irradiance conditions: Validation of a fully predictive radiation absorption model. Chemical Engineering Science, 2015, 126, 42-54.	1.9	17
86	A chemical equilibrium model for biomass gasification. Application to Costa Rican coffee pulp transformation unit. Biomass and Bioenergy, 2019, 123, 89-103.	2.9	17
87	The photochemical thermodynamic efficiency factor (PTEF) in photocatalytic reactors for air treatment. Chemical Engineering Journal, 2010, 165, 891-901.	6.6	16
88	110th Anniversary: Kinetic Model for Syngas Chemical Looping Combustion Using a Nickel-Based Highly Performing Fluidizable Oxygen Carrier. Industrial & Engineering Chemistry Research, 2019, 58, 2801-2811.	1.8	16
89	High Propylene Selectivity via Propane Oxidative Dehydrogenation Using a Novel Fluidizable Catalyst: Kinetic Modeling. Industrial & Engineering Chemistry Research, 2018, 57, 10251-10260.	1.8	15
90	Heats of Catalytic Cracking. Determination in a Riser Simulator Reactor. Industrial & Engineering Chemistry Research, 1997, 36, 4516-4522.	1.8	14

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91	Downer reactor flow measurements using CREC-GS-Optiprobes. Powder Technology, 2012, 224, 1-11.	2.1	14
92	Eight-lamp externally irradiated bench-scale photocatalytic reactor: Scale-up and performance prediction. Chemical Engineering Journal, 2015, 282, 142-151.	6.6	14
93	Computational Fluid Dynamics study of the CREC Riser Simulator: Mixing patterns. Powder Technology, 2017, 316, 641-649.	2.1	14
94	Downer fluidized bed reactor modeling for catalytic propane oxidative dehydrogenation with high propylene selectivity. Chemical Engineering and Processing: Process Intensification, 2019, 137, 87-99.	1.8	14
95	An Eco-Friendly Fluidizable FexOy/CaO-Î³-Al2O3 Catalyst for Tar Cracking during Biomass Gasification. Catalysts, 2020, 10, 806.	1.6	14
96	CO₂ Capture Using Chemical Looping Combustion from a Biomass-Derived Syngas Feedstock: Simulation of a Riserâ€“Downer Scaled-Up Unit. Industrial & Engineering Chemistry Research, 2020, 59, 6900-6913.	1.8	14
97	Kinetic modeling of catalytic cracking of gas oils using in situ traps (FCCT) to prevent metal contaminant effects. Industrial & Engineering Chemistry Research, 1993, 32, 1071-1080.	1.8	13
98	Catalytic Cracking with FCCT Loaded with Tin Metal Traps. Adsorption Constants for Gas Oil, Gasoline and Light Gases. Industrial & Engineering Chemistry Research, 1994, 33, 3131-3140.	1.8	13
99	Novel Photocatalytic Reactors for Water and Air Treatment. , 2005, , 17-47.		12
100	A Bentonitic Clay Assisted Method for the Preparation of 2-(R-Anilino)-1, 4-Naphthoquinones. Topics in Catalysis, 2008, 49, 281-287.	1.3	12
101	Syngas chemical looping combustion using a highly performing fluidizable oxygen carrier. Catalysis Today, 2020, 343, 63-71.	2.2	12
102	FIBRE OPTIC AND CAPACITANCE PROBES IN TURBULENT FLUIDIZED BEDS. Chemical Engineering Communications, 1997, 157, 73-107.	1.5	11
103	A fluidizable Zn-offretite for selective thiophenic species adsorption. Additive performance under FCC conditions. Fuel, 2016, 186, 222-234.	3.4	11
104	Ru-Promoted Ni/ŸAl2O3 Fluidized Catalyst for Biomass Gasification. Catalysts, 2020, 10, 316.	1.6	11
105	Synthesis and Performance of Photocatalysts for Photocatalytic Hydrogen Production: Future Perspectives. Catalysts, 2021, 11, 1505.	1.6	11
106	Kinematic waves and flow patterns in bubble columns and three-phase fluidized beds. Chemical Engineering Science, 1992, 47, 3403-3410.	1.9	10
107	Energy Efficiencies in a Photo-CREC-Air Reactor: Conversion of Model Organic Pollutants in Air. Industrial & Engineering Chemistry Research, 2012, 51, 5715-5727.	1.8	10
108	Influence of zeolite crystallite size on methyl-cyclohexane catalytic conversion products. Fuel, 2012, 96, 511-523.	3.4	10

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109	Selective adsorption of thiophene using a HIPZD additive in FCC. Fuel, 2014, 128, 71-87.	3.4	10
110	Scaling-up down flow reactors. CPFD simulations and model validation. Computers and Chemical Engineering, 2017, 101, 226-242.	2.0	10
111	Steam gasification of a cellulosic biomass surrogate using a Ni/La2O3-Î³Al2O3 catalyst in a CREC fluidized riser simulator. Kinetics and model validation. Fuel, 2018, 216, 101-109.	3.4	10
112	CO₂ biomass fluidized gasification: Thermodynamics and reactivity studies. Canadian Journal of Chemical Engineering, 2018, 96, 2176-2184.	0.9	10
113	Monitoring the progress of catalytic cracking for model compounds in the mid-infrared (MIR) 3200â€“2800â€¯cmâ»1 range. Chemical Engineering Science, 2018, 192, 788-802.	1.9	10
114	MTBE synthesis in a novel riser simulator. Canadian Journal of Chemical Engineering, 1999, 77, 413-419.	0.9	9
115	Photocatalytic degradation of malic acid using a thin coated TiO₂â€film: Insights on the mechanism of photocatalysis. AICHE Journal, 2014, 60, 3286-3299.	1.8	9
116	Simultaneous estimation of kinetics and catalysts activity during cracking of 1,3,5-tri-isopropyl benzene on FCC catalyst. Catalysis Today, 2014, 220-222, 178-185.	2.2	9
117	Energy efficiency limits in Photo-CREC-Air photocatalytic reactors. Chemical Engineering Science, 2016, 156, 77-88.	1.9	9
118	Kinetics of the pollutant photocatalytic conversion in a Photo-CREC-Air Reactor. Chemical Engineering Journal, 2017, 317, 1069-1082.	6.6	9
119	Evaluation of the moment method technique for the definition of adsorption parameters in a packed bed. Chemical Engineering Science, 1986, 41, 1233-1242.	1.9	8
120	Catalytic Cracking of Alkylbenzenes. Y-zeolites with Different Crystal Sizes. Studies in Surface Science and Catalysis, 2001, 134, 279-292.	1.5	8
121	Desulfurization of FCC Gasoline: Novel Catalytic Processes with Zeolites. International Journal of Chemical Reactor Engineering, 2008, 6, .	0.6	8
122	Particle cluster sizing in downer units. Applicable methodology across downer scale units. Powder Technology, 2017, 316, 198-206.	2.1	8
123	Photochemical Thermodynamic Efficiency Factors (PTEFs) for Hydrogen Production Using Different TiO₂ Photocatalysts. Industrial & Engineering Chemistry Research, 2019, 58, 22225-22235.	1.8	8
124	CO2-Derived Carbon Capture and Photon Absorption Efficiency by Microalgae in Novel PhotoBioCREC. Industrial & Engineering Chemistry Research, 2020, 59, 14710-14716.	1.8	8
125	The pseudoadiabatic regime for catalytic fixed bed reactors: The limiting operating conditions. The Chemical Engineering Journal, 1987, 34, 47-53.	0.4	7
126	Steam gasification of a cellulose surrogate over a fluidizable Ni/Î±â€alumina catalyst: A kinetic model. AICHE Journal, 2012, 58, 1588-1599.	1.8	7

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127	Determination of Kinetic Parameter in a Unified Kinetic Model for the Photodegradation of Phenol by Using Nonlinear Regression and the Genetic Algorithm. International Journal of Chemical Reactor Engineering, 2013, 11, 641-656.	0.6	7
128	Catalyst/Feedstock Ratio Effect on FCC Using Different Catalysts Samples. Catalysts, 2019, 9, 542.	1.6	7
129	Single-Bubble Dynamics in a Dense Phase Fluidized Sand Bed Biomass Gasification Environment. Industrial & Engineering Chemistry Research, 2020, 59, 5601-5614.	1.8	7
130	Photocatalytic Conversion of Organic Pollutants in Air: Quantum Yields Using a Silver/Nitrogen/TiO2 Mesoporous Semiconductor under Visible Light. Catalysts, 2021, 11, 529.	1.6	7
131	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.	1.8	6
132	Cooling exothermic catalytic fixed bed reactors: Coâ€¢current versus countercurrent operation in a methanol conversion reactor. Canadian Journal of Chemical Engineering, 1987, 65, 1021-1026.	0.9	5
133	Steam promoted mesoporosity in USY zeolites: structural properties and 1,2,4-TMB reactivity. Journal of Molecular Catalysis A, 2004, 216, 83-99.	4.8	5
134	A Zn-Offretite for the adsorption of thiophenic species under fluidized catalytic cracking conditions. Synthesis, characterization and reactivity. Applied Catalysis B: Environmental, 2016, 189, 160-171.	10.8	5
135	Single bubble in a 3D sand fluidized bed gasifier environment: A CFD-MPPIC simulation. Chemical Engineering Science, 2021, 231, 116291.	1.9	5
136	Thermodynamics and Machine Learning Based Approaches for Vaporâ€“Liquidâ€“Liquid Phase Equilibria in n-Octane/Water, as a Naphthaâ€“Water Surrogate in Water Blends. Processes, 2021, 9, 413.	1.3	5
137	Synthetic naphtha recovery from water streams: Vapourâ€liquidâ€“liquid equilibrium (<scp>VLLE</scp>) studies in a dynamic <scp>VL</scp>â€cell unit with high intensity mixing. Canadian Journal of Chemical Engineering, 2022, 100, 607-625.	0.9	5
138	Compound catalyst for high yields of olefins from synthesis gas. Chemical Engineering Science, 1996, 51, 2885-2890.	1.9	4
139	C1â€“C4 Hydrocarbons from synthesis gas Reaction network modelling. Chemical Engineering Science, 1999, 54, 3391-3397.	1.9	4
140	Egg-shell catalyst for the synthesis of middle distillates. Studies in Surface Science and Catalysis, 2000, 130, 395-400.	1.5	4
141	A Mid-Infrared Region (MIR) lumped Group Contribution based method for monitoring light gases and gasolines in Fluid Catalytic Cracking. Chemical Engineering Science, 2020, 212, 115324.	1.9	4
142	Hybrid Particle Cluster CPFD Simulation in the Acceleration and Stabilized Sections of a Downflow Circulating Fluidized Bed. Industrial & Engineering Chemistry Research, 2020, 59, 20325-20336.	1.8	4
143	Photodegradation Efficiencies in a Photo-CREC Water-II Reactor Using Several TiO2 Based Catalysts. International Journal of Chemical Reactor Engineering, 2016, 14, 685-701.	0.6	3
144	Self Diffusivity of n-Dodecane and Benzothiophene in ZSM-5 Zeolites. Its Significance for a New Catalytic Light Diesel Desulfurization Process. International Journal of Chemical Reactor Engineering, 2016, 14, 737-748.	0.6	3

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145	Dancing with Bubbles: Deterministic versus Probabilistic Bubble Models in Dense Phase Sand Fluidized Beds for Biomass Gasification. Processes, 2021, 9, 1092.	1.3	2
146	CO2-Derived Carbon Capture Using Microalgae and Sodium Bicarbonate in a PhotoBioCREC Unit: Kinetic Modeling. Processes, 2021, 9, 1296.	1.3	2
147	Vapourâ€“liquidâ€“liquid and vapourâ€“liquid equilibrium of paraffinic aromatic synthetic naphtha/water blends: Prediction of the number of phases. Canadian Journal of Chemical Engineering, 0, , .	0.9	2
148	Cluster Acceleration and Stabilization in a Downflow Circulating Fluidized Bed Unit. Industrial & Engineering Chemistry Research, 2020, 59, 12360-12370.	1.8	2
149	Kinetic Modeling and Quantum Yields: Hydrogen Production via Pd-TiO2 Photocatalytic Water Splitting under Near-UV and Visible Light. Catalysts, 2022, 12, 113.	1.6	2
150	Kinetic Model of Catalytic Steam Gasification of 2-Methoxy-4-methylphenol Using 5% Niâ€“0.25% Ru/Î³Al2O3 in a CREC-Riser Simulator. Catalysts, 2022, 12, 282.	1.6	2
151	Entrained coal gasifiers: Modeling the particle acceleration. Canadian Journal of Chemical Engineering, 1981, 59, 658-661.	0.9	1
152	Modelling the kinetics of fast catalytic cracking reactions. Canadian Journal of Chemical Engineering, 1989, 67, 955-962.	0.9	1
153	Photocatalytic Degradation of Air Borne Pollutants. , 2005, , 149-168.		1
154	Diffusion and Equilibrium Adsorption Coefficients of Aromatic Hydrocarbon Species in Capillary Columns. International Journal of Chemical Reactor Engineering, 2014, 12, 597-609.	0.6	1
155	Riser Simulator: Testing of Adsorption Effects. ACS Symposium Series, 1996, , 312-321.	0.5	0
156	Preface:Â Engineering Foundation Conference in Barga, Italy. Industrial & Engineering Chemistry Research, 2001, 40, 5043-5043.	1.8	0
157	Heat-Transfer Prediction in the Riser of a Novel Fluidized Catalytic Cracking Unit. Industrial & Engineering Chemistry Research, 2001, 40, 4623-4632.	1.8	0
158	Water Decontamination of Organic Species: Modeling Reaction and Adsorption Processes. , 2005, , 133-147.		0
159	To the Distinguished Contribution of Professor Gulsen Dogu and Professor Timur Dogu to Chemical Reaction Engineering. International Journal of Chemical Reactor Engineering, 2019, 17, .	0.6	0
160	To the Distinguished Contribution of Professor Gulsen Dogu and Professor Timur Dogu to Chemical Reaction Engineering. International Journal of Chemical Reactor Engineering, 2019, 17, .	0.6	0
161	Phase equilibrium in n-octane/water separation units: vapor pressures, vapor and liquid molar fractions. International Journal of Chemical Reactor Engineering, 2021, 19, 767-777.	0.6	0
162	A Machine Learning Approach for Phase-Split Calculations in n-Octane/Water and PASN/Water Systems. Processes, 2022, 10, 710.	1.3	0