Martino Di Serio

List of Publications by Citations

215 papers	5,711 citations	37 h-index	66 g-index
222 ext. papers	6,315 ext. citations	4.8 avg, IF	5.66 L-index

#	Paper	IF	Citations
215	Heterogeneous Catalysts for Biodiesel Production. *Energy & Fuels*, **2008**, 22, 207-217	4.1	613
214	Transesterification of Soybean Oil to Biodiesel by Using Heterogeneous Basic Catalysts. *Industrial & Engineering Chemistry Research*, **2006**, 45, 3009-3014	3.9	340
213	Synthesis of biodiesel via homogeneous Lewis acid catalyst. *Journal of Molecular Catalysis A*, **2005**, 239, 111-115		192
212	Kinetics of Oleic Acid Esterification with Methanol in the Presence of Triglycerides. *Industrial & Engineering Chemistry Research*, **2005**, 44, 7978-7982	3.9	160
211	Chemical and Technical Aspects of Propene Oxide Production via Hydrogen Peroxide (HPPO Process). *Industrial & Engineering Chemistry Research*, **2013**, 52, 1168-1178	3.9	149
210	From Homogeneous to Heterogeneous Catalysts in Biodiesel Production. *Industrial & Engineering Chemistry Research*, **2007**, 46, 6379-6384	3.9	141
209	Main technologies in biodiesel production: State of the art and future challenges. *Catalysis Today*, **2012**, 195, 2-13	5.3	127
208	Ethanol dehydrogenation to ethyl acetate by using copper and copper chromite catalysts. *Chemical Engineering Journal*, **2012**, 179, 209-220	14.7	118
207	New Process for Producing Epichlorohydrin via Glycerol Chlorination. *Industrial & Engineering Chemistry Research*, **2010**, 49, 964-970	3.9	105
206	A biphasic model describing soybean oil epoxidation with H2O2 in a fed-batch reactor. *Chemical Engineering Journal*, **2011**, 173, 198-209	14.7	96
205	Vanadyl phosphate catalysts in biodiesel production. *Applied Catalysis A: General*, **2007**, 320, 1-7	5.1	96
204	Kinetics and modeling of fatty acids esterification on acid exchange resins. *Chemical Engineering Journal*, **2010**, 157, 539-550	14.7	93
203	Study of the surface acidity of TiO2/SiO2 catalysts by means of FTIR measurements of CO and NH3 adsorption. *Journal of Catalysis*, **2007**, 246, 293-300	7.3	75
202	Kinetic and catalytic aspects in the hydrogen peroxide production via anthraquinone. *Chemical Engineering Science*, **1999**, 54, 2799-2806	4.4	69
201	New Process for the Production of Glycerol tert-Butyl Ethers *Energy & Fuels*, **2010**, 24, 4668-4672	4.1	66
200	Synthesis of High Surface Area Phosphosilicate Glasses by a Modified Sol Gel Method. *Chemistry of Materials*, **2005**, 17, 2081-2090	9.6	65
199	Grafting of titanium alkoxides on high-surface SiO2 support: An advanced technique for the preparation of nanostructured TiO2/SiO2 catalysts. *Applied Catalysis A: General*, **2007**, 325, 256-262	5.1	63

198	Kinetics, Mass Transfer, and Palladium Catalyst Deactivation in the Hydrogenation Step of the Hydrogen Peroxide Synthesis via Anthraquinone. *Industrial & Engineering Chemistry Research*, **1994**, 33, 277-284	3.9	61
197	Kinetics of free fatty acids esterification: Batch and loop reactor modeling. *Chemical Engineering Journal*, **2009**, 154, 25-33	14.7	57
196	Transfer of the epoxidation of soybean oil from batch to flow chemistry guided by cost and environmental issues. *ChemSusChem*, **2012**, 5, 300-11	8.3	52
195	Oxidative Cleavage of the Double Bond of Monoenic Fatty Chains in Two Steps:A New Promising Route to Azelaic Acid and Other Industrial Products. *Industrial & Engineering Chemistry Research*, **2000**, 39, 2766-2771	3.9	51
194	Kinetics of Glycerol Chlorination with Hydrochloric Acid: A New Route to Dichlorohydrin. *Industrial & Engineering Chemistry Research*, **2007**, 46, 6456-6465	3.9	50
193	Biphasic Model Describing Soybean Oil Epoxidation with H2O2 in Continuous Reactors. *Industrial & Engineering Chemistry Research*, **2012**, 51, 8760-8767	3.9	48
192	Lactose hydrolysis by immobilized galactosidase: the effect of the supports and the kinetics. *Catalysis Today*, **2003**, 79-80, 333-339	5.3	48
191	Mg/Al hydrotalcite catalyst for biodiesel production in continuous packed bed reactors. *Catalysis Today*, **2012**, 195, 54-58	5.3	47
190	Biodiesel process intensification in a very simple microchannel device. *Chemical Engineering and Processing: Process Intensification*, **2012**, 52, 47-54	3.7	47
189	Preparation and properties of new acid catalysts obtained by grafting alkoxides and derivatives on the most common supports note I grafting aluminium and zirconium alkoxides and related sulphates on silica. *Applied Catalysis A: General*, **1998**, 167, 85-101	5.1	46
188	Valuation of Nb2O5SiO2 catalysts in soybean oil epoxidation. *Catalysis Today*, **2012**, 192, 112-116	5.3	45
187	Catalytic alkylation of phenol with methanol: factors influencing activities and selectivities. *Applied Catalysis*, **1990**, 64, 101-117		44
186	Kinetic study of ethanol dehydrogenation to ethyl acetate promoted by a copper/copper-chromite based catalyst. *Catalysis Today*, **2013**, 203, 202-210	5.3	43
185	Heterogeneous Catalysis in Biodiesel Production: The Influence of Leaching. *Topics in Catalysis*, **2010**, 53, 811-819	2.3	40
184	Kinetics of the Oxidative Dehydrogenation of Ethanol to Acetaldehyde on V2O5/TiO2SiO2 Catalysts Prepared by Grafting. *Industrial & Engineering Chemistry Research*, **2004**, 43, 1623-1633	3.9	40
183	Design of an adsorption column for methylene blue abatement over silica: From batch to continuous modeling. *Chemical Engineering Journal*, **2016**, 302, 287-295	14.7	39
182	Vanadium based catalysts prepared by grafting: preparation, properties and performances in the ODH of butane. *Applied Catalysis A: General*, **2004**, 270, 177-192	5.1	38
181	Kinetics and Mass Transfer of Free Fatty Acids Esterification with Methanol in a Tubular Packed Bed Reactor: A Key Pretreatment in Biodiesel Production. *Industrial & Engineering Chemistry Research*, **2007**, 46, 5113-5121	3.9	37

180	Oxidative dehydrogenation of ethanol to acetaldehyde on V2O5/TiO2-SiO2 catalysts obtained by grafting vanadium and titanium alkoxides on silica. *Journal of Molecular Catalysis A*, **2003**, 204-205, 617-627		37
179	Mass transfer and kinetics in ehtoxylation spray tower loop reactors. *Chemical Engineering Science*, **1999**, 54, 1499-1504	4.4	37
178	Role of mass transfer and kinetics in the hydrogenation of rapeseed oil on a supported palladium catalyst. *Applied Catalysis A: General*, **1994**, 116, 269-294	5.1	37
177	Poly (Lactic Acid)/Thermoplastic Starch Films: Effect of Cardoon Seed Epoxidized Oil on Their Chemicophysical, Mechanical, and Barrier Properties. *Coatings*, **2019**, 9, 574	2.9	36
176	Acid exchange resins deactivation in the esterification of free fatty acids. *Chemical Engineering Journal*, **2010**, 161, 212-222	14.7	36
175	Mechanism of silver-promoted ligand metathesis in square-planar complexes of d(8) Ions. Kinetics of formation and molecular structures of a trinuclear intermediate [(Me)(N-N)Pt(mu-Cl)Ag(mu-Cl)Pt(N-N)(Me)](+) and its dinuclear evolution product [(Me)(N-N)Pt(mu-Cl)Pt(N-N)(Me)](+) (N-N = Ar-N=C(Me)C(Me)=N-Ar; Ar = 2,6-(i-Pr)(2)C(6)H(3)).	5.1	36
174	Sustainable Process for Production of Azelaic Acid Through Oxidative Cleavage of Oleic Acid. *JAOCS, Journal of the American Oil Chemists' Society*, **2015**, 92, 1701-1707	1.8	35
173	Mass Transfer and Kinetics in Spray-Tower-Loop Absorbers and Reactors. *Industrial & Engineering Chemistry Research*, **2000**, 39, 4082-4093	3.9	35
172	Kinetics of Propene Oxide Production via Hydrogen Peroxide with TS-1. *Industrial & Engineering Chemistry Research*, **2014**, 53, 6274-6287	3.9	34
171	Gel derived niobium–silicon mixed oxides: Characterization and catalytic activity for cyclooctene epoxidation. *Applied Catalysis A: General*, **2008**, 347, 179-185	5.1	34
170	Oxidative dehydrogenation of propane using V2O5/TiO2/SiO2 catalysts prepared by grafting titanium and vanadium alkoxides on silica. *Journal of Molecular Catalysis A*, **2003**, 198, 151-165		34
169	Kinetics and mechanisms of fatty alcohol polyethoxylation. 1. The reaction catalyzed by potassium hydroxide. *Industrial & Engineering Chemistry Research*, **1992**, 31, 2413-2418	3.9	34
168	Influence of preparation methods and structure of niobium oxide-based catalysts in the epoxidation reaction. *Catalysis Today*, **2015**, 254, 99-103	5.3	32
167	Ethylene Oxide Solubility and Ethoxylation Kinetics in the Synthesis of Nonionic Surfactants. *Industrial & Engineering Chemistry Research*, **1995**, 34, 4092-4098	3.9	32
166	Hydrogenation of the aromatic rings of 2-ethylanthraquinone on palladium catalyst. *Journal of Molecular Catalysis*, **1994**, 94, 37-46		31
165	Thermal risk in semi-batch reactors: The epoxidation of soybean oil. *Chemical Engineering Research and Design*, **2017**, 109, 529-537	5.5	30
164	Zirconocene-Based Catalysts for the Ethylene–Styrene Copolymerization: Reactivity Ratios and Reaction Mechanism. *Macromolecules*, **1997**, 30, 5616-5619	5.5	30
163	Double bond oxidative cleavage of monoenic fatty chains. *Catalysis Today*, **2003**, 79-80, 59-65	5.3	30

162	A kinetic and mass transfer model to simulate the growth of baker yeast in industrial bioreactors. *Chemical Engineering Journal*, **2001**, 82, 347-354	14.7	30
161	Comparison of Different Reactor Types Used in the Manufacture of Ethoxylated, Propoxylated Products. *Industrial & Engineering Chemistry Research*, **2005**, 44, 9482-9489	3.9	29
160	Oxidative dehydrogenation of isobutane over V2O5-based catalysts prepared by grafting vanadyl alkoxides on TiO2?SiO2 supports. *Applied Catalysis A: General*, **2003**, 246, 49-68	5.1	29
159	Preparation and properties of new acid catalysts obtained by grafting alkoxides and derivatives on the most common supports. Part III grafting titanium alkoxides and sulphate derivatives on silica. *Applied Catalysis A: General*, **1999**, 178, 97-109	5.1	29
158	Kinetics of nonylphenol polyethoxylation catalyzed by potassium hydroxide. *Industrial & Engineering Chemistry Research*, **1990**, 29, 719-725	3.9	29
157	Fluid-Solid Adsorption in Batch and Continuous Processing: A Review and Insights into Modeling. *Chemical Engineering and Technology*, **2017**, 40, 799-820	2	28
156	Synthesis and characterization of sustainable polyurethane foams based on polyhydroxyls with different terminal groups. *Polymer*, **2018**, 149, 134-145	3.9	28
155	Preparation and properties of new acid catalysts obtained by grafting alkoxides and derivatives on the most common supports. Part II: Grafting zirconium and silicon alkoxides on alumina. *Applied Catalysis A: General*, **1998**, 170, 225-244	5.1	28
154	Chemical and Technical Aspects of the Synthesis of Chlorohydrins from Glycerol. *Industrial & Engineering Chemistry Research*, **2014**, 53, 8939-8962	3.9	27
153	Heterogeneous basic catalysts for the transesterification and the polycondensation reactions in PET production from DMT. *Journal of Molecular Catalysis A*, **2004**, 212, 251-257		27
152	Cleaner hydrothermal hydrogenolysis of glycerol to 1,2-propanediol over Cu/oxide catalysts without addition of external hydrogen. *Molecular Catalysis*, **2017**, 432, 274-284	3.3	26
151	Enhanced performances of grafted VOx on titania/silica for the selective photocatalytic oxidation of ethanol to acetaldehyde. *Catalysis Today*, **2013**, 209, 159-163	5.3	26
150	A dynamic intraparticle model for fluid solid adsorption kinetics. *Computers and Chemical Engineering*, **2015**, 74, 66-74	4	26
149	A simple device to test biodiesel process intensification. *Chemical Engineering and Processing: Process Intensification*, **2011**, 50, 1085-1094	3.7	26
148	Glycerol Chlorination in Gas liquid Semibatch Reactor: An Alternative Route for Chlorohydrins Production. *Industrial & Engineering Chemistry Research*, **2012**, 51, 8768-8776	3.9	25
147	Kinetics of Performic Acid Synthesis and Decomposition. *Industrial & Engineering Chemistry Research*, **2017**, 56, 12940-12952	3.9	24
146	Synthesis of Monoalkyl Glyceryl Ethers by Ring Opening of Glycidol with Alcohols in the Presence of Lewis Acids. *ChemSusChem*, **2016**, 9, 3272-3275	8.3	24
145	Methanol steam reforming: A comparison of different kinetics in the simulation of a packed bed reactor. *Chemical Engineering Journal*, **2009**, 154, 69-75	14.7	24

144	Comparison of Different Reactor Configurations for the Reduction of Free Acidity in Raw Materials for Biodiesel Production. *Industrial & Engineering Chemistry Research*, **2007**, 46, 8355-8362	3.9	24
143	Modeling of polyurethane foam formation. *Journal of Applied Polymer Science*, **2004**, 92, 1875-1886	2.9	24
142	Kinetics of Ethoxylation and Propoxylation of 1- and 2-Octanol Catalyzed by KOH. *Industrial & Engineering Chemistry Research*, **1996**, 35, 3848-3853	3.9	24
141	Cynara cardunculus Biomass Recovery: An Eco-Sustainable, Nonedible Resource of Vegetable Oil for the Production of Poly(lactic acid) Bioplasticizers. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 4069-4077	8.3	23
140	A novel and robust homogeneous supported catalyst for biodiesel production. *Fuel*, **2016**, 171, 1-4	7.1	23
139	Coking of Catalysts in Catalytic Glycerol Dehydration to Acrolein. *Industrial & Engineering Chemistry Research*, **2018**, 57, 10736-10753	3.9	23
138	Modeling of microreactors for ethylene epoxidation and total oxidation. *Chemical Engineering Science*, **2015**, 134, 563-571	4.4	22
137	Kinetic and catalytic aspects of the formation of poly(ethylene terephthalate) (PET) investigated with model molecules. *Journal of Applied Polymer Science*, **1998**, 69, 2423-2433	2.9	22
136	Kinetics of Ethoxylation and Propoxylation of Ethylene Glycol Catalyzed by KOH. *Industrial & Engineering Chemistry Research*, **2002**, 41, 5196-5206	3.9	22
135	Kinetic and catalytic aspects in melt transesterification of dimethyl terephthalate with ethylene glycol. *Journal of Applied Polymer Science*, **1994**, 54, 1371-1384	2.9	21
134	Liquid□liquid□Solid Model for the Epoxidation of Soybean Oil Catalyzed by Amberlyst-16. *Industrial & Engineering Chemistry Research*, **2017**, 56, 12963-12971	3.9	20
133	Shiff base complexes of zinc(II) as catalysts for biodiesel production. *Journal of Molecular Catalysis A*, **2012**, 353-354, 106-110		20
132	Biodiesel Process Intensification by Using Static Mixers Tubular Reactors. *Industrial & Engineering Chemistry Research*, **2012**, 51, 8777-8787	3.9	20
131	Emerging Risks in the Biodiesel Production by Transesterification of Virgin and Renewable Oils. *Energy & Fuels*, **2010**, 24, 6103-6109	4.1	20
130	New findings on soybean and methylester epoxidation with alumina as the catalyst. *RSC Advances*, **2016**, 6, 31647-31652	3.7	20
129	Applications of Metal Organic Frameworks in Wastewater Treatment: A Review on Adsorption and Photodegradation. *Frontiers in Chemical Engineering*, **2020**, 2,	1	19
128	and Strategies to Enhance the Properties of PHB-Based Materials: A Review. *Frontiers in Bioengineering and Biotechnology*, **2020**, 8, 619266	5.8	19
127	Self-Activating Catalyst for Glucose Hydrogenation in the Aqueous Phase under Mild Conditions. *ACS Catalysis*, **2019**, 9, 3426-3436	13.1	18

126	Dynamic non-isothermal trickle bed reactor with both internal diffusion and heat conduction: Sugar hydrogenation as a case study. *Chemical Engineering Research and Design*, **2015**, 102, 171-185	5.5	18
125	Synthesis of Biolubricant Basestocks from Epoxidized Soybean Oil. *Catalysts*, **2017**, 7, 309	4	18
124	Absorption of water/methanol binary system on ion-exchange resins. *Canadian Journal of Chemical Engineering*, **2010**, 88, 1044-1053	2.3	18
123	Ethoxylation of fatty alcohols promoted by an aluminum alkoxide sulphate catalyst. *Journal of Molecular Catalysis A*, **1996**, 112, 235-251		18
122	A New Simple Microchannel Device To Test Process Intensification. *Industrial & Engineering Chemistry Research*, **2011**, 50, 2569-2575	3.9	17
121	Kinetics and mechanisms of fatty alcohol polyethoxylation. 2. Narrow-range ethoxylation obtained with barium catalysts. *Industrial & Engineering Chemistry Research*, **1992**, 31, 2419-2421	3.9	17
120	Efficient and selective conversion of glycidol to 1,2-propanediol over Pd/C catalyst. *Catalysis Communications*, **2016**, 77, 98-102	3.2	17
119	A Sol□Gel Ruthenium□Niobium□Silicon Mixed-Oxide Bifunctional Catalyst for the Hydrogenation of Levulinic Acid in the Aqueous Phase. *ChemCatChem*, **2017**, 9, 1476-1486	5.2	16
118	Properties of Ethoxylated Castor Oil Acid Methyl Esters Prepared by Ethoxylation over an Alkaline Catalyst. *Journal of Surfactants and Detergents*, **2015**, 18, 365-370	1.9	16
117	An Environmentally Friendly Nb□Si Solid Catalyst for Acid-Demanding Reactions. *Journal of Physical Chemistry C*, **2017**, 121, 17378-17389	3.8	15
116	Catalysis for esterification reactions: a key step in the biodiesel production from waste oils. *Rendiconti Lincei*, **2017**, 28, 117-123	1.7	15
115	Description of the vapor□liquid equilibrium in binary refrigerant/lubricating oil systems by means of an extended Flory□Huggins model. *Journal of Fluorine Chemistry*, **1999**, 99, 29-36	2.1	15
114	Kinetics of Fatty Acids Polyethoxylation. *Industrial & Engineering Chemistry Research*, **1994**, 33, 509-514	3.9	15
113	Catalytic oxidation of methanol to formaldehyde: an example of kinetics with transport phenomena in a packed-bed reactor. *Catalysis Today*, **2003**, 77, 325-333	5.3	14
112	Intraparticle diffusion model to determine the intrinsic kinetics of ethyl levulinate synthesis promoted by Amberlyst-15. *Chemical Engineering Science*, **2020**, 228, 115974	4.4	14
111	Further verification of adsorption dynamic intraparticle model (ADIM) for fluid□solid adsorption kinetics in batch reactors. *Chemical Engineering Journal*, **2016**, 283, 1197-1202	14.7	13
110	Niobium Based Catalysts for Methyl Oleate Epoxidation Reaction. *Topics in Catalysis*, **2017**, 60, 1054-1061	2.3	13
109	Kinetic study of Amberlite IR120 catalyzed acid esterification of levulinic acid with ethanol: From batch to continuous operation. *Chemical Engineering Journal*, **2020**, 401, 126126	14.7	13

108	Strategies for immobilizing homogeneous zinc catalysts in biodiesel production. *Catalysis Communications*, **2014**, 56, 81-85	3.2	13
107	Selective Epoxidation of Soybean Oil in the Presence of HTS Zeolite. *Industrial & Engineering Chemistry Research*, **2017**, 56, 7930-7936	3.9	13
106	A Sustainable Process for the Production of Varnishes Based on Pelargonic Acid Esters. *JAOCS, Journal of the American Oil ChemistsqSociety*, **2019**, 96, 443-451	1.8	13
105	Kinetics and Modelling of Levulinic Acid Esterification in Batch and Continuous Reactors. *Topics in Catalysis*, **2018**, 61, 1856-1865	2.3	12
104	Glycerol chlorination in a gas-liquid semibatch reactor: New catalysts for chlorohydrin production. *Chinese Journal of Catalysis*, **2014**, 35, 663-669	11.3	12
103	Use of a Corrugated Plates Heat Exchanger Reactor for Obtaining Biodiesel with Very High Productivity. *Energy & Fuels*, **2009**, 23, 5206-5212	4.1	12
102	Kinetics of the oxidative dehydrogenation (ODH) of methanol to formaldehyde by supported vanadium-based nanocatalysts. *Catalysis Today*, **2007**, 128, 191-200	5.3	12
101	Oxidized glucosidic oligomers: a new class of sequestering agents preparation and properties. *Carbohydrate Polymers*, **1994**, 23, 35-46	10.3	12
100	Thermal stability of nonionic polyoxyalkylene surfactants. *Journal of Applied Polymer Science*, **1991**, 42, 2053-2061	2.9	12
99	Catalysts for the Ethoxylation of Esters. *Journal of Surfactants and Detergents*, **2015**, 18, 913-918	1.9	11
98	Catalytic glycerol dehydration-oxidation to acrylic acid. *Catalysis Reviews - Science and Engineering*, **2020**, 62, 481-523	12.6	11
97	A Rapid Method for the Evaluation of the Dispersion of Palladium in Supported Catalysts. *Journal of Catalysis*, **1997**, 172, 485-487	7.3	11
96	Role of ethylene oxide solubility in the ethoxylation processes. *Catalysis Today*, **1995**, 24, 23-28	5.3	11
95	Kinetic and catalytic aspects in melt transesterification of dimethyl terephthalate with ethylene glycol in the presence of different catalytic systems. *Journal of Applied Polymer Science*, **1996**, 62, 409-415	2.9	11
94	Kinetics of chloroform fluorination by HF catalyzed by antimony pentachloride. *Journal of Fluorine Chemistry*, **1989**, 44, 87-111	2.1	11
93	Bioethanol as feedstock for chemicals such as acetaldehyde, ethyl acetate and pure hydrogen. *Biomass Conversion and Biorefinery*, **2013**, 3, 55-67	2.3	10
92	Preparation, characterization and catalytic performances of highly dispersed supported TiO2/SiO2 catalysts in biodiesel production. *Studies in Surface Science and Catalysis*, **2006**, 299-306	1.8	10
91	A general kinetic and mass transfer model to simulate the baker yeast growth in bioreactors. *Catalysis Today*, **2001**, 66, 437-445	5.3	10

90	A predictive model for the diffusion of a highly non-ideal ternary system. *Physical Chemistry Chemical Physics*, **2018**, 20, 18436-18446	3.6	10
89	Quantification of Polyphenols and Metals in Chinese Tea Infusions by Mass Spectrometry. *Foods*, **2020**, 9,	4.9	9
88	Investigation of the intrinsic reaction kinetics and the mass transfer phenomena of nonanoic acid esterification with 2-ethylhexanol promoted by sulfuric acid or Amberlite IR120. *Chemical Engineering Journal*, **2021**, 408, 127236	14.7	9
87	A critical review on analytical methods and characterization of butyl and bromobutyl rubber. *International Journal of Polymer Analysis and Characterization*, **2017**, 22, 348-360	1.7	8
86	Vapour–liquid equilibrium measurements for binary mixtures of R32, R143a, R134a and R125 with a perfluoropolyether lubricant. *Journal of Fluorine Chemistry*, **2003**, 121, 15-22	2.1	8
85	Quantitative Analysis of the Key Factors Affecting Yeast Growth. *Industrial & Engineering Chemistry Research*, **2003**, 42, 5109-5116	3.9	8
84	Kinetics of methanol homologation. *Journal of Molecular Catalysis*, **1990**, 58, 27-42		8
83	New Production Processes of Dichlorohydrins from Glycerol Using Acyl Chlorides as Catalysts or Reactants. *Industrial & Engineering Chemistry Research*, **2016**, 55, 1484-1490	3.9	7
82	Selective epoxidation of soybean oil with performic acid catalyzed by acidic ionic exchange resins. *Green Processing and Synthesis*, **2013**, 2,	3.9	7
81	Kinetic and catalytic aspects of dimethylterephtalate transesterification also through the use of model molecules. *Journal of Molecular Catalysis A*, **1998**, 130, 233-240		7
80	Phase Equilibria in Binary Mixtures Refrigerant + Fluorinated Lubricating Oil: Vapor–liquid and Liquid–liquid Measurements. *Journal of Chemical & Engineering Data*, **2004**, 49, 838-846	2.8	7
79	Heterogeneous catalysts for the production of anthraquinone from 2-benzoylbenzoic acid. *Chemical Engineering Journal*, **2002**, 90, 195-201	14.7	7
78	Synthesis and purification of anthraquinone in a multifunctional reactor. *Catalysis Today*, **2001**, 66, 167-174	5.3	7
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76	Soybean Oil Epoxidation: Kinetics of the Epoxide Ring Opening Reactions. *Processes*, **2020**, 8, 1134	2.9	7
75	Synthesis, Surface Properties, and Self-Aggregation Behavior of a Branched N,N-Dimethylalkylamine Oxide Surfactant. *Journal of Surfactants and Detergents*, **2019**, 22, 115-124	1.9	7
74	Polyethoxylation and polypropoxylation reactions: Kinetics, mass transfer and industrial reactor design. *Chinese Journal of Chemical Engineering*, **2018**, 26, 1235-1251	3.2	6
73	Chromatographic reactor modelling. *Chemical Engineering Journal*, **2019**, 377, 119692	14.7	6

72	On the Importance of Choosing the Best Minimization Algorithm for the Determination of Ternary Diffusion Coefficients by the Taylor Dispersion Method. *ACS Omega*, **2017**, 2, 2945-2952	3.9	6
71	Niobia supported on silica as a catalyst for Biodiesel production from waste oil. *Catalysis for Sustainable Energy*, **2015**, 2, 33-42	0.6	6
70	Parallel Reactor Activity Studies of the Preferential Oxidation of CO on Transition Metals Supported on TiO2 and TiO2 Nanotubes. *Catalysis Letters*, **2009**, 130, 19-27	2.8	6
69	Gas□liquid and Gas□liquid□solid Reactions Performed in Spray Tower Loop Reactors. *Industrial & Engineering Chemistry Research*, **2005**, 44, 9461-9472	3.9	6
68	Bio-lubricants synthesis from the epoxidized oil promoted by clays: Kinetic modelling. *Chemical Engineering Science*, **2020**, 214, 115445	4.4	6
67	Homogeneous Catalysis and Heterogeneous Recycling: A Simple Zn(II) Catalyst for Green Fatty Acid Esterification. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 6001-6011	8.3	6
66	Micellar Properties for Propoxylated Surfactants in Water/Alcohol Solvent Mixtures and Their Antibacterial and Polyester Fabric Antistatic Performances. *Journal of Surfactants and Detergents*, **2016**, 19, 543-552	1.9	6
65	Influence of the vapor□quid equilibria (VLE) on the kinetics in gas□quid and gas□quid□solid systems. *Catalysis Today*, **2003**, 79-80, 323-331	5.3	5
64	Kinetic and mass transfer in the hydrogenation of polyunsaturated organic compounds in the presence of supported Pd catalysts. *Catalysis Today*, **2001**, 66, 403-410	5.3	5
63	Chain propagation rate constants for gas-phase polymerization of propene and 1-butene with Ziegler-Natta catalysts. *Macromolecular Chemistry and Physics*, **1994**, 195, 211-216	2.6	5
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61	Bio-based polyurethane foams from renewable resources **2016**,		5
60	Modelling of homogeneously catalyzed hemicelluloses hydrolysis in a laminar-flow reactor. *Chemical Engineering Science*, **2019**, 195, 758-766	4.4	5
59	Kinetic Modeling of Solketal Synthesis from Glycerol and Acetone Catalyzed by an Iron(III) Complex. *Catalysts*, **2021**, 11, 83	4	5
58	Epoxidation of Linseed Oil by Performic Acid Produced In Situ. *Industrial & Engineering Chemistry Research*,	3.9	5
57	Loop reactor modeling for lubricants synthesis. *Chemical Engineering Journal*, **2017**, 329, 295-304	14.7	4
56	Synthesis and properties of □sulfo carboxyl disodium salt. *Journal of Dispersion Science and Technology*, **2018**, 39, 1360-1366	1.5	4
55	High purity fructose from inulin with heterogeneous catalysis□from batch to continuous operation. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 418-425	3.5	4

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53	Description of the liquid□liquid equilibrium in binary and multicomponent CFC/lubricating oil mixtures by means of an extended Flory□Huggins model. *Journal of Fluorine Chemistry*, **2000**, 103, 41-51	2.1	4
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50	Kinetics of Soybean Oil Epoxidation in a Semibatch Reactor. *Industrial & Engineering Chemistry Research*, **2020**, 59, 21700-21711	3.9	4
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