# Martino Di Serio

List of Publications by Year
in descending order



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|---|---|---|---|
| 221 papers | 7,141 citations | 71061 41 h-index | 79644 73 g-index |
| 225 all docs | 225 docs citations | 225 times ranked | 6159 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Heterogeneous Catalysts for Biodiesel Production. Energy & Fuels, 2008, 22, 207-217. | 2.5 | 678 |
| 2 | Transesterification of Soybean Oil to Biodiesel by Using Heterogeneous Basic Catalysts. Industrial & Engineering Chemistry Research, 2006, 45, 3009-3014. | 1.8 | 378 |
| 3 | Synthesis of biodiesel via homogeneous Lewis acid catalyst. Journal of Molecular Catalysis A, 2005, 239, 111-115. | 4.8 | 208 |
| 4 | Chemical and Technical Aspects of Propene Oxide Production via Hydrogen Peroxide (HPPO Process). Industrial & Engineering Chemistry Research, 2013, 52, 1168-1178. | 1.8 | 204 |
| 5 | Kinetics of Oleic Acid Esterification with Methanol in the Presence of Triglycerides. Industrial & Engineering Chemistry Research, 2005, 44, 7978-7982. | 1.8 | 175 |
| 6 | Main technologies in biodiesel production: State of the art and future challenges. Catalysis Today, 2012, 195, 2-13. | 2.2 | 154 |
| 7 | From Homogeneous to Heterogeneous Catalysts in Biodiesel Production. Industrial & Engineering Chemistry Research, 2007, 46, 6379-6384. | 1.8 | 151 |
| 8 | Ethanol dehydrogenation to ethyl acetate by using copper and copper chromite catalysts. Chemical Engineering Journal, 2012, 179, 209-220. | 6.6 | 149 |
| 9 | New Process for Producing Epichlorohydrin via Glycerol Chlorination. Industrial & Engineering Chemistry Research, 2010, 49, 964-970. | 1.8 | 122 |
| 10 | A biphasic model describing soybean oil epoxidation with H2O2 in a fed-batch reactor. Chemical Engineering Journal, 2011, 173, 198-209. | 6.6 | 118 |
| 11 | Vanadyl phosphate catalysts in biodiesel production. Applied Catalysis A: General, 2007, 320, 1-7. | 2.2 | 109 |
| 12 | Kinetics and modeling of fatty acids esterification on acid exchange resins. Chemical Engineering Journal, 2010, 157, 539-550. | 6.6 | 98 |
| 13 | 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. | 3.1 | 88 |
| 14 | Applications of Metal Organic Frameworks in Wastewater Treatment: A Review on Adsorption and Photodegradation. Frontiers in Chemical Engineering, 2020, 2, . | 1.3 | 83 |
| 15 | Kinetic and catalytic aspects in the hydrogen peroxide production via anthraquinone. Chemical Engineering Science, 1999, 54, 2799-2806. | 1.9 | 82 |
| 16 | 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. | 1.8 | 75 |
| 17 | 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. | 2.2 | 74 |
| 18 | Synthesis of High Surface Area Phosphosilicate Glasses by a Modified Solâ^'Gel Method. Chemistry of Materials, 2005, 17, 2081-2090. | 3.2 | 73 |

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| 19 | New Process for the Production of Glycerol tert-Butyl Ethers. Energy & Fuels, 2010, 24, 4668-4672. | 2.5 | 69 |
| 20 | Kinetics of free fatty acids esterification: Batch and loop reactor modeling. Chemical Engineering Journal, 2009, 154, 25-33. | 6.6 | 66 |
| 21 | Poly (Lactic Acid)/Thermoplastic Starch Films: Effect of Cardoon Seed Epoxidized Oil on Their Chemicophysical, Mechanical, and Barrier Properties. Coatings, 2019, 9, 574. | 1.2 | 64 |
| 22 | In vivo and Post-synthesis Strategies to Enhance the Properties of PHB-Based Materials: A Review. Frontiers in Bioengineering and Biotechnology, 2020, 8, 619266. | 2.0 | 61 |
| 23 | Design of an adsorption column for methylene blue abatement over silica: From batch to continuous modeling. Chemical Engineering Journal, 2016, 302, 287-295. | 6.6 | 60 |
| 24 | Biphasic Model Describing Soybean Oil Epoxidation with H<sub>2</sub>O<sub>2</sub> in Continuous Reactors. Industrial & Engineering Chemistry Research, 2012, 51, 8760-8767. | 1.8 | 59 |
| 25 | Oxidative Cleavage of the Double Bond of Monoenic Fatty Chains in Two Steps:Â A New Promising Route to Azelaic Acid and Other Industrial Products. Industrial & Engineering Chemistry Research, 2000, 39, 2766-2771. | 1.8 | 57 |
| 26 | Catalytic alkylation of phenol with methanol: factors influencing activities and selectivities. Applied Catalysis, 1990, 64, 101-117. | 1.1 | 55 |
| 27 | Kinetics of Glycerol Chlorination with Hydrochloric Acid:â€‰ A New Route to Î±,Î³-Dichlorohydrin. Industrial & Engineering Chemistry Research, 2007, 46, 6456-6465. | 1.8 | 55 |
| 28 | Transfer of the Epoxidation of Soybean Oil from Batch to Flow Chemistry Guided by Cost and Environmental Issues. ChemSusChem, 2012, 5, 300-311. | 3.6 | 55 |
| 29 | Mg/Al hydrotalcite catalyst for biodiesel production in continuous packed bed reactors. Catalysis Today, 2012, 195, 54-58. | 2.2 | 54 |
| 30 | Kinetic study of ethanol dehydrogenation to ethyl acetate promoted by a copper/copper-chromite based catalyst. Catalysis Today, 2013, 203, 202-210. | 2.2 | 54 |
| 31 | Biodiesel process intensification in a very simple microchannel device. Chemical Engineering and Processing: Process Intensification, 2012, 52, 47-54. | 1.8 | 53 |
| 32 | Lactose hydrolysis by immobilized Î²-galactosidase: the effect of the supports and the kinetics. Catalysis Today, 2003, 79-80, 333-339. | 2.2 | 52 |
| 33 | Valuation of Nb2O5â€“SiO2 catalysts in soybean oil epoxidation. Catalysis Today, 2012, 192, 112-116. | 2.2 | 51 |
| 34 | Preparation and properties of new acid catalysts obtained by grafting alkoxides and derivatives on the most common supports note I â€” grafting aluminium and zirconium alkoxides and related sulphates on silica. Applied Catalysis A: General, 1998, 167, 85-101. | 2.2 | 49 |
| 35 | Vanadium based catalysts prepared by grafting: preparation, properties and performances in the ODH of butane. Applied Catalysis A: General, 2004, 270, 177-192. | 2.2 | 48 |
| 36 | Thermal risk in semi-batch reactors: The epoxidation of soybean oil. Chemical Engineering Research and Design, 2017, 109, 529-537. | 2.7 | 47 |

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| 37 | Kinetics of Propene Oxide Production via Hydrogen Peroxide with TS-1. Industrial & Engineering Chemistry Research, 2014, 53, 6274-6287. | 1.8 | 45 |
| 38 | Kinetics of the Oxidative Dehydrogenation of Ethanol to Acetaldehyde on V2O5/TiO2â˜'SiO2 Catalysts Prepared by Grafting. Industrial & Engineering Chemistry Research, 2004, 43, 1623-1633. | 1.8 | 43 |
| 39 | Heterogeneous Catalysis in Biodiesel Production: The Influence of Leaching. Topics in Catalysis, 2010, 53, 811-819. | 1.3 | 43 |
| 40 | 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. | 0.8 | 43 |
| 41 | Coking of Catalysts in Catalytic Glycerol Dehydration to Acrolein. Industrial & Engineering Chemistry Research, 2018, 57, 10736-10753. | 1.8 | 43 |
| 42 | Kinetics and mechanisms of fatty alcohol polyethoxylation. 1. The reaction catalyzed by potassium hydroxide. Industrial & Engineering Chemistry Research, 1992, 31, 2413-2418. | 1.8 | 41 |
| 43 | 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. | 2.2 | 41 |
| 44 | Mass Transfer and Kinetics in Spray-Tower-Loop Absorbers and Reactors. Industrial & Engineering Chemistry Research, 2000, 39, 4082-4093. | 1.8 | 41 |
| 45 | Acid exchange resins deactivation in the esterification of free fatty acids. Chemical Engineering Journal, 2010, 161, 212-222. | 6.6 | 41 |
| 46 | Kinetics and Mass Transfer of Free Fatty Acids Esterification with Methanol in a Tubular Packed Bed Reactor:â€‰ A Key Pretreatment in Biodiesel Production. Industrial & Engineering Chemistry Research, 2007, 46, 5113-5121. | 1.8 | 40 |
| 47 | Kinetics of Performic Acid Synthesis and Decomposition. Industrial & Engineering Chemistry Research, 2017, 56, 12940-12952. | 1.8 | 40 |
| 48 | Mass transfer and kinetics in ehtoxylation spray tower loop reactors. Chemical Engineering Science, 1999, 54, 1499-1504. | 1.9 | 39 |
| 49 | Mechanism of Silver-Promoted Ligand Metathesis in Square-Planar Complexes of d8Ions. Kinetics of Formation and Molecular Structures of a Trinuclear Intermediate [(Me)(Nâ˜'N)Pt(Î¼-Cl)Ag(Î¼-Cl)Pt(Nâ˜'N)(Me)]+and Its Dinuclear Evolution Product [(Me)(Nâ˜'N)Pt(Î¼-Cl)Pt(Nâ˜'N)(Me)]+(Nâ˜'N = ArNC(Me)C(Me)NAr, Ar = 2,6-(i-Pr)2C6H3). Inorganic Chemistry, 2002, 41, 2672-2677. | 1.9 | 39 |
| 50 | 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. | 4.8 | 39 |
| 51 | Influence of preparation methods and structure of niobium oxide-based catalysts in the epoxidation reaction. Catalysis Today, 2015, 254, 99-103. | 2.2 | 39 |
| 52 | 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. | 4.8 | 38 |
| 53 | Hydrogenation of the aromatic rings of 2-ethylanthraquinone on palladium catalyst. Journal of Molecular Catalysis, 1994, 94, 37-46. | 1.2 | 37 |
| 54 | Zirconocene-Based Catalysts for the Ethyleneâ˜'Styrene Copolymerization:Â Reactivity Ratios and Reaction Mechanism. Macromolecules, 1997, 30, 5616-5619. | 2.2 | 37 |

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| 55 | Gel derived niobiumâ€“silicon mixed oxides: Characterization and catalytic activity for cyclooctene epoxidation. Applied Catalysis A: General, 2008, 347, 179-185. | 2.2 | 37 |
| 56 | Cleaner hydrothermal hydrogenolysis of glycerol to 1,2-propanediol over Cu/oxide catalysts without addition of external hydrogen. Molecular Catalysis, 2017, 432, 274-284. | 1.0 | 37 |
| 57 | Synthesis and characterization of sustainable polyurethane foams based on polyhydroxyls with different terminal groups. Polymer, 2018, 149, 134-145. | 1.8 | 37 |
| 58 | Ethylene Oxide Solubility and Ethoxylation Kinetics in the Synthesis of Nonionic Surfactants. Industrial & Engineering Chemistry Research, 1995, 34, 4092-4098. | 1.8 | 36 |
| 59 | Preparation and properties of new acid catalysts obtained by grafting alkoxides and derivatives on the most common supports. Part III â€“ grafting titanium alkoxides and sulphate derivatives on silica. Applied Catalysis A: General, 1999, 178, 97-109. | 2.2 | 36 |
| 60 | Double bond oxidative cleavage of monoenic fatty chains. Catalysis Today, 2003, 79-80, 59-65. | 2.2 | 36 |
| 61 | Fluidâ€Solid Adsorption in Batch and Continuous Processing: A Review and Insights into Modeling. Chemical Engineering and Technology, 2017, 40, 799-820. | 0.9 | 36 |
| 62 | 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. | 3.2 | 36 |
| 63 | Comparison of Different Reactor Types Used in the Manufacture of Ethoxylated, Propoxylated Products. Industrial & Engineering Chemistry Research, 2005, 44, 9482-9489. | 1.8 | 35 |
| 64 | A dynamic intraparticle model for fluidâ€“solid adsorption kinetics. Computers and Chemical Engineering, 2015, 74, 66-74. | 2.0 | 35 |
| 65 | Kinetics of nonylphenol polyethoxylation catalyzed by potassium hydroxide. Industrial & Engineering Chemistry Research, 1990, 29, 719-725. | 1.8 | 34 |
| 66 | A kinetic and mass transfer model to simulate the growth of bakerâ€™s yeast in industrial bioreactors. Chemical Engineering Journal, 2001, 82, 347-354. | 6.6 | 34 |
| 67 | 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. | 2.2 | 33 |
| 68 | Synthesis of Biolubricant Basestocks from Epoxidized Soybean Oil. Catalysts, 2017, 7, 309. | 1.6 | 32 |
| 69 | Modeling of polyurethane foam formation. Journal of Applied Polymer Science, 2004, 92, 1875-1886. | 1.3 | 31 |
| 70 | Heterogeneous basic catalysts for the transesterification and the polycondensation reactions in PET production from DMT. Journal of Molecular Catalysis A, 2004, 212, 251-257. | 4.8 | 31 |
| 71 | Chemical and Technical Aspects of the Synthesis of Chlorohydrins from Glycerol. Industrial & Engineering Chemistry Research, 2014, 53, 8939-8962. | 1.8 | 31 |
| 72 | New findings on soybean and methylester epoxidation with alumina as the catalyst. RSC Advances, 2016, 6, 31647-31652. | 1.7 | 31 |

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| 73 | Liquidâ€“Liquidâ€“Solid Model for the Epoxidation of Soybean Oil Catalyzed by Amberlyst-16. Industrial & Engineering Chemistry Research, 2017, 56, 12963-12971. | 1.8 | 31 |
| 74 | Self-Activating Catalyst for Glucose Hydrogenation in the Aqueous Phase under Mild Conditions. ACS Catalysis, 2019, 9, 3426-3436. | 5.5 | 31 |
| 75 | 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 Î³-alumina. Applied Catalysis A: General, 1998, 170, 225-244. | 2.2 | 30 |
| 76 | Kinetics of Ethoxylation and Propoxylation of Ethylene Glycol Catalyzed by KOH. Industrial & Engineering Chemistry Research, 2002, 41, 5196-5206. | 1.8 | 30 |
| 77 | A simple device to test biodiesel process intensification. Chemical Engineering and Processing: Process Intensification, 2011, 50, 1085-1094. | 1.8 | 30 |
| 78 | Kinetic study of Amberlite IR120 catalyzed acid esterification of levulinic acid with ethanol: From batch to continuous operation. Chemical Engineering Journal, 2020, 401, 126126. | 6.6 | 30 |
| 79 | Kinetics of Ethoxylation and Propoxylation of 1- and 2-Octanol Catalyzed by KOH. Industrial & Engineering Chemistry Research, 1996, 35, 3848-3853. | 1.8 | 29 |
| 80 | Methanol steam reforming: A comparison of different kinetics in the simulation of a packed bed reactor. Chemical Engineering Journal, 2009, 154, 69-75. | 6.6 | 29 |
| 81 | Synthesis of Monoalkyl Glyceryl Ethers by Ring Opening of Glycidol with Alcohols in the Presence of Lewis Acids. ChemSusChem, 2016, 9, 3272-3275. | 3.6 | 28 |
| 82 | Intraparticle diffusion model to determine the intrinsic kinetics of ethyl levulinate synthesis promoted by Amberlyst-15. Chemical Engineering Science, 2020, 228, 115974. | 1.9 | 28 |
| 83 | Glycerol Chlorination in Gasâ€“Liquid Semibatch Reactor: An Alternative Route for Chlorohydrins Production. Industrial & Engineering Chemistry Research, 2012, 51, 8768-8776. | 1.8 | 27 |
| 84 | Enhanced performances of grafted VOx on titania/silica for the selective photocatalytic oxidation of ethanol to acetaldehyde. Catalysis Today, 2013, 209, 159-163. | 2.2 | 27 |
| 85 | 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. | 1.8 | 26 |
| 86 | Biodiesel Process Intensification by Using Static Mixers Tubular Reactors. Industrial & Engineering Chemistry Research, 2012, 51, 8777-8787. | 1.8 | 26 |
| 87 | Modeling of microreactors for ethylene epoxidation and total oxidation. Chemical Engineering Science, 2015, 134, 563-571. | 1.9 | 26 |
| 88 | A novel and robust homogeneous supported catalyst for biodiesel production. Fuel, 2016, 171, 1-4. | 3.4 | 26 |
| 89 | 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. | 1.3 | 25 |
| 90 | Kinetic and catalytic aspects in melt transesterification of dimethyl terephthalate with ethylene glycol. Journal of Applied Polymer Science, 1994, 54, 1371-1384. | 1.3 | 24 |

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| 91 | 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. | 2.7 | 24 |
| 92 | Catalytic glycerol dehydration-oxidation to acrylic acid. Catalysis Reviews - Science and Engineering, 2020, 62, 481-523. | 5.7 | 24 |
| 93 | Properties of Ethoxylated Castor Oil Acid Methyl Esters Prepared by Ethoxylation over an Alkaline Catalyst. Journal of Surfactants and Detergents, 2015, 18, 365-370. | 1.0 | 23 |
| 94 | Selective Epoxidation of Soybean Oil in the Presence of Hâ€“Y Zeolite. Industrial & Engineering Chemistry Research, 2017, 56, 7930-7936. | 1.8 | 23 |
| 95 | A Sustainable Process for the Production of Varnishes Based on Pelargonic Acid Esters. JAOCS, Journal of the American Oil Chemists' Society, 2019, 96, 443-451. | 0.8 | 23 |
| 96 | Quantification of Polyphenols and Metals in Chinese Tea Infusions by Mass Spectrometry. Foods, 2020, 9, 835. | 1.9 | 23 |
| 97 | Absorption of water/methanol binary system on ionâ€exchange resins. Canadian Journal of Chemical Engineering, 2010, 88, 1044-1053. | 0.9 | 22 |
| 98 | Homogeneous Catalysis and Heterogeneous Recycling: A Simple Zn(II) Catalyst for Green Fatty Acid Esterification. ACS Sustainable Chemistry and Engineering, 2021, 9, 6001-6011. | 3.2 | 21 |
| 99 | Epoxidation of Linseed Oil by Performic Acid Produced In Situ. Industrial & Engineering Chemistry Research, 2021, 60, 16607-16618. | 1.8 | 21 |
| 100 | Ethoxylation of fatty alcohols promoted by an aluminum alkoxide sulphate catalyst. Journal of Molecular Catalysis A, 1996, 112, 235-251. | 4.8 | 20 |
| 101 | Emerging Risks in the Biodiesel Production by Transesterification of Virgin and Renewable Oils. Energy & Fuels, 2010, 24, 6103-6109. | 2.5 | 20 |
| 102 | Shiff base complexes of zinc(II) as catalysts for biodiesel production. Journal of Molecular Catalysis A, 2012, 353-354, 106-110. | 4.8 | 20 |
| 103 | Efficient and selective conversion of glycidol to 1,2-propanediol over Pd/C catalyst. Catalysis Communications, 2016, 77, 98-102. | 1.6 | 20 |
| 104 | Further verification of adsorption dynamic intraparticle model (ADIM) for fluidâ€“solid adsorption kinetics in batch reactors. Chemical Engineering Journal, 2016, 283, 1197-1202. | 6.6 | 20 |
| 105 | Niobium Based Catalysts for Methyl Oleate Epoxidation Reaction. Topics in Catalysis, 2017, 60, 1054-1061. | 1.3 | 20 |
| 106 | An Environmentally Friendly Nbâ€“Pâ€“Si Solid Catalyst for Acid-Demanding Reactions. Journal of Physical Chemistry C, 2017, 121, 17378-17389. | 1.5 | 20 |
| 107 | Soybean Oil Epoxidation: Kinetics of the Epoxide Ring Opening Reactions. Processes, 2020, 8, 1134. | 1.3 | 20 |
| 108 | Kinetics and mechanisms of fatty alcohol polyethoxylation. 2. Narrow-range ethoxylation obtained with barium catalysts. Industrial & Engineering Chemistry Research, 1992, 31, 2419-2421. | 1.8 | 19 |

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| 109 | A New Simple Microchannel Device To Test Process Intensification. Industrial & Engineering Chemistry Research, 2011, 50, 2569-2575. | 1.8 | 19 |
| 110 | A Solâ€“Gel Rutheniumâ€“Niobiumâ€“Silicon Mixedâ€Oxide Bifunctional Catalyst for the Hydrogenation of Levulinic Acid in the Aqueous Phase. ChemCatChem, 2017, 9, 1476-1486. | 1.8 | 19 |
| 111 | Continuous Liquid-Phase Epoxidation of Ethylene with Hydrogen Peroxide on a Titanium-Silicate Catalyst. Industrial & Engineering Chemistry Research, 2021, 60, 9429-9436. | 1.8 | 19 |
| 112 | Kinetics of Fatty Acids Polyethoxylation. Industrial & Engineering Chemistry Research, 1994, 33, 509-514. | 1.8 | 18 |
| 113 | Catalysis for esterification reactions: a key step in the biodiesel production from waste oils. Rendiconti Lincei, 2017, 28, 117-123. | 1.0 | 18 |
| 114 | Kinetics and Modelling of Levulinic Acid Esterification in Batch and Continuous Reactors. Topics in Catalysis, 2018, 61, 1856-1865. | 1.3 | 18 |
| 115 | Bio-lubricants synthesis from the epoxidized oil promoted by clays: Kinetic modelling. Chemical Engineering Science, 2020, 214, 115445. | 1.9 | 18 |
| 116 | Biocomposites based on Poly(lactic acid), Cynara Cardunculus seed oil and fibrous presscake: a novel eco-friendly approach to hasten PLA biodegradation in common soil. Polymer Degradation and Stability, 2021, 188, 109576. | 2.7 | 18 |
| 117 | Kinetics of the oxidative dehydrogenation (ODH) of methanol to formaldehyde by supported vanadium-based nanocatalysts. Catalysis Today, 2007, 128, 191-200. | 2.2 | 17 |
| 118 | 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. | 6.6 | 17 |
| 119 | Catalytic oxidation of methanol to formaldehyde: an example of kinetics with transport phenomena in a packed-bed reactor. Catalysis Today, 2003, 77, 325-333. | 2.2 | 16 |
| 120 | Strategies for immobilizing homogeneous zinc catalysts in biodiesel production. Catalysis Communications, 2014, 56, 81-85. | 1.6 | 16 |
| 121 | Glycerol chlorination in a gas-liquid semibatch reactor: New catalysts for chlorohydrin production. Chinese Journal of Catalysis, 2014, 35, 663-669. | 6.9 | 16 |
| 122 | Kinetics of Soybean Oil Epoxidation in a Semibatch Reactor. Industrial & Engineering Chemistry Research, 2020, 59, 21700-21711. | 1.8 | 16 |
| 123 | Thermal stability of nonionic polyoxyalkylene surfactants. Journal of Applied Polymer Science, 1991, 42, 2053-2061. | 1.3 | 15 |
| 124 | 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. | 1.3 | 15 |
| 125 | Description of the vaporâ€“liquid equilibrium in binary refrigerant/lubricating oil systems by means of an extended Floryâ€“Huggins model. Journal of Fluorine Chemistry, 1999, 99, 29-36. | 0.9 | 15 |
| 126 | A predictive model for the diffusion of a highly non-ideal ternary system. Physical Chemistry Chemical Physics, 2018, 20, 18436-18446. | 1.3 | 15 |

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| 127 | Kinetic Modeling of Solketal Synthesis from Glycerol and Acetone Catalyzed by an Iron(III) Complex. Catalysts, 2021, 11, 83. | 1.6 | 15 |
| 128 | Oxidized glucosidic oligomers: a new class of sequestering agents â€" preparation and properties. Carbohydrate Polymers, 1994, 23, 35-46. | 5.1 | 14 |
| 129 | A Rapid Method for the Evaluation of the Dispersion of Palladium in Supported Catalysts. Journal of Catalysis, 1997, 172, 485-487. | 3.1 | 14 |
| 130 | Selective epoxidation of soybean oil with performic acid catalyzed by acidic ionic exchange resins. Green Processing and Synthesis, 2013, 2, . | 1.3 | 14 |
| 131 | Kinetics of chloroform fluorination by HF catalyzed by antimony pentachloride. Journal of Fluorine Chemistry, 1989, 44, 87-111. | 0.9 | 13 |
| 132 | Bioethanol as feedstock for chemicals such as acetaldehyde, ethyl acetate and pure hydrogen. Biomass Conversion and Biorefinery, 2013, 3, 55-67. | 2.9 | 13 |
| 133 | Role of ethylene oxide solubility in the ethoxylation processes. Catalysis Today, 1995, 24, 23-28. | 2.2 | 12 |
| 134 | Preparation, characterization and catalytic performances of highly dispersed supported TiO2/SiO2 catalysts in biodiesel production. Studies in Surface Science and Catalysis, 2006, , 299-306. | 1.5 | 12 |
| 135 | Use of a Corrugated Plates Heat Exchanger Reactor for Obtaining Biodiesel with Very High Productivity. Energy & Fuels, 2009, 23, 5206-5212. | 2.5 | 12 |
| 136 | Catalysts for the Ethoxylation of Esters. Journal of Surfactants and Detergents, 2015, 18, 913-918. | 1.0 | 12 |
| 137 | Synthesis, Surface Properties, and Selfâ€Aggregation Behavior of a Branched N,Nâ€Dimethylalkylamine Oxide Surfactant. Journal of Surfactants and Detergents, 2019, 22, 115-124. | 1.0 | 12 |
| 138 | Nonanoic acid esterification with 2-ethylhexanol: From batch to continuous operation. Chemical Engineering Journal, 2022, 444, 136572. | 6.6 | 12 |
| 139 | A general kinetic and mass transfer model to simulate the bakerâ€™s yeast growth in bioreactors. Catalysis Today, 2001, 66, 437-445. | 2.2 | 11 |
| 140 | Characterization of sustainable polyhydroxyls, produced from bio-based feedstock, and polyurethane and copolymer urethane-amide foams. Data in Brief, 2018, 21, 269-275. | 0.5 | 11 |
| 141 | Modelling of homogeneously catalyzed hemicelluloses hydrolysis in a laminar-flow reactor. Chemical Engineering Science, 2019, 195, 758-766. | 1.9 | 11 |
| 142 | Active and stable ceria-zirconia supported molybdenum oxide catalysts for cyclooctene epoxidation: Effect of the preparation procedure. Catalysis Today, 2020, 345, 201-212. | 2.2 | 11 |
| 143 | The role of metallic and acid sites of Ru-Nb-Si catalysts in the transformation of levulinic acid to Î³-valerolactone. Applied Catalysis B: Environmental, 2022, 310, 121340. | 10.8 | 11 |
| 144 | Quantitative Analysis of the Key Factors Affecting Yeast Growth. Industrial & Engineering Chemistry Research, 2003, 42, 5109-5116. | 1.8 | 10 |

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| 145 | Chromatographic reactor modelling. Chemical Engineering Journal, 2019, 377, 119692. | 6.6 | 10 |
| 146 | Kinetics of methanol homologation. Journal of Molecular Catalysis, 1990, 58, 27-42. | 1.2 | 9 |
| 147 | A critical review on analytical methods and characterization of butyl and bromobutyl rubber. International Journal of Polymer Analysis and Characterization, 2017, 22, 348-360. | 0.9 | 9 |
| 148 | Polyethoxylation and polypropoxylation reactions: Kinetics, mass transfer and industrial reactor design. Chinese Journal of Chemical Engineering, 2018, 26, 1235-1251. | 1.7 | 9 |
| 149 | Stepwise coordination isomerism of 2D networks: adsorption of diiodomethane into crystals and recognition in SCSC mode. Inorganic Chemistry Frontiers, 2021, 8, 3292-3300. | 3.0 | 9 |
| 150 | Kinetic and catalytic aspects of dimethylterephtalate transesterification also through the use of model molecules. Journal of Molecular Catalysis A, 1998, 130, 233-240. | 4.8 | 8 |
| 151 | Vapourâ€“liquid equilibrium measurements for binary mixtures of R32, R143a, R134a and R125 with a perfluoropolyether lubricant. Journal of Fluorine Chemistry, 2003, 121, 15-22. | 0.9 | 8 |
| 152 | Niobia supported on silica as a catalyst for Biodiesel production from waste oil. Catalysis for Sustainable Energy, 2015, 2, 33-42. | 0.7 | 8 |
| 153 | New Production Processes of Dichlorohydrins from Glycerol Using Acyl Chlorides as Catalysts or Reactants. Industrial & Engineering Chemistry Research, 2016, 55, 1484-1490. | 1.8 | 8 |
| 154 | Hydrophobically Modified Alkali Soluble Emulsion Polymers: Literature Review. Journal of Surfactants and Detergents, 2020, 23, 5-19. | 1.0 | 8 |
| 155 | Examples of hydrogenation in semibatch and continuous slurry reactors. Catalysis Today, 1999, 52, 363-376. | 2.2 | 7 |
| 156 | Synthesis and purification of anthraquinone in a multifunctional reactor. Catalysis Today, 2001, 66, 167-174. | 2.2 | 7 |
| 157 | Heterogeneous catalysts for the production of anthraquinone from 2-benzoylbenzoic acid. Chemical Engineering Journal, 2002, 90, 195-201. | 6.6 | 7 |
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