

Carlos O Castillo-Araiza

List of Publications by Year in Descending Order

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Version: 2024-04-28

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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.

42
papers

437
citations

12
h-index

18
g-index

52
ext. papers

569
ext. citations

6.3
avg, IF

3.81
L-index

#	Paper	IF	Citations
42	Framing a novel approach for pseudo continuous modeling using Direct Numerical Simulations (DNS): Fluid dynamics in a packed bed reactor. <i>Chemical Engineering Journal</i> , 2022 , 429, 132061	14.7	3
41	On the modelling and surface response analysis of a non-conventional wall-cooled solid/gas bioreactor with application in esterification. <i>Chemical Engineering Journal</i> , 2022 , 437, 135063	14.7	0
40	On the engineering of a laboratory LED-based photocatalytic reactor for radiative and kinetic studies. <i>Canadian Journal of Chemical Engineering</i> , 2021 , 99, 959-970	2.3	1
39	On the dynamics of the catalytic surface of a bimetallic mixed-oxide formulation during the oxidative dehydrogenation of ethane. <i>Catalysis Today</i> , 2021 ,	5.3	5
38	Kinetic Assessment of the Dry Reforming of Methane over a Ni ₃ Al ₂ O ₃ Catalyst. <i>ACS Catalysis</i> , 2021 , 11, 11478-11493	13.1	3
37	Engineering Considerations to Produce Bioactive Compounds from Plant Cell Suspension Culture in Bioreactors.. <i>Plants</i> , 2021 , 10,	4.5	10
36	Exploring the potential of graphene oxide as a functional material to produce hydrocarbons via photocatalysis: Theory meets experiment. <i>Fuel</i> , 2020 , 271, 117616	7.1	9
35	Assessing the effect of light intensity and light wavelength spectra on the photoreduction of formic acid using a graphene oxide material. <i>International Journal of Chemical Reactor Engineering</i> , 2020 , 18,	1.2	2
34	The role of kinetics and heat transfer on the performance of an industrial wall-cooled packed-bed reactor: Oxidative dehydrogenation of ethane. <i>AIChE Journal</i> , 2020 , 66, e16900	3.6	7
33	Solid/gas biocatalysis for aroma production: An alternative process of white biotechnology. <i>Biochemical Engineering Journal</i> , 2020 , 164, 107767	4.2	3
32	Degradation of Rhodamine B in water alone or as part of a mixture by advanced oxidation processes. <i>Chemical Engineering Communications</i> , 2020 , 1-14	2.2	0
31	Assessment of hydrodynamics in a novel bench-scale wall-cooled packed bioreactor under abiotic conditions. <i>Chemical Engineering Journal</i> , 2019 , 375, 121945	14.7	4
30	Whole-Cell Bioconversion of Citrus Flavonoids to Enhance Their Biological Properties. <i>Studies in Natural Products Chemistry</i> , 2019 , 61, 335-367	1.5	5
29	Revisiting Electrochemical Techniques to Characterize the Solid-State Diffusion Mechanism in Lithium-Ion Batteries. <i>International Journal of Chemical Reactor Engineering</i> , 2019 , 17,	1.2	7
28	Kinetic and reactor performance of a Ni-based catalyst during the production of ethene. <i>Chemical Engineering Communications</i> , 2018 , 205, 372-386	2.2	4
27	Kinetic Assessment of the Simultaneous Hydrodesulfurization of Dibenzothiophene and the Hydrogenation of Diverse Polyaromatic Structures. <i>ACS Catalysis</i> , 2018 , 8, 3926-3942	13.1	27
26	A simple approach to describe hydrodynamics and its effect on heat and mass transport in an industrial wall-cooled fixed bed catalytic reactor: ODH of ethane on a MoVNbTeO formulation. <i>Chemical Engineering Journal</i> , 2017 , 321, 584-599	14.7	19

25	Degradation and Mineralization of a Cationic Dye by a Sequential Photo-Sono Catalytic Process. <i>International Journal of Chemical Reactor Engineering</i> , 2017 , 15,	1.2	1
24	On the conceptual design of a partitioning technology for the bioconversion of (+)-valencene to (+)-nootkatone on whole cells: Experimentation and modelling. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 122, 493-507	3.7	10
23	Cadmium(II), Lead(II), and Copper(II) Biosorption on Baker's Yeast (<i>Saccharomyces cerevesiae</i>). <i>Journal of Environmental Engineering, ASCE</i> , 2016 , 142,	2	13
22	Kinetic, oxygen mass transfer and hydrodynamic studies in a three-phase stirred tank bioreactor for the bioconversion of (+)-valencene on <i>Yarrowia lipolytica</i> 2.2ab. <i>Biochemical Engineering Journal</i> , 2016 , 113, 37-46	4.2	11
21	Whole cell bioconversion of (+)-valencene to (+)-nootkatone by <i>Yarrowia lipolytica</i> using a three phase partitioning bioreactor. <i>Journal of Chemical Technology and Biotechnology</i> , 2016 , 91, 1164-1172	3.5	16
20	Prediction of Thermodynamic Consistency of Vapour-liquid Equilibrium of a Two-Phase System in the Presence of the Salting-in and Salting-out Effects. <i>Indian Chemical Engineer</i> , 2016 , 58, 106-117	1	
19	Hydrodesulfurization of Dibenzothiophene in a Micro Trickle Bed Catalytic Reactor under Operating Conditions from Reactive Distillation. <i>International Journal of Chemical Reactor Engineering</i> , 2016 , 14, 769-783	1.2	4
18	One-Pot Isomerization of n-Alkanes by Super Acidic Solids: Sulfated Aluminum-Zirconium Binary Oxides. <i>International Journal of Chemical Reactor Engineering</i> , 2016 , 14, 795-807	1.2	3
17	Elucidating Kinetic, Adsorption and Partitioning Phenomena from a Single Well Tracer Method: Laboratory and Bench Scale Studies. <i>International Journal of Chemical Reactor Engineering</i> , 2016 , 14, 1149-1168	1.2	3
16	Role of PtPd/Al ₂ O ₃ on the HDS of 4,6-DMBT: Kinetic modeling & contribution analysis. <i>Fuel Processing Technology</i> , 2015 , 132, 164-172	7.2	15
15	Modeling of oxidative dehydrogenation of ethane to ethylene on a MoVTenbO/TiO ₂ catalyst in an industrial-scale packed bed catalytic reactor. <i>Chemical Engineering Journal</i> , 2015 , 280, 682-694	14.7	37
14	Evaluation of ionic liquids as dispersed phase during the production of lactones with <i>E. coli</i> in a three phase partitioning bioreactor. <i>Chemical Engineering Journal</i> , 2015 , 279, 379-386	14.7	11
13	Effect of diffusion on the conceptual design of a fixed-bed adsorber. <i>Fuel</i> , 2015 , 149, 100-108	7.1	13
12	Mathematical model of a three phase partitioning bioreactor for conversion of ketones using whole cells. <i>Chemical Engineering Journal</i> , 2015 , 260, 765-775	14.7	16
11	On the ultrasonic degradation of Rhodamine B in water: kinetics and operational conditions effect. <i>Environmental Technology (United Kingdom)</i> , 2014 , 35, 1183-9	2.6	10
10	Kinetic modeling of the oxidative dehydrogenation of ethane to ethylene over a MoVTenbO catalytic system. <i>Chemical Engineering Journal</i> , 2014 , 252, 75-88	14.7	48
9	STUDY OF THE AGGLOMERATION MECHANISM OF A NATURAL ORGANIC SOLID IN A BENCH-SCALE WET FLUIDIZED BED USING STATISTICAL ANALYSIS AND DISCRETIZED POPULATION BALANCE. <i>Chemical Engineering Communications</i> , 2014 , 201, 23-40	2.2	4
8	Kinetics of HDS and of the inhibitory effect of quinoline on HDS of 4,6-DMDBT over a NiMoB/Al ₂ O ₃ catalyst: Part I. <i>Chemical Engineering Journal</i> , 2012 , 210, 53-62	14.7	32

7	Mass transfer coefficient determination in three biphasic systems (water/ionic liquid) using a modified Lewis cell. <i>Chemical Engineering Journal</i> , 2012 , 181-182, 702-707	14.7	8
6	The role of catalyst activity on the steady state and transient behavior of an industrial-scale fixed bed catalytic reactor for the partial oxidation of o-xylene on V ₂ O ₅ /TiO ₂ catalysts. <i>Chemical Engineering Journal</i> , 2011 , 176-177, 26-32	14.7	11
5	Modeling the Partial Oxidation of o-Xylene in an Industrial Packed-Bed Catalytic Reactor: The Role of Hydrodynamics and Catalyst Activity in the Heat Transport. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 6845-6853	3.9	21
4	Hydrodynamic Models for Packed Beds with Low Tube-to-Particle Diameter Ratio. <i>International Journal of Chemical Reactor Engineering</i> , 2008 , 6,	1.2	8
3	Zinc-aluminates for an in situ sulfur reduction in cracked gasoline. <i>Applied Catalysis B: Environmental</i> , 2008 , 81, 1-13	21.8	11
2	Heat-Transfer Studies in Packed-Bed Catalytic Reactors of Low Tube/Particle Diameter Ratio. <i>Industrial & Engineering Chemistry Research</i> , 2007 , 46, 7426-7435	3.9	19
1	Unravelling the redox mechanism and kinetics of a highly active and selective Ni-based material for the oxidative dehydrogenation of ethane. <i>Reaction Chemistry and Engineering</i> ,	4.9	3