

# Valeria Casson Moreno

## List of Publications by Year in descending order

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Version: 2024-02-01

39  
papers

908  
citations

430442

18  
h-index

476904

29  
g-index

40  
all docs

40  
docs citations

40  
times ranked

568  
citing authors

#	ARTICLE	IF	CITATIONS
1	Production of levulinic acid and alkyl levulinates: a process insight. <i>Green Chemistry</i> , 2022, 24, 614-646.	4.6	84
2	Major accident hazard in bioenergy production. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 35, 135-144.	1.7	60
3	Analysis of accidents in biogas production and upgrading. <i>Renewable Energy</i> , 2016, 96, 1127-1134.	4.3	58
4	Analysis of physical and cyber security-related events in the chemical and process industry. <i>Chemical Engineering Research and Design</i> , 2018, 116, 621-631.	2.7	54
5	Comparison of criteria for prediction of runaway reactions in the sulphuric acid catalyzed esterification of acetic anhydride and methanol. <i>Journal of Loss Prevention in the Process Industries</i> , 2012, 25, 209-217.	1.7	52
6	Thermal risk in semi-batch reactors: The epoxidation of soybean oil. <i>Chemical Engineering Research and Design</i> , 2017, 109, 529-537.	2.7	47
7	A comprehensive analysis of the occurrence of Natech events in the process industry. <i>Chemical Engineering Research and Design</i> , 2021, 147, 703-713.	2.7	44
8	Lessons learnt from the impact of hurricane Harvey on the chemical and process industry. <i>Reliability Engineering and System Safety</i> , 2019, 190, 106521.	5.1	42
9	Techno-economic and environmental sustainability of biomass waste conversion based on thermocatalytic reforming. <i>Waste Management</i> , 2020, 101, 106-115.	3.7	34
10	Application of the concept of Linear Free Energy Relationships to the hydrogenation of levulinic acid and its corresponding esters. <i>Chemical Engineering Journal</i> , 2019, 374, 822-831.	6.6	31
11	Experimental sensitivity analysis of the runaway severity of Dicumyl peroxide decomposition using adiabatic calorimetry. <i>Thermochimica Acta</i> , 2015, 617, 28-37.	1.2	28
12	Identification of critical safety barriers in biogas facilities. <i>Reliability Engineering and System Safety</i> , 2018, 169, 81-94.	5.1	28
13	Kinetic model assessment for the synthesis of $\hat{\text{I}}^3$ -valerolactone from n-butyl levulinate and levulinic acid hydrogenation over the synergy effect of dual catalysts Ru/C and Amberlite IR-120. <i>Chemical Engineering Journal</i> , 2022, 430, 133053.	6.6	28
14	Runaway decomposition of dicumyl peroxide by open cell adiabatic testing at different initial conditions. <i>Chemical Engineering Research and Design</i> , 2016, 102, 251-262.	2.7	23
15	Thermal Risk Assessment of Levulinic Acid Hydrogenation to $\hat{\text{I}}^3$ -Valerolactone. <i>Organic Process Research and Development</i> , 2018, 22, 1092-1100.	1.3	21
16	Screening Analysis for Hazard Assessment of Peroxides Decomposition. <i>Industrial &amp; Engineering Chemistry Research</i> , 2012, 51, 7526-7535.	1.8	20
17	Assessment of inherently safer alternatives in biogas production and upgrading. <i>AIChE Journal</i> , 2016, 62, 2713-2727.	1.8	20
18	Solvent effect on the kinetics of the hydrogenation of n-butyl levulinate to $\hat{\text{I}}^3$ -valerolactone. <i>Chemical Engineering Science</i> , 2021, 231, 116315.	1.9	20

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19	Towards green transition of touristic islands through hybrid renewable energy systems. A case study in Tenerife, Canary Islands. <i>Renewable Energy</i> , 2021, 174, 426-443.	4.3	20
20	Investigation of an accident in a resins manufacturing site: The role of accelerator on polymerisation of methyl methacrylate. <i>Journal of Hazardous Materials</i> , 2014, 270, 45-52.	6.5	19
21	Bayesian Statistics to Elucidate the Kinetics of $\hat{1}^3$ -Valerolactone from <i>n</i> -Butyl Levulinate Hydrogenation over Ru/C. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 11725-11736.	1.8	18
22	Analysis of events involving the intentional release of hazardous substances from industrial facilities. <i>Reliability Engineering and System Safety</i> , 2021, 212, 107593.	5.1	18
23	A consequences-based approach for the selection of relevant accident scenarios in emerging technologies. <i>Safety Science</i> , 2019, 112, 142-151.	2.6	16
24	Major accident hazard in biodiesel production processes. <i>Safety Science</i> , 2019, 113, 490-503.	2.6	15
25	Multi-criteria sustainability assessment of potential methanol production processes. <i>Journal of Cleaner Production</i> , 2021, 293, 126226.	4.6	15
26	Enhancing the sustainability of biodiesel fuels by inherently safer production processes. <i>Journal of Cleaner Production</i> , 2022, 344, 131075.	4.6	13
27	Vulnerability assessment of process pipelines affected by flood events. <i>Reliability Engineering and System Safety</i> , 2022, 219, 108261.	5.1	12
28	Role of solvent in enhancing the production of butyl levulinate from fructose. <i>Fuel</i> , 2022, 318, 123703.	3.4	12
29	Climate change and NaTech events: A step towards local-scale awareness and preparedness. <i>Safety Science</i> , 2021, 139, 105264.	2.6	11
30	Integrated hazard identification within the risk management of industrial biological processes. <i>Safety Science</i> , 2018, 103, 340-351.	2.6	10
31	Integration of Recursive Operability Analysis, FMECA and FTA for the Quantitative Risk Assessment in biogas plants: Role of procedural errors and components failures. <i>Journal of Loss Prevention in the Process Industries</i> , 2021, 71, 104468.	1.7	10
32	Modeling of the venting of an untempered system under runaway conditions. <i>Journal of Loss Prevention in the Process Industries</i> , 2015, 36, 171-182.	1.7	8
33	Modeling and process optimization of a full-scale emulsion polymerization reactor. <i>Chemical Engineering Journal</i> , 2019, 358, 1410-1420.	6.6	8
34	Risk Analysis in Transport and Storage of Monomers: An Accident Investigation. <i>Macromolecular Symposia</i> , 2011, 302, 273-279.	0.4	5
35	A Simplified Model to Describe the Effect of Alkyl Anilines on the Polymerization of Methyl Methacrylate. <i>Macromolecular Symposia</i> , 2016, 370, 26-40.	0.4	1
36	Hazard Identification in Process Technology. , 2017, , .		1

#	ARTICLE	IF	CITATIONS
37	Unit Operation and Storage Safety. , 2017, , .		0
38	Model Discrimination for Hydrogen Peroxide Consumption towards $\hat{\gamma}$ -Alumina in Homogeneous Liquid and Heterogeneous Liquid-Liquid Systems. Processes, 2021, 9, 1476.	1.3	0
39	Analysis of Security-Related Events in the Chemical and Process Industry. , 2020, , .		0