Miryan C Cassanello

List of Publications by Year
in descending order

65 papers	1,154 citations	430843 18 h-index	434170 31 g-index
66 all docs	66 docs citations	66 times ranked	1005 citing authors

#	Article	IF	Citations
1	Validation of CFD-DEM simulation of a liquid–solid fluidized bed by dynamic analysis of time series. Particuology, 2022, 68, 75-87.	3.6	5
2	A Cleaner Delignification of Urban Leaf Waste Biomass for Bioethanol Production, Optimised by Experimental Design. Processes, 2022, 10, 943.	2.8	11
3	Study on the aggregate motion for gas–liquid–solid agitated tank reactors design using radioactive particle tracking. Measurement Science and Technology, 2022, 33, 094004.	2.6	2
4	Industrially relevant Radioactive Particle Tracking study on the motion of adsorbent granules suspended in a pilot-scale water–air three-phase fluidized bed. Chemical Engineering Research and Design, 2021, 173, 305-316.	5.6	6
5	Comparison of the Fluidized State Stability from Radioactive Particle Tracking Results. ChemEngineering, 2021, 5, 65.	2.4	1
6	Hybrid model for fault detection and diagnosis in an industrial distillation column. Chemical Product and Process Modeling, 2021, 16, 169-180.	0.9	4
7	Continuous Heterogeneous Fenton-Type Process for Dye Pollution Abatement Intensified by Hydrodynamic Cavitation. Industrial & Engineering Chemistry Research, 2021, 60, 16653-16664.	3.7	3
8	Modeling of Limestone Dissolution for Flue Gas Desulfurization with Novel Implications. Energies, 2020, 13, 6164.	3.1	3
9	Simulation and optimization of a lamella settler for cattle feedlot wastewater treatment and nutrients recovery. Experimental validation in the field. Heliyon, 2020, 6, e05840.	3.2	5
10	Mixing and regime transition analysis of liquid-solid conical fluidized bed through RPT technique. Chemical Engineering Science, 2019, 207, 702-712.	3.8	11
11	Clean Catalytic Oxidation for Derivatization of Key Biobased Platform Chemicals: Ethanol, Glycerol, and Hydroxymethyl Furfural. Industrial & Engineering Chemistry Research, 2019, 58, 16077-16095.	3.7	27
12	Hierarchically structured TiO_2-based composites for Fenton-type oxidation processes. Journal of Environmental Management, 2019, 236, 591-602.	7.8	7
13	Time series analysis of a binary gas-solid conical fluidized bed using radioactive particle tracking (RPT) technique data. Chemical Engineering Journal, 2019, 377, 119807.	12.7	26
14	CFD-DEM modeling of solid motion in a water-calcium alginate fluidized column and its comparison with results from radioactive particle tracking. Chemical Engineering Journal, 2019, 377, 120339.	12.7	9
15	Solid motion in a three-phase bubble column examined with Radioactive Particle Tracking. Flow Measurement and Instrumentation, 2018, 62, 196-204.	2.0	9
16	Features of the motion of gel particles in a three-phase bubble column under foaming and non-foaming conditions. Chinese Journal of Chemical Engineering, 2018, 26, 1370-1382.	3.5	5
17	Calcium alginate beads motion in a foaming three-phase bubble column. Chemical Engineering Journal, 2017, 324, 358-369.	12.7	6
18	"Soluble" vs. "insoluble" Prussian blue based catalysts: influence on Fenton-type treatment. RSC Advances, 2016, 6, 46625-46633.	3.6	15

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19	Bed Expansion and Particle Classification inÂLiquid Fluidized Beds with Structured Internals. Chemical Engineering and Technology, 2015, 38, 423-430.	1.5	3
20	Enhancement of a solar photo-Fenton reaction by using ferrioxalate complexes for the treatment of a synthetic cotton-textile dyeing wastewater. Chemical Engineering Journal, 2015, 277, 86-96.	12.7	103
21	Efficient removal of Orange G using Prussian Blue nanoparticles supported over alumina. Catalysis Today, 2015, 240, 67-72.	4.4	34
22	Automatic qualitative trend simulation method for diagnosing faults in industrial processes. Computers and Chemical Engineering, 2014, 64, 55-62.	3.8	7
23	Discrete axial motion of a radioactive tracer reconstructed from the response of axially aligned detectors: Application to the analysis of a bubble column dynamics. Chemical Engineering Science, 2013, 100, 402-412.	3.8	13
24	Mineralization and efficiency in the homogeneous Fenton Orange G oxidation. Applied Catalysis B: Environmental, 2013, 142-143, 214-221.	20.2	27
25	Bubble columns dynamics inferred from the motion of a radioactive tracer followed by axially aligned detectors. Chemical Engineering Journal, 2012, 207-208, 450-461.	12.7	12
26	Yield Optimization in a Cycled Trickleâ€Bed Reactor: Ethanol Catalytic Oxidation as a Case Study. Chemical Engineering and Technology, 2012, 35, 899-903.	1.5	8
27	A robust clustering method for detection of abnormal situations in a process with multiple steady-state operation modes. Computers and Chemical Engineering, 2010, 34, 223-231.	3.8	20
28	Kernel PCA Performance in Processes with Multiple Operation Modes. Chemical Product and Process Modeling, 2009, 4, .	0.9	12
29	Towards a comprehensive model for liquid flow modulation in trickle bed reactors. Chemical Engineering Journal, 2009, 154, 162-167.	12.7	2
30	Flow Regime Diagnosis in Bubble Columns via Pressure Fluctuations and Computer-Assisted Radioactive Particle Tracking Measurements. Industrial & Engineering Chemistry Research, 2009, 48, 1072-1080.	3.7	14
31	Influence of temperature on fast-mode cyclic operation hydrodynamics in trickle-bed reactors. Chemical Engineering Science, 2008, 63, 141-152.	3.8	5
32	Trickle bed reactors: Effect of liquid flow modulation on catalytic activity. Chemical Engineering Science, 2008, 63, 4969-4973.	3.8	16
33	Performance of Statistical Process Control Tools under Different Plant Operation Strategies. Chemical Product and Process Modeling, 2008, 3, .	0.9	0
34	Flow regime transition in a trickle bed with structured packing examined with conductimetric probes. Chemical Engineering Science, 2007, 62, 1494-1503.	3.8	3
35	Classifying flow regimes in three-phase fluidized beds from CARPT experiments. Chemical Engineering Science, 2007, 62, 7523-7529.	3.8	28
36	Dynamical features of the solid motion in gasâ€"solid risers. International Journal of Multiphase Flow, 2007, 33, 164-181.	3.4	19

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37	Modulation of liquid holdup along a trickle bed reactor with periodic operation. Chemical Engineering Science, 2007, 62, 6002-6014.	3.8	17
38	Detection and Discrimination of Phenol and Primary Alcohols in Water Using Electronic Noses. Environmental Science & Technology, 2006, 40, 6058-6063.	10.0	13
39	Flow regime transition pointers in three-phase fluidized beds inferred from a solid tracer trajectory. Chemical Engineering and Processing: Process Intensification, 2006, 45, 350-358.	3.6	17
40	Phenomenological approach to interpret the effect of liquid flow modulation in trickle bed reactors at the particle scale. Chemical Engineering Science, 2005, 60, 6262-6269.	3.8	13
41	Liquid holdup in columns packed with structured packings: Countercurrent vs. cocurrent operation. Chemical Engineering Science, 2005, 60, 6226-6234.	3.8	13
42	Clean Oxidation of Alcohols in a Trickle-Bed Reactor with Liquid Flow Modulation. Industrial & Engineering Chemistry Research, 2005, 44, 5275-5284.	3.7	19
43	Periodic Operation of Trickle Bed Reactors:Â An Approach To Catalyst Design through Modeling at the Particle Scale. Industrial & Engineering Chemistry Research, 2005, 44, 9594-9600.	3.7	7
44	Flow Regime Transitions in Trickleâ€bed Reactors with Structured Packings. Canadian Journal of Chemical Engineering, 2003, 81, 802-807.	1.7	3
45	CO_2 gasification of Argentinean coal chars: a kinetic characterization. Fuel Processing Technology, 2001, 74, 161-176.	7.2	164
46	Ethanol oxidation in a trickle-bed reactor using a hydrophobic catalystEffect of dilution with hydrophilic particles. Catalysis Today, 2001, 64, 347-352.	4.4	5
47	Inferring liquid chaotic dynamics in bubble columns using CARPT. Chemical Engineering Science, 2001, 56, 6125-6134.	3.8	33
48	Liquid back-mixing in packed-bubble column reactors: a state-of-the-art correlation. Catalysis Today, 2001, 64, 321-332.	4.4	13
49	Solids dynamics from experimental trajectory time-series of a single particle motion in gas-spouted beds. Chemical Engineering Science, 1999, 54, 2545-2554.	3.8	26
50	Effect of the catalyst wettability on the performance of a trickle-bed reactor for ethanol oxidation as a case study. Chemical Engineering Science, 1999, 54, 4811-4816.	3.8	18
51	Liquid hold-up and backmixing in cocurrent upflow three-phase fixed-bed reactors. Chemical Engineering Science, 1998, 53, 1015-1025.	3.8	14
52	Gasâˆ’Liquid Interfacial Mass Transfer in Trickle-Bed Reactors at Elevated Pressures. Industrial & Engineering Chemistry Research, 1998, 37, 718-733.	3.7	54
53	Flow Structure of the Solids in a Three-Dimensional Liquid Fluidized Bed. Industrial & Engineering Chemistry Research, 1997, 36, 4695-4704.	3.7	19
54	Gasâ€"liquid interfacial areas in three-phase fixed bed reactors. Chemical Engineering and Processing: Process Intensification, 1997, 36, 497-504.	3.6	18

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55	Flow regime transition in trickle beds packed with particles of different wetting characteristicsâ€"check-up on new tools. Chemical Engineering Science, 1997, 52, 3747-3755.	3.8	17
56	Gas-liquid mass transfer in high pressure trickle-bed reactors: Experiments and modelling. Process Technol, 1996, 12, 493-498.	0.1	4
57	Flow structure of the solids in a 3-D gasâ€"liquidâ€"solid fluidized bed. AICHE Journal, 1996, 42, 2439-2452.	3.6	49
58	On dynamic liquid holdup determination by the drainage method. Chemical Engineering Science, 1996, 51, 3721-3726.	3.8	16
59	Solids mixing in gas-liquid-solid fluidized beds: Experiments and modelling. Chemical Engineering Science, 1996, 51, 2011-2020.	3.8	29
60	General criteria to analyze the role of mass transfer and hydrodynamics in trickle-bed reactors. Chemical Engineering and Technology, 1996, 19, 410-419.	1.5	4
61	Experimental Characterization of the Solid Phase Chaotic Dynamics in Three-Phase Fluidization. Industrial & Engineering Chemistry Research, 1995, 34, 2971-2980.	3.7	54
62	Effect of the liquid axial dispersion on the behavior of fixed bed three phase reactors. Chemical Engineering Science, 1992, 47, 3331-3338.	3.8	29
63	Prussian Blue onto Activated Carbon as a Catalyst for Heterogeneous Fenton-Like Processes. International Journal of Chemical Engineering and Applications (IJCEA), 0, , 295-300.	0.3	1
64	Static mixer continuous chemical coagulation-flocculation for cattle feedlot wastewater treatment. , 0, 189, 98-107.		3
65	Self-organizing maps for efficient classification of flow regimes from gamma densitometry time series in three-phase fluidized beds. Measurement Science and Technology, 0, , .	2.6	1