Erasmo Mancusi

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Modelling of an integrated process for atmospheric carbon dioxide capture and methanation. Journal of Cleaner Production, 2022, 356, 131827.	4.6	18
2	Modelling of a concentrated solar power – photovoltaics hybrid plant for carbon dioxide capture and utilization via calcium looping and methanation. Energy Conversion and Management, 2021, 230, 113792.	4.4	32
3	Technoeconomic Analysis of a Fixed Bed System for Single/Two–Stage Chemical Looping Combustion. Energy Technology, 2021, 9, 2100538.	1.8	3
4	Integration of biomasses gasification and renewable-energies-driven water electrolysis for methane production. Energy, 2021, 230, 120863.	4.5	22
5	Feasibility of an integrated biomass-based CLC combustion and a renewable-energy-based methanol production systems. Renewable Energy, 2021, 179, 29-36.	4.3	14
6	CO2 methanation: Reactor modelling and parametric analysis. Computer Aided Chemical Engineering, 2021, , 585-590.	0.3	1
7	A Two Carriers Reactor Configuration for Packed Bed Chemical-Looping for Power Generation. Computer Aided Chemical Engineering, 2020, , 37-42.	0.3	0
8	A two carriers reactor configuration for chemical-looping combustion in a packed-bed. International Journal of Greenhouse Gas Control, 2020, 99, 103099.	2.3	3
9	Life cycle assessment and feasibility analysis of a combined chemical looping combustion and power-to-methane system for CO2 capture and utilization. Renewable and Sustainable Energy Reviews, 2020, 130, 109962.	8.2	39
10	Modelling of a combined biomass CLC combustion and renewable-energy-based methane production system for CO2 utilization. Powder Technology, 2020, 373, 421-432.	2.1	8
11	Biogas purification on Na-X Zeolite: Experimental and numerical results. Chemical Engineering Science, 2020, 223, 115744.	1.9	12
12	Feasibility analysis of a combined chemical looping combustion and renewable-energy-based methane production system for CO2 capture and utilization. Thermal Science, 2020, 24, 3613-3624.	0.5	2
13	Biopolymer-hydrophobic drug fibers and the delivery mechanisms for sustained release applications. European Polymer Journal, 2019, 112, 400-410.	2.6	11
14	Stability analysis of stratified Rayleigh-Bénard-Poiseuille convection. Part III: Interface deformation. Chemical Engineering Science, 2019, 203, 333-345.	1.9	4
15	Feasibility of CaO/CuO/NiO sorption-enhanced steam methane reforming integrated with solid-oxide fuel cell for near-zero-CO2 emissions cogeneration system. Applied Energy, 2018, 230, 241-256.	5.1	24
16	Techno-Economic Evaluation of a Small-Scale Power Generation Unit Based on a Chemical Looping Combustion Process in Fixed Bed Reactor Network. Industrial & Engineering Chemistry Research, 2018, 57, 11299-11311.	1.8	15
17	Packed bed sorption enhanced methane reforming on CaO/CuO/Al2O3(NiO) catalyst. Computer Aided Chemical Engineering, 2018, 43, 1389-1394.	0.3	1
18	Numerical simulation of hydrogen production by chemical looping reforming in a dual fluidized bed reactor. Powder Technology, 2017, 316, 614-627.	2.1	12

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19	Techno-economic analysis of sorption-enhanced steam methane reforming in a fixed bed reactor network integrated with fuel cell. Journal of Power Sources, 2017, 364, 41-51.	4.0	49
20	Novel quasi-autothermal hydrogen production process in a fixed-bed using a chemical looping approach: A numerical study. International Journal of Hydrogen Energy, 2017, 42, 15010-15023.	3.8	16
21	Numerical assessment of the effects of carbon deposition and oxidation on chemical looping combustion in a packed-bed reactor. Chemical Engineering Science, 2017, 160, 85-95.	1.9	18
22	LINEAR STABILITY ANALYSIS AND CFD SIMULATION OF DOUBLE-LAYER RAYLEIGH-BÉNARD CONVECTION. Brazilian Journal of Chemical Engineering, 2016, 33, 607-616.	0.7	4
23	Chemical Looping Reforming: Impact on the Performances Due to Carbon Fouling on Catalyst. Computer Aided Chemical Engineering, 2016, 38, 229-234.	0.3	3
24	Stability analysis of stratified Rayleigh–Bénard–Poiseuille convection. Part II: Influence of thermocapillary forces. Chemical Engineering Science, 2016, 155, 99-110.	1.9	5
25	Simulation of hydrogen production through chemical looping reforming process in a packed-bed reactor. Chemical Engineering Research and Design, 2016, 105, 137-151.	2.7	35
26	Mathematical modeling and numerical simulation of heat and moisture transfer in a porous textile medium. Journal of the Textile Institute, 2016, 107, 672-682.	1.0	17
27	CFD Simulation of Twoâ€Phase Flow Patterns in the Gas Channel of a Proton Exchange Membrane Fuel Cell. Chemical Engineering and Technology, 2015, 38, 1229-1234.	0.9	1
28	Stability analysis of stratified Rayleigh–Bénard–Poiseuille convection: Influence of the shear flow. Chemical Engineering Science, 2015, 126, 67-79.	1.9	7
29	Mapping resonance regions in loop networks with spatio-temporal symmetry. AIP Conference Proceedings, 2015, , .	0.3	0
30	Hysteresis in autothermal methane reforming over Rh catalysts: Bifurcation analysis. Chemical Engineering Journal, 2015, 262, 1052-1064.	6.6	8
31	Numerical study of two-phase flow patterns in the gas channel of PEM fuel cells with tapered flow field design. International Journal of Hydrogen Energy, 2014, 39, 2261-2273.	3.8	85
32	Control of temperature wave trains in periodically forced networks of catalytic reactors for methanol synthesis. Chemical Engineering and Processing: Process Intensification, 2013, 63, 25-36.	1.8	7
33	Flow regimes for liquid water transport in a tapered flow channel of proton exchange membrane fuel cells (PEMFCs). Journal of Power Sources, 2013, 234, 260-271.	4.0	44
34	Nonlinear Analysis of Substrate-Inhibited Continuous Cultures Operated with Feedback Control on Dissolved Oxygen. Industrial & Engineering Chemistry Research, 2013, 52, 13422-13431.	1.8	5
35	Control of Rotating Wave Trains in a Loop Reactor. Industrial & Engineering Chemistry Research, 2013, 52, 12134-12145.	1.8	3

36 Devil's staircases in loop networks with symmetry locking. , 2013, , .

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37	Formation of Thermal Wave Trains in Loop Reactors: Stability Limits and Spatiotemporal Structure for Reversible Reactions. Industrial & Engineering Chemistry Research, 2012, 51, 9609-9619.	1.8	6
38	Temperature wave trains of the loop reactor: The effect of thermal dispersion. Chemical Engineering Science, 2012, 76, 108-119.	1.9	4
39	Parallel tools for the bifurcation analysis of large-scale chemically reactive dynamical systems. Computers and Chemical Engineering, 2012, 38, 94-105.	2.0	2
40	Temperature waveâ€ŧrains of periodically forced networks of catalytic reactors. AICHE Journal, 2012, 58, 899-913.	1.8	9
41	Multiplicities of temperature wave trains in periodically forced networks of catalytic reactors for reversible exothermic reactions. Chemical Engineering Journal, 2011, 171, 655-668.	6.6	17
42	Study of the effects of flow channel with non-uniform cross-sectional area on PEMFC species and heat transfer. International Journal of Heat and Mass Transfer, 2011, 54, 4462-4472.	2.5	52
43	Nonlinear behavior analysis of a rotor on two-lobe wave journal bearings. Tribology International, 2011, 44, 42-54.	3.0	9
44	Temperature and conversion patterns in a network of catalytic reactors for methanol synthesis with different switch strategies. Chemical Engineering Science, 2010, 65, 4579-4590.	1.9	13
45	Effect of the switch strategy on the performance and stability of reactor networks for methanol synthesis. Computer Aided Chemical Engineering, 2010, , 13-18.	0.3	0
46	A nonlinear approach to the design of gain-scheduled controllers. Computer Aided Chemical Engineering, 2010, 28, 595-600.	0.3	1
47	TAILORING THE BIFURCATION DIAGRAM OF NONLINEAR DYNAMICAL SYSTEMS: AN OPTIMIZATION BASED APPROACH. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 1027-1040.	0.7	3
48	COMPLEX DYNAMICS AND CHAOS IN A HYBRID SYSTEM MODELING A CONTROLLED REVERSE FLOW REACTOR. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2010, 20, 2097-2108.	0.7	1
49	Numerical Analysis of a Periodically Forced Dyeing Process. Industrial & Engineering Chemistry Research, 2010, 49, 8568-8574.	1.8	3
50	Optimal Reference Trajectory Shaping and Robust Gain-Scheduling for Transition Control of Nonlinear Processes. Industrial & Engineering Chemistry Research, 2009, 48, 9128-9140.	1.8	3
51	Optimal bifurcation tailoring based transition control of reactor separation recycle systems. Computer Aided Chemical Engineering, 2009, 26, 285-290.	0.3	1
52	Effect of the Switch Strategy on the Stability of Reactor Networks. Industrial & Engineering Chemistry Research, 2007, 46, 6510-6521.	1.8	15
53	Hybrid modeling and dynamics of a controlled reverse flow reactor. AICHE Journal, 2007, 53, 2084-2096.	1.8	13
54	Bifurcation analysis of a periodically forced pair of tubular catalytic combustors. Combustion Theory and Modelling, 2006, 10, 1023-1035.	1.0	2

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55	Network of three catalytic reactors with periodical feed switching for methanol synthesis: bifurcation analysis. Computer Aided Chemical Engineering, 2006, 21, 197-202.	0.3	1
56	Control of thermal runaway via optimal bifurcation tailoring aided gain-scheduling feedback. Computer Aided Chemical Engineering, 2006, 21, 1311-1316.	0.3	0
57	Complex dynamics and spatio-temporal patterns in a network of three distributed chemical reactors with periodical feed switching. Chaos, Solitons and Fractals, 2006, 28, 682-706.	2.5	26
58	Nonlinear dynamics of a VOC combustion loop reactor. AICHE Journal, 2006, 52, 2812-2822.	1.8	22
59	NONLINEAR DYNAMICS OF A CONTROLLED REVERSE FLOW REACTOR. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 501-506.	0.4	0
60	NONLINEAR ANALYSIS OF A NETWORK OF THREE CONTINUOUS STIRRED TANK REACTORS WITH PERIODIC FEED SWITCHING: SYMMETRY AND SYMMETRY-BREAKING. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2004, 14, 1325-1341.	0.7	12
61	Computation of frequency locking regions for a discontinuous periodically forced reactor. Computers and Chemical Engineering, 2004, 28, 187-194.	2.0	9
62	Frequency locking in a discontinuous periodically forced reactor. Computer Aided Chemical Engineering, 2002, , 403-408.	0.3	0
63	Non linear dynamics of a network of reactors with periodical feed switching. Computer Aided Chemical Engineering, 2002, 10, 535-540.	0.3	0
64	Symmetry properties and bifurcation analysis of a class of periodically forced chemical reactors. Chemical Engineering Science, 2002, 57, 5065-5082.	1.9	31
65	Bifurcation analysis of periodically forced systems via continuation of a discrete map. Computer Aided Chemical Engineering, 2001, 9, 135-140.	0.3	4
66	Nonlinear analysis of an industrial ammonia reactor with heterogeneous model. Computer Aided Chemical Engineering, 2001, 9, 225-230.	0.3	2
67	Multistability and hysteresis in an industrial ammonia reactor. AICHE Journal, 2000, 46, 824-828.	1.8	28
68	LINEAR STABILITY ANALYSIS AND DIRECT NUMERICAL SIMUALATION OF DOUBLE-LAYER RAYLEIGH-BÉNARD CONVECTION. , 0, , .		0