

# Lucia Russo

## List of Publications by Citations

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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.

30  
papers

915  
citations

12  
h-index

30  
g-index

36  
ext. papers

1,166  
ext. citations

3.6  
avg, IF

5.21  
L-index

#	Paper	IF	Citations
30	Data-based analysis, modelling and forecasting of the COVID-19 outbreak. <i>PLoS ONE</i> , <b>2020</b> , 15, e0230405	5.7	439
29	Mathematical modeling of infectious disease dynamics. <i>Virulence</i> , <b>2013</b> , 4, 295-306	4.7	172
28	Data-Based Analysis, Modelling and Forecasting of the COVID-19 outbreak		56
27	Symmetry properties and bifurcation analysis of a class of periodically forced chemical reactors. <i>Chemical Engineering Science</i> , <b>2002</b> , 57, 5065-5082	4.4	27
26	Modeling the 2014 Ebola Virus Epidemic - Agent-Based Simulations, Temporal Analysis and Future Predictions for Liberia and Sierra Leone. <i>PLOS Currents</i> , <b>2015</b> , 7,		26
25	On POD reduced models of tubular reactor with periodic regimes. <i>Computers and Chemical Engineering</i> , <b>2008</b> , 32, 1305-1315	4	24
24	Complex dynamics and spatio-temporal patterns in a network of three distributed chemical reactors with periodical feed switching. <i>Chaos, Solitons and Fractals</i> , <b>2006</b> , 28, 682-706	9.3	20
23	Modelling and simulation of a catalytic autothermal methane reformer with Rh catalyst. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 263-275	6.7	19
22	Nonlinear dynamics of a VOC combustion loop reactor. <i>AIChE Journal</i> , <b>2006</b> , 52, 2812-2822	3.6	17
21	Modeling Temperature Profiles of a Catalytic Autothermal Methane Reformer with Nickel Catalyst. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 1804-1815	3.9	14
20	Multiplicities of temperature wave trains in periodically forced networks of catalytic reactors for reversible exothermic reactions. <i>Chemical Engineering Journal</i> , <b>2011</b> , 171, 655-668	14.7	13
19	Temperature and conversion patterns in a network of catalytic reactors for methanol synthesis with different switch strategies. <i>Chemical Engineering Science</i> , <b>2010</b> , 65, 4579-4590	4.4	12
18	Hybrid modeling and dynamics of a controlled reverse flow reactor. <i>AIChE Journal</i> , <b>2007</b> , 53, 2084-2096	3.6	12
17	Effect of the Switch Strategy on the Stability of Reactor Networks. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 6510-6521	3.9	11
16	NONLINEAR ANALYSIS OF A NETWORK OF THREE CONTINUOUS STIRRED TANK REACTORS WITH PERIODIC FEED SWITCHING: SYMMETRY AND SYMMETRY-BREAKING. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2004</b> , 14, 1325-1341	2	11
15	Can social microblogging be used to forecast intraday exchange rates?. <i>NETNOMICS: Economic Research and Electronic Networking</i> , <b>2013</b> , 14, 47-68	2.3	8
14	Temperature wave-trains of periodically forced networks of catalytic reactors. <i>AIChE Journal</i> , <b>2012</b> , 58, 899-913	3.6	7

13	A neuro-fuzzy computational approach for multicriteria optimisation of the quality of espresso coffee by pod based on the extraction time, temperature and blend. <i>International Journal of Food Science and Technology</i> , <b>2012</b> , 47, 837-846	3.8	6
12	Homoclinic bifurcations in radiating diffusion flames. <i>Combustion Theory and Modelling</i> , <b>2013</b> , 17, 40-52	1.5	5
11	Reduced computations for nematic-liquid crystals: A timestepper approach for systems with continuous symmetries. <i>Journal of Non-Newtonian Fluid Mechanics</i> , <b>2007</b> , 146, 51-58	2.7	5
10	Complex network theory criterion to distribute fuel breaks for the hazard control of fire spread in forests <b>2015</b> ,		3
9	S&P500 Forecasting and trading using convolution analysis of major asset classes. <i>Procedia Computer Science</i> , <b>2017</b> , 113, 484-489	1.6	2
8	Optimal Reference Trajectory Shaping and Robust Gain-Scheduling for Transition Control of Nonlinear Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 9128-9140	3.9	2
7	Nonlinear Galerkin methods for a system of PDEs with Turing instabilities. <i>Calcolo</i> , <b>2018</b> , 55, 1	1.5	1
6	Parallel tools for the bifurcation analysis of large-scale chemically reactive dynamical systems. <i>Computers and Chemical Engineering</i> , <b>2012</b> , 38, 94-105	4	1
5	TAILORING THE BIFURCATION DIAGRAM OF NONLINEAR DYNAMICAL SYSTEMS: AN OPTIMIZATION BASED APPROACH. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , <b>2010</b> , 20, 1027-1040	2	1
4	Optimal bifurcation tailoring based transition control of reactor separation recycle systems. <i>Computer Aided Chemical Engineering</i> , <b>2009</b> , 26, 285-290	0.6	1
3	A nonlinear approach to the design of gain-scheduled controllers. <i>Computer Aided Chemical Engineering</i> , <b>2010</b> , 28, 595-600	0.6	0
2	Effect of the switch strategy on the performance and stability of reactor networks for methanol synthesis. <i>Computer Aided Chemical Engineering</i> , <b>2010</b> , 13-18	0.6	
1	Network of three catalytic reactors with periodical feed switching for methanol synthesis: bifurcation analysis. <i>Computer Aided Chemical Engineering</i> , <b>2006</b> , 21, 197-202	0.6	