

Andrey Romanenko

List of Publications by Year in descending order

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24
papers

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citations

1307594

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839539

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24
all docs

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docs citations

24
times ranked

269
citing authors

#	ARTICLE	IF	CITATIONS
1	The unscented filter as an alternative to the EKF for nonlinear state estimation: a simulation case study. Computers and Chemical Engineering, 2004, 28, 347-355.	3.8	147
2	Unscented Kalman Filtering of a Simulated pH System. Industrial & Engineering Chemistry Research, 2004, 43, 7531-7538.	3.7	58
3	Modeling, Detection and Quantification, and Compensation of Stiction in Control Loops: The State of the Art. Industrial & Engineering Chemistry Research, 2014, 53, 15020-15040.	3.7	37
4	Nonlinear model predictive control of biodiesel production via transesterification of used vegetable oils. Journal of Process Control, 2013, 23, 1471-1479.	3.3	23
5	Application of agent technology concepts to the design of a fault-tolerant control system. Control Engineering Practice, 2007, 15, 459-469.	5.5	19
6	First principle modeling and predictive control of a continuous biodiesel plant. Journal of Process Control, 2016, 47, 11-21.	3.3	16
7	Modeling the effect of mixing in biodiesel production. Bioresource Technology, 2011, 102, 6508-6514.	9.6	15
8	An RT-Linux based control system of a pilot plant for reaction kinetics and process control studies. Computers and Chemical Engineering, 2000, 24, 1063-1068.	3.8	7
9	Daedalus Modeling Framework: Building First-Principle Dynamic Models. Industrial & Engineering Chemistry Research, 2017, 56, 3332-3346.	3.7	7
10	Detection of Stiction in Level Control Loops—This work was developed under project NAMPI, reference 2012/023007, in consortium between Ciengis, SA and UC, with financial support of QREN via Mais Centro operational regional program and European Union via FEDER framework program.. IFAC-PapersOnLine, 2015, 48, 421-426.	0.9	6
11	A Nonlinear Model Predictive Control Framework as Free Software: Outlook and Progress Report. , 2007, , 229-238.		4
12	Simulation and Advanced Control of the Continuous Biodiesel Production Process. Springer Proceedings in Mathematics and Statistics, 2018, , 127-146.	0.2	3
13	Mechanistic Modeling and Simulation for Process Data Generation. Industrial & Engineering Chemistry Research, 2019, 58, 17871-17884.	3.7	3
14	Application of MCSFilter to estimate stiction control valve parameters. AIP Conference Proceedings, 2017, , .	0.4	2
15	Parameter estimation of a pulp digester model with derivative-free optimization strategies. AIP Conference Proceedings, 2017, , .	0.4	2
16	Stiction Detection and Quantification as an Application of Optimization. Lecture Notes in Computer Science, 2014, , 169-179.	1.3	2
17	Parameter Estimation of the Kinetic α -Pinene Isomerization Model Using the MCSFilter Algorithm. Lecture Notes in Computer Science, 2018, , 624-636.	1.3	2
18	System identification as an application of optimization. , 2012, , .		1

#	ARTICLE	IF	CITATIONS
19	Modeling and nonlinear MPC of a dividing-wall column for separation of Benzene-Toluene-p-Xylene: a simulation case study. <i>Computer Aided Chemical Engineering</i> , 2017, 40, 1615-1620.	0.5	1
20	Development of a Numerically Efficient Biodiesel Decanter Simulator. <i>CIM Series in Mathematical Sciences</i> , 2015, , 85-105.	0.4	1
21	A system for chemical process control and supervision based on real-time Linux. <i>Computer Aided Chemical Engineering</i> , 2003, , 1346-1351.	0.5	0
22	Using Sequential Quadratic Programming for System Identification. <i>Applied Mathematics and Information Sciences</i> , 2015, 9, 19-26.	0.5	0
23	Application of mixed integer nonlinear programming for system identification. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
24	Comparison of the performance of Choudhury and Kano valve stiction models. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0