

# Piotr Skupin

## List of Publications by Year in descending order

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38  
papers

155  
citations

1307594

7  
h-index

1372567

10  
g-index

41  
all docs

41  
docs citations

41  
times ranked

94  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tuning strategy for dynamic matrix control with reduced horizons. ISA Transactions, 2018, 76, 145-154.	5.7	19
2	Practical PLC-Based Implementation of Adaptive Dynamic Matrix Controller for Energy-Efficient Control of Heat Sources. IEEE Transactions on Industrial Electronics, 2021, 68, 4269-4278.	7.9	12
3	Analysis of the thermal properties of a heat flow chip calorimeter using CFD. Applied Thermal Engineering, 2016, 96, 508-518.	6.0	10
4	Oscillatory Behavior Control in Continuous Fermentation Processes. IFAC-PapersOnLine, 2015, 48, 1114-1119.	0.9	9
5	Stability analysis of the continuous ethanol fermentation process with a delayed product inhibition. Applied Mathematical Modelling, 2017, 49, 48-58.	4.2	9
6	PI control for a continuous fermentation process with a delayed product inhibition. Journal of Process Control, 2018, 72, 30-38.	3.3	8
7	Metamorphic Controller for Collaborative Design of an Optimal Structure of the Control System. Lecture Notes in Computer Science, 2014, , 230-237.	1.3	7
8	An Alternative Approach for Oscillatory Behaviour Control in a Nonlinear Bioprocess. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 253-258.	0.4	6
9	Adaptive dynamic matrix control with interpolated parameters. , 2015, , .		6
10	Practical verification of adaptive dynamic matrix control with interpolated parameters. , 2016, , .		6
11	Cooperative Access to Hierarchical Data from Biotechnological Pilot-Plant. Lecture Notes in Computer Science, 2012, , 171-178.	1.3	6
12	Cooperative Operating Control for Induction or Elimination of Self-sustained Oscillations in CSTB. Lecture Notes in Computer Science, 2011, , 66-73.	1.3	5
13	The Application of Multi-Agent System in Monitoring and Control of Nonlinear Bioprocesses. Lecture Notes in Computer Science, 2012, , 25-36.	1.3	5
14	Boundary-Based Predictive Controller and Its Application to Control of Dissolved Oxygen Concentration in Activated Sludge Bioreactor. IEEE Transactions on Industrial Electronics, 2022, 69, 10541-10551.	7.9	5
15	Robust nonlinear model predictive control of cascade of fermenters with recycle for efficient bioethanol production. Computers and Chemical Engineering, 2022, 160, 107735.	3.8	5
16	Oscillatory behaviour control in a continuous culture under double-substrate limitation. Journal of Biological Dynamics, 2018, 12, 663-682.	1.7	3
17	Bifurcation analysis of a hybrid continuous stirred tank reactor with imperfect mixing in the cooling jacket. IFAC-PapersOnLine, 2019, 52, 334-339.	0.9	3
18	On the stability of active disturbance rejection control for first-order plus delay time processes. ISA Transactions, 2021, , .	5.7	3

#	ARTICLE	IF	CITATIONS
19	Optimization of Engineering Design Cycles in Enterprise Integration. Lecture Notes in Computer Science, 2013, , 153-156.	1.3	3
20	Implementation of virtual control strategies for natural rehabilitation of arm with visual and force feedback. , 2010, , .		2
21	Modelling of hybrid CSTR plant: Heat transfer considerations. , 2017, , .		2
22	Dynamical behavior of the hybrid exothermic chemical reactor with imperfect mixing. , 2017, , .		2
23	Experimental and bifurcation analysis of a hybrid CSTR plant. Chemical Engineering Research and Design, 2019, 148, 191-201.	5.6	2
24	A High-Resolution Measurement System Designed for Semiconductor Microcalorimetry Sensors. Electronics (Switzerland), 2019, 8, 1147.	3.1	2
25	Modeling and CFD simulation of an isothermal heat flow microcalorimeter. Sensors and Actuators A: Physical, 2021, 331, 112999.	4.1	2
26	Agent-Based Control of Self-sustained Oscillations in Industrial Processes: A Bioreactor Case Study. Lecture Notes in Computer Science, 2012, , 209-218.	1.3	2
27	Modelling of the imperfect mixing in a hybrid exothermic chemical reactor with simulated heat of reaction. Computer Aided Chemical Engineering, 2017, 40, 2845-2850.	0.5	2
28	Model-based operating control of the CSTB in order to improve its productivity. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2009, 42, 119-124.	0.4	1
29	AI-Based Support for Experimentation in an Environmental Biotechnological Process. Lecture Notes in Computer Science, 2012, , 155-166.	1.3	1
30	Concept of food-chain control in the bioreactor fed with a mixture of substrates. Aquaculture, 2017, 467, 127-133.	3.5	1
31	Hybrid batch reactor modeling and experimental evaluation of heat transfer process. , 2017, , .		1
32	Isopropanol concentration control in the ultrasonic nebulization process. , 2017, , .		1
33	On-line spectrophotometric measurements of isopropanol concentration in process of nebulization. , 2017, , .		0
34	Productivity analysis and non-linear gain scheduling approach for multi-species bioprocesses with product inhibition. , 2019, , .		0
35	On-Line Estimation of the Ultrasonic Power in a Continuous Flow Sonochemical Reactor. Energies, 2020, 13, 2952.	3.1	0
36	Cloud Computing for Improving Integrity of Data from Biotechnological Plant. Lecture Notes in Computer Science, 2014, , 72-79.	1.3	0

#	ARTICLE	IF	CITATIONS
37	Application of the Sequence Diagrams in the Design of Distributed Control System. Lecture Notes in Computer Science, 2015, , 193-196.	1.3	0
38	Direct metabolic activity measurement for unstable bioprocess experiment control. International Journal of Design and Nature and Ecodynamics, 2015, 10, 60-69.	0.5	0