

# Vasile Mircea Cristea

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

828  
citations

687363

13  
h-index

552781

26  
g-index

71  
all docs

71  
docs citations

71  
times ranked

981  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analysis of total phenolic, flavonoids, anthocyanins and tannins content in Romanian red wines: Prediction of antioxidant activities and classification of wines using artificial neural networks. Food Chemistry, 2014, 150, 113-118.	8.2	148
2	Antioxidant activity prediction and classification of some teas using artificial neural networks. Food Chemistry, 2011, 127, 1323-1328.	8.2	69
3	Cost reduction of the wastewater treatment plant operation by MPC based on modified ASM1 with two-step nitrification/denitrification model. Computers and Chemical Engineering, 2011, 35, 2469-2479.	3.8	57
4	Simulation and model predictive control of a UOP fluid catalytic cracking unit. Chemical Engineering and Processing: Process Intensification, 2003, 42, 67-91.	3.6	44
5	Dynamic modelling and nonlinear model predictive control of a Fluid Catalytic Cracking Unit. Computers and Chemical Engineering, 2009, 33, 605-617.	3.8	43
6	Development and economic assessment of different WWTP control strategies for optimal simultaneous removal of carbon, nitrogen and phosphorus. Computers and Chemical Engineering, 2013, 53, 164-177.	3.8	41
7	Serum tests, liver stiffness and artificial neural networks for diagnosing cirrhosis and portal hypertension. Digestive and Liver Disease, 2015, 47, 411-416.	0.9	40
8	Reducing energy costs of the wastewater treatment plant by improved scheduling of the periodic influent load. Journal of Environmental Management, 2020, 262, 110294.	7.8	29
9	Validation of CFD simulation results in case of portal vein blood flow. Computer Aided Chemical Engineering, 2010, , 205-210.	0.5	18
10	Flexible operation of CO <sub>2</sub> capture processes integrated with power plant using advanced control techniques. Computer Aided Chemical Engineering, 2015, 37, 1547-1552.	0.5	16
11	EXTENSION OF ACTIVATED SLUDGE MODEL NO 1 WITH TWO-STEP NITRIFICATION AND DENITRIFICATION PROCESSES FOR OPERATION IMPROVEMENT. Environmental Engineering and Management Journal, 2011, 10, 1529-1544.	0.6	16
12	EVALUATION OF DIFFERENT CONTROL STRATEGIES OF THE WASTE WATER TREATMENT PLANT BASED ON A MODIFIED ACTIVATED SLUDGE MODEL NO. 3. Environmental Engineering and Management Journal, 2012, 11, 147-164.	0.6	15
13	Model Predictive Control of the waste water treatment plant based on the Benchmark Simulation Model No.1-BSM1. Computer Aided Chemical Engineering, 2008, 25, 441-446.	0.5	13
14	Plasmonic photothermal heating of gold nanostars in a real-size container: multiscale modelling and experimental study. Nanotechnology, 2020, 31, 125701.	2.6	13
15	Simulation and Control of Pollutant Propagation in SomeÅŸ River Using COMSOL Multiphysics. Computer Aided Chemical Engineering, 2010, 28, 985-990.	0.5	12
16	Prediction of Cu(II) biosorption performances on wild mushrooms <i>Lactarius piperatus</i> using Artificial Neural Networks (ANN) model. Canadian Journal of Chemical Engineering, 2017, 95, 615-622.	1.7	12
17	Efficient decentralized control of the post combustion CO <sub>2</sub> capture plant for flexible operation against influent flue gas disturbances. Energy, 2020, 205, 117960.	8.8	11
18	MPC vs. PID. The advanced control solution for an industrial heat integrated fluid catalytic cracking plant. Computer Aided Chemical Engineering, 2011, 29, 517-521.	0.5	10

#	ARTICLE	IF	CITATIONS
19	Counteracting the accidental pollutant propagation in a section of the River SomeÅ by automatic control. <i>Journal of Environmental Management</i> , 2013, 128, 828-836.	7.8	10
20	Artificial Neural Network Trained to Predict High-Harmonic Flux. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2106.	2.5	10
21	Artificial neural networks modeling of the parameterized gold nanoparticles generation through photo-induced process. <i>Materials Research Express</i> , 2018, 5, 085011.	1.6	9
22	Neural networks based model predictive control of the drying process. <i>Computer Aided Chemical Engineering</i> , 2003, , 389-394.	0.5	8
23	Optimization Method of the Solvothermal Parameters Using BoxâBehnken Experimental DesignâThe Case Study of ZnO Structural and Catalytic Tailoring. <i>Nanomaterials</i> , 2021, 11, 1334.	4.1	8
24	WWTP MODEL CALIBRATION BASED ON DIFFERENT OPTIMIZATION APPROACHES. <i>Environmental Engineering and Management Journal</i> , 2019, 18, 1657-1670.	0.6	8
25	FCCU simulation based on first principle and artificial neural network models. <i>Asia-Pacific Journal of Chemical Engineering</i> , 2009, 4, 878-884.	1.5	7
26	Temperature dynamics of laser irradiated gold nanoparticles embedded in a polymer matrix. <i>Thermochimica Acta</i> , 2017, 656, 25-31.	2.7	7
27	Model calibration and feedâforward control of the wastewater treatment plant â case study for CLUJâNapoca WWTP. <i>Water and Environment Journal</i> , 2018, 32, 164-172.	2.2	7
28	Dairy wastewater processing and automatic control for waste recovery at the municipal wastewater treatment plant based on modelling investigations. <i>Journal of Environmental Management</i> , 2021, 287, 112316.	7.8	7
29	Data Driven Detection of Different Dissolved Oxygen Sensor Faults for Improving Operation of the WWTP Control System. <i>Processes</i> , 2021, 9, 1633.	2.8	7
30	Comparison between different control approaches of the UOP fluid catalytic cracking unit. <i>Computer Aided Chemical Engineering</i> , 2007, , 847-852.	0.5	6
31	Artificial Neural Networks Modelling of PID and Model Predictive Controlled Waste Water Treatment Plant Based on the Benchmark Simulation Model No.1. <i>Computer Aided Chemical Engineering</i> , 2009, 26, 1183-1188.	0.5	6
32	Retrofit design of heat exchanger network of a fluid catalytic cracking plant and control based on MPC. <i>Computers and Chemical Engineering</i> , 2013, 49, 205-216.	3.8	6
33	Improving Waste Water Treatment Plant Operation by Ammonia Based Aeration and Return Activated Sludge Control. <i>Computer Aided Chemical Engineering</i> , 2019, , 1165-1170.	0.5	6
34	Data-driven modelling based on artificial neural networks for predicting energy and effluent quality indices and wastewater treatment plant optimization. <i>Optimization and Engineering</i> , 2022, 23, 2235-2259.	2.4	6
35	MATHEMATICAL MODELS TO SUPPORT POLLUTION COUNTERACTION IN CASE OF ACCIDENTS. <i>Environmental Engineering and Management Journal</i> , 2012, 11, 13-20.	0.6	5
36	Nonlinear model predictive control of the wastewater treatment plant. <i>Computer Aided Chemical Engineering</i> , 2006, , 1365-1370.	0.5	4

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37	Control strategies for wastewater treatment plants aimed to improve nutrient removal and to reduce aeration costs. , 2018, , .		4
38	CASE STUDY ON ENERGY EFFICIENCY OF BIOGAS PRODUCTION IN INDUSTRIAL ANAEROBIC DIGESTERS AT MUNICIPAL WASTEWATER TREATMENT PLANTS. Environmental Engineering and Management Journal, 2015, 14, 357-360.	0.6	4
39	Model predictive control of an industrial dryer. Computer Aided Chemical Engineering, 2000, 8, 271-276.	0.5	3
40	CFD simulations, experimental validation and parametric studies for the catalytic reduction of NO by hydrogen in a fixed bed reactor. RSC Advances, 2016, 6, 89259-89273.	3.6	3
41	Application of adaptive neuro-fuzzy interference system on biosorption of malachite green using fir ( <i>Abies nordmanniana</i> ) cones biomass. Chemical Engineering Communications, 2019, 206, 1249-1263.	2.6	3
42	Augmenting Heat Balance of the Wastewater Treatment Plant Model and Improving Plant Control by Counteracting Temperature Disturbances. Computer Aided Chemical Engineering, 2020, , 1141-1146.	0.5	3
43	Influent temperature effects on the activated sludge process at a municipal wastewater treatment plant. Studia Universitatis Babes-Bolyai Chemia, 2019, 64, 113-123.	0.2	3
44	Optimization and control of aeration distribution in the WWTP nitrification reactor. Revue Roumaine De Chimie, 2020, 65, 601-609.	0.2	3
45	Efficient calibration methodology of the wastewater treatment plant model based on ASM3 and application to municipal wastewater. , 0, 189, 108-118.		3
46	Data-driven modelling based on artificial neural networks for predicting energy and effluent quality indices and wastewater treatment plant optimization. Optimization and Engineering, 0, , .	2.4	3
47	Control approaches of the carbonation column for soda manufacturing. Studia Universitatis Babes-Bolyai Chemia, 2017, 62, 221-229.	0.2	2
48	Rivers Water Quality Monitoring Modeling and Simulation of Pollutants Propagation. , 2008, , .		1
49	An advanced control solution for a fluid catalytic cracking unit. Computer Aided Chemical Engineering, 2012, , 797-801.	0.5	1
50	Control of Forced Convection Drying in Food Slabs. Computer Aided Chemical Engineering, 2012, , 932-936.	0.5	1
51	Advanced Control Used for Counteracting Accidental Pollutant Propagation in Rivers. Computer Aided Chemical Engineering, 2013, , 1003-1008.	0.5	1
52	Modelling and Simulation of Forced Convection Drying of Electric Insulators. Computer Aided Chemical Engineering, 2011, 29, 46-50.	0.5	1
53	SIMULATION AND CONTROL OF FLOODS IN A WATER NETWORK. CASE STUDY OF JIIA RIVER CATCHMENT. Environmental Engineering and Management Journal, 2017, 16, 587-595.	0.6	1
54	Control of the Rotary Calciner for Soda Ash Production. Computer Aided Chemical Engineering, 2002, , 463-468.	0.5	0

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55	An Intelligent System for Rivers Water Quality Assessment, based on Pollutants Propagation Modeling and Simulation. , 2006, , .		0
56	Normalization for cDNA microarray data of gene expression profiles from the human prostate cancer cell lines (PC3) by Pre-Processing Two-Color Data. Computer Aided Chemical Engineering, 2009, , 1033-1038.	0.5	0
57	Performance comparison of different optimization methods for the wastewater treatment plant model based on the Activated Sludge Model No. 3 and design of the plant control. Computer Aided Chemical Engineering, 2021, 50, 747-753.	0.5	0
58	Flood Prevention in Jijia Catchment Using Control Structures Based on Hydraulic Modelling. Computer Aided Chemical Engineering, 2014, , 1153-1158.	0.5	0
59	Optimization of the Wastewater Treatment Plant Recycle Flowrates Using Artificial Neural Networks. , 2022, , .		0