Nikhil Pachauri

List of Publications by Year
in descending order

26 papers	373 citations	933447 10 h-index	839539 18 g-index
27 all docs	27 docs citations	27 times ranked	268 citing authors

#	Article	IF	Citations
1	Comparative performance analysis of quantum machine learning with deep learning for diabetes prediction. Complex & Intelligent Systems, 2022, 8, 3073-3087.	6.5	48
2	Closed loop fractional order drug delivery control scheme for chemotherapy. Results in Control and Optimization, 2022, 6, 100097.	2.3	2
3	Electrical Energy Prediction of Combined Cycle Power Plant Using Gradient Boosted Generalized Additive Model. IEEE Access, 2022, 10, 24566-24577.	4.2	5
4	Internal Model-Based Cascaded Control Approach for Multi-Functional Grid Interactive Converters. IEEE Access, 2022, 10, 19862-19874.	4.2	1
5	A novel cascaded fractional fuzzy approach for control of fermentation process. Bioresource Technology, 2022, 357, 127377.	9.6	7
6	Regression tree ensemble learning-based prediction of the heating and cooling loads of residential buildings. Building Simulation, 2022, 15, 2003-2017.	5.6	16
7	Controller design for optimal operation of Multiple Effect Evaporator of paper mills. Results in Control and Optimization, 2022, 8, 100137.	2.3	3
8	Decentralized control strategy for fuel cell/PV/BESS based microgrid using modified fractional order PI controller. International Journal of Hydrogen Energy, 2021, 46, 4417-4436.	7.1	26
9	Towards the Real-Time Control of Nonlinear Multiple Stage Evaporators: Design of IMC with Process Delay. Lecture Notes in Mechanical Engineering, 2021, , 455-467.	0.4	2
10	Water cycle algorithm tuned robust fractional–order Proportional–Integral–Derivative controller for energy optimization and control of nonlinear Multiple Stage Evaporator: A case study of paper mill. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2626.	1.5	10
11	Approximate solution of non-linear dynamic energy model for multiple effect evaporator using fourier series and metaheuristics. Korean Journal of Chemical Engineering, 2021, 38, 906-923.	2.7	9
12	Automatic drug infusion control based on metaheuristic H 2 optimal theory for regulating the mean arterial blood pressure. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2654.	1.5	5
13	Water cycle algorithm-based PID controller for AVR. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2020, 39, 551-567.	0.9	23
14	Development of Sine Cosine Toolbox for LabVIEW. Advances in Intelligent Systems and Computing, 2020, , 747-753.	0.6	0
15	Design of fractional order 2-DOF PI controller for real-time control of heat flow experiment. Engineering Science and Technology, an International Journal, 2019, 22, 215-228.	3.2	21
16	PID Based Chemotherapeutic Drug Scheduling for Cancer Treatment. , 2019, , .		2
17	Modified fractional order IMC design based drug scheduling for cancer treatment. Computers in Biology and Medicine, 2019, 109, 121-137.	7.0	28
18	Industrial Simulation of PID and Modified-MPID Controllers for Coupled-Tank System. Lecture Notes in Electrical Engineering, 2019, , 421-428.	0.4	4

#	Article	IF	Citations
19	Two Degrees-of-Freedom Fractional-Order Proportional–Integral–Derivative-Based Temperature Control of Fermentation Process. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2018, 140, .	1.6	23
20	Classification of EEG signals for epileptic seizures using Levenberg-Marquardt algorithm based Multilayer Perceptron Neural Network. Journal of Intelligent and Fuzzy Systems, 2018, 34, 1669-1677.	1.4	24
21	Bioreactor temperature control using modified fractional order IMC-PID for ethanol production. Chemical Engineering Research and Design, 2017, 122, 97-112.	5.6	52
22	Two degree of freedom PID based inferential control of continuous bioreactor for ethanol production. ISA Transactions, 2017, 68, 235-250.	5.7	46
23	Fractional order PID (FOPID) controller based temperature control of bioreactor. , 2016, , .		11
24	Gerschgorin theorem based stability analysis of chemical process. , 2014, , .		1
25	Prediction and optimization of abrasive wear loss of ultrahigh strength martensitic steel using response surface methodology, Harris Hawk and artificial neural network. International Journal of Systems Assurance Engineering and Management, 0, , 1.	2.4	1
26	Modified H2 optimal PI tuning method for first order time delay systems. International Journal of Systems Assurance Engineering and Management, 0, , 1.	2.4	1