Lakshminarayanan Samavedham

List of Publications by Year
in descending order

32	401	840776	752698
papers	citations	11	20
		h-index	g-index

33	33	33	525
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unsupervised learning based feature extraction for differential diagnosis of neurodegenerative diseases: A case study on early-stage diagnosis of Parkinson disease. Journal of Neuroscience Methods, 2015, 256, 30-40.	2.5	61
2	Advanced Control Strategies for the Regulation of Hypnosis with Propofol. Industrial & Engineering Chemistry Research, 2009, 48, 3880-3897.	3.7	56
3	Review and Analysis of Blood Glucose (BG) Models for Type 1 Diabetic Patients. Industrial & Engineering Chemistry Research, 2011, 50, 12041-12066.	3.7	56
4	A mechanistic fault detection and isolation approach using Kalman filter to improve the security of cyber physical systems. Journal of Process Control, 2018, 68, 160-170.	3.3	28
5	A Regional Blood Flow Model for Î²2-Microglobulin Kinetics and for Simulating Intra-dialytic Exercise Effect. Annals of Biomedical Engineering, 2011, 39, 2879-2890.	2.5	24
6	Machine Learning-Based Framework for Multi-Class Diagnosis of Neurodegenerative Diseases: A Study on Parkinsonâ€™s Disease. IFAC-PapersOnLine, 2016, 49, 990-995.	0.9	20
7	Multiobjective Framework for Model-based Design of Experiments to Improve Parameter Precision and Minimize Parameter Correlation. Industrial & Engineering Chemistry Research, 2013, 52, 8289-8304.	3.7	18
8	Determination of Imaging Biomarkers to Decipher Disease Trajectories and Differential Diagnosis of Neurodegenerative Diseases (DIsease TreND). Journal of Neuroscience Methods, 2018, 305, 105-116.	2.5	16
9	Design of biomass and natural gas based IGFC using multi-objective optimization. Energy, 2014, 73, 635-652.	8.8	15
10	Personalized Hybrid Models for Exercise, Meal, and Insulin Interventions in Type 1 Diabetic Children and Adolescents. Industrial & Engineering Chemistry Research, 2013, 52, 13020-13033.	3.7	13
11	Mechanism discovery and model identification using genetic feature extraction and statistical testing. Computers and Chemical Engineering, 2020, 140, 106900.	3.8	13
12	Personalized mechanistic models for exercise, meal and insulin interventions in children and adolescents with type 1 diabetes. Journal of Theoretical Biology, 2014, 357, 62-73.	1.7	12
13	Multiclass Diagnosis of Neurodegenerative Diseases: A Neuroimaging Machine-Learning-Based Approach. Industrial & Engineering Chemistry Research, 2019, 58, 11498-11505.	3.7	9
14	Coordinating multiple model predictive controllers for the management of large-scale water systems. Journal of Hydroinformatics, 2013, 15, 293-305.	2.4	8
15	Modeling and Optimization of Reactive HiGee Stripper-Membrane Process for Methyl Lactate Hydrolysis. Industrial & Engineering Chemistry Research, 2013, 52, 7795-7802.	3.7	7
16	Effect of cool vs. warm dialysate on toxin removal: rationale and study design. BMC Nephrology, 2015, 16, 25.	1.8	7
17	Algorithm for image-based biomarker detection for differential diagnosis of Parkinson's disease. IFAC-PapersOnLine, 2015, 48, 918-923.	0.9	7
18	Rich can get poor: conversion of hub to non-hub proteins. Systems and Synthetic Biology, 2008, 2, 75-82.	1.0	6

#	Article	IF	Citations
19	Comparative Performance Analysis of Coordinated Model Predictive Control Schemes in the Presence of Modelâ€"Plant Mismatch. Industrial & Engineering Chemistry Research, 2012, 51, 8273-8285.	3.7	5
20	Data driven fault detection using multi-block PLS based path modeling approach. Computer Aided Chemical Engineering, 2012, 31, 1291-1295.	0.5	4
21	Design of a data-oriented cascade control system. , 2017, , .		4
22	Population based optimal experimental design in cancer diagnosis and chemotherapy: In silico analysis. Journal of Process Control, 2013, 23, 561-569.	3.3	3
23	A novel optimal experiment design technique based on multi-objective optimization and its application for toxin kinetics model of hemodialysis patients. Computer Aided Chemical Engineering, 2012, 30, 1362-1366.	0.5	2
24	Application of design of experiments in hemodialysis: Optimal sampling protocol for Î²2-microglobulin kinetic model. Chemical Engineering Science, 2015, 131, 84-90.	3.8	2
25	Critical Assessment of Control Strategies for Industrial Systems with Inputâ€"Output Constraints. Industrial & Engineering Chemistry Research, 2022, 61, 11056-11070.	3.7	2
26	Guest Editorial: 4TH symposium on advanced control of industrial processes (ADCONIP). Canadian Journal of Chemical Engineering, 2012, 90, 1381-1382.	1.7	1
27	Estimation of crystal size distribution based on two dimensional characteristics: an exploration using artificial images. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2012, 4, 78-90.	1.1	1
28	RhizoFlowCell system reveals early effects of micropollutants on aquatic plant rhizosphere. Environmental Pollution, 2015, 207, 205-210.	7.5	1
29	Comparison of Plant-wide Oscillation Detection Methods. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	0
30	A performance assessment framework for supply chain networks. Computer Aided Chemical Engineering, 2007, 24, 709-714.	0.5	0
31	Preface for special issue on â€œData Analysis: Techniques and Applicationsâ€. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2012, 4, 1-2.	1.1	0
32	Response to Dr. Cerasa's commentary on the article: â€œUnsupervised learning based feature extraction for differential diagnosis of neurodegenerative diseases: A case study on early-stage diagnosis of Parkinson diseaseâ€. Journal of Neuroscience Methods, 2016, 266, 163.	2.5	0