

Lakshminarayanan Samavedham

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

401
citations

840776

11
h-index

752698

20
g-index

33
all docs

33
docs citations

33
times ranked

525
citing authors

#	ARTICLE	IF	CITATIONS
1	Critical Assessment of Control Strategies for Industrial Systems with Input–Output Constraints. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 11056-11070.	3.7	2
2	Mechanism discovery and model identification using genetic feature extraction and statistical testing. <i>Computers and Chemical Engineering</i> , 2020, 140, 106900.	3.8	13
3	Multiclass Diagnosis of Neurodegenerative Diseases: A Neuroimaging Machine-Learning-Based Approach. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 11498-11505.	3.7	9
4	Determination of Imaging Biomarkers to Decipher Disease Trajectories and Differential Diagnosis of Neurodegenerative Diseases (Disease TreND). <i>Journal of Neuroscience Methods</i> , 2018, 305, 105-116.	2.5	16
5	A mechanistic fault detection and isolation approach using Kalman filter to improve the security of cyber physical systems. <i>Journal of Process Control</i> , 2018, 68, 160-170.	3.3	28
6	Design of a data-oriented cascade control system. , 2017, , .		4
7	Response to Dr. Cerasa's commentary on the article: “Unsupervised learning based feature extraction for differential diagnosis of neurodegenerative diseases: A case study on early-stage diagnosis of Parkinson disease” <i>Journal of Neuroscience Methods</i> , 2016, 266, 163.	2.5	0
8	Machine Learning-Based Framework for Multi-Class Diagnosis of Neurodegenerative Diseases: A Study on Parkinson’s Disease. <i>IFAC-PapersOnLine</i> , 2016, 49, 990-995.	0.9	20
9	Effect of cool vs. warm dialysate on toxin removal: rationale and study design. <i>BMC Nephrology</i> , 2015, 16, 25.	1.8	7
10	Application of design of experiments in hemodialysis: Optimal sampling protocol for β_2 -microglobulin kinetic model. <i>Chemical Engineering Science</i> , 2015, 131, 84-90.	3.8	2
11	Unsupervised learning based feature extraction for differential diagnosis of neurodegenerative diseases: A case study on early-stage diagnosis of Parkinson disease. <i>Journal of Neuroscience Methods</i> , 2015, 256, 30-40.	2.5	61
12	RhizoFlowCell system reveals early effects of micropollutants on aquatic plant rhizosphere. <i>Environmental Pollution</i> , 2015, 207, 205-210.	7.5	1
13	Algorithm for image-based biomarker detection for differential diagnosis of Parkinson's disease. <i>IFAC-PapersOnLine</i> , 2015, 48, 918-923.	0.9	7
14	Personalized mechanistic models for exercise, meal and insulin interventions in children and adolescents with type 1 diabetes. <i>Journal of Theoretical Biology</i> , 2014, 357, 62-73.	1.7	12
15	Design of biomass and natural gas based IGFC using multi-objective optimization. <i>Energy</i> , 2014, 73, 635-652.	8.8	15
16	Population based optimal experimental design in cancer diagnosis and chemotherapy: In silico analysis. <i>Journal of Process Control</i> , 2013, 23, 561-569.	3.3	3
17	Personalized Hybrid Models for Exercise, Meal, and Insulin Interventions in Type 1 Diabetic Children and Adolescents. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 13020-13033.	3.7	13
18	Modeling and Optimization of Reactive HiGee Stripper-Membrane Process for Methyl Lactate Hydrolysis. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 7795-7802.	3.7	7

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19	Multiobjective Framework for Model-based Design of Experiments to Improve Parameter Precision and Minimize Parameter Correlation. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 8289-8304.	3.7	18
20	Coordinating multiple model predictive controllers for the management of large-scale water systems. <i>Journal of Hydroinformatics</i> , 2013, 15, 293-305.	2.4	8
21	A novel optimal experiment design technique based on multi-objective optimization and its application for toxin kinetics model of hemodialysis patients. <i>Computer Aided Chemical Engineering</i> , 2012, 30, 1362-1366.	0.5	2
22	Comparative Performance Analysis of Coordinated Model Predictive Control Schemes in the Presence of Model-Plant Mismatch. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 8273-8285.	3.7	5
23	Data driven fault detection using multi-block PLS based path modeling approach. <i>Computer Aided Chemical Engineering</i> , 2012, 31, 1291-1295.	0.5	4
24	Guest Editorial: 4TH symposium on advanced control of industrial processes (ADCONIP). <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 1381-1382.	1.7	1
25	Estimation of crystal size distribution based on two dimensional characteristics: an exploration using artificial images. <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , 2012, 4, 78-90.	1.1	1
26	Preface for special issue on "Data Analysis: Techniques and Applications". <i>International Journal of Advances in Engineering Sciences and Applied Mathematics</i> , 2012, 4, 1-2.	1.1	0
27	Review and Analysis of Blood Glucose (BG) Models for Type 1 Diabetic Patients. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 12041-12066.	3.7	56
28	A Regional Blood Flow Model for β_2 -Microglobulin Kinetics and for Simulating Intra-dialytic Exercise Effect. <i>Annals of Biomedical Engineering</i> , 2011, 39, 2879-2890.	2.5	24
29	Advanced Control Strategies for the Regulation of Hypnosis with Propofol. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 3880-3897.	3.7	56
30	Rich can get poor: conversion of hub to non-hub proteins. <i>Systems and Synthetic Biology</i> , 2008, 2, 75-82.	1.0	6
31	Comparison of Plant-wide Oscillation Detection Methods. <i>Control Applications (CCA), Proceedings of the IEEE International Conference on</i> , 2007, , .	0.0	0
32	A performance assessment framework for supply chain networks. <i>Computer Aided Chemical Engineering</i> , 2007, 24, 709-714.	0.5	0