M Ramasamy

List of Publications by Year
in descending order

70	748	706676 14	620720 26
papers	citations	h-index	g-index

70	70	70	634
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modeling and optimisation studies on the ultrasound-assisted extraction of phenolic compounds fromAzadirachta indica. Chemical Engineering Communications, 2022, 209, 1423-1438.	1.5	2
2	Numerical CFD investigation of liquid-liquid two-phase flow separation in a microseparator. Separation Science and Technology, 2022, 57, 1454-1470.	1.3	1
3	Revisiting Threshold Fouling Models for Crude Oil Fouling. Heat Transfer Engineering, 2021, 42, 1489-1505.	1.2	2
4	Production, optimization, and characterization of sugarcane (Saccharum officinarum)â€“papaya (Carica) Tj ETQq0 0 0 rgBT /Overlock 10 101290.	3.0	5
5	Crude Oil Fouling in Heat Exchangers: A Study on Effects of Influencing Forces. E3S Web of Conferences, 2021, 287, 03003.	0.2	2
6	Experimental and numerical investigation on convective heat transfer in actively heated bundle-pipe. Engineering Applications of Computational Fluid Mechanics, 2021, 15, 848-864.	1.5	5
7	Briquetting of Dry Sugarcane Leaves by Using Press Mud, Cow Dung, and Buffalo Dung as Binders. International Journal of Chemical Engineering, 2021, 2021, 1-12.	1.4	6
8	A simple model-free butterfly shape-based detection (BSD) method integrated with deep learning CNN for valve stiction detection and quantification. Journal of Process Control, 2020, 87, 1-16.	1.7	19
9	Generic framework for valve stiction detection and compensation with ANFIS-activated dual-mode MPC. Journal of Process Control, 2019, 79, 85-97.	1.7	4
10	An overview on control strategies for CO2 capture using absorption/stripping system. Chemical Engineering Research and Design, 2019, 147, 319-337.	2.7	40
11	A model to determine maximum heat flux under forced convective heat transfer regime for crude oil fouling studies. Applied Thermal Engineering, 2019, 156, 485-493.	3.0	9
12	Discrete phase-CFD simulations of asphaltenes particles deposition from crude oil in shell and tube heat exchangers. Applied Thermal Engineering, 2019, 149, 105-118.	3.0	32
13	System identification based proxy modeling of a reservoir under iWAG. IOP Conference Series: Materials Science and Engineering, 2018, 458, 012055.	0.3	2
14	Optimality and Stability of Cooperative Distributed Model Predictive Control in Largeâ€“scale Plant. , 2018, , .		0
15	IAM: An Intuitive ANFIS-based method for stiction detection. IOP Conference Series: Materials Science and Engineering, 2018, 458, 012054.	0.3	0
16	CFD Simulations of Crude Oil Fouling on Heat Transfer Surfaces. , 2018, , .		2
17	Parallel Based Support Vector Regression for Empirical Modeling of Nonlinear Chemical Process Systems. Sains Malaysiana, 2018, 47, 635-643.	0.3	0
18	Pressure modification index based on hydrodynamics and mass transfer effects for modeling of CO 2 removal from natural gas via absorption at high pressures. International Journal of Greenhouse Gas Control, 2017, 56, 173-186.	2.3	6

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19	CFD modelling of shell-side asphaltenes deposition in a shell and tube heat exchanger. AIP Conference Proceedings, 2017, , .	0.3	4
20	Transportation and adhesion of asphaltenes in a heat exchanger tube through CFD simulations. AIP Conference Proceedings, 2017, , .	0.3	2
21	Cause analysis of representative troubles at distillation tower using discriminant analysis. , 2017, , .		0
22	ANALYSIS OF CONSTRAINT MODIFICATION IN MODEL-BASED CONTROL VALVE STICTION COMPENSATION. Jurnal Teknologi (Sciences and Engineering), 2017, 79, .	0.3	2
23	System Identification Based Proxy Model of a Reservoir under Water Injection. Modelling and Simulation in Engineering, 2017, 2017, 1-10.	0.4	4
24	Online Anomaly Detection of Distillation Tower System Using Adaptive Resonance Theory. Journal of Chemical Engineering of Japan, 2017, 50, 430-438.	0.3	6
25	Effect of operating conditions on crude oil fouling through CFD simulations. International Journal of Heat and Technology, 2017, 35, 1034-1044.	0.3	6
26	A Study on the Closed-Loop Performance in Extrapolated Regions of Operations of Nonlinear Systems Using Parallel OBF-NN Models. Journal of Chemical Engineering of Japan, 2016, 49, 176-185.	0.3	0
27	Conceptual Framework for Using System Identification in Reservoir Production Forecasting. Procedia Engineering, 2016, 148, 878-886.	1.2	1
28	An overview on CO 2 removal via absorption: Effect of elevated pressures in counter-current packed column. Journal of Natural Gas Science and Engineering, 2016, 33, 666-677.	2.1	12
29	Effect of Shear Stress on Crude Oil Fouling in a Heat Exchanger Tube Through CFD Simulations. Procedia Engineering, 2016, 148, 1058-1065.	1.2	10
30	Thermal and hydraulic impacts consideration in refinery crude preheat train cleaning scheduling using recent stochastic optimization methods. Applied Thermal Engineering, 2016, 108, 1436-1450.	3.0	23
31	Improved threshold fouling models for crude oils. Energy, 2016, 111, 453-467.	4.5	17
32	Economic Model Predictive Control of Distillation Column. Advanced Science Letters, 2016, 22, 2671-2675.	0.2	0
33	Temperature effects on solubility of asphaltenes in crude oils. Chemical Engineering Research and Design, 2015, 94, 573-583.	2.7	35
34	Tuning Optimal Proportionalâ€“Integralâ€“Derivative Controllers for Desired Closed-Loop Response Using the Method of Moments. Industrial & Engineering Chemistry Research, 2014, 53, 17403-17418.	1.8	7
35	Iterative closed-loop identification of MIMO systems using ARX-based Leaky Least Mean Square Algorithm. , 2014, , .		1
36	Multi-Step Ahead Prediction Analysis for MPC-Relevant Models. Journal of Applied Sciences, 2014, 14, 3063-3069.	0.1	0

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37	Integrated OBF-NN models with enhanced extrapolation capability for nonlinear systems. Journal of Process Control, 2013, 23, 1562-1566.	1.7	3
38	Identification of Nonlinear Systems Using Parallel Laguerre-NN Model. Advanced Materials Research, 2013, 785-786, 1430-1436.	0.3	0
39	Taguchi's parametric design approach for the selection of optimization variables in a refrigerated gas plant. Chemical Engineering Research and Design, 2011, 89, 665-675.	2.7	48
40	Improved method for development of parsimonious orthonormal basis filter models. Journal of Process Control, 2011, 21, 36-45.	1.7	14
41	Closed-loop identification of systems with uncertain time delays using ARXâ€“OBF structure. Journal of Process Control, 2011, 21, 1148-1154.	1.7	23
42	Development of Boxâ€“Jenkins type time series models by combining conventional and orthonormal basis filter approaches. Journal of Process Control, 2010, 20, 108-120.	1.7	9
43	Enhancement of entrainment rates in liquidâ€“gas ejectors. Chemical Engineering and Processing: Process Intensification, 2010, 49, 1128-1135.	1.8	25
44	System Identification using Orthonormal Basis Filters. Journal of Applied Sciences, 2010, 10, 2516-2522.	0.1	12
45	Neural Network based Soft Sensor for Inferential Control of a Binary Distillation Column. Journal of Applied Sciences, 2010, 10, 2558-2564.	0.1	4
46	Crude Oil Fouling: A Review. Journal of Applied Sciences, 2010, 10, 3167-3174.	0.1	47
47	Closed-Loop System Identification using OBF-ARMAX Model. Journal of Applied Sciences, 2010, 10, 3175-3182.	0.1	4
48	Mass optimization of four bar linkage using genetic algorithms with dual bending and buckling constraints. Structural Engineering and Mechanics, 2010, 35, 83-98.	1.0	1
49	Selection of RGP Optimization Variables using Taguchi Method. Journal of Applied Sciences, 2010, 10, 3313-3318.	0.1	2
50	Steady State Modeling and Simulation of the Riser in an Industrial RFCC Unit. Journal of Applied Sciences, 2010, 10, 3207-3214.	0.1	0
51	NLPCA as a diagnostic tool for control valve stiction. Journal of Process Control, 2009, 19, 1368-1376.	1.7	25
52	Quantification Analysis for NLPCA-Based Stiction Diagnostic Tool. , 2009, , .		0
53	Integrated Scheduling and RTO of RGP with MPC and PI Controllers. Journal of Applied Sciences, 2009, 9, 3027-3033.	0.1	0
54	PID controller tuning for desired closed-loop responses for SISO systems using impulse response. Computers and Chemical Engineering, 2008, 32, 1773-1788.	2.0	41

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55	Control relevant system identification using orthonormal basis filters. , 2007, , .		2
56	Development of Heat Exchanger Fouling Model and Preventive Maintenance Diagnostic Tool. Chemical Product and Process Modeling, 2007, 2, .	0.5	4
57	Modeling heat exchanger using neural networks. , 2007, , .		7
58	Heat exchanger fouling model and preventive maintenance scheduling tool. Applied Thermal Engineering, 2007, 27, 2791-2802.	3.0	69
59	Modeling of Grinding in a Laboratory Continuous Ball Mill for Dynamic Studies. Chemical Product and Process Modeling, 2006, 1, .	0.5	2
60	Control of ball mill grinding circuit using model predictive control scheme. Journal of Process Control, 2005, 15, 273-283.	1.7	121
61	Heat Transfer with Chemical Reaction in Wall Heated Packed Bed Reactor. Applied Mechanics and Materials, 0, 625, 722-725.	0.2	3
62	Dynamics of Wall Heated Packed Bed Reactors. Applied Mechanics and Materials, 0, 625, 402-405.	0.2	0
63	A Comparison Study between Integrated OBFARX-NN and OBF-NN for Modeling of Nonlinear Systems in Extended Regions of Operation. Applied Mechanics and Materials, 0, 625, 382-385.	0.2	0
64	Effect of Bulk Temperature on Formation of Crude Oil Fouling Precursors on Heat Transfer Surfaces. Applied Mechanics and Materials, 0, 625, 482-485.	0.2	3
65	Identification of Multi-Input Multi-Output Systems Using Combined Direct and Indirect Methods. Applied Mechanics and Materials, 0, 625, 414-417.	0.2	0
66	Isolation of Interacting Channels in Decentralized Control Systems Using Instrumental Variables Method. Applied Mechanics and Materials, 0, 625, 435-438.	0.2	1
67	Robust and Effective PID Controller Identification for Delay Dominant Systems. Applied Mechanics and Materials, 0, 625, 478-481.	0.2	0
68	Simulation of Hydrodynamics and Reaction Behavior in an Industrial RFCC Riser. Advanced Materials Research, 0, 917, 267-282.	0.3	0
69	Effect of Bulk Temperature and Heating Regime on Crude Oil Fouling: An Analysis. Advanced Materials Research, 0, 917, 189-198.	0.3	10
70	Performance prediction of a reservoir under gas injection, using output error model. Contemporary Engineering Sciences, 0, 9, 1479-1489.	0.2	1