Rajagopalan Srinivasan

List of Publications by Year
in descending order

		81743	143772
214 papers	4,565 citations	39 h-index	57 g-index
224 all docs	224 docs citations	224 times ranked	2737 citing authors

#	Article	IF	Citations
1	An explainable artificial intelligence based approach for interpretation of fault classification results from deep neural networks. Chemical Engineering Science, 2022, 250, 117373.	1.9	13
2	Editorial: Special issue on data analytics in process safety. Chemical Engineering Research and Design, 2022, 159, 625-626.	2.7	2
3	HMM-based models of control room operator's cognition during process abnormalities. 1. Formalism and model identification. Journal of Loss Prevention in the Process Industries, 2022, 76, 104748.	1.7	2
4	HMM-based models of control room operator's cognition during process abnormalities. 2. Application to operator training. Journal of Loss Prevention in the Process Industries, 2022, 76, 104749.	1.7	2
5	Monitoring fouling in heat exchangers under temperature control based on excess thermal and hydraulic loads. Chemical Engineering Research and Design, 2022, 181, 41-54.	2.7	4
6	Review of Virtual Reality (VR) Applications To Enhance Chemical Safety: From Students to Plant Operators. Journal of Chemical Health and Safety, 2022, 29, 246-262.	1.1	9
7	Human factors in digitalized process operations. Methods in Chemical Process Safety, 2022, , 417-459.	0.5	2
8	Critical Assessment of Control Strategies for Industrial Systems with Input–Output Constraints. Industrial & Engineering Chemistry Research, 2022, 61, 11056-11070.	1.8	2
9	Designing a Rectification Strategy for Managing Disruptions in LNG Supply Chain. Computer Aided Chemical Engineering, 2021, , 1787-1793.	0.3	0
10	Evaluating Control Room Operator Training Outcomes Through Eye Gaze Augmented Multi-Scale Data. Computer Aided Chemical Engineering, 2021, 50, 1307-1312.	0.3	8
11	Optimal Procurement of Liquefied Natural Gas Cargos from Long-Term Contracts and Spot Market through Mathematical Programming. Industrial & Engineering Chemistry Research, 2021, 60, 3658-3669.	1.8	5
12	A simple strategy to maximize water-reuse in multistage, multiproduct batch processes. Chemical Engineering Research and Design, 2021, 168, 327-339.	2.7	6
13	Electroencephalography (EEG) based cognitive measures for evaluating the effectiveness of operator training. Chemical Engineering Research and Design, 2021, 150, 51-67.	2.7	25
14	Text mining of accident reports using semi-supervised keyword extraction and topic modeling. Chemical Engineering Research and Design, 2021, 155, 455-465.	2.7	33
15	Metrics for objectively assessing operator training using eye gaze patterns. Chemical Engineering Research and Design, 2021, 156, 508-520.	2.7	14
16	Analysis of Control Room Operators' Competence using Cognitive Engineering Approaches to Improve Process Safety. , 2021, , .		2
17	Dynamic assessment of control room operator's cognitive workload using Electroencephalography (EEG). Computers and Chemical Engineering, 2020, 141, 106726.	2.0	31
18	Effect of Ambient Conditions on Boil Off Gas Generation in LNG regasification terminals. Computer Aided Chemical Engineering, 2019, 46, 445-450.	0.3	2

#	Article	IF	Citations
19	Evaluating the Benefits of LNG Procurement through Spot Market Purchase. Computer Aided Chemical Engineering, 2019, , 1723-1728.	0.3	1
20	Recent developments towards enhancing process safety: Inherent safety and cognitive engineering. Computers and Chemical Engineering, 2019, 128, 364-383.	2.0	42
21	Electroencephalogram based Biomarkers for Tracking the Cognitive Workload of Operators in Process Industries. Computer Aided Chemical Engineering, 2019, 46, 1393-1398.	0.3	2
22	A practical approach to improve alarm system performance: Application to power plant. Chinese Journal of Chemical Engineering, 2019, 27, 1094-1102.	1.7	4
23	Agent-oriented simulation framework for handling disruptions in chemical supply chains. Computers and Chemical Engineering, 2019, 122, 306-325.	2.0	14
24	Enhancement of Energy Efficiency at an Indian Milk Processing Plant Using Exergy Analysis. Green Energy and Technology, 2018, , 425-450.	0.4	7
25	Toward Preventing Accidents in Process Industries by Inferring the Cognitive State of Control Room Operators through Eye Tracking. ACS Sustainable Chemistry and Engineering, 2018, 6, 2517-2528.	3.2	21
26	Simulator based performance metrics to estimate reliability of control room operators. Journal of Loss Prevention in the Process Industries, 2018, 56, 524-530.	1.7	16
27	Simulation and Analysis of Indian Residential Electricity Consumption Using Agent-Based Models. Computer Aided Chemical Engineering, 2018, 43, 205-210.	0.3	1
28	Towards Obviating Human Errors in Real-time through Eye Tracking. Computer Aided Chemical Engineering, 2018, , 1189-1194.	0.3	7
29	Eye Tracking as a Tool to Enhance Operator Learning in Safety Critical Domains. Computer Aided Chemical Engineering, 2018, 44, 2347-2352.	0.3	1
30	Process Fault Detection in Heat Recovery Steam Generator using an Artificial Neural Network Simplification of a Dynamic First Principles Model. Computer Aided Chemical Engineering, 2018, , 2065-2070.	0.3	4
31	Study of water reuse opportunities in a large-scale milk processing plant through process integration. Chemical Engineering Research and Design, 2017, 121, 81-91.	2.7	34
32	Quantifying situation awareness of control room operators using eye-gaze behavior. Computers and Chemical Engineering, 2017, 106, 191-201.	2.0	46
33	Lessons Learnt from Alarm Management in a Combined-Cycle Gas Turbine Power Plant. Computer Aided Chemical Engineering, 2017, 40, 2461-2466.	0.3	2
34	Managing supply chain disruptions: an integrated agent-oriented approach. Computer Aided Chemical Engineering, 2017, , 595-600.	0.3	3
35	Cognitive Behavior Based Framework for Operator Learning: Knowledge and Capability Assessment through Eye Tracking. Computer Aided Chemical Engineering, 2017, 40, 2977-2982.	0.3	4
36	Cognitive Engineering for Process Safety: Effective Training for Process Operators Using Eye Gaze Patterns. Computer Aided Chemical Engineering, 2016, 38, 2043-2048.	0.3	0

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37	Non-intrusive Appliance Load Monitoring for Electrical Energy Systems Simulation and Analysis â€" A case study in India. Computer Aided Chemical Engineering, 2016, 38, 2061-2066.	0.3	1
38	Integrating Production Control and Scheduling in Multisite Enterprises on the Basis of Real-Time Detection of Divergence. Industrial & Engineering Chemistry Research, 2016, 55, 5681-5695.	1.8	1
39	A hybrid CPU-Graphics Processing Unit (GPU) approach for computationally efficient simulation-optimization. Computers and Chemical Engineering, 2016, 87, 49-62.	2.0	11
40	Pupillometry Based Real-Time Monitoring of Operatorâ€™s Cognitive Workload To Prevent Human Error during Abnormal Situations. Industrial & Engineering Chemistry Research, 2016, 55, 3372-3382.	1.8	41
41	Eye gaze movement studies of control room operators: A novel approach to improve process safety. Computers and Chemical Engineering, 2016, 85, 43-57.	2.0	48
42	Fleet sizing in chemical supply chains using agent-based simulation. Computers and Chemical Engineering, 2016, 84, 180-198.	2.0	25
43	Towards predicting human error: Eye gaze analysis for identification of cognitive steps performed by control room operators. Journal of Loss Prevention in the Process Industries, 2016, 42, 35-46.	1.7	21
44	A Novel Experimental Strategy for Validating Human Failure Probabilities in Risk Assessment. Computer Aided Chemical Engineering, 2016, , 1983-1988.	0.3	1
45	Structural Similarities and Differences between Smart Grids and Process Industry Supply Chains: India Case Study. Computer Aided Chemical Engineering, 2015, 37, 2387-2392.	0.3	1
46	Dynamic Simulation-Based Assessment of Supply Chain Sustainability. Computer Aided Chemical Engineering, 2015, 36, 385-399.	0.3	0
47	A novel application of genetic algorithm for synthesizing optimal water reuse network with multiple objectives. Chemical Engineering Research and Design, 2015, 100, 39-56.	2.7	14
48	Special Issue â€" Inventive Design and Systematic Engineering Creativity. Chemical Engineering Research and Design, 2015, 103, 1-2.	2.7	1
49	Integrating Control and Scheduling based on Real-Time Detection of Divergence. Computer Aided Chemical Engineering, 2015, , 1943-1948.	0.3	0
50	An efficient graph theory based method to identify every minimal reaction set in a metabolic network. BMC Systems Biology, 2014, 8, 28.	3.0	13
51	Sustainability trends in the process industries: A text mining-based analysis. Computers in Industry, 2014, 65, 393-400.	5.7	89
52	Implementation of multi agents based system for process supervision in large-scale chemical plants. Computers and Chemical Engineering, 2014, 60, 182-196.	2.0	27
53	Hybrid Model-Based Framework for Alarm Anticipation. Industrial & Engineering Chemistry Research, 2014, 53, 5182-5193.	1.8	9
54	Quantifying the effectiveness of an alarm management system through human factors studies. Computers and Chemical Engineering, 2014, 67, 1-12.	2.0	30

#	Article	IF	Citations
55	Optimal variable selection for effective statistical process monitoring. Computers and Chemical Engineering, 2014, 60, 260-276.	2.0	90
56	International Programming Committee. Computer Aided Chemical Engineering, 2014, 34, xvi-xvii.	0.3	0
57	Preface to PSE-2012 Special Issue. Industrial & Engineering Chemistry Research, 2013, 52, 7045-7046.	1.8	0
58	An inseparability metric to identify a small number of key variables for improved process monitoring. , 2013, , .		0
59	Evaluating the Effectiveness of Anticipatory Alarms for Proactive Process Monitoring. Computer Aided Chemical Engineering, 2013, , 565-570.	0.3	0
60	Mitigating Supply Disruption for a Global Chemical Supply Chain-Application of Agent-based Modeling. Computer Aided Chemical Engineering, 2012, 31, 1070-1074.	0.3	5
61	Developments in inherent safety: A review of the progress during 2001â€"2011 and opportunities ahead. Chemical Engineering Research and Design, 2012, 90, 389-403.	2.7	61
62	An ontology for distributed process supervision of large-scale chemical plants. Computers and Chemical Engineering, 2012, 46, 124-140.	2.0	28
63	Agent-Based Simulation Framework for Public Bus Fleet Electrification Investment Analysis. Computer Aided Chemical Engineering, 2012, , 1226-1230.	0.3	3
64	Potential for Bio-based Chemicals Production in Singapore's Petrochemical Cluster. Computer Aided Chemical Engineering, 2012, , 885-889.	0.3	1
65	Multi-objective Optimization for Integrated Water Network Synthesis. Computer Aided Chemical Engineering, 2012, , 1432-1436.	0.3	1
66	Large-Scale Refinery Crude Oil Scheduling by Integrating Graph Representation and Genetic Algorithm. Industrial & Engineering Chemistry Research, 2012, 51, 5256-5272.	1.8	26
67	An artificial immune system for adaptive fault detection, diagnosis and recovery. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2012, 4, 22-31.	0.7	6
68	Determining distinct clusters in gene expression data using similarity in principal component subspaces. International Journal of Advances in Engineering Sciences and Applied Mathematics, 2012, 4, 41-51.	0.7	0
69	Reconstruction and analysis of a genome-scale metabolic model for Scheffersomyces stipitis. Microbial Cell Factories, 2012, 11, 27.	1.9	53
70	Proactive Alarms Monitoring using Predictive Technologies. Computer Aided Chemical Engineering, 2012, 31, 1537-1541.	0.3	3
71	A Graphic Processing Unit (GPU) Algorithm for Improved Variable Selection in Multivariate Process Monitoring. Computer Aided Chemical Engineering, 2012, , 1532-1536.	0.3	0
72	Negotiation-Based Approach for Order Acceptance in a Multiplant Specialty Chemical Manufacturing Enterprise. Industrial & Engineering Chemistry Research, 2011, 50, 5086-5098.	1.8	10

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73	Immune-System-Inspired Approach to Process Monitoring and Fault Diagnosis. Industrial & Engineering Chemistry Research, 2011, 50, 1637-1651.	1.8	28
74	Hierarchically Distributed Fault Detection and Identification through Dempsterâ€"Shafer Evidence Fusion. Industrial & Engineering Chemistry Research, 2011, 50, 9249-9269.	1.8	11
75	Decision Support for Green Supply Chain Operations by Integrating Dynamic Simulation and LCA Indicators: Diaper Case Study. Environmental Science & Technology, 2011, 45, 10178-10185.	4.6	35
76	Integrating Economic, Environmental and Social Indicators for Sustainable Supply Chains. Computer Aided Chemical Engineering, 2011, , 1220-1224.	0.3	11
77	Agent-based coordination framework for disruption management in a chemical supply chain. Computer Aided Chemical Engineering, 2011, , 1090-1094.	0.3	0
78	Novel genetic algorithm for short-term scheduling of sequence dependent changeovers in multiproduct polymer plants. Computers and Chemical Engineering, 2011, 35, 2945-2959.	2.0	8
79	Graph theory augmented math programming approach to identify minimal reaction sets in metabolic networks. Computers and Chemical Engineering, 2011, 35, 2366-2377.	2.0	4
80	Optimization of image processing parameters for large sets of in-process video microscopy images acquired from batch crystallization processes: Integration of uniform design and simplex search. Chemometrics and Intelligent Laboratory Systems, 2011, 107, 290-302.	1.8	16
81	Evaluation of decision fusion strategies for effective collaboration among heterogeneous fault diagnostic methods. Computers and Chemical Engineering, 2011, 35, 342-355.	2.0	58
82	A knowledge-based simulation-optimization framework and system for sustainable process operations. Computers and Chemical Engineering, 2011, 35, 92-105.	2.0	19
83	A combined heuristic and indicator-based methodology for design of sustainable chemical process plants. Computers and Chemical Engineering, 2011, 35, 1343-1358.	2.0	24
84	Sequential methodology for integrated optimization of energy and water use during batch process scheduling. Computers and Chemical Engineering, 2011, 35, 1575-1597.	2.0	41
85	Integrating Graph-based Representation and Genetic Algorithm for Large-Scale Optimization: Refinery Crude Oil Scheduling. Computer Aided Chemical Engineering, 2011, 29, 567-571.	0.3	3
86	An evaluation of a hierarchical multi agent based process monitoring system for chemical plants. , 2011, , .		0
87	Graph Theory Augmented Recursive MILP Approach for Identifying Multiple Minimal Reaction Sets in Metabolic Networks. Computer Aided Chemical Engineering, 2011, 29, 1441-1445.	0.3	0
88	Recipe determination and scheduling of gasoline blending operations. AICHE Journal, 2010, 56, 441-465.	1.8	41
89	Simulation-Optimization for Business Decision Support in a Global Specialty Chemicals Enterprise. Computer Aided Chemical Engineering, 2010, 28, 133-138.	0.3	1
90	Analysis of the heat shock response in mouse liver reveals transcriptional dependence on the nuclear receptor peroxisome proliferator-activated receptor Î± (PPARÎ±). BMC Genomics, 2010, 11, 16.	1.2	38

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91	Multi-model based process condition monitoring of offshore oil and gas production process. Chemical Engineering Research and Design, 2010, 88, 572-591.	2.7	50
92	Performance analysis of a multi-plant specialty chemical manufacturing enterprise using an agent-based model. Computers and Chemical Engineering, 2010, 34, 793-801.	2.0	24
93	Efficient bulk maritime logistics for the supply and delivery of multiple chemicals. Computers and Chemical Engineering, 2010, 34, 2118-2128.	2.0	26
94	Multi-agent based collaborative fault detection and identification in chemical processes. Engineering Applications of Artificial Intelligence, 2010, 23, 934-949.	4.3	56
95	Green Supply Chain Design and Operation by Integrating LCA and Dynamic Simulation. Computer Aided Chemical Engineering, 2010, , 109-114.	0.3	18
96	Simulation-based business decision support for multi-site supply chain management. , 2010, , .		0
97	Decentralized vs. centralized management of abnormal situations in a multi-plant enterprise using an agent-based approach. Computer Aided Chemical Engineering, 2010, , 1219-1224.	0.3	3
98	Dynamic Simulation and Decision Support for Multisite Specialty Chemicals Supply Chain. Industrial & Engineering Chemistry Research, 2010, 49, 9917-9931.	1.8	21
99	Data-Driven Soft Sensor Approach for Quality Prediction in a Refining Process. IEEE Transactions on Industrial Informatics, 2010, 6, 11-17.	7.2	165
100	Decision fusion in distributed multi agent process supervisory system. , 2010, , .		2
101	Dynamic modeling of a multi-site specialty chemical manufacturing supply chain. , 2009, , .		2
102	Abnormal Situation Management in a Refinery Supply Chain Supported by an Agent-Based Simulation Model. Computer Aided Chemical Engineering, 2009, , 2097-2102.	0.3	6
103	Eliminating the Effect of Multivariate Outliers in PLS-Based Models for Inferring Process Quality. Computer Aided Chemical Engineering, 2009, 26, 755-760.	0.3	5
104	Collaborative Multi - Agent based Process Monitoring System for Offshore Oil and Gas Production. Computer Aided Chemical Engineering, 2009, 27, 1227-1232.	0.3	2
105	Multi-Period Continuous-Time Formulation for Integrated Scheduling, Blending, and Distribution of Refinery Products. Computer Aided Chemical Engineering, 2009, 27, 1563-1568.	0.3	2
106	NIFTI: An evolutionary approach for finding number of clusters in microarray data. BMC Bioinformatics, 2009, 10, 40.	1.2	8
107	Supply chain risk identification using a HAZOPâ€based approach. AICHE Journal, 2009, 55, 1447-1463.	1.8	48
108	Quantitative identification of teratoma tissues formed by human embryonic stem cells with TeratomEye. Biotechnology Letters, 2009, 31, 653-658.	1.1	6

#	Article	IF	Citations
109	In situ particle size estimation for crystallization processes by multivariate image analysis. Chemical Engineering Science, 2009, 64, 9-19.	1.9	64
110	Critical evaluation of image processing approaches for real-time crystal size measurements. Computers and Chemical Engineering, 2009, 33, 1022-1035.	2.0	39
111	Multi-model based real-time final product quality control strategy for batch processes. Computers and Chemical Engineering, 2009, 33, 992-1003.	2.0	16
112	An adjoined multi-model approach for monitoring batch and transient operations. Computers and Chemical Engineering, 2009, 33, 887-902.	2.0	64
113	Critical evaluation of paradigms for modelling integrated supply chains. Computers and Chemical Engineering, 2009, 33, 1711-1726.	2.0	35
114	From PSE to PSE2â€"Decision support for resilient enterprises. Computers and Chemical Engineering, 2009, 33, 1939-1949.	2.0	16
115	Robustness Measures for Operation Schedules Subject to Disruptions. Industrial & Engineering Chemistry Research, 2009, 48, 9204-9214.	1.8	5
116	Supply Chain Redesignâ€"Multimodal Optimization Using a Hybrid Evolutionary Algorithm. Industrial & Engineering Chemistry Research, 2009, 48, 11094-11107.	1.8	12
117	Agent-based modeling to support operations management in a multi-plant enterprise. , 2009, , .		6
118	Strategy for Validating a Population Balance Model of a Batch Crystallization Process Using Particle Size Distribution from Image-based Sensor. Computer Aided Chemical Engineering, 2009, , 833-837.	0.3	1
119	Sequential Methodology for Scheduling of Heat-Integrated Batch Plants. Industrial & Engineering Chemistry Research, 2009, 48, 8551-8565.	1.8	41
120	Agent based model for performance analysis of a global chemical supply chain during normal and abnormal situations. Computer Aided Chemical Engineering, 2009, , 979-984.	0.3	6
121	Design of Sustainable Batch Processes Through Simultaneous Minimization of Process Waste, Cleaning Agent and Energy. Computer Aided Chemical Engineering, 2009, , 801-806.	0.3	3
122	Sustainability Analysis of Chemical Processes Plants Using a Hybrid Heuristic and Indicator Model. Computer Aided Chemical Engineering, 2009, , 837-842.	0.3	1
123	Agent-based decision support for failure-prone networked infrastructures. International Journal of Critical Infrastructures, 2009, 5, 323.	0.1	4
124	An intelligent system for green process design. International Journal of Environment and Sustainable Development, 2009, 8, 1.	0.2	4
125	A Graph Theory Augmented Math Programming Approach to Identify Genetic Targets for Strain Improvement. Computer Aided Chemical Engineering, 2009, 26, 1051-1055.	0.3	0
126	Efficient Bulk Maritime Logistics for the Supply and Delivery of Multiple Chemicals. Computer Aided Chemical Engineering, 2009, 27, 1977-1982.	0.3	0

#	Article	IF	Citations
127	Data Mining for the Chemical Process Industry. , 2009, , 458-464.		3
128	A statistical approach for evaluating inherent benign-ness of chemical process routes in early design stages. Chemical Engineering Research and Design, 2008, 86, 163-174.	2.7	93
129	Online monitoring of multi-phase batch processes using phase-based multivariate statistical process control. Computers and Chemical Engineering, 2008, 32, 230-243.	2.0	94
130	Decision support for integrated refinery supply chains. Computers and Chemical Engineering, 2008, 32, 2767-2786.	2.0	70
131	Decision support for integrated refinery supply chains. Computers and Chemical Engineering, 2008, 32, 2787-2800.	2.0	47
132	Supply chain redesign through optimal asset management and capital budgeting. Computers and Chemical Engineering, 2008, 32, 3153-3169.	2.0	32
133	Designing sustainable alternatives for batch operations using an intelligent simulationâ€"optimization framework. Chemical Engineering Research and Design, 2008, 86, 809-822.	2.7	26
134	Principal components analysis based methodology to identify differentially expressed genes in time-course microarray data. BMC Bioinformatics, 2008, 9, 267.	1.2	28
135	Agent-based simulation of a specialty chemicals supply chain. , 2008, , .		5
136	Nuances of benchmarking agent-based and equation-based models of an oil refinery supply chain. , 2008, , .		2
137	Multi-objective scheduling for environmentally-friendly batch operations. Computer Aided Chemical Engineering, 2008, 25, 847-852.	0.3	3
138	Multivariate Temporal Data Analysis Using Self-Organizing Maps. 2. Monitoring and Diagnosis of Multistate Operations. Industrial & Engineering Chemistry Research, 2008, 47, 7758-7771.	1.8	23
139	Selection of Third-Party Service Contracts for Chemical Logistics. Industrial & Engineering Chemistry Research, 2008, 47, 8301-8316.	1.8	6
140	Multivariate Temporal Data Analysis Using Self-Organizing Maps. 1. Training Methodology for Effective Visualization of Multistate Operations. Industrial & Engineering Chemistry Research, 2008, 47, 7744-7757.	1.8	21
141	Visual exploration of multi-state operations using self-organizing map. Computer Aided Chemical Engineering, 2008, 25, 1015-1020.	0.3	0
142	Benchmarking numerical and agent-based models of an oil refinery supply chain. Computer Aided Chemical Engineering, 2008, , 623-628.	0.3	11
143	Practical challenges in developing data-driven soft sensors for quality prediction. Computer Aided Chemical Engineering, 2008, , 961-966.	0.3	7
144	Supply chain risk management through HAZOP and dynamic simulation. Computer Aided Chemical Engineering, 2008, , 37-42.	0.3	6

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145	State-specific Key Variables for Monitoring Multi-state Processes. Chemical Engineering Research and Design, 2007, 85, 1630-1644.	2.7	5
146	Optimal supply chain redesign using genetic algorithm. Computer Aided Chemical Engineering, 2007, 24, 703-708.	0.3	1
147	A novel CDU model for refinery planning. Asia-Pacific Journal of Chemical Engineering, 2007, 2, 282-293.	0.8	8
148	A PCA-Based approach for gene target selection to improve industrial strains. Computer Aided Chemical Engineering, 2007, , 1013-1018.	0.3	1
149	Detection of phase shifts in batch fermentation via statistical analysis of the online measurements: A case study with rifamycin B fermentation. Journal of Biotechnology, 2007, 132, 156-166.	1.9	31
150	Online Temporal Signal Comparison Using Singular Points Augmented Time Warping. Industrial & Engineering Chemistry Research, 2007, 46, 4531-4548.	1.8	21
151	Optimal Contract Selection for the Global Supply and Distribution of Raw Materials. Industrial & Engineering Chemistry Research, 2007, 46, 6522-6539.	1.8	24
152	Heuristic rescheduling of crude oil operations to manage abnormal supply chain events. AICHE Journal, 2007, 53, 397-422.	1.8	48
153	Improving the robustness and efficiency of crude scheduling algorithms. AICHE Journal, 2007, 53, 2659-2680.	1.8	78
154	A model-based rescheduling framework for managing abnormal supply chain events. Computers and Chemical Engineering, 2007, 31, 496-518.	2.0	62
155	State-Specific Key Variables for Monitoring Multi-State Processes. Chemical Engineering Research and Design, 2007, 85, 1630-1644.	2.7	17
156	Artificial intelligence methodologies for agile refining: an overview. Knowledge and Information Systems, 2007, 12, 129-145.	2.1	16
157	Asset Management in and Redesign of Chemical Supply Chains. , 2006, , .		0
158	Systematic Waste Minimization in Chemical Processes. 3. Batch Operations. Industrial & Engineering Chemistry Research, 2006, 45, 4693-4705.	1.8	16
159	Business decision making in the chemical industry: PSE opportunities. Computer Aided Chemical Engineering, 2006, 21, 107-117.	0.3	2
160	Refinery planning under correlated and truncated price and demand uncertainties. Computer Aided Chemical Engineering, 2006, 21, 2123-2128.	0.3	1
161	AN ADJOINED MULTI-DPCA APPROACH FOR ONLINE MONITORING OF FED-BATCH PROCESSES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 279-284.	0.4	3
162	An integrated model for planning in global chemical supply chains. Computer Aided Chemical Engineering, 2006, , 2189-2194.	0.3	3

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163	Online fault diagnosis and state identification during process transitions using dynamic locus analysis. Chemical Engineering Science, 2006, 61, 6109-6132.	1.9	47
164	Application of the TRIZ creativity enhancement approach to design of inherently safer chemical processes. Chemical Engineering and Processing: Process Intensification, 2006, 45, 507-514.	1.8	52
165	Real-time imaging and product quality characterization for control of particulate processes. Computer Aided Chemical Engineering, 2006, , 775-780.	0.3	6
166	Online prediction of end-of-batch product quality using phase-specific PLS models. Computer Aided Chemical Engineering, 2006, 21, 1257-1262.	0.3	0
167	Supporting waste minimization studies by integrating expert system with process simulators. Computer Aided Chemical Engineering, 2006, , 1003-1007.	0.3	2
168	Data-driven Soft Sensor Approach For Quality Prediction in a Refinery Process. , 2006, , .		5
169	Transition Classification and Performance Analysis: A Study on Industrial Hydro-cracker. , 2006, , .		1
170	Evaluating Refinery Supply Chain Policies and Investment Decisions Through Simulation-Optimization. , 2006, , .		0
171	A Multi-Agent Approach to Supply Chain Management in the Chemical Industry. Studies in Computational Intelligence, 2006, , 419-450.	0.7	4
172	Design synthesis for simultaneous waste source reduction and recycling analysis in batch processes. Computer Aided Chemical Engineering, 2005, , 1513-1518.	0.3	1
173	A framework for managing transitions in chemical plants. Computers and Chemical Engineering, 2005, 29, 305-322.	2.0	38
174	Neural network systems for multi-dimensional temporal pattern classification. Computers and Chemical Engineering, 2005, 29, 965-981.	2.0	21
175	Context-based recognition of process states using neural networks. Chemical Engineering Science, 2005, 60, 935-949.	1.9	17
176	Off-line Temporal Signal Comparison Using Singular Points Augmented Time Warping. Industrial & Engineering Chemistry Research, 2005, 44, 4697-4716.	1.8	25
177	Using the OPC Standard for Real-Time Process Monitoring and Control. IEEE Software, 2005, 22, 54-59.	2.1	23
178	An online decision support framework for managing abnormal supply chain events. Computer Aided Chemical Engineering, 2005, , 985-990.	0.3	24
179	A Bayesian Approach for Integrating Transcription Regulation and Gene Expression: Application to Saccharomyces Cerevisiae Cell Cycle Data. , 2005, , 178-187.		0
180	Novel solution approach for optimizing crude oil operations. AICHE Journal, 2004, 50, 1177-1197.	1.8	111

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181	Selection of inherently safer process routes: a case study. Chemical Engineering and Processing: Process Intensification, 2004, 43, 641-647.	1.8	58
182	A new continuous-time formulation for scheduling crude oil operations. Chemical Engineering Science, 2004, 59, 1325-1341.	1.9	120
183	Dynamic Principal Component Analysis Based Methodology for Clustering Process States in Agile Chemical Plants. Industrial & Engineering Chemistry Research, 2004, 43, 2123-2139.	1.8	75
184	Multi-linear model-based fault detection during process transitions. Chemical Engineering Science, 2003, 58, 1649-1670.	1.9	60
185	Monitoring transitions in chemical plants using enhanced trend analysis. Computers and Chemical Engineering, 2003, 27, 1455-1472.	2.0	48
186	Phase-based supervisory control for fermentation process development. Journal of Process Control, 2003, 13, 367-382.	1.7	45
187	Fault detection during process transitions: a model-based approach. Chemical Engineering Science, 2003, 58, 309-325.	1.9	29
188	The intelligent alarm management system. IEEE Software, 2003, 20, 66-71.	2.1	27
189	Short-term scheduling of refinery operations from unloading crudes to distillation. Computer Aided Chemical Engineering, 2003, 15, 304-309.	0.3	3
190	A decision support database for inherently safer design. Computer Aided Chemical Engineering, 2003, , 287-292.	0.3	2
191	Enhancing process control education using a web-based interactive multimedia environment. Computer Aided Chemical Engineering, 2003, , 1478-1483.	0.3	3
192	Agent-based Refinery Supply Chain Management. Computer Aided Chemical Engineering, 2002, , 895-900.	0.3	5
193	Expert System for the Design of Inherently Safer Processes. 1. Route Selection Stage. Industrial & Engineering Chemistry Research, 2002, 41, 6698-6710.	1.8	77
194	Systematic Waste Minimization in Chemical Processes. 1. Methodology. Industrial & Engineering Chemistry Research, 2002, 41, 196-207.	1.8	44
195	Systematic Waste Minimization in Chemical Processes. 2. Intelligent Decision Support System. Industrial & Engineering Chemistry Research, 2002, 41, 208-219.	1.8	26
196	Integrated Decision Support System for Waste Minimization Analysis in Chemical Processes. Environmental Science & Technology, 2002, 36, 1640-1648.	4.6	16
197	Expert System for the Design of Inherently Safer Processes. 2. Flowsheet Development Stage. Industrial & Engineering Chemistry Research, 2002, 41, 6711-6722.	1.8	62
198	A material-centric methodology for developing inherently safer environmentally benign processes. Computers and Chemical Engineering, 2002, 26, 757-774.	2.0	21

#	Article	IF	Citations
199	Agent-based supply chain managementâ€"1: framework. Computers and Chemical Engineering, 2002, 26, 1755-1769.	2.0	182
200	Agent-based supply chain managementâ€"2: a refinery application. Computers and Chemical Engineering, 2002, 26, 1771-1781.	2.0	111
201	An integrated methodology for developing inherently safer and environmentally benign processes. Computer Aided Chemical Engineering, 2001, 9, 1145-1150.	0.3	1
202	Automatic Rule Generation for Supervision of Fermentation Processes. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2001, 34, 149-154.	0.4	1
203	An intelligent system for identifying waste minimization opportunities in chemical processes. Computer Aided Chemical Engineering, 2000, 8, 829-834.	0.3	1
204	Safety verification using a hybrid knowledge-based mathematical programming framework. AICHE Journal, 1998, 44, 361-371.	1.8	13
205	Automating HAZOP analysis of batch chemical plants. Computers and Chemical Engineering, 1998, 22, 1345-1355.	2.0	58
206	Automating HAZOP analysis of batch chemical plants. Computers and Chemical Engineering, 1998, 22, 1357-1370.	2.0	40
207	Multi-perspective models for process hazards analysis of large scale chemical processes. Computers and Chemical Engineering, 1998, 22, S961-S964.	2.0	18
208	Automating operating procedure synthesis for batch processes. Computers and Chemical Engineering, 1998, 22, 1673-1685.	2.0	56
209	Automating operating procedure synthesis for batch processes. Computers and Chemical Engineering, 1998, 22, 1687-1698.	2.0	25
210	Integrating Knowledge-Based and Mathematical Programming Approaches for Process Safety Verification. Computers and Chemical Engineering, 1997, 21, S905-S910.	2.0	1
211	Petri net-Digraph models for automating HAZOP analysis of batch process plants. Computers and Chemical Engineering, 1996, 20, S719-S725.	2.0	33
212	On-Line Process Monitoring and Fault Isolation Using PCA. , 0, , .		2
213	How to Handle Disruptions in Supply Chains â€" An Integrated Framework and a Review of Literature. SSRN Electronic Journal, 0, , .	0.4	15
214	Synthesis of an Optimal Schedule and Water Network for a Multipurpose Multiproduct Textile Industry through a Sequential MILP-NLP Technique. Industrial & Engineering Chemistry Research, 0, , .	1.8	3