

# Zhengjiang Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

43  
papers

484  
citations

840776

11  
h-index

713466

21  
g-index

43  
all docs

43  
docs citations

43  
times ranked

378  
citing authors

#	ARTICLE	IF	CITATIONS
1	Binary-coded extremal optimization for the design of PID controllers. <i>Neurocomputing</i> , 2014, 138, 180-188.	5.9	78
2	Quasi-weighted least squares estimator for data reconciliation. <i>Computers and Chemical Engineering</i> , 2010, 34, 154-162.	3.8	42
3	Simultaneous data reconciliation and gross error detection for dynamic systems using particle filter and measurement test. <i>Computers and Chemical Engineering</i> , 2014, 69, 66-74.	3.8	35
4	Correntropy based data reconciliation and gross error detection and identification for nonlinear dynamic processes. <i>Computers and Chemical Engineering</i> , 2015, 75, 120-134.	3.8	35
5	Ensemble local kernel learning for online prediction of distributed product outputs in chemical processes. <i>Chemical Engineering Science</i> , 2015, 137, 140-151.	3.8	33
6	Robust particle filter for state estimation using measurements with different types of gross errors. <i>ISA Transactions</i> , 2017, 69, 281-295.	5.7	26
7	Fault detection and diagnosis based on particle filters combined with interactive multiple-model estimation in dynamic process systems. <i>ISA Transactions</i> , 2019, 85, 247-261.	5.7	26
8	Methodology of data reconciliation and parameter estimation for process systems with multi-operating conditions. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2014, 137, 110-119.	3.5	16
9	Robust extended Kalman filter based state estimation for nonlinear dynamic processes with measurements corrupted by gross errors. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 106, 20-33.	5.3	16
10	Dynamic Data Reconciliation for Enhancing Performance of Minimum Variance Control in Univariate and Multivariate Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , 2016, 55, 10990-11002.	3.7	13
11	Finite-time prescribed performance control of switched nonlinear systems with input quantisation. <i>International Journal of Systems Science</i> , 2021, 52, 857-873.	5.5	12
12	Convergence Depth Control for Process System Optimization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2007, 46, 7729-7738.	3.7	11
13	Mnemonic Enhancement Optimization (MEO) for Real-Time Optimization of Industrial Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , 2009, 48, 499-509.	3.7	10
14	Event-triggered Control for Switched Affine Linear Systems. <i>International Journal of Control, Automation and Systems</i> , 2020, 18, 2867-2878.	2.7	10
15	Elman Neural Networks Combined with Extended Kalman Filters for Data-Driven Dynamic Data Reconciliation in Nonlinear Dynamic Process Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 15219-15235.	3.7	10
16	Particle filter-based robust state and parameter estimation for nonlinear process systems with variable parameters. <i>Measurement Science and Technology</i> , 2017, 28, 065003.	2.6	9
17	Enhancing performance of generalized minimum variance control via dynamic data reconciliation. <i>Journal of the Franklin Institute</i> , 2019, 356, 8829-8854.	3.4	9
18	Finite-time stabilization of a class of upper-triangular switched nonlinear systems. <i>Journal of the Franklin Institute</i> , 2019, 356, 3398-3418.	3.4	9

#	ARTICLE	IF	CITATIONS
19	Dynamic data reconciliation to improve the result of controller performance assessment based on GMVC. ISA Transactions, 2021, 117, 288-302.	5.7	9
20	Dynamic Data Reconciliation to Decrease the Effect of Measurement Noise on Controller Performance Assessment. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 714-722.	1.4	8
21	Correntropy based data reconciliation and gross error detection for bilinear systems. Chemical Engineering Science, 2020, 212, 115327.	3.8	7
22	Accurate Position Estimation of Mobile Robot Based on Cyber-Physical-Social Systems (CPSS). IEEE Access, 2020, 8, 56359-56370.	4.2	7
23	Dynamic data reconciliation to enhance the performance of feedforward/feedback control systems with measurement noise. Journal of Process Control, 2021, 108, 12-24.	3.3	7
24	Programming Strategies of Sequential Incremental-Scale Subproblems for Large Scale Data Reconciliation and Parameter Estimation with Multi-Operational Conditions. Industrial & Engineering Chemistry Research, 2015, 54, 5697-5709.	3.7	6
25	Using clustering based logical equation set to decompose large scale chemical processes for parallel solving data reconciliation and parameter estimation problem. Chemical Engineering Research and Design, 2017, 120, 396-409.	5.6	6
26	Correntropy-based parameter estimation for photovoltaic array model considering partial shading condition. IET Renewable Power Generation, 2019, 13, 1309-1316.	3.1	6
27	An Improved Real-Coded Population-Based Extremal Optimization Method for Continuous Unconstrained Optimization Problems. Mathematical Problems in Engineering, 2014, 2014, 1-9.	1.1	5
28	Using hidden Markov model to identify oscillation temporal pattern for control loops. Chemical Engineering Research and Design, 2017, 119, 117-129.	5.6	5
29	Design of fractional order PID controller based on minimum variance control and application of dynamic data reconciliation for improving control performance. ISA Transactions, 2023, 133, 91-101.	5.7	5
30	Pervasive Knowledge Discovery by Just-in-Time Learning to Solve Simultaneous Data Reconciliation and Parameter Estimation of Industrial Processes. Industrial & Engineering Chemistry Research, 2014, 53, 10194-10205.	3.7	4
31	Generalized Parameter Estimation Method for Model-Based Real-Time Optimization. Chemical Engineering Science, 2022, 258, 117754.	3.8	3
32	Finite-time boundedness of two-dimensional positive continuous-discrete systems in Roesser model. Transactions of the Institute of Measurement and Control, 2021, 43, 1452-1463.	1.7	2
33	Unscented Kalman Filter-Based Robust State and Parameter Estimation for Free Radical Polymerization of Styrene with Variable Parameters. Polymers, 2022, 14, 973.	4.5	2
34	Fault isolation based on Bayesian fused lasso. , 2017, , .		1
35	Valve stiction detection using the bootstrap Hammerstein system identification. , 2017, , .		1
36	Sequential sub-problem programming strategies for data reconciliation and parameter estimation with multiple data sets. , 2010, , .		0

#	ARTICLE	IF	CITATIONS
37	Application of Petri net based deadlock prevention method to a real spectacles production system. , 2011, , .		0
38	Implementation of 4-axis stepper motor control system based on TC5540. , 2011, , .		0
39	Methodology of multi-group particle filter for robust state estimation in nonlinear dynamic process systems. , 2016, , .		0
40	Optimal design of H <sub>2</sub> /H <sub>∞</sub> based robust PID controller by constrained extremal optimization and differential evolution. , 2017, , .		0
41	A Photovoltaic MPPT Method Based on Mnemonic Enhancement Optimization with the Use of Past Experience Data. , 2021, , .		0
42	The effect of model fidelity on performance of data reconciliation. , 2012, , .		0
43	Robust Parameter Estimation for Photovoltaic Array Model under Partial Shading Condition. IEEJ Transactions on Electrical and Electronic Engineering, 0, , .	1.4	0