# Zhengjiang Zhang

List of Publications by Year
in descending order

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Version: 2024-02-01

| 43 | 484 | 840776 11 | 713466 21 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 43 | 43 | 43 | 378 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | 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 |
| 3 | Generalized Parameter Estimation Method for Model-Based Realâ€Time Optimization. Chemical Engineering Science, 2022, 258, 117754. | 3.8 | 3 |
| 4 | Finite-time prescribed performance control of switched nonlinear systems with input quantisation. International Journal of Systems Science, 2021, 52, 857-873. | 5.5 | 12 |
| 5 | A Photovoltaic MPPT Method Based on Mnemonic Enhancement Optimization with the Use of Past Experience Data. , 2021, , . | | 0 |
| 6 | Dynamic data reconciliation to improve the result of controller performance assessment based on GMVC. ISA Transactions, 2021, 117, 288-302. | 5.7 | 9 |
| 7 | Elman Neural Networks Combined with Extended Kalman Filters for Data-Driven Dynamic Data Reconciliation in Nonlinear Dynamic Process Systems. Industrial & Engineering Chemistry Research, 2021, 60, 15219-15235. | 3.7 | 10 |
| 8 | 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 |
| 9 | 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 |
| 10 | Robust extended Kalman filter based state estimation for nonlinear dynamic processes with measurements corrupted by gross errors. Journal of the Taiwan Institute of Chemical Engineers, 2020, 106, 20-33. | 5.3 | 16 |
| 11 | Correntropy based data reconciliation and gross error detection for bilinear systems. Chemical Engineering Science, 2020, 212, 115327. | 3.8 | 7 |
| 12 | Event-triggered Control for Switched Affine Linear Systems. International Journal of Control, Automation and Systems, 2020, 18, 2867-2878. | 2.7 | 10 |
| 13 | 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 |
| 14 | Accurate Position Estimation of Mobile Robot Based on Cyber-Physical-Social Systems (CPSS). IEEE Access, 2020, 8, 56359-56370. | 4.2 | 7 |
| 15 | Correntropyâ€based parameter estimation for photovoltaic array model considering partial shading condition. IET Renewable Power Generation, 2019, 13, 1309-1316. | 3.1 | 6 |
| 16 | Enhancing performance of generalized minimum variance control via dynamic data reconciliation. Journal of the Franklin Institute, 2019, 356, 8829-8854. | 3.4 | 9 |
| 17 | Finite-time stabilization of a class of upper-triangular switched nonlinear systems. Journal of the Franklin Institute, 2019, 356, 3398-3418. | 3.4 | 9 |
| 18 | Fault detection and diagnosis based on particle filters combined with interactive multiple-model estimation in dynamic process systems. ISA Transactions, 2019, 85, 247-261. | 5.7 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Using hidden Markov model to identify oscillation temporal pattern for control loops. Chemical Engineering Research and Design, 2017, 119, 117-129. | 5.6 | 5 |
| 20 | 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 |
| 21 | Particle filter-based robust state and parameter estimation for nonlinear process systems with variable parameters. Measurement Science and Technology, 2017, 28, 065003. | 2.6 | 9 |
| 22 | Robust particle filter for state estimation using measurements with different types of gross errors. ISA Transactions, 2017, 69, 281-295. | 5.7 | 26 |
| 23 | Fault isolation based on Bayesian fused lasso. , 2017, , . | | 1 |
| 24 | Valve stiction detection using the bootstrap Hammerstein system identification. , 2017, , . | | 1 |
| 25 | Optimal design of H<inf>2</inf>/H<inf>â^ž</inf> based robust PID controller by constrained extremal optimization and differential evolution. , 2017, , . | | 0 |
| 26 | Methodology of multi-group particle filter for robust state estimation in nonlinear dynamic process systems. , 2016, , . | | 0 |
| 27 | Dynamic Data Reconciliation for Enhancing Performance of Minimum Variance Control in Univariate and Multivariate Systems. Industrial & Engineering Chemistry Research, 2016, 55, 10990-11002. | 3.7 | 13 |
| 28 | Correntropy based data reconciliation and gross error detection and identification for nonlinear dynamic processes. Computers and Chemical Engineering, 2015, 75, 120-134. | 3.8 | 35 |
| 29 | Ensemble local kernel learning for online prediction of distributed product outputs in chemical processes. Chemical Engineering Science, 2015, 137, 140-151. | 3.8 | 33 |
| 30 | 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 |
| 31 | 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 |
| 32 | Binary-coded extremal optimization for the design of PID controllers. Neurocomputing, 2014, 138, 180-188. | 5.9 | 78 |
| 33 | Methodology of data reconciliation and parameter estimation for process systems with multi-operating conditions. Chemometrics and Intelligent Laboratory Systems, 2014, 137, 110-119. | 3.5 | 16 |
| 34 | Simultaneous data reconciliation and gross error detection for dynamic systems using particle filter and measurement test. Computers and Chemical Engineering, 2014, 69, 66-74. | 3.8 | 35 |
| 35 | 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 |
| 36 | The effect of model fidelity on performance of data reconciliation. , 2012, , . | | 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 | Quasi-weighted least squares estimator for data reconciliation. Computers and Chemical Engineering, 2010, 34, 154-162. | 3.8 | 42 |
| 40 | Sequential sub-problem programming strategies for data reconciliation and parameter estimation with multiple data sets. , 2010, , . | | 0 |
| 41 | Mnemonic Enhancement Optimization (MEO) for Real-Time Optimization of Industrial Processes. Industrial & Engineering Chemistry Research, 2009, 48, 499-509. | 3.7 | 10 |
| 42 | Convergence Depth Control for Process System Optimization. Industrial & Engineering Chemistry Research, 2007, 46, 7729-7738. | 3.7 | 11 |
| 43 | Robust Parameter Estimation for Photovoltaic Array Model under Partial Shading Condition. IEEJ Transactions on Electrical and Electronic Engineering, 0, , . | 1.4 | 0 |