

# Ye Yuan

## List of Publications by Year in descending order

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84  
papers

3,550  
citations

279701

23  
h-index

161767

54  
g-index

89  
all docs

89  
docs citations

89  
times ranked

5010  
citing authors

#	ARTICLE	IF	CITATIONS
1	An interpretable mortality prediction model for COVID-19 patients. <i>Nature Machine Intelligence</i> , 2020, 2, 283-288.	8.3	686
2	A survey of distributed optimization. <i>Annual Reviews in Control</i> , 2019, 47, 278-305.	4.4	427
3	Remaining useful life prediction of lithium-ion batteries based on false nearest neighbors and a hybrid neural network. <i>Applied Energy</i> , 2019, 253, 113626.	5.1	208
4	Wasserstein distance based deep adversarial transfer learning for intelligent fault diagnosis with unlabeled or insufficient labeled data. <i>Neurocomputing</i> , 2020, 409, 35-45.	3.5	156
5	Trojan Horse nanotheranostics with dual transformability and multifunctionality for highly effective cancer treatment. <i>Nature Communications</i> , 2018, 9, 3653.	5.8	153
6	A Deep Learning-Based Remaining Useful Life Prediction Approach for Bearings. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 1243-1254.	3.7	127
7	Data driven discovery of cyber physical systems. <i>Nature Communications</i> , 2019, 10, 4894.	5.8	118
8	Robust dynamical network structure reconstruction. <i>Automatica</i> , 2011, 47, 1230-1235.	3.0	110
9	Automatic multilabel electrocardiogram diagnosis of heart rhythm or conduction abnormalities with deep learning: a cohort study. <i>The Lancet Digital Health</i> , 2020, 2, e348-e357.	5.9	103
10	A general end-to-end diagnosis framework for manufacturing systems. <i>National Science Review</i> , 2020, 7, 418-429.	4.6	98
11	A Sparse Bayesian Approach to the Identification of Nonlinear State-Space Systems. <i>IEEE Transactions on Automatic Control</i> , 2016, 61, 182-187.	3.6	94
12	On Identification of Distribution Grids. <i>IEEE Transactions on Control of Network Systems</i> , 2019, 6, 950-960.	2.4	80
13	Bayesian Learning-Based Model-Predictive Vibration Control for Thin-Walled Workpiece Machining Processes. <i>IEEE/ASME Transactions on Mechatronics</i> , 2017, 22, 509-520.	3.7	79
14	State of AI-Based Monitoring in Smart Manufacturing and Introduction to Focused Section. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2143-2154.	3.7	69
15	Bayesian Learning-Based Harmonic State Estimation in Distribution Systems With Smart Meter and DPMU Data. <i>IEEE Transactions on Smart Grid</i> , 2020, 11, 832-845.	6.2	65
16	Robust Stability Analysis of Active Voltage Control for High-power IGBT Switching by Kharitonov's Theorem. <i>IEEE Transactions on Power Electronics</i> , 2016, 31, 2584-2595.	5.4	40
17	Online fault diagnosis for nonlinear power systems. <i>Automatica</i> , 2015, 55, 27-36.	3.0	36
18	Event detection and localization in distribution grids with phasor measurement units. , 2017, , .		36

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19	How Can Online Schedules Improve Communication and Estimation Tradeoff?. IEEE Transactions on Signal Processing, 2013, 61, 1625-1631.	3.2	35
20	Novel Redox-Responsive Polymeric Magnetosomes with Tunable Magnetic Resonance Property for In Vivo Drug Release Visualization and Dual-Modal Cancer Therapy. Advanced Functional Materials, 2018, 28, 1802159.	7.8	35
21	Principled reward shaping for reinforcement learning via Lyapunov stability theory. Neurocomputing, 2020, 393, 83-90.	3.5	35
22	Self-indicating, fully active pharmaceutical ingredients nanoparticles (FAPIN) for multimodal imaging guided trimodality cancer therapy. Biomaterials, 2018, 161, 203-215.	5.7	33
23	Colloidal stable quantum dots modified by dual functional group polymers for inkjet printing. Journal of Materials Chemistry C, 2017, 5, 4629-4635.	2.7	30
24	Distributed Hammerstein Modeling for Cross-Coupling Effect of Multiaxis Piezoelectric Micropositioning Stages. IEEE/ASME Transactions on Mechatronics, 2018, 23, 2794-2804.	3.7	25
25	Reconstruction of arbitrary biochemical reaction networks: A compressive sensing approach. , 2012, , .		23
26	Network Identifiability from Intrinsic Noise. IEEE Transactions on Automatic Control, 2017, 62, 3717-3728.	3.6	20
27	A facile approach to fabricate self-assembled magnetic nanotheranostics for drug delivery and imaging. Nanoscale, 2018, 10, 21634-21639.	2.8	20
28	Homecare-Oriented ECG Diagnosis With Large-Scale Deep Neural Network for Continuous Monitoring on Embedded Devices. IEEE Transactions on Instrumentation and Measurement, 2022, 71, 1-13.	2.4	20
29	Decentralised final value theorem for discrete-time LTI systems with application to minimal-time distributed consensus. , 2009, , .		18
30	Sparse learning of partial differential equations with structured dictionary matrix. Chaos, 2019, 29, 043130.	1.0	17
31	Development and Validation of a Prognostic Risk Score System for COVID-19 Inpatients: A Multi-Center Retrospective Study in China. Engineering, 2022, 8, 116-121.	3.2	17
32	A Transfer Learning-Based Method for Personalized State of Health Estimation of Lithium-Ion Batteries. IEEE Transactions on Neural Networks and Learning Systems, 2024, 35, 759-769.	7.2	14
33	Decentralised minimal-time dynamic consensus. , 2012, , .		13
34	Identification of Nonlinear State-Space Systems From Heterogeneous Datasets. IEEE Transactions on Control of Network Systems, 2018, 5, 737-747.	2.4	13
35	Dynamical differential expression (DyDE) reveals the period control mechanisms of the Arabidopsis circadian oscillator. PLoS Computational Biology, 2019, 15, e1006674.	1.5	13
36	Swing-Reducing Flight Control System for an Underactuated Indoor Miniature Autonomous Blimp. IEEE/ASME Transactions on Mechatronics, 2021, 26, 1895-1904.	3.7	13

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37	Quantifying crosstalk in biochemical systems. , 2012, , .		12
38	On the Powerball Method: Variants of Descent Methods for Accelerated Optimization. , 2019, 3, 601-606.		12
39	A Fast Optimal Power Flow Algorithm Using Powerball Method. IEEE Transactions on Industrial Informatics, 2020, 16, 6993-7003.	7.2	12
40	Predictive Models of Mortality for Hospitalized Patients With COVID-19: Retrospective Cohort Study. JMIR Medical Informatics, 2020, 8, e21788.	1.3	11
41	Robust network reconstruction in polynomial time. , 2012, , .		10
42	Modeling and Control of Swing Oscillation of Underactuated Indoor Miniature Autonomous Blimps. Unmanned Systems, 2021, 09, 73-86.	2.7	10
43	Design of a Soft Gripper With Improved Microfluidic Tactile Sensors for Classification of Deformable Objects. IEEE Robotics and Automation Letters, 2022, 7, 5607-5614.	3.3	10
44	Online identification of time-varying dynamical systems for industrial robots based on sparse Bayesian learning. Science China Technological Sciences, 2022, 65, 386-395.	2.0	10
45	Decentralised minimum-time average consensus in digraphs. , 2013, , .		9
46	Data-Driven Discovery of Stochastic Differential Equations. Engineering, 2022, 17, 244-252.	3.2	9
47	Impact of heterogeneous link qualities and network connectivity on binary consensus. , 2009, , .		8
48	Robust dynamical network reconstruction. , 2010, , .		8
49	A Minimal Realization Technique for the Dynamical Structure Function of a Class of LTI Systems. IEEE Transactions on Control of Network Systems, 2017, 4, 301-311.	2.4	8
50	Sparse learning of network-reduced models for locating low frequency oscillations in power systems. Applied Energy, 2020, 262, 114541.	5.1	8
51	Li Yan et al. reply. Nature Machine Intelligence, 2021, 3, 28-32.	8.3	8
52	Sequence-to-sequence prediction of spatiotemporal systems. Chaos, 2020, 30, 023102.	1.0	8
53	Security for cyber-physical systems: Secure control against known-plaintext attack. Science China Technological Sciences, 2020, 63, 1637-1646.	2.0	7
54	Data-driven network models for genetic circuits from time-series data with incomplete measurements. Journal of the Royal Society Interface, 2021, 18, 20210413.	1.5	7

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55	Distributed privacy-preserving network size computation: A system-identification based method. , 2013, , .		6
56	Electrospinning Sedimentary Microstructure Feedback Control by Tuning Substrate Linear Machine Velocity. IEEE Transactions on Industrial Electronics, 2017, 64, 8686-8694.	5.2	6
57	High precision variational Bayesian inference of sparse linear networks. Automatica, 2020, 118, 109017.	3.0	6
58	State of health estimation for lithium-ion batteries with dynamic time warping and deep kernel learning model. , 2020, , .		6
59	Dynamical network size estimation from local observations. New Journal of Physics, 2020, 22, 093031.	1.2	6
60	A stochastic framework for the design of transient and steady state behavior of biochemical reaction networks. , 2015, , .		5
61	Encapsulation and solubilization of ultrastable quantum dots with multidentate bilayer ligands and rheological behaviour. Nanoscale, 2018, 10, 20796-20803.	2.8	5
62	Identifying biochemical reaction networks from heterogeneous datasets. , 2015, , .		4
63	On Theoretical Analysis of Single Hidden Layer Feedforward Neural Networks with Relu Activations. , 2019, , .		4
64	Ultrafast synchronization via local observation. New Journal of Physics, 2019, 21, 013040.	1.2	4
65	Kinematic Control for Crossed-Fiber-Reinforced Soft Manipulator Using Sparse Bayesian Learning. IEEE/ASME Transactions on Mechatronics, 2022, 27, 611-622.	3.7	4
66	Sen-Glove: A Lightweight Wearable Glove for Hand Assistance with Soft Joint Sensing. , 2022, , .		4
67	Minimal-time network reconstruction for DTLTI systems. , 2010, , .		3
68	On the powerball method. , 2017, , .		3
69	Data-Driven Discovery of Block-Oriented Nonlinear Models Using Sparse Null-Subspace Methods. IEEE Transactions on Cybernetics, 2022, 52, 3794-3804.	6.2	3
70	A Full Bayesian Approach to Sparse Network Inference Using Heterogeneous Datasets. IEEE Transactions on Automatic Control, 2021, 66, 3282-3288.	3.6	3
71	Reply to: Consider the laboratory aspects in developing patient prediction models. Nature Machine Intelligence, 2021, 3, 19-19.	8.3	3
72	Dynamical Structure Function and Granger Causality: Similarities and differences. , 2015, , .		2

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73	Scatheless active functionalized poly(p-phenylene terephthalamide) fibres and their outstanding potential in enhancing interface adhesion with polymer matrix. Journal of Applied Polymer Science, 2016, 133, .	1.3	2
74	Effects of poly-(p-phenylene terephthamide) powder coated with polydopamine on ethylene-propylene-diene-terpolymer grafted maleic anhydride. Science China Chemistry, 2016, 59, 459-465.	4.2	2
75	Reply to: Clinical interpretation of an interpretable prognostic model for patients with COVID-19. Nature Machine Intelligence, 2021, 3, 17-17.	8.3	2
76	State estimation over a communication network: measurement or estimate communication?. Journal of Control Theory and Applications, 2010, 8, 20-26.	0.8	1
77	Sensor data scheduling for linear quadratic Gaussian control with full state feedback. , 2012, , .		1
78	Minimum sensor duty cycle with guaranteed estimator performance. , 2012, , .		1
79	System Aliasing in Dynamic Network Reconstruction:Issues on Low Sampling Frequencies. IEEE Transactions on Automatic Control, 2021, 66, 5788-5801.	3.6	1
80	Fault Diagnosis of Wind Turbines with A Dilated Convolution and Hybrid Attention Neural Network. , 2021, , .		1
81	Remaining useful life prediction of turbofan engine with GA optimized hybrid neural network. , 2021, , .		0
82	Deep Multi-Grasp Detection Network via Augmented Heatmap Regression. , 2020, , .		0
83	ACU-Net: Adaptive Context Network Based on U-Net for Retinal Vessel Segmentation. , 2021, , .		0
84	Manipulability and Robustness Optimization of the Cable-Driven Redundant Soft Manipulator. , 2021, , .		0