Zhiqiang Gao

List of Publications by Year
in descending order

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60 papers	4,072 citations	304368 22 h-index	360668 35 g-index
60 all docs	60 docs citations	60 times ranked	1936 citing authors

#	Article	IF	Citations
1	A controller design method for high-order unstable linear time-invariant systems. ISA Transactions, 2022, 130, 500-515.	3.1	6
2	On the tracking of fast trajectories of a 3DOF torsional plant: A flatness based ADRC approach. Asian Journal of Control, 2021, 23, 1367-1379.	1.9	8
3	On the Principle and Applications of Conditional Disturbance Negation. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2021, 51, 6757-6767.	5.9	5
4	Exponential Stabilization of a Star-Shaped Thermoelastic Network System Based on the Extended State Observer With Time-Varying Gains. IEEE Transactions on Automatic Control, 2021, 66, 267-274.	3.6	24
5	Active Disturbance Rejection Control for Reference Trajectory Tracking Tasks in the Pendubot System. IEEE Access, 2021, 9, 102663-102670.	2.6	11
6	On transitioning from PID to ADRC in thermal power plants. Control Theory and Technology, 2021, 19, 3-18.	1.0	54
7	Periodic tracking for piezoâ€actuated displacement stage based on disturbance rejection proportional integral derivative and repetitive control. Advanced Control for Applications, 2021, 3, e67.	0.8	1
8	Fractional order active disturbance rejection control with the idea of cascaded fractional order integrator equivalence. ISA Transactions, 2021, 114, 359-369.	3.1	26
9	Robust Tracking in Underactuated Systems Using Flatness-Based ADRC With Cascade Observers. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2020, 142, .	0.9	21
10	Active disturbance rejection control: some recent experimental and industrial case studies. Control Theory and Technology, 2018, 16, 301-313.	1.0	76
11	Active Disturbance Rejection Control of LCL-Filtered Grid-Connected Inverter Using PadÃ© Approximation. IEEE Transactions on Industry Applications, 2018, 54, 6179-6189.	3.3	79
12	Add-On Module of Active Disturbance Rejection for Set-Point Tracking of Motion Control Systems. IEEE Transactions on Industry Applications, 2017, 53, 4028-4040.	3.3	87
13	Active disturbance rejection control of LCL filtered grid-connected inverter using padÃ© approximation. , 2017, , .		0
14	Robust ADRC for nonlinear time-varying system with uncertainties. , 2017, , .		5
15	On ADRC for non-minimum phase systems: canonical form selection and stability conditions. Control Theory and Technology, 2016, 14, 199-208.	1.0	20
16	Active disturbance rejection control: between the formulation in time and the understanding in frequency. Control Theory and Technology, 2016, 14, 250-259.	1.0	52
17	On asymptotic stability for nonlinear ADRC based control system with application to the ball-beam problem. , 2016, , .		23
18	Add-on module of Active Disturbance Rejection for set-point tracking of motion control systems. , 2016, , .		1

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19	On Decoupling Control of the VGT-EGR System in Diesel Engines: A New Framework. IEEE Transactions on Control Systems Technology, 2016, 24, 1788-1796.	3.2	30
20	Towards a turnkey solution of industrial control under the active disturbance rejection paradigm. , 2015, , .		20
21	Absolute stability analysis of nonâ€linear active disturbance rejection control for singleâ€inputâ€“singleâ€output systems via the circle criterion method. IET Control Theory and Applications, 2015, 9, 2320-2329.	1.2	34
22	On the augmentation of Luenberger Observer-based state feedback design for better robustness and disturbance rejection. , 2015, , .		3
23	A Disturbance Rejection Framework for the Study of Traditional Chinese Medicine. Evidence-based Complementary and Alternative Medicine, 2014, 2014, 1-8.	0.5	1
24	On the centrality of disturbance rejection in automatic control. ISA Transactions, 2014, 53, 850-857.	3.1	346
25	Predictive active disturbance rejection control for processes with time delay. ISA Transactions, 2014, 53, 873-881.	3.1	131
26	Modified active disturbance rejection control for time-delay systems. ISA Transactions, 2014, 53, 882-888.	3.1	178
27	An Active Disturbance Rejection Based Approach to Vibration Suppression in Twoâ€inertia Systems. Asian Journal of Control, 2013, 15, 350-362.	1.9	106
28	Achieving Minimum Settling Time Subject to Undershoot Constraint in Systems With One or Two Real Right Half Plane Zeros. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2013, 135, .	0.9	7
29	On model-free accommodation of actuator nonlinearities. , 2012, , .		8
30	On Validation of Extended State Observer Through Analysis and Experimentation. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2012, 134, .	0.9	197
31	On active disturbance rejection based control design for superconducting RF cavities. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 643, 11-16.	0.7	80
32	Active disturbance rejection control for human postural sway. , 2011, , .		8
33	An active disturbance rejection based approach to vibration suppression in two-inertia systems. , 2010, , .		15
34	On a robust control system design for an electric power assist steering system. , 2010, , .		1
35	From Poncelet's invariance principle to Active Disturbance Rejection. , 2009, , .		10
36	Benchmark tests of Active Disturbance Rejection Control on an industrial motion control platform. , 2009, , .		19

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37	Active Disturbance Rejection Control for MEMS Gyroscopes. IEEE Transactions on Control Systems Technology, 2009, 17, 1432-1438.	3.2	239
38	Load frequency control for multiple-area power systems. , 2009, , .		13
39	A two-degree-of-freedom time-optimal solution for hard disk drive servo problems. International Journal of Adaptive Control and Signal Processing, 2008, 22, 388-401.	2.3	3
40	Active disturbance rejection control for MEMS gyroscopes. , 2008, , .		40
41	A Novel Oscillation Controller for Vibrational MEMS Gyroscopes. Proceedings of the American Control Conference, 2007, , .	0.0	9
42	A Dynamic Decoupling Control Approach and Its Applications to Chemical Processes. Proceedings of the American Control Conference, 2007, , .	0.0	24
43	Active Disturbance Rejection Control of Chemical Processes. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	21
44	An Active Disturbance Rejection Approach to Tension and Velocity Regulations in Web Processing Lines. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	32
45	Control and Rotation Rate Estimation of Vibrational MEMS Gyroscopes. Control Applications (CCA), Proceedings of the IEEE International Conference on, 2007, , .	0.0	21
46	On stability analysis of active disturbance rejection control for nonlinear time-varying plants with unknown dynamics. , 2007, , .		249
47	Active disturbance rejection control: a paradigm shift in feedback control system design. , 2006, , .		263
48	On convergence of the linear extended state observer. , 2006, , .		19
49	Discrete implementation and generalization of the extended state observer. , 2006, , .		119
50	A DSP-Based Active Disturbance Rejection Control Design for a 1-kW H-Bridge DCâ€“DC Power Converter. IEEE Transactions on Industrial Electronics, 2005, 52, 1271-1277.	5.2	308
51	A Wavelet-Based Multiresolution PID Controller. IEEE Transactions on Industry Applications, 2005, 41, 537-543.	3.3	81
52	A stable self-tuning fuzzy logic control system for industrial temperature regulation. IEEE Transactions on Industry Applications, 2002, 38, 414-424.	3.3	45
53	From linear to nonlinear control means: A practical progression. ISA Transactions, 2002, 41, 177-189.	3.1	78
54	A novel self-tuning control design approach for industrial applications. , 0, , .		4

#	ARTICLE	IF	CITATIONS
55	A novel motion control design approach based on active disturbance rejection. , 0, , .		18
56	Scaling and bandwidth-parameterization based controller tuning. , 0, , .		678
57	A comparison study of advanced state observer design techniques. , 0, , .		107
58	A closed loop feedback method for a manual bar straightener. , 0, , .		0
59	A time-optimal unified servo control method with a two-degree-offreedom structure for a hard disk drive. , 0, , .		1
60	An FPGA-based digital control and communication module for space power management and distribution systems. , 0, , .		7