

Shihong Ding

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8281161/shihong-ding-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

2,808
citations

26
h-index

51
g-index

115
ext. papers

3,568
ext. citations

3.8
avg, IF

6.48
L-index

#	Paper	IF	Citations
96	. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 6752-6762	8.9	196
95	Second-order sliding mode controller design subject to mismatched term. <i>Automatica</i> , 2017 , 77, 388-392	5.7	152
94	Simple homogeneous sliding-mode controller. <i>Automatica</i> , 2016 , 67, 22-32	5.7	148
93	Stabilization of the attitude of a rigid spacecraft with external disturbances using finite-time control techniques. <i>Aerospace Science and Technology</i> , 2009 , 13, 256-265	4.9	131
92	Nonsmooth stabilization of a class of nonlinear cascaded systems. <i>Automatica</i> , 2012 , 48, 2597-2606	5.7	129
91	Disturbance Observer Design for Nonlinear Systems Represented by Input-Output Models. <i>IEEE Transactions on Industrial Electronics</i> , 2020 , 67, 1222-1232	8.9	125
90	. <i>IEEE Transactions on Industrial Informatics</i> , 2018 , 14, 1990-2000	11.9	121
89	Global set stabilisation of the spacecraft attitude using finite-time control technique. <i>International Journal of Control</i> , 2009 , 82, 822-836	1.5	121
88	A New Second-Order Sliding Mode and Its Application to Nonlinear Constrained Systems. <i>IEEE Transactions on Automatic Control</i> , 2019 , 64, 2545-2552	5.9	113
87	Second-Order Sliding Mode Control for Nonlinear Uncertain Systems Bounded by Positive Functions. <i>IEEE Transactions on Industrial Electronics</i> , 2015 , 62, 5899-5909	8.9	107
86	Second-order sliding mode controller design with output constraint. <i>Automatica</i> , 2020 , 112, 108704	5.7	103
85	Global finite-time stabilisation by output feedback for a class of uncertain nonlinear systems. <i>International Journal of Control</i> , 2010 , 83, 2241-2252	1.5	96
84	A speed control for a PMSM using finite-time feedback control and disturbance compensation. <i>Transactions of the Institute of Measurement and Control</i> , 2010 , 32, 170-187	1.8	85
83	Global stabilization of a class of upper-triangular systems with unbounded or uncontrollable linearizations. <i>International Journal of Robust and Nonlinear Control</i> , 2011 , 21, 271-294	3.6	84
82	Global Stabilization of a Class of Feedforward Systems with Lower-Order Nonlinearities. <i>IEEE Transactions on Automatic Control</i> , 2010 , 55, 691-696	5.9	69
81	Finite-time stabilization for a class of high-order stochastic nonlinear systems with an output constraint. <i>Applied Mathematics and Computation</i> , 2019 , 358, 63-79	2.7	68
80	Composite Super-twisting Sliding Mode Control Design for PMSM Speed Regulation Problem Based on a Novel Disturbance Observer. <i>IEEE Transactions on Energy Conversion</i> , 2020 , 1-1	5.4	66

79	An Adaptive SOSM Controller Design by Using a Sliding-Mode-Based Filter and its Application to Buck Converter. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2020 , 67, 2409-2418	3.9	56
78	Second-Order Sliding Mode Controller Design Subject to an Upper-Triangular Structure. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2021 , 51, 497-507	7.3	56
77	Nested saturation control for overhead crane systems. <i>Transactions of the Institute of Measurement and Control</i> , 2012 , 34, 862-875	1.8	44
76	Nonsingular terminal sliding mode control of nonlinear second-order systems with input saturation. <i>International Journal of Robust and Nonlinear Control</i> , 2016 , 26, 1857-1872	3.6	43
75	Bounded Consensus Algorithms for Multi-Agent Systems in Directed Networks. <i>Asian Journal of Control</i> , 2013 , 15, 282-291	1.7	39
74	Stability analysis for a second-order continuous finite-time control system subject to a disturbance. <i>Journal of Control Theory and Applications</i> , 2009 , 7, 271-276		39
73	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2014 , 50, 1163-1181	3.7	38
72	Second-Order Sliding Mode Control Design Subject to an Asymmetric Output Constraint. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 1278-1282	3.5	29
71	GPIO Based Super-Twisting Sliding Mode Control for PMSM. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 68, 747-751	3.5	28
70	Robust finite-time stabilization of a class of high-order stochastic nonlinear systems subject to output constraint and disturbances. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 5550-5573	3.6	26
69	Fixed-time SOSM controller design with output constraint. <i>Nonlinear Dynamics</i> , 2020 , 102, 1567-1583	5	26
68	Adaptive Fuzzy Control for Nontriangular Stochastic High-Order Nonlinear Systems Subject to Asymmetric Output Constraints. <i>IEEE Transactions on Cybernetics</i> , 2020 , PP,	10.2	21
67	HOSM controller design with asymmetric output constraints. <i>Science China Information Sciences</i> , 2022 , 65, 1	3.4	21
66	Finite-time controller design of multiple integrator nonlinear systems with input saturation. <i>Applied Mathematics and Computation</i> , 2020 , 372, 124986	2.7	20
65	Direct yaw-moment control for 4WID electric vehicle via finite-time control technique. <i>Nonlinear Dynamics</i> , 2017 , 88, 239-254	5	19
64	Quasi-Continuous Second-Order Sliding Mode Control of Buck Converter. <i>IEEE Access</i> , 2018 , 6, 17859-17867	3.5	18
63	Robust control of multiple integrators subject to input saturation and disturbance. <i>International Journal of Control</i> , 2015 , 88, 844-856	1.5	18
62	Global uniform asymptotical stability of a class of nonlinear cascaded systems with application to a nonholonomic wheeled mobile robot. <i>International Journal of Systems Science</i> , 2010 , 41, 1301-1312	2.3	16

61	Adaptive Nonsingular Terminal Sliding Model Control for Permanent Magnet Synchronous Motor Based on Disturbance Observer. <i>IEEE Access</i> , 2018 , 6, 48913-48920	3.5	16
60	Second-order sliding mode controller design subject to mismatched unbounded perturbations. <i>International Journal of Robust and Nonlinear Control</i> , 2017 , 27, 4706-4722	3.6	15
59	Composite Active Front Steering Controller Design for Vehicle System. <i>IEEE Access</i> , 2017 , 5, 6697-6706	3.5	15
58	A novel adaptive nonsingular terminal sliding mode controller design and its application to active front steering system. <i>International Journal of Robust and Nonlinear Control</i> , 2019 , 29, 4250	3.6	15
57	Integral sliding mode control for stochastic Markovian jump system with time-varying delay. <i>Neurocomputing</i> , 2016 , 179, 118-125	5.4	15
56	Global Finite-Time Stabilization for Nonholonomic Mobile Robots Based on Visual Servoing. <i>International Journal of Advanced Robotic Systems</i> , 2014 , 11, 180	1.4	15
55	A Super-Twisting-Like Fractional Controller for SPMSM Drive System. <i>IEEE Transactions on Industrial Electronics</i> , 2021 , 1-1	8.9	15
54	Apple tree branch segmentation from images with small gray-level difference for agricultural harvesting robot. <i>Optik</i> , 2016 , 127, 11173-11182	2.5	15
53	Finite-Time Stabilization of High-Order Stochastic Nonlinear Systems With Asymmetric Output Constraints. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2020 , 1-13	7.3	14
52	Global decentralised stabilisation for a class of uncertain large-scale feedforward nonlinear systems. <i>International Journal of Control</i> , 2014 , 87, 1282-1296	1.5	13
51	Adaptive Fuzzy Control for Stochastic High-Order Nonlinear Systems With Output Constraints. <i>IEEE Transactions on Fuzzy Systems</i> , 2020 , 1-1	8.3	12
50	Adaptive Second-order Sliding Mode Control: A Lyapunov Approach. <i>IEEE Transactions on Automatic Control</i> , 2021 , 1-1	5.9	12
49	Design of an adaptive nonsingular terminal sliding model control method for a bearingless permanent magnet synchronous motor. <i>Transactions of the Institute of Measurement and Control</i> , 2017 , 39, 1821-1828	1.8	11
48	New approach to second-order sliding mode control design. <i>IET Control Theory and Applications</i> , 2013 , 7, 2188-2196	2.5	11
47	Guidance law design based on non-smooth control. <i>Transactions of the Institute of Measurement and Control</i> , 2013 , 35, 1116-1128	1.8	10
46	Universal finite-time observer based second-order sliding mode control for DC-DC buck converters with only output voltage measurement. <i>Journal of the Franklin Institute</i> , 2020 , 357, 11863-11879	4	10
45	Adaptive Fuzzy SOSM Controller Design With Output Constraints. <i>IEEE Transactions on Fuzzy Systems</i> , 2021 , 1-1	8.3	9
44	Global stabilisation of a class of generalised cascaded systems by homogeneous method. <i>International Journal of Control</i> , 2016 , 89, 815-832	1.5	7

43	Design and testing of a control system associated with the automatic feeding boat for farming Chinese river crabs. <i>Computers and Electronics in Agriculture</i> , 2018 , 150, 14-25	6.5	7
42	Controller design for nonlinear affine systems by control Lyapunov functions. <i>Systems and Control Letters</i> , 2013 , 62, 930-936	2.4	7
41	High-order sliding mode controller design subject to lower-triangular nonlinearity and its application to robotic system. <i>Journal of the Franklin Institute</i> , 2020 , 357, 10367-10386	4	7
40	Global stabilization of a class of cascaded systems with upper-triangular structures. <i>International Journal of Robust and Nonlinear Control</i> , 2018 , 28, 4330	3.6	6
39	Finite-time Extended State Observer Based Super-twisting Sliding Mode Controller for PMSM Drives with Inertia Identification. <i>IEEE Transactions on Transportation Electrification</i> , 2021 , 1-1	7.6	6
38	Fuzzy Adaptive SOSM Based Control of A Type of Nonlinear Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2021 , 1-1	3.5	6
37	Direct yaw-moment control of in-wheel electric vehicle by sliding mode technique 2016 ,		5
36	New families of high-order sliding-mode controllers 2015 ,		5
35	Global stabilization of partially linear composite systems using homogeneous method. <i>Asian Journal of Control</i> , 2011 , 13, 1028-1034	1.7	5
34	Adaptive set stabilization of the attitude of a rigid spacecraft without angular velocity measurements. <i>Journal of Systems Science and Complexity</i> , 2011 , 24, 105-119	1	5
33	Fixed-Time Stabilization for a Class of Output-Constrained Nonlinear Systems. <i>IEEE Transactions on Systems, Man, and Cybernetics: Systems</i> , 2022 , 1-13	7.3	4
32	Composite finite-time straight-line path-following control of an underactuated surface vessel. <i>Journal of the Franklin Institute</i> , 2020 , 357, 11496-11517	4	4
31	Straight-Line Tracking Control of an Agricultural Vehicle with Finite-Time Control Technique. <i>Asian Journal of Control</i> , 2015 , 17, 2218-2228	1.7	3
30	Active front steering controller design for electric vehicle system by using disturbance observer method 2017 ,		3
29	Adaptive Fuzzy Output-Feedback Control Design for a Class of p-Norm Stochastic Nonlinear Systems With Output Constraints. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 68, 2626-2638	3.9	3
28	A unified control approach to finite-time stabilization of SOSM dynamics subject to an output constraint. <i>Applied Mathematics and Computation</i> , 2021 , 394, 125752	2.7	3
27	TCP/AWM network congestion algorithm with funnel control and arbitrary setting time. <i>Applied Mathematics and Computation</i> , 2020 , 385, 125410	2.7	2
26	A novel second-order sliding mode control based on the Lyapunov method. <i>Transactions of the Institute of Measurement and Control</i> , 2019 , 41, 1068-1078	1.8	2

25	Parameterisation of a special class of saturated controllers and application to mechanical systems. <i>IET Control Theory and Applications</i> , 2017 , 11, 3146-3155	2.5	2
24	Fuzzy Non-singular Terminal Sliding Mode Controller Design for Nonlinear Systems with Input Saturation. <i>International Journal of Fuzzy Systems</i> , 2020 , 22, 2271-2283	3.6	2
23	Observer-based adaptive scheme for fixed-time frequency estimation of biased sinusoidal signals. <i>Automatica</i> , 2021 , 127, 109559	5.7	2
22	A Compound Controller Design for a Buck Converter. <i>Energies</i> , 2018 , 11, 2354	3.1	2
21	Fixed-time SOSM controller design subject to an asymmetric output constraint. <i>Journal of the Franklin Institute</i> , 2021 , 358, 7485-7506	4	2
20	Output-feedback finite-time stabilization of a class of constrained planar systems. <i>Applied Mathematics and Computation</i> , 2022 , 412, 126573	2.7	2
19	An Improved Three-vector-based Model Predictive Current Control Method for Surface-mounted PMSM Drives. <i>IEEE Transactions on Transportation Electrification</i> , 2022 , 1-1	7.6	2
18	Controller design of second order sliding mode control systems with mismatched perturbations 2017 ,		1
17	Terminal sliding mode control of second-order systems with bounded input 2013 ,		1
16	Global stabilization of a class of upper-triangular systems with higher-order nonlinearities 2010 ,		1
15	Second-Order Sliding Mode Controller Design with a Larger Domain of Attraction. <i>Journal of Systems Science and Complexity</i> , 2020 , 33, 61-73	1	1
14	Nonsmooth stabilization for distributed electric vehicle based on direct yaw-moment control 2016 ,		1
13	Design of a run-to-run controller based on discrete sliding-mode observer. <i>Asian Journal of Control</i> , 2021 , 23, 908-919	1.7	1
12	A new optimization particle filtering navigation location method for aquatic plants cleaning workboat in crab farming. <i>International Journal of Advanced Robotic Systems</i> , 2018 , 15, 17298814187879 ¹⁴		1
11	Second-order sliding mode controller design with mismatched term and time-varying output constraint. <i>Applied Mathematics and Computation</i> , 2021 , 407, 126331	2.7	1
10	Fixed-time HOSM controller design for constrained sliding mode systems with mismatched terms. <i>Information Sciences</i> , 2022 , 585, 366-381	7.7	0
9	Finite-time stabilization for a class of stochastic output-constrained systems by output feedback. <i>International Journal of Robust and Nonlinear Control</i> , 2022 , 32, 1256	3.6	0
8	On robust stability of switched homogeneous systems. <i>IET Control Theory and Applications</i> , 2021 , 15, 758-770	2.5	0

7	Fuzzy Disturbance Observer Design for a Class of Nonlinear SISO Systems. <i>International Journal of Fuzzy Systems</i> , 1	3.6	o
6	Design of high-order sliding mode controller under asymmetric output constraints. <i>International Journal of Robust and Nonlinear Control</i> , 2021 , 31, 7107-7124	3.6	o
5	HOSM controller design with an output constraint and its application. <i>ISA Transactions</i> , 2021 , 116, 71-80	5.5	o
4	Finite-time fuzzy output-feedback control for p -norm stochastic nonlinear systems with output constraints. <i>AIMS Mathematics</i> , 2021 , 6, 2244-2267	2.2	o
3	Second-Order Sliding Mode Control for BUCK Converters. <i>Lecture Notes in Electrical Engineering</i> , 2016 , 69-76	0.2	
2	SOSM controller design for output constrained systems subject to disturbances with unknown magnitudes. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2022 , 1-1	3.5	
1	Global Finite-Time Controller Design for HOSM Dynamics Subject to Upper-Triangular Structure. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2022 , 1-14	3.9	