Ben Niu

List of Publications by Citations

56 papers	1,446 citations
18 h-index	37 g-index
62 ext. papers	1,919 ext. citations
5.7 avg, IF	5.78 L-index

#	Paper	IF	Citations
56	Adaptive Output-Feedback Controller Design for Switched Nonlinear Stochastic Systems With a Modified Average Dwell-Time Method. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2017**, 47, 1371-1382	7.3	158
55	Adaptive Neural State-Feedback Tracking Control of Stochastic Nonlinear Switched Systems: An Average Dwell-Time Method. *IEEE Transactions on Neural Networks and Learning Systems*, **2019**, 30, 1076-1087	10.3	145
54	Command Filter-Based Adaptive Neural Tracking Controller Design for Uncertain Switched Nonlinear Output-Constrained Systems. *IEEE Transactions on Cybernetics*, **2017**, 47, 3160-3171	10.2	141
53	Adaptive Backstepping-Based Neural Tracking Control for MIMO Nonlinear Switched Systems Subject to Input Delays. *IEEE Transactions on Neural Networks and Learning Systems*, **2018**, 29, 2638-2644	10.3	103
52	Multiple Lyapunov Functions for Adaptive Neural Tracking Control of Switched Nonlinear Nonlower-Triangular Systems. *IEEE Transactions on Cybernetics*, **2020**, 50, 1877-1886	10.2	96
51	A Novel Neural-Network-Based Adaptive Control Scheme for Output-Constrained Stochastic Switched Nonlinear Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 49, 418-432	7.3	77
50	Adaptive neural control for switched nonlinear systems with unknown backlash-like hysteresis and output dead-zone. *Neurocomputing*, **2019**, 357, 203-214	5.4	73
49	Adaptive NN Dynamic Surface Controller Design for Nonlinear Pure-Feedback Switched Systems With Time-Delays and Quantized Input. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2018**, 48, 1676-1688	7.3	71
48	. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2019**, 49, 1386-1398	7.3	65
47	Adaptive Neural Output-Feedback Controller Design of Switched Nonlower Triangular Nonlinear Systems With Time Delays. *IEEE Transactions on Neural Networks and Learning Systems*, **2020**, 31, 4084-4093	10.3	53
46	CFD modeling of the effects of particle shrinkage and intra-particle heat conduction on biomass fast pyrolysis. *Renewable Energy*, **2019**, 141, 236-245	8.1	35
45	CFD-based reduced-order modeling of fluidized-bed biomass fast pyrolysis using artificial neural network. *Renewable Energy*, **2020**, 152, 613-626	8.1	35
44	Mechanism of hydrogen transfer and role of solvent during heating-up stage of direct coal liquefaction. *Fuel Processing Technology*, **2017**, 160, 130-135	7.2	28
43	Single-network ADP for solving optimal event-triggered tracking control problem of completely unknown nonlinear systems. *International Journal of Intelligent Systems*, **2021**, 36, 4795-4815	8.4	26
42	Event-Triggered H_∞ Filtering for Networked Switched Systems With Packet Disorders. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 2847-2859	7.3	25
41	Adaptive neural tracking control of nonlinear stochastic switched non-lower triangular systems with input saturation. *Neurocomputing*, **2019**, 364, 192-202	5.4	24
40	Adaptive Neural Tracking Control Scheme of Switched Stochastic Nonlinear Pure-Feedback Nonlower Triangular Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 975-986	7.3	24

39	Observer-Based Finite-Time H_∞ Control for Interconnected Fuzzy Systems With Quantization and Random Network Attacks. *IEEE Transactions on Fuzzy Systems*, **2021**, 29, 674-685	8.3	19
38	Encapsulation of Cinnamon Essential Oil for Active Food Packaging Film with Synergistic Antimicrobial Activity. *Nanomaterials*, **2018**, 8,	5.4	18
37	Isotope analysis for understanding the hydrogen transfer mechanism in direct liquefaction of Bulianta coal. *Fuel*, **2017**, 203, 82-89	7.1	16
36	Interaction between Hydrogen-Donor and Nondonor Solvents in Direct Liquefaction of Bulianta Coal. *Energy & Fuels*, **2016**, 30, 10260-10267	4.1	16
35	Adaptive neural network asymptotic tracking control for a class of stochastic nonlinear systems with unknown control gains and full state constraints. *International Journal of Adaptive Control and Signal Processing*, **2021**, 35, 2007	2.8	16
34	Adaptive neural-network-based tracking control strategy of nonlinear switched non-lower triangular systems with unmodeled dynamics. *Neurocomputing*, **2018**, 322, 1-12	5.4	16
33	A highly durable textile-based sensor as a human-worn material interface for long-term multiple mechanical deformation sensing. *Journal of Materials Chemistry C*, **2019**, 7, 14651-14663	7.1	15
32	Robust Deposition of Silver Nanoparticles on Paper Assisted by Polydopamine for Green and Flexible Electrodes. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 12842-12851	8.3	14
31	Decentralized adaptive approximation-based fuzzy output-feedback control of uncertain switched stochastic interconnected nonlinear systems. *Journal of the Franklin Institute*, **2017**, 354, 7306-7325	4	12
30	Decentralized Adaptive Command Filtered Neural Tracking Control of Large-Scale Nonlinear Systems: An Almost Fast Finite-Time Framework. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, 32, 3621-3632	10.3	10
29	Variation of Geldart classification in MFM simulation of biomass fast pyrolysis considering the decrease of particle density and diameter. *Renewable Energy*, **2019**, 135, 208-217	8.1	10
28	Reduced-Order Observer-Based Adaptive Fuzzy Tracking Control Scheme of Stochastic Switched Nonlinear Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2021**, 51, 4566-4578	7.3	10
27	Almost fast finite-time adaptive tracking control for a class of full-state constrained pure-feedback nonlinear systems. *International Journal of Robust and Nonlinear Control*, **2020**, 30, 7517-7532	3.6	9
26	Adaptive Neural Controller Design Scheme of Nonlinear Delayed Systems With Completely Unknown Nonlinearities and Non-Strict-Feedback Structure. *IEEE Access*, **2018**, 6, 66418-66427	3.5	8
25	Neural networks-based adaptive practical preassigned finite-time fault tolerant control for nonlinear time-varying delay systems with full state constraints. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 1497-1513	3.6	7
24	Two-fluid modeling of a wet spouted fluidized bed with wet restitution coefficient model. *Powder Technology*, **2020**, 364, 363-372	5.2	6
23	Warming homogenizes apparent temperature sensitivity of ecosystem respiration. *Science Advances*, **2021**, 7,	14.3	6
22	Neural networks-based adaptive finite-time prescribed performance fault-tolerant control of switched nonlinear systems. *International Journal of Adaptive Control and Signal Processing*, **2021**, 35, 532-548	2.8	6

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21	Adaptive RBF Neural-Network-Based Design Strategy for Non-Strict-Feedback Nonlinear Systems by Using Integral Lyapunov Functions. *IEEE Access*, **2018**, 6, 75076-75085	3.5	6
20	False-Data-Injection Attacks on Remote Distributed Consensus Estimation. *IEEE Transactions on Cybernetics*, **2020**,	10.2	5
19	Reachability Analysis for Linear Discrete-Time Systems Under Stealthy Cyber Attacks. *IEEE Transactions on Automatic Control*, **2021**, 66, 4444-4451	5.9	5
18	Washable and flexible gas sensor based on UiO-66-NH2 nanofibers membrane for highly detecting SO2. *Chemical Engineering Journal*, **2022**, 428, 131720	14.7	5
17	Dynamic Output-Feedback Passivity Control for Fuzzy Systems under Variable Sampling. *Mathematical Problems in Engineering*, **2013**, 2013, 1-10	1.1	4
16	Adaptive Neural Tracking Control for Uncertain Switched Nonlinear Non-lower Triangular System with Disturbances and Dead-zone Input. *International Journal of Control, Automation and Systems*, **2020**, 18, 1445-1452	2.9	4
15	State Feedback Stabilization of Large-Scale Logical Control Networks via Network Aggregation. *IEEE Transactions on Automatic Control*, **2021**, 1-1	5.9	4
14	Adaptive fuzzy output-feedback fault-tolerant tracking control of a class of uncertain nonlinear switched systems. *International Journal of Systems Science*, **2019**, 50, 2673-2686	2.3	3
13	Time-/Event-Triggered Adaptive Neural Asymptotic Tracking Control for Nonlinear Systems With Full-State Constraints and Application to a Single-Link Robot. *IEEE Transactions on Neural Networks and Learning Systems*, **2021**, PP,	10.3	3
12	Observer-Based Robust Tracking Control for a Class of Switched Nonlinear Cascade Systems. *Mathematical Problems in Engineering*, **2013**, 2013, 1-9	1.1	2
11	A New Adaptive DS-Based Finite-Time Neural Tracking Control Scheme for Nonstrict-Feedback Nonlinear Systems. *IEEE Transactions on Systems, Man, and Cybernetics: Systems*, **2020**, 1-5	7.3	2
10	Event-triggered adaptive tracking control for nonlinear systems with predefined time-varying output constraints based on Nussbaum design. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 7513-7527	3.6	2
9	Effect of O2/CH4 atmosphere on tar production during coal pyrolysis. *Journal of Analytical and Applied Pyrolysis*, **2021**, 159, 105317	6	2
8	Partial-State-Constrained Adaptive Intelligent Tracking Control of Nonlinear Nonstrict-Feedback Systems with Unmodeled Dynamics and Its Application. *Complexity*, **2020**, 2020, 1-13	1.6	1
7	Flexible H2S sensors: Fabricated by growing NO2-UiO-66 on electrospun nanofibers for detecting ultralow concentration H2S. *Applied Surface Science*, **2022**, 573, 151446	6.7	1
6	Event-triggered-based adaptive command-filtered asymptotic tracking control for flexible robotic manipulators. *Nonlinear Dynamics*, **2021**, 105, 1543-1557	5	1
5	Event-triggered prescribed performance adaptive fuzzy asymptotic tracking of nonstrict-feedback nonlinear systems. *International Journal of Robust and Nonlinear Control*, **2021**, 31, 5776-5795	3.6	0
4	Predefined-Time Adaptive Neural-Network-Based Consensus Tracking Control for Nonlinear Multiagent Systems With Zero Tracking Error. *IEEE Access*, **2021**, 9, 132205-132214	3.5	0

LIST OF PUBLICATIONS

3 Dynamic Event-Triggered Finite-Time H∞ Tracking Control of Switched LPV Aero-Engine Models. *IEEE Transactions on Circuits and Systems II: Express Briefs*, **2021**, 1-1
3.5   0

2 Adaptive Tracking Control for a Class of Nonlinear MIMO Systems: A Quasi-Fast Finite-Time Design Technique. *IEEE Access*, **2021**, 9, 142020-142027
3.5

1 Intelligent Adaptive Tracking Controller Design for Stochastic Switched Pure-Feedback Nonlinear Systems With Input Saturation and Non-Lower Triangular Structure. *IEEE Access*, **2020**, 8, 127022-127033
3.5