

Xudong Zhao

List of Publications by Year in descending order

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132
papers

9,281
citations

57758

44
h-index

39675

94
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133
all docs

133
docs citations

133
times ranked

4157
citing authors

#	ARTICLE	IF	CITATIONS
1	Autistic traits and gender modulate emotion changes before and during the COVID-19 pandemic. <i>Current Psychology</i> , 2022, 41, 8181-8191.	2.8	3
2	Living arrangement modifies the associations of loneliness with adverse health outcomes in older adults: evidence from the CLHLS. <i>BMC Geriatrics</i> , 2022, 22, 59.	2.7	25
3	Signatures of tectonic-climatic interaction during the Late Cenozoic orogenesis along the northern Chinese Tian Shan. <i>Basin Research</i> , 2021, 33, 291-311.	2.7	13
4	On the Design of 3D Steerable Beamformers With Uniform Concentric Circular Microphone Arrays. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2021, 29, 2764-2778.	5.8	7
5	Differential Beamforming From the Beampattern Factorization Perspective. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2021, 29, 632-643.	5.8	5
6	Static and fatigue flexural performance of ultra-high performance fiber reinforced concrete slabs. <i>Engineering Structures</i> , 2021, 231, 111728.	5.3	17
7	Autistic traits and negative emotions in the general population during COVID-19: Mediating roles of the behavioural immune system and COVID-19 risk perception. <i>Psychiatry Research</i> , 2021, 300, 113918.	3.3	10
8	On a Particular Family of Differential Beamformers With Cardioid-Like and No-Null Patterns. <i>IEEE Signal Processing Letters</i> , 2021, 28, 140-144.	3.6	6
9	Provenance and paleogeography of the Jurassic Northwestern Qaidam Basin (NW China): Evidence from sedimentary records and detrital zircon geochronology. <i>Journal of Asian Earth Sciences</i> , 2020, 190, 104060.	2.3	15
10	The spatial coding mechanism of ordinal symbols: a study based on the ordinal position effect. <i>Attention, Perception, and Psychophysics</i> , 2020, 82, 1051-1062.	1.3	6
11	Autistic traits and social skills in Chinese college students: Mediating roles of adult attachment styles and empathy. <i>Current Psychology</i> , 2020, , 1.	2.8	3
12	Early-Middle Jurassic paleogeography reconstruction in the Western Qaidam Basin: Insights from sedimentology and detrital zircon geochronology. <i>Marine and Petroleum Geology</i> , 2020, 118, 104445.	3.3	16
13	Autistic traits and emotional experiences in Chinese college students: Mediating role of emotional regulation and sex differences. <i>Research in Autism Spectrum Disorders</i> , 2020, 77, 101607.	1.5	17
14	Inversion of bedrock channel profiles in the Daqing Shan in Inner Mongolia, northern China: Implications for late Cenozoic tectonic history in the Hetao Basin and the Yellow River evolution. <i>Tectonophysics</i> , 2020, 790, 228558.	2.2	16
15	Empathy Impairment in Individuals With Autism Spectrum Conditions From a Multidimensional Perspective: A Meta-Analysis. <i>Frontiers in Psychology</i> , 2019, 10, 1902.	2.1	41
16	ON THE CORRELATION BETWEEN FRACTAL DIMENSION AND ROBUSTNESS OF COMPLEX NETWORKS. <i>Fractals</i> , 2019, 27, 1950067.	3.7	17
17	Optimal carbon emissions in an integrated network of roads and UFTS under the finite construction resources. <i>Tunnelling and Underground Space Technology</i> , 2019, 94, 103108.	6.2	4
18	Observer-based fuzzy adaptive stabilization of uncertain switched stochastic nonlinear systems with input quantization. <i>Journal of the Franklin Institute</i> , 2019, 356, 1789-1809.	3.4	109

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19	Stabilization of discrete-time switched singular systems with state, output and switching delays. Journal of the Franklin Institute, 2019, 356, 2060-2089.	3.4	11
20	Autistic Traits and Prosocial Behaviour in the General Population: Test of the Mediating Effects of Trait Empathy and State Empathic Concern. Journal of Autism and Developmental Disorders, 2019, 49, 3925-3938.	2.7	35
21	Optimal control of Boolean control networks with average cost: A policy iteration approach. Automatica, 2019, 100, 378-387.	5.0	146
22	Stability of discrete-time switched systems with admissible edge-dependent switching signals. International Journal of Systems Science, 2018, 49, 974-983.	5.5	16
23	Stability Analysis and Delay Control for Switched Positive Linear Systems. IEEE Transactions on Automatic Control, 2018, 63, 2184-2190.	5.7	116
24	New approaches to positive observer design for discrete-time positive linear systems. Journal of the Franklin Institute, 2018, 355, 4336-4350.	3.4	40
25	Stabilization of switched linear systems via admissible edge-dependent switching signals. Nonlinear Analysis: Hybrid Systems, 2018, 29, 100-109.	3.5	63
26	Filtering of discrete-time switched systems via admissible edge-dependent switching signals. Systems and Control Letters, 2018, 113, 17-26.	2.3	10
27	Observer Design and Unknown Input Reconstruction for a Class of Switched Descriptor Systems. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2018, 48, 1411-1419.	9.3	45
28	Stability analysis of switched systems with extended average dwell time. Transactions of the Institute of Measurement and Control, 2018, 40, 1425-1434.	1.7	24
29	Fuzzy Tracking Control for Switched Uncertain Nonlinear Systems With Unstable Inverse Dynamics. IEEE Transactions on Fuzzy Systems, 2018, 26, 1066-1072.	9.8	19
30	Improved Controller Design for Uncertain Positive Systems and its Extension to Uncertain Positive Switched Systems. Asian Journal of Control, 2018, 20, 159-173.	3.0	15
31	Dose-Response Vulnerability Assessment of Urban Power Supply Network: Foundation for Its Sustainability and Resilience. Mathematical Problems in Engineering, 2018, 2018, 1-12.	1.1	2
32	Optimization Design of Underground Space Overburden Thickness in a Residential Area Concerning Outdoor Thermal Environment Evaluation. Sustainability, 2018, 10, 3205.	3.2	3
33	Collaborative distributed design for wireless control systems with Markovian-type control network and distributed network-induced time delays. International Journal of Robust and Nonlinear Control, 2018, 28, 5464-5480.	3.7	5
34	Stability and L1-gain analysis for switched positive Tâ€‘S fuzzy systems under asynchronous switching. Journal of the Franklin Institute, 2018, 355, 5912-5927.	3.4	24
35	Stability of discrete-time systems with time-varying delay based on switching technique. Journal of the Franklin Institute, 2018, 355, 6026-6044.	3.4	10
36	Fuzzy-Approximation-Based Adaptive Output-Feedback Control for Uncertain Nonsmooth Nonlinear Systems. IEEE Transactions on Fuzzy Systems, 2018, 26, 3847-3859.	9.8	138

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37	Stability and control of discrete-time switched systems via one-step ahead Lyapunov function approach. IET Control Theory and Applications, 2018, 12, 1141-1147.	2.1	17
38	Lack of Cross-Modal Effects in Dual-Modality Implicit Statistical Learning. Frontiers in Psychology, 2018, 9, 146.	2.1	5
39	Distributed Consensus of Multiple Euler-Lagrange Systems Networked by Sampled-Data Information With Transmission Delays and Data Packet Dropouts. IEEE Transactions on Automation Science and Engineering, 2017, 14, 1440-1450.	5.2	54
40	New Stability and Stabilization Conditions of Switched Systems with Mode-Dependent Average Dwell Time. Circuits, Systems, and Signal Processing, 2017, 36, 82-98.	2.0	138
41	Improved stability criteria for switched positive linear systems with average dwell time switching. Journal of the Franklin Institute, 2017, 354, 3472-3484.	3.4	129
42	Static output feedback control of nonhomogeneous Markovian jump systems with asynchronous time delays. Information Sciences, 2017, 399, 219-238.	6.9	120
43	Exponential stability analysis and $\ x(t)\ \leq \gamma e^{-\lambda t} \ x(0)\ $ of positive T-S fuzzy systems with time-varying delays. Nonlinear Analysis: Hybrid Systems, 2017, 24, 186-197.	3.5	138
44	Robust impulsive reset observers of a class of switched nonlinear systems with unknown inputs. Journal of the Franklin Institute, 2017, 354, 2924-2943.	3.4	25
45	An improved approach to controller design of positive systems using controller gain decomposition. Journal of the Franklin Institute, 2017, 354, 1356-1373.	3.4	29
46	Adaptive Neural Tracking Control for Switched High-Order Stochastic Nonlinear Systems. IEEE Transactions on Cybernetics, 2017, 47, 3088-3099.	9.5	85
47	Robust adaptive tracking control of uncertain systems with time-varying input delays. International Journal of Systems Science, 2017, 48, 3440-3449.	5.5	6
48	Adaptive fuzzy tracking control for a class of high-order switched uncertain nonlinear systems. Journal of the Franklin Institute, 2017, 354, 6567-6587.	3.4	35
49	Adaptive neural tracking control for a class of uncertain nonstrict-feedback nonlinear systems. Journal of the Franklin Institute, 2017, 354, 6503-6519.	3.4	16
50	Influence of inhibitory tagging (IT) on emotional and cognitive conflict processing: Evidence from event-related potentials. Neuroscience Letters, 2017, 657, 120-125.	2.1	5
51	Stability and Stabilization Analysis of Positive Polynomial Fuzzy Systems With Time Delay Considering Piecewise Membership Functions. IEEE Transactions on Fuzzy Systems, 2017, 25, 958-971.	9.8	46
52	Adaptive Fuzzy Hierarchical Sliding-Mode Control for a Class of MIMO Nonlinear Time-Delay Systems With Input Saturation. IEEE Transactions on Fuzzy Systems, 2017, 25, 1062-1077.	9.8	175
53	New Results on Stability of Slowly Switched Systems: A Multiple Discontinuous Lyapunov Function Approach. IEEE Transactions on Automatic Control, 2017, 62, 3502-3509.	5.7	288
54	Adaptive Neural Hierarchical Sliding Mode Control of Nonstrict-Feedback Nonlinear Systems and an Application to Electronic Circuits. IEEE Transactions on Systems, Man, and Cybernetics: Systems, 2017, 47, 1394-1404.	9.3	86

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55	Dual approach to stability and stabilisation of uncertain switched positive systems. International Journal of Systems Science, 2017, 48, 873-884.	5.5	13
56	Adaptive neural tracking control for a class of uncertain switched nonlinear systems with unknown backlash-like hysteresis control input. Neurocomputing, 2017, 219, 50-58.	5.9	28
57	Finite-time exact tracking control for a class of nonlinear dynamical systems. IET Control Theory and Applications, 2017, 11, 2020-2027.	2.1	7
58	Absolute exponential L1-gain analysis and synthesis of switched nonlinear positive systems with time-varying delay. Applied Mathematics and Computation, 2016, 284, 24-36.	2.2	38
59	State-dependent switching control of switched positive fractional-order systems. ISA Transactions, 2016, 62, 103-108.	5.7	75
60	Design of polynomial fuzzy observer-controller with membership functions using unmeasurable premise variables for nonlinear systems. Information Sciences, 2016, 355-356, 186-207.	6.9	32
61	L1-gain analysis and synthesis of Markovian jump positive systems with time delay. ISA Transactions, 2016, 63, 93-102.	5.7	42
62	Using game theory to optimize allocation of defensive resources to protect multiple chemical facilities in a city against terrorist attacks. Journal of Loss Prevention in the Process Industries, 2016, 43, 614-628.	3.3	31
63	Linear programming-based robust model predictive control for positive systems. IET Control Theory and Applications, 2016, 10, 1789-1797.	2.1	29
64	Robust filter design for a class of uncertain systems with  overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:cb="http://www.elsevier.com/xml/ce" data-bbox="80 495 780 565"/>	3.4	6
65	Finite-time Stability and Stabilization of Fractional Order Positive Switched Systems. Circuits, Systems, and Signal Processing, 2016, 35, 2450-2470.	2.0	47
66	Adaptive output-feedback neural tracking control for a class of nonstrict-feedback nonlinear systems. Information Sciences, 2016, 334-335, 205-218.	6.9	35
67	Assessing urban lifeline systems immediately after seismic disaster based on emergency resilience. Structure and Infrastructure Engineering, 2016, 12, 1634-1649.	3.7	29
68	New results on robust control for a class of uncertain systems and its applications to Chua's oscillator. Nonlinear Dynamics, 2016, 84, 1929-1941.	5.2	12
69	Absolute exponential stability of switched nonlinear time-delay systems. Journal of the Franklin Institute, 2016, 353, 1249-1267.	3.4	25
70	Stability analysis of discrete-time switched linear systems with unstable subsystems. Applied Mathematics and Computation, 2016, 273, 718-725.	2.2	28
71	On robust control of continuous-time systems with state-dependent uncertainties and its application to mechanical systems. ISA Transactions, 2016, 60, 12-20.	5.7	20
72	Fuzzy Adaptive Control Design and Discretization for a Class of Nonlinear Uncertain Systems. IEEE Transactions on Cybernetics, 2016, 46, 1476-1483.	9.5	167

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73	Intelligent Tracking Control for a Class of Uncertain High-Order Nonlinear Systems. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 1976-1982.	11.3	133
74	Synchronization Control of Neural Networks With State-Dependent Coefficient Matrices. IEEE Transactions on Neural Networks and Learning Systems, 2016, 27, 2440-2447.	11.3	16
75	Stabilization for a Class of Switched Nonlinear Systems With Novel Average Dwell Time Switching by Tâ€™S Fuzzy Modeling. IEEE Transactions on Cybernetics, 2016, 46, 1952-1957.	9.5	185
76	Control of Switched Nonlinear Systems via Tâ€™S Fuzzy Modeling. IEEE Transactions on Fuzzy Systems, 2016, 24, 235-241.	9.8	130
77	Stability analysis of discrete-time switched systems: a switched homogeneous Lyapunov function method. International Journal of Control, 2016, 89, 297-305.	1.9	28
78	Adaptive Neural Control of MIMO Nonstrict-Feedback Nonlinear Systems With Time Delay. IEEE Transactions on Cybernetics, 2016, 46, 1337-1349.	9.5	125
79	Reset stabilisation of positive linear systems. International Journal of Systems Science, 2016, 47, 2773-2782.	5.5	13
80	\mathcal{C}^k -times differentiable unbounded functions for robust control of uncertain switched nonlinear systems with tracking constraints. International Journal of Robust and Nonlinear Control, 2015, 25, 2965-2983.	3.7	40
81	Effects Comparison of Different Resilience Enhancing Strategies for Municipal Water Distribution Network: A Multidimensional Approach. Mathematical Problems in Engineering, 2015, 2015, 1-16.	1.1	11
82	New Developments in Sliding Mode Control and Its Applications 2014. Mathematical Problems in Engineering, 2015, 2015, 1-3.	1.1	3
83	Adaptive neural tracking control for a class of switched uncertain nonlinear systems. Neurocomputing, 2015, 168, 320-326.	5.9	35
84	A Stochastic Sampling Consensus Protocol of Networked Eulerâ€™Lagrange Systems With Application to Two-Link Manipulator. IEEE Transactions on Industrial Informatics, 2015, 11, 907-914.	11.3	74
85	Output feedback stabilization for stochastic high-order nonlinear systems with SISS-like inverse dynamic. Journal of the Franklin Institute, 2015, 352, 5897-5914.	3.4	9
86	A new control method for state-constrained nonlinear switched systems with application to chemical process. International Journal of Control, 2015, 88, 1693-1701.	1.9	78
87	Switching Stabilization for a Class of Slowly Switched Systems. IEEE Transactions on Automatic Control, 2015, 60, 221-226.	5.7	295
88	Stability and H_1 -Gain Analysis for Switched Delay Positive Systems with Stable and Unstable Subsystems. Circuits, Systems, and Signal Processing, 2015, 34, 1683-1696.	2.0	16
89	Polynomial Fuzzy-Model-Based Control Systems: Stability Analysis via Approximated Membership Functions Considering Sector Nonlinearity of Control Input. IEEE Transactions on Fuzzy Systems, 2015, 23, 2202-2214.	9.8	97
90	Adaptive tracking control for switched stochastic nonlinear systems with unknown actuator dead-zone. Automatica, 2015, 60, 193-200.	5.0	381

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91	Distributed adaptive attitude synchronization for spacecraft formation flying with sampled-data information flows. <i>Journal of the Franklin Institute</i> , 2015, 352, 2796-2809.	3.4	24
92	Discussions on observer design of nonlinear positive systems via T&S fuzzy modeling. <i>Neurocomputing</i> , 2015, 157, 70-75.	5.9	41
93	Adaptive Control for a Class of Switched Linear Systems Using State-Dependent Switching. <i>Circuits, Systems, and Signal Processing</i> , 2015, 34, 3681-3695.	2.0	15
94	Consensus of Euler&Lagrange Systems Networked by Sampled-Data Information with Probabilistic Time Delays. <i>IEEE Transactions on Cybernetics</i> , 2015, 45, 1126-1133.	9.5	59
95	Further results on stability and stabilisation of switched positive systems. <i>IET Control Theory and Applications</i> , 2015, 9, 2132-2139.	2.1	27
96	Tracking and \mathbb{H}_∞ control of constrained nonlinear switched systems in strict feedback form. <i>Nonlinear Dynamics</i> , 2015, 80, 87-100.	5.2	8
97	Synchronization of networked Euler&Lagrange systems by sampled-data communication with time-varying transmission delays under directed topology. <i>Neurocomputing</i> , 2015, 149, 729-735.	5.9	10
98	Adaptive tracking control for a class of uncertain switched nonlinear systems. <i>Automatica</i> , 2015, 52, 185-191.	5.0	359
99	Multiple-Mode Observer Design for a Class of Switched Linear Systems. <i>IEEE Transactions on Automation Science and Engineering</i> , 2015, 12, 272-280.	5.2	115
100	Output-Feedback Control for T&S Fuzzy Delta Operator Systems With Time-Varying Delays via an Input&Output Approach. <i>IEEE Transactions on Fuzzy Systems</i> , 2015, 23, 1100-1112.	9.8	50
101	Stability analysis of reset positive systems with discrete-time triggering conditions. <i>Applied Mathematics Letters</i> , 2015, 39, 80-84.	2.7	10
102	Sub-Threshold Autistic Traits in Normal Population: Its Concept, Structure and Influencing Factors. <i>Advances in Psychological Science</i> , 2015, 23, 1599.	0.3	8
103	Whether and How to Select Inertia and Acceleration of Discrete Particle Swarm Optimization Algorithm: A Study on Channel Assignment. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-6.	1.1	2
104	An Overview of Networked Control of Complex Dynamic Systems. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-10.	1.1	2
105	Fuzzy output&feedback control for non&linear systems with input time&varying delay. <i>IET Control Theory and Applications</i> , 2014, 8, 738-745.	2.1	24
106	New Trends in Networked Control of Complex Dynamic Systems: Theories and Applications. <i>Mathematical Problems in Engineering</i> , 2014, 2014, 1-5.	1.1	2
107	Novel Stability Criteria for T-S Fuzzy Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2014, 22, 313-323.	9.8	214
108	New approaches to finite-time stability and stabilization for nonlinear system. <i>Neurocomputing</i> , 2014, 138, 218-228.	5.9	10

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109	Reliable fault diagnosis method using ensemble fuzzy ARTMAP based on improved Bayesian belief method. <i>Neurocomputing</i> , 2014, 133, 309-316.	5.9	20
110	Improved results on stability of continuous-time switched positive linear systems. <i>Automatica</i> , 2014, 50, 614-621.	5.0	198
111	Robust Control of Continuous-Time Systems With State-Dependent Uncertainties and Its Application to Electronic Circuits. <i>IEEE Transactions on Industrial Electronics</i> , 2014, 61, 4161-4170.	7.9	133
112	Fault-tolerant control of Markovian jump stochastic systems via the augmented sliding mode observer approach. <i>Automatica</i> , 2014, 50, 1825-1834.	5.0	515
113	Finite-time H^∞ control of switched systems with mode-dependent average dwell time. <i>Journal of the Franklin Institute</i> , 2014, 351, 1301-1315.	3.4	81
114	A novel approach to stability analysis for switched positive linear systems. <i>Journal of the Franklin Institute</i> , 2014, 351, 3883-3898.	3.4	19
115	Estimator design of discrete-time switched positive linear systems with average dwell time. <i>Journal of the Franklin Institute</i> , 2014, 351, 579-588.	3.4	27
116	Absolute exponential stability and stabilization of switched nonlinear systems. <i>Systems and Control Letters</i> , 2014, 66, 51-57.	2.3	48
117	Stability of a class of switched positive linear time-delay systems. <i>International Journal of Robust and Nonlinear Control</i> , 2013, 23, 578-589.	3.7	185
118	Finite-time stabilization and boundedness of switched linear system under state-dependent switching. <i>Journal of the Franklin Institute</i> , 2013, 350, 541-555.	3.4	96
119	Asynchronous finite-time control for switched linear systems via mode-dependent dynamic state-feedback. <i>Nonlinear Analysis: Hybrid Systems</i> , 2013, 8, 109-120.	3.5	66
120	Observer-Based Robust Tracking Control for a Class of Switched Nonlinear Cascade Systems. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-9.	1.1	2
121	Weighted H_2 performance analysis of switched linear systems with mode-dependent average dwell time. <i>International Journal of Systems Science</i> , 2013, 44, 2130-2139.	5.5	61
122	Stability and Stabilization of Switched Linear Systems With Mode-Dependent Average Dwell Time. <i>IEEE Transactions on Automatic Control</i> , 2012, 57, 1809-1815.	5.7	971
123	Delay-dependent observer-based finite-time control for switched systems with time-varying delay. <i>Nonlinear Analysis: Hybrid Systems</i> , 2012, 6, 885-898.	3.5	100
124	Asynchronously switched control of a class of slowly switched linear systems. <i>Systems and Control Letters</i> , 2012, 61, 1151-1156.	2.3	108
125	Stability of switched positive linear systems with average dwell time switching. <i>Automatica</i> , 2012, 48, 1132-1137.	5.0	596
126	H^∞ Filtering Design for Linear Systems with Interval Time-Varying Delays. <i>Circuits, Systems, and Signal Processing</i> , 2012, 31, 347-359.	2.0	5

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127	Fault-Tolerant Control for Nonlinear Markovian Jump Systems via Proportional and Derivative Sliding Mode Observer Technique. IEEE Transactions on Circuits and Systems I: Regular Papers, 2011, 58, 2755-2764.	5.4	276
128	Delay-dependent stability criterion and H^∞ analysis for Markovian jump systems with time-varying delays. Asian Journal of Control, 2011, 13, 232-239.	3.0	23
129	Stabilization of jump linear systems with mode-dependent time-varying delays. Optimal Control Applications and Methods, 2011, 32, 139-152.	2.1	21
130	Delay-dependent H^∞ performance analysis and filtering for Markovian jump systems with interval time-varying delays. International Journal of Adaptive Control and Signal Processing, 2010, 24, 633-642.	4.1	9
131	Delay-dependent H^∞ performance analysis for Markovian jump systems with mode-dependent time varying delays and partially known transition rates. International Journal of Control, Automation and Systems, 2010, 8, 482-489.	2.7	22
132	Delay-dependent robust control for uncertain stochastic systems with Markovian switching and multiple delays. Journal of Systems Engineering and Electronics, 2010, 21, 287-295.	2.2	8