

# Jie Chen

## List of Publications by Citations

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

89  
papers

2,267  
citations

25  
h-index

45  
g-index

102  
ext. papers

2,844  
ext. citations

4.2  
avg, IF

5.18  
L-index

#	Paper	IF	Citations
89	On stability crossing curves for general systems with two delays. <i>Journal of Mathematical Analysis and Applications</i> , <b>2005</b> , 311, 231-253	1.1	221
88	A new method for computing delay margins for stability of linear delay systems. <i>Systems and Control Letters</i> , <b>1995</b> , 26, 107-117	2.4	182
87	. <i>IEEE Transactions on Automatic Control</i> , <b>1995</b> , 40, 1640-1645	5.9	181
86	Distributed adaptive coordination for multiple Lagrangian systems under a directed graph without using neighbors' velocity information. <i>Automatica</i> , <b>2013</b> , 49, 1723-1731	5.7	124
85	Limitations on maximal tracking accuracy. <i>IEEE Transactions on Automatic Control</i> , <b>2000</b> , 45, 326-331	5.9	106
84	Best tracking and regulation performance under control energy constraint. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 1320-1336	5.9	87
83	. <i>IEEE Transactions on Automatic Control</i> , <b>1995</b> , 40, 1087-1093	5.9	79
82	. <i>IEEE Transactions on Automatic Control</i> , <b>1995</b> , 40, 1700-1716	5.9	79
81	. <i>IEEE Transactions on Automatic Control</i> , <b>1995</b> , 40, 1675-1680	5.9	79
80	. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , <b>2002</b> , 49, 657-670		67
79	Delay Margin of Low-Order Systems Achievable by PID Controllers. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 1958-1973	5.9	47
78	Bipartite consensus of general linear multi-agent systems <b>2014</b> ,		47
77	Frequency-domain tests for validation of linear fractional uncertain models. <i>IEEE Transactions on Automatic Control</i> , <b>1997</b> , 42, 748-760	5.9	43
76	An Eigenvalue Perturbation Approach to Stability Analysis, Part I: Eigenvalue Series of Matrix Operators. <i>SIAM Journal on Control and Optimization</i> , <b>2010</b> , 48, 5564-5582	1.9	41
75	An Eigenvalue Perturbation Approach to Stability Analysis, Part II: When Will Zeros of Time-Delay Systems Cross Imaginary Axis?. <i>SIAM Journal on Control and Optimization</i> , <b>2010</b> , 48, 5583-5605	1.9	39
74	. <i>IEEE Transactions on Automatic Control</i> , <b>1995</b> , 40, 1260-1265	5.9	37
73	Fundamental performance limitations in tracking sinusoidal signals. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 1371-1380	5.9	35

72	Sensitivity integrals for multivariable discrete-time systems. <i>Automatica</i> , <b>1995</b> , 31, 1113-1124	5.7	33
71	The role of the condition number and the relative gain array in robustness analysis. <i>Automatica</i> , <b>1994</b> , 30, 1029-1035	5.7	31
70	Optimal tracking performance: preview control and exponential signals. <i>IEEE Transactions on Automatic Control</i> , <b>2001</b> , 46, 1647-1653	5.9	28
69	Optimal tracking performance of discrete-time systems over an additive white noise channel <b>2009</b> ,		26
68	. <i>IEEE Transactions on Automatic Control</i> , <b>1995</b> , 40, 729-735	5.9	26
67	. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 1219-1234	5.9	25
66	Structured singular values and stability analysis of uncertain polynomials, Part 2: a missing link. <i>Systems and Control Letters</i> , <b>1994</b> , 23, 97-109	2.4	25
65	Minimum-Energy Distributed Consensus Control of Multiagent Systems: A Network Approximation Approach. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 1144-1159	5.9	25
64	. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 1269-1284	5.9	22
63	Consensus of second-order heterogeneous multi-agent systems under a directed graph <b>2014</b> ,		22
62	Generalized eigenvalue-based stability tests for 2-D linear systems: Necessary and sufficient conditions. <i>Automatica</i> , <b>2006</b> , 42, 1569-1576	5.7	22
61	Optimal tracking performance for SIMO systems. <i>IEEE Transactions on Automatic Control</i> , <b>2002</b> , 47, 1770-1775	5.7	22
60	Structured singular values and stability analysis of uncertain polynomials, part 1: the generalized $\square$ <i>Systems and Control Letters</i> , <b>1994</b> , 23, 53-65	2.4	21
59	Bounds on Delay Consensus Margin of Second-Order Multiagent Systems With Robust Position and Velocity Feedback Protocol. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 3780-3787	5.9	21
58	Stabilization of two-input two-output systems over SNR-constrained channels. <i>Automatica</i> , <b>2013</b> , 49, 3133-3140	5.7	20
57	LFT uncertain model validation with time- and frequency-domain measurements. <i>IEEE Transactions on Automatic Control</i> , <b>1999</b> , 44, 1435-1441	5.9	20
56	Guest editorial new developments and applications in performance limitation of feedback control. <i>IEEE Transactions on Automatic Control</i> , <b>2003</b> , 48, 1297-1297	5.9	19
55	Multivariable gain-phase and sensitivity integral relations and design trade-offs. <i>IEEE Transactions on Automatic Control</i> , <b>1998</b> , 43, 373-385	5.9	18

54	Effect of carbon nanotubes and their dispersion on thermal curing of polyimide precursors. <i>Polymer Degradation and Stability</i> , <b>2010</b> , 95, 1672-1678	4.7	17
53	Fundamental limit of discrete-time systems in tracking multi-tone sinusoidal signals. <i>Automatica</i> , <b>2007</b> , 43, 15-30	5.7	16
52	. <i>IEEE Transactions on Automatic Control</i> , <b>1995</b> , 40, 769-776	5.9	14
51	Structured singular values with nondiagonal structures. I. Characterizations. <i>IEEE Transactions on Automatic Control</i> , <b>1996</b> , 41, 1507-1511	5.9	14
50	Worst case identification of continuous time systems via interpolation. <i>Automatica</i> , <b>1994</b> , 30, 1825-1837	5.7	14
49	Stability of systems with time-varying delays: An L1 small-gain perspective. <i>Automatica</i> , <b>2015</b> , 52, 260-265	5.7	12
48	Optimal tracking over an additive white Gaussian noise channel <b>2009</b> ,		12
47	Necessary and sufficient conditions for mean square stabilization over MIMO SNR-constrained channels <b>2012</b> ,		12
46	On performance limitation in tracking a sinusoid. <i>IEEE Transactions on Automatic Control</i> , <b>2006</b> , 51, 1320-1325	5.3	12
45	Bounds on generalized structured singular values via the Perron root of matrix majorants. <i>Systems and Control Letters</i> , <b>1992</b> , 19, 439-449	2.4	12
44	Best Achievable Tracking Performance in Sampled-Data Systems via LTI Controllers. <i>IEEE Transactions on Automatic Control</i> , <b>2008</b> , 53, 2467-2479	5.9	11
43	On stabilizability of MIMO systems over parallel noisy channels <b>2014</b> ,		10
42	Consensus of linear multi-agent systems with fully distributed control gains under a general directed graph <b>2014</b> ,		10
41	Parametric $H_{\infty}$ loopshaping and weighted mixed sensitivity minimization. <i>IEEE Transactions on Automatic Control</i> , <b>1999</b> , 44, 846-852	5.9	10
40	Secure State Estimation With Byzantine Sensors: A Probabilistic Approach. <i>IEEE Transactions on Automatic Control</i> , <b>2020</b> , 65, 3742-3757	5.9	9
39	A comparison of small gain versus Lyapunov type robust stability bounds. <i>International Journal of Robust and Nonlinear Control</i> , <b>2001</b> , 11, 1407-1414	3.6	9
38	Explicit conditions for stabilization over noisy channels subject to SNR constraints <b>2013</b> ,		8
37	Optimal tracking design and performance analysis for LTI systems with quantization effects <b>2009</b> ,		8

36	Sensitivity integrals and transformation techniques: a new perspective. <i>IEEE Transactions on Automatic Control</i> , <b>1997</b> , 42, 1037-1044	5.9	8
35	High-Order Analysis Of Critical Stability Properties of Linear Time-Delay Systems. <i>Proceedings of the American Control Conference</i> , <b>2007</b> ,	1.2	8
34	H/sub /spl infin// identification of multivariable systems by tangential interpolation methods. <i>IEEE Transactions on Automatic Control</i> , <b>1996</b> , 41, 1822-1828	5.9	8
33	Output feedback stabilisation of single-input single-output linear systems with I/O network-induced delays. An eigenvalue-based approach. <i>International Journal of Control</i> , <b>2014</b> , 87, 346-362	1.5	7
32	Small-gain stability conditions for linear systems with time-varying delays. <i>Systems and Control Letters</i> , <b>2015</b> , 81, 42-48	2.4	7
31	On D-stability and structured singular values. <i>Systems and Control Letters</i> , <b>1995</b> , 24, 19-24	2.4	7
30	Performance bounds for coprime factor controller reductions. <i>Systems and Control Letters</i> , <b>1995</b> , 26, 119-127	2.4	7
29	Stability Analysis of Polynomially Dependent Systems by Eigenvalue Perturbation. <i>IEEE Transactions on Automatic Control</i> , <b>2017</b> , 62, 5915-5922	5.9	6
28	Decentralized and Passive Model Order Reduction of Linear Networks With Massive Ports. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , <b>2012</b> , 20, 865-877	2.6	6
27	Limitations on minimum tracking energy for SISO plants <b>2009</b> ,		6
26	Delay Consensus Margin of First-Order Multiagent Systems With Undirected Graphs and PD Protocols. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 4192-4198	5.9	6
25	Author's reply to a counterexample to Generalized eigenvalue-based stability tests for 2-D linear systems: Necessary and sufficient conditions. <i>Automatica</i> , <b>2010</b> , 46, 236-237	5.7	5
24	Structured singular values with nondiagonal structures. II. Computation. <i>IEEE Transactions on Automatic Control</i> , <b>1996</b> , 41, 1511-1516	5.9	5
23	. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	5
22	Mean Square Stabilization Over SNR-Constrained Channels With Colored and Spatially Correlated Additive Noises. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 4825-4832	5.9	4
21	Probabilistic bounds for . <i>Automatica</i> , <b>2007</b> , 43, 1064-1071	5.7	4
20	What Is Your Favorite Book on Classical Control? Responses to an Informal Survey. <i>IEEE Control Systems</i> , <b>2007</b> , 27, 89-99	2.9	4
19	Model Order Reduction Based on Dynamic Relative Gain Array for MIMO Systems. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2020</b> , 67, 2507-2511	3.5	4

18	Fundamental bounds on delay margin: When is a delay system stabilizable? <b>2014</b> ,		3
17	Stabilization of TITO Systems over Parallel SNR-Constrained AWN channels. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2012</b> , 45, 85-90		3
16	An Average Performance Limit of MIMO Systems in Tracking Multi-Sinusoids With Partial Signal Information. <i>IEEE Transactions on Automatic Control</i> , <b>2009</b> , 54, 2001-2006	5.9	3
15	Model invalidation in $\mathcal{H}_\infty$ using frequency-domain data. <i>IEEE Transactions on Automatic Control</i> , <b>2004</b> , 49, 983-989	5.9	3
14	Consensus over directed graph: Output feedback and topological constraints <b>2013</b> ,		2
13	Optimal Tracking Design of an MIMO Linear System with Quantization Effects. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2011</b> , 44, 3268-3273		2
12	Optimal tracking and power allocation over an additive white noise channel <b>2009</b> ,		2
11	On logarithmic complementary sensitivity integrals for MIMO systems <b>1998</b> ,		2
10	Computing Maximum Delay Deviation Allowed to Retain Stability in Systems with Two Delays. <i>Lecture Notes in Control and Information Sciences</i> , <b>2007</b> , 157-164	0.5	2
9	Delay Robustness of PID Control of Second-Order Systems: Pseudo-Concavity, Exact Delay Margin, and Performance Trade-Off. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 1-1	5.9	2
8	Power Gain Bounds of MIMO Networked Control Systems: An Entropy Perspective. <i>IEEE Transactions on Automatic Control</i> , <b>2019</b> , 64, 1170-1177	5.9	1
7	Probabilistic Estimates for Mixed Model Validation Problems With $\mathcal{H}_\infty$ Type Uncertainties. <i>IEEE Transactions on Automatic Control</i> , <b>2010</b> , 55, 1488-1494	5.9	1
6	. <i>IEEE Transactions on Circuits and Systems Part 1: Regular Papers</i> , <b>2002</b> , 49, 437-446		1
5	A nearly interpolatory algorithm for $\mathcal{H}_\infty$ identification with mixed time and frequency response data. <i>IEEE Transactions on Automatic Control</i> , <b>2001</b> , 46, 464-469	5.9	1
4	Consensus of Continuous-Time Multiagent Systems via Delayed Output Feedback: Delay Versus Connectivity. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 1329-1336	5.9	1
3	An Algebraic Formula for Performance Bounds of a Weighted $\mathcal{H}_\infty$ Optimal Control Problem. <i>IEEE Transactions on Automatic Control</i> , <b>2021</b> , 66, 781-786	5.9	0
2	Classical control revisited part II rounding out the basics. <i>IEEE Control Systems</i> , <b>2007</b> , 27, 28-29	2.9	
1	Modeling and Control of Flexible Structures in Frequency Domain <b>2007</b> , 147-164		

