

# Li Qiu

## List of Publications by Year in descending order

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117  
papers

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394286

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117  
all docs

117  
docs citations

117  
times ranked

896  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Distributed Economic Dispatch Strategy for Power-Water Networks. IEEE Transactions on Control of Network Systems, 2022, 9, 356-366.	2.4	90
2	A less conservative robust control method for a class of nonpassive uncertain systems. International Journal of Robust and Nonlinear Control, 2022, 32, 682-697.	2.1	5
3	System Monotonicity and Subspace Tracking: A Geometric Perspective of the Frisch-Shapiro Scheme. IEEE Transactions on Automatic Control, 2022, 67, 5872-5884.	3.6	2
4	Low Phase-Rank Approximation. Linear Algebra and Its Applications, 2022, 639, 177-204.	0.4	4
5	Phases of discrete-time LTI multivariable systems. Automatica, 2022, 142, 110311.	3.0	11
6	On Spectral Properties of Signed Laplacians With Connections to Eventual Positivity. IEEE Transactions on Automatic Control, 2021, 66, 2177-2190.	3.6	11
7	Stabilization of cascaded two-port networked systems with simultaneous nonlinear uncertainties. Automatica, 2021, 123, 109360.	3.0	0
8	Networked Robust Stability for LTV Systems with Simultaneous Uncertainties in Plant, Controller, and Communication Channels. SIAM Journal on Control and Optimization, 2021, 59, 1-23.	1.1	3
9	Robust Control in Gap Metric. , 2021, , 1941-1947.		0
10	Small Phase Theorem. , 2021, , 2082-2086.		0
11	Some counterexamples related to sectorial matrices and matrix phases. Examples and Counterexamples, 2021, 1, 100019.	0.3	0
12	New Phase of Phase. Journal of Systems Science and Complexity, 2021, 34, 1821-1839.	1.6	4
13	Stabilization of Two-Port Networked Systems With Simultaneous Uncertainties in Plant, Controller, and Communication Channels. IEEE Transactions on Automatic Control, 2020, 65, 1160-1175.	3.6	11
14	Market implementation of multiple-arrival multiple-deadline differentiated energy services. Automatica, 2020, 116, 108933.	3.0	3
15	On the phases of a complex matrix. Linear Algebra and Its Applications, 2020, 593, 152-179.	0.4	23
16	Synchronization of Heterogeneous Dynamical Networks via Phase Analysis. IFAC-PapersOnLine, 2020, 53, 3013-3018.	0.5	3
17	Controlling a Networked SIS Model via a Single Input over Undirected Graphs. IFAC-PapersOnLine, 2020, 53, 10981-10986.	0.5	6
18	Phase Analysis for Discrete-time LTI Multivariable Systems. IFAC-PapersOnLine, 2020, 53, 4398-4403.	0.5	3

#	ARTICLE	IF	CITATIONS
19	Small Phase Theorem. , 2020, , 1-5.		0
20	Stabilization of MIMO Systems Over Multiple Independent and Memoryless Fading Noisy Channels. IEEE Transactions on Automatic Control, 2019, 64, 1581-1594.	3.6	14
21	A Convex Approach to Frisch-Kalman Problem. , 2019, , .		2
22	Stabilizability of Discrete-time SISO System using MIMO Communication. , 2019, , .		0
23	Phase Analysis of MIMO LTI Systems. , 2019, , .		17
24	Networked stabilization of multi-input systems over shared channels with scheduling/control co-design. Automatica, 2019, 99, 188-194.	3.0	9
25	Robust Control in Gap Metric. , 2019, , 1-7.		0
26	A Majorization Condition for Multi-Input Networked Stabilization via Coding/Control Codesign. SIAM Journal on Control and Optimization, 2018, 56, 3129-3148.	1.1	2
27	Flocking of the Cucker-Smale Model on General Digraphs. IEEE Transactions on Automatic Control, 2017, 62, 5234-5239.	3.6	72
28	MAS Consensus and Delay Limits Under Delayed Output Feedback. IEEE Transactions on Automatic Control, 2017, 62, 4660-4666.	3.6	25
29	Distributed Algorithms for Computation of Centrality Measures in Complex Networks. IEEE Transactions on Automatic Control, 2017, 62, 2080-2094.	3.6	55
30	Differentiated Energy Services: Multiple Arrival Times and Multiple Deadlines * *The work in this paper was partially supported by Research Grants Council of Hong Kong Special Administrative Region, China, under the Theme-Based Research Scheme T23-701/14-N and the Hong Kong PhD Fellowship.. IFAC-PapersOnLine, 2017, 50, 207-212.	0.5	0
31	Stabilization of cascaded two-port networked systems against nonlinear perturbations. , 2017, , .		2
32	A dynamical network framework with application to stability of power networks. , 2017, , .		1
33	Coordinating flexible loads via optimization in the majorization order. , 2017, , .		1
34	On spectral properties of signed Laplacians for undirected graphs. , 2017, , .		7
35	Stability of networked feedback system with frequency-wise bounded uncertainty quartets. , 2017, , .		1
36	Projected spectrahedral cone-invariant realization of an LTI system with nonnegative impulse response. , 2016, , .		1

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37	Duration-differentiated energy services with peer-to-peer charging. , 2016, , .		2
38	Characterizing the positive semidefiniteness of signed Laplacians via Effective Resistances. , 2016, , .		22
39	On Semidefiniteness of Signed Laplacians with Application to Microgrids**This work was supported in parts by the Research Grants Council of Hong Kong Special Administrative Region, China, under the Theme-Based Research Scheme T23-701/14-N, the Knut and Alice Wallenberg Foundation, the Swedish Research Council, and a MURI Grant at the University of Illinois., IFAC-PapersOnLine, 2016, 49, 97-102.	0.5	11
40	Multi-leader selection in complex networks. , 2016, , .		1
41	Networked robust stabilization with simultaneous uncertainties in plant, controller and communication channels. , 2016, , .		6
42	Constrained (0,1)-matrix completion with a staircase of fixed zeros. Linear Algebra and Its Applications, 2016, 510, 171-185.	0.4	6
43	Linear Quadratic Optimal Control of Continuous-Time LTI Systems With Random Input Gains. IEEE Transactions on Automatic Control, 2016, 61, 2008-2013.	3.6	21
44	Feedback Stabilization of Networked Systems over Fading Channels with Resource Allocation. IFAC-PapersOnLine, 2015, 48, 363-367.	0.5	3
45	Measure of instability. Journal of Control and Decision, 2015, 2, 87-98.	0.7	3
46	A majorization condition for MIMO stabilizability via MIMO transceivers with pure fading subchannels. , 2015, , .		3
47	Randomized incremental algorithms for the PageRank computation. , 2015, , .		3
48	Duration-deadline jointly differentiated energy services. , 2015, , .		10
49	Feasible channel capacity region for MIMO stabilization via MIMO communication. , 2015, , .		3
50	Networked stabilization for multi-input systems over quantized fading channels. Automatica, 2015, 61, 1-8.	3.0	13
51	MIMO control using MIMO communication: A Majorization condition for networked stabilizability. , 2015, , .		8
52	Networked stabilization of sampled-data systems over quantized fading channels. , 2014, , .		0
53	Partial-Information State-Based Optimization of Partially Observable Markov Decision Processes and the Separation Principle. IEEE Transactions on Automatic Control, 2014, 59, 921-936.	3.6	17
54	Stabilization of networked control systems with multirate sampling. Automatica, 2013, 49, 1528-1537.	3.0	80

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55	Preclassical Tools for Postmodern Control: An Optimal and Robust Control Theory for Undergraduate Education. IEEE Control Systems, 2013, 33, 26-38.	1.0	10
56	Modeling quantized fading channels as uncertainty: A quasi-Signal-to-Noise-Ratio approach. , 2013, , .		1
57	Networked feedback stabilization over quantized fading channels. , 2013, , .		3
58	A channel/controller co-design approach for infinite-horizon LQR problem with random input gains. , 2013, , .		0
59	Consensus over directed graph: Output feedback and topological constraints. , 2013, , .		5
60	Networked stabilization with polar logarithmic quantization. , 2013, , .		0
61	Stabilization of Networked Multi-Input Systems With Channel Resource Allocation. IEEE Transactions on Automatic Control, 2013, 58, 554-568.	3.6	93
62	A mixed deterministic and stochastic small gain theorem and its application to networked stabilization. , 2013, , .		2
63	Stabilization of networked multi-input systems over a shared bus with scheduling/control co-design. , 2013, , .		0
64	Infinite-horizon linear quadratic optimal control for discrete-time LTI systems with random input gains. , 2013, , .		6
65	Continuous-time indefinite linear quadratic optimal control with random input gains. , 2013, , .		0
66	LQG control of LTI systems with random input and output gains. , 2012, , .		4
67	Networked state estimation of MIMO Systems. , 2012, , .		1
68	Feedback Stabilization of Discrete-Time Networked Systems Over Fading Channels. IEEE Transactions on Automatic Control, 2012, 57, 2176-2189.	3.6	229
69	Linear quadratic optimal control of continuous-time LTI systems with random input gains. , 2012, , .		6
70	Networked feedback control over fading channels and the relation to $H_{\infty}$ control. , 2012, , .		3
71	Stabilization of networked multi-input systems over AWGN channels with channel resource allocation. , 2011, , .		5
72	Stabilization of multirate networked control systems. , 2011, , .		2

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73	A two-port approach to networked feedback stabilization. , 2011, , .		10
74	Robust stabilization of multiplicative/relative uncertain systems and networked feedback control. , 2009, , .		4
75	State estimation over a network: Packet-dropping analysis and design. , 2009, , .		2
76	An Average Performance Limit of MIMO Systems in Tracking Multi-Sinusoids With Partial Signal Information. IEEE Transactions on Automatic Control, 2009, 54, 2001-2006.	3.6	4
77	Mean square stabilization of multi-input systems over stochastic multiplicative channels. , 2009, , .		24
78	Best Achievable Tracking Performance in Sampled-Data Systems via LTI Controllers. IEEE Transactions on Automatic Control, 2008, 53, 2467-2479.	3.6	20
79	Stabilization of networked multi-input systems with channel resource allocation. , 2008, , .		0
80	Networked Stabilization of Multi-Input Systems with Channel Resource Allocation. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2008, 41, 625-630.	0.4	28
81	Interaction Preference of Firms in Industrial Cluster and Evolution of Knowledge Networks: A Model and Simulation. , 2007, , .		0
82	An $H^\infty$ approach to robust adaptive control. , 2007, , .		0
83	A gain scheduled controller for sinusoidal ripple elimination of AC PM motor systems. , 2007, , .		5
84	On the span of Hadamard products of vectors. Linear Algebra and Its Applications, 2007, 422, 304-307.	0.4	8
85	Bias compensation based recursive least-squares identification algorithm for MISO systems. IEEE Transactions on Circuits and Systems Part 2: Express Briefs, 2006, 53, 349-353.	2.3	111
86	On Performance Limitation in Tracking a Sinusoid. IEEE Transactions on Automatic Control, 2006, 51, 1320-1325.	3.6	21
87	A LQG Control Problem with Degree and Robustness Constraints. , 2006, , .		0
88	A Mixed $H_2/H_\infty$ Control Problem with Controller Degree Constraint. , 2006, , .		2
89	Unitarily Invariant Metrics on the Grassmann Space. SIAM Journal on Matrix Analysis and Applications, 2005, 27, 507-531.	0.7	48
90	Torque and Velocity Ripple Elimination of AC Permanent Magnet Motor Control Systems Using the Internal Model Principle. IEEE/ASME Transactions on Mechatronics, 2004, 9, 436-447.	3.7	55

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91	Design and analysis of a plug-in robust compensator: an application to indirect-field-oriented-control induction machine drives. IEEE Transactions on Industrial Electronics, 2003, 50, 272-282.	5.2	21
92	Position control of linear switched reluctance motors for high-precision applications. IEEE Transactions on Industry Applications, 2003, 39, 1350-1362.	3.3	89
93	Fundamental performance limitations in tracking sinusoidal signals. IEEE Transactions on Automatic Control, 2003, 48, 1371-1380.	3.6	50
94	Model validation of multirate systems from time-domain experimental data. IEEE Transactions on Automatic Control, 2002, 47, 346-351.	3.6	4
95	Model validation of multirate systems from time-domain experimental data. , 2001, , .		0
96	Stabilization of exponentially unstable linear systems with saturating actuators. IEEE Transactions on Automatic Control, 2001, 45, 973-979.	3.6	64
97	Connection of Multiplicative/Relative Perturbation in Coprime Factors and Gap Metric Uncertainty. Automatica, 1998, 34, 603-607.	3.0	16
98	Direct State Space Solution of Multirate Sampled-Data H2 Optimal Control. Automatica, 1998, 34, 1431-1437.	3.0	22
99	Limitations on optimal tracking performance of discrete time systems. , 1997, , .		5
100	Limitations on maximal tracking accuracy. 2. Tracking sinusoidal and ramp signals. , 1997, , .		11
101	COMPLEX AND REAL PERFORMANCE RADII AND THEIR COMPUTATION. International Journal of Robust and Nonlinear Control, 1997, 7, 187-209.	2.1	2
102	On the robustness of symmetric systems. , 0, , .		0
103	Limitations on maximal tracking accuracy. I. Tracking step signals. , 0, , .		14
104	Complex and real performance radii and their computation. , 0, , .		0
105	Model validation of multirate systems from time-domain experimental data. , 0, , .		0
106	Topics on multirate systems: frequency response, interpolation, model validation. , 0, , .		3
107	Stabilization of linear systems with input constraints. , 0, , .		1
108	Properties of matrix polynomials and MIMO channel identifiability from second order statistics. , 0, , .		1

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109	Extended argument principle and integral design constraints. Part I. A unified formula for classical results. , 0, , .		4
110	Short distance position control for linear switched reluctance motors: a plug-in robust compensator approach. , 0, , .		7
111	Extended argument principle and integral design constraints. II. New integral relations. , 0, , .		0
112	Multirate periodic systems, $\hat{1}/2$ -gap metric and robust stabilization. , 0, , .		0
113	Pre-classical tools for post-modern control. , 0, , .		6
114	Performance limitation in random sinusoidal signal estimation. , 0, , .		0
115	On Performance Limitation in Tracking Sinusoids. , 0, , .		4
116	Performance Limitation of a Linear System in Tracking Sinusoidal Signals. , 0, , .		0
117	Finsler geometries on strictly accretive matrices. Linear and Multilinear Algebra, 0, , 1-19.	0.5	1