

# Kemin Zhou

## List of Publications by Year in descending order

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71  
papers

2,741  
citations

623734

14  
h-index

477307

29  
g-index

72  
all docs

72  
docs citations

72  
times ranked

1140  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust stabilization of linear systems with norm-bounded time-varying uncertainty. Systems and Control Letters, 1988, 10, 17-20.	2.3	428
2	Stability robustness bounds for linear state-space models with structured uncertainty. IEEE Transactions on Automatic Control, 1987, 32, 621-623.	5.7	330
3	A new controller architecture for high performance, robust, and fault-tolerant control. IEEE Transactions on Automatic Control, 2001, 46, 1613-1618.	5.7	279
4	Mixed $H_2$ and $H_\infty$ performance objectives. I. Robust performance analysis. IEEE Transactions on Automatic Control, 1994, 39, 1564-1574.	5.7	234
5	Detection, estimation, and accommodation of loss of control effectiveness. International Journal of Adaptive Control and Signal Processing, 2000, 14, 775-795.	4.1	221
6	A time domain approach to robust fault detection of linear time-varying systems. Automatica, 2009, 45, 94-102.	5.0	155
7	Balanced realization and model reduction for unstable systems. International Journal of Robust and Nonlinear Control, 1999, 9, 183-198.	3.7	136
8	Frequency-weighted $H_\infty$ norm and optimal Hankel norm model reduction. IEEE Transactions on Automatic Control, 1995, 40, 1687-1699.	5.7	126
9	Robust stability of uncertain time-delay systems. IEEE Transactions on Automatic Control, 2000, 45, 2169-2173.	5.7	123
10	Multiobjective $H_\infty/H_2$ Control Design. SIAM Journal on Control and Optimization, 2001, 40, 628-660.	2.1	115
11	Control reconfigurability of linear time-invariant systems. Automatica, 2000, 36, 1767-1771.	5.0	113
12	A Generic Model-Based Advanced Control of Electric Power-Assisted Steering Systems. IEEE Transactions on Control Systems Technology, 2008, 16, 1289-1300.	5.2	80
13	Optimal Robust Fault Detection for Linear Discrete Time Systems. Journal of Control Science and Engineering, 2008, 2008, 1-16.	1.0	47
14	$H_\infty$ Gaussian filter on infinite time horizon. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2002, 49, 674-679.	0.1	37
15	$H_\infty$ identification of multivariable systems by tangential interpolation methods. IEEE Transactions on Automatic Control, 1996, 41, 1822-1828.	5.7	21
16	A probabilistic approach to robust control. , 0, , .		20
17	Optimal solutions to multi-objective robust fault detection problems. , 2007, , .		18
18	Revisit of LQG Control—A New Paradigm with Recovered Robustness. , 2019, , .		18

#	ARTICLE	IF	CITATIONS
19	Robust control of uncertain time delay systems. , 0, , .		17
20	Control effectiveness estimation using an adaptive Kalman estimator. , 0, , .		15
21	On the Stabilization of Uncertain Linear Systems via Bound Invariant Lyapunov Functions. SIAM Journal on Control and Optimization, 1988, 26, 1265-1273.	2.1	12
22	Mixed control design: Numerical optimization approaches. International Journal of Control, 2003, 76, 687-697.	1.9	12
23	Detection, estimation, and accommodation of loss of control effectiveness. International Journal of Adaptive Control and Signal Processing, 2000, 14, 775-795.	4.1	11
24	On the probabilistic characterization of model uncertainty and robustness. , 0, , .		10
25	Preclassical Tools for Postmodern Control: An Optimal and Robust Control Theory for Undergraduate Education. IEEE Control Systems, 2013, 33, 26-38.	0.8	10
26	Experimental characterization and modeling of stress-dependent hysteresis of a giant magnetostrictive actuator. Science China Technological Sciences, 2013, 56, 656-665.	4.0	10
27	Fault diagnosis and reconfigurable control for flight control systems with actuator failures. , 2004, , .		9
28	FAULT TOLERANT SAFE FLIGHT CONTROLLER BANK 1. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 807-812.	0.4	9
29	Remarks on stochastic model reduction. IEEE Transactions on Automatic Control, 1987, 32, 356-358.	5.7	8
30	Fault detection for linear discrete time-varying systems. , 2010, , .		8
31	Constrained robustness analysis by randomized algorithms. IEEE Transactions on Automatic Control, 2000, 45, 1180-1186.	5.7	7
32	Fast universal algorithms for robustness analysis. , 0, , .		7
33	On the Design of Unknown Input Observers and Fault Detection Filters. , 2006, , .		7
34	A new family of unitary space-time codes with a fast parallel sphere decoder algorithm. IEEE Transactions on Information Theory, 2006, 52, 115-140.	2.4	7
35	Optimal control of electric power-assisted steering system. , 0, , .		6
36	Risk analysis in robust control - making the case for probabilistic robust control. , 0, , .		6

#	ARTICLE	IF	CITATIONS
37	Robustness Issues in Fault Diagnosis and Fault Tolerant Control. Journal of Control Science and Engineering, 2008, 2008, 1-2.	1.0	6
38	Fault detection for linear discrete-time invariant systems with decoupling and optimization. , 2009, , .		6
39	$H_2$ and $H_\infty$ controller reductions with guaranteed performance. , 0, , .		5
40	A new statistical approach for the analysis of uncertain systems. Journal of Systems Science and Complexity, 2009, 22, 1-34.	2.8	5
41	New approaches for $\infty$ performance preserving controller reduction. , 2011, , .		5
42	Robust stabilization of MIMO uncertain nonlinear systems without strict feedback conditions. , 1998, , .		4
43	Optimal robust fault detection for linear discrete time systems. , 2007, , .		4
44	Explicit Formula for Constructing Binomial Confidence Interval with Guaranteed Coverage Probability. Communications in Statistics - Theory and Methods, 2008, 37, 1173-1180.	1.0	4
45	Robust Stabilization of Uncertain Systems. , 1988, , .		3
46	Robust stability and performance of uncertain delay systems with structured uncertainties. , 0, , .		3
47	A comparative study of $H_\infty$ controller reduction methods. , 0, , .		2
48	On mixed $H_2/H_\infty$ control. , 0, , .		2
49	An approximation approach to decentralized $H_\infty$ control. , 0, , .		2
50	Fast construction of robustness degradation function. , 0, , .		2
51	Fast parallel-frequency-sweeping algorithms for robust D-stability margin. IEEE Transactions on Circuits and Systems Part 1: Regular Papers, 2003, 50, 418-428.	0.1	2
52	A time domain approach to robust fault detection of linear time-varying systems. , 2007, , .		2
53	Rate-dependent modeling and control of GMA based on Hammerstein model with Preisach operator. , 2012, , .		2
54	Balanced realization and model reduction for unstable systems. , 1999, 9, 183.		2

#	ARTICLE	IF	CITATIONS
55	Balanced truncation with relative/multiplicative error bounds in $L_2$ norm. , 0, , .		1
56	Weighted $H_2$ norm approximation. , 0, , .		1
57	Stabilization of multi-input stochastic nonlinear systems. , 0, , .		1
58	Robust fault diagnosis for linear time invariant uncertain systems. , 2008, , .		1
59	Balanced realization and model reduction for unstable systems. International Journal of Robust and Nonlinear Control, 1999, 9, 183-198.	3.7	1
60	Identification in $H_2$ via convex programming. , 1993, , .		1
61	Frequency weighted model reduction with $L_2$ error bounds. , 1993, , .		1
62	Multi-objective $H_2/H_\infty$ Control Designs. , 2020, , 1-11.		1
63	Global disturbance attenuation for MIMO nonlinear systems with controlled output containing input. , 0, , .		0
64	Robustness of a class of stabilizing controllers for bifurcated systems. , 0, , .		0
65	Finite time horizon multiobjective filtering and control. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1999, 32, 3454-3459.	0.4	0
66	Integrated Failure Accommodation Methods. , 2005, , .		0
67	Measurement Complexity of Rayleigh Fading Channels. IEEE Transactions on Vehicular Technology, 2009, 58, 3776-3781.	6.3	0
68	Robust control of tonal reproduction curves for the xerographic system. , 2009, , .		0
69	A new perspective on $H_2/H_\infty$ controller reduction. , 2012, , .		0
70	Multi-objective $H_2/H_\infty$ Control Designs. , 2021, , 1379-1389.		0
71	Fault Tolerant Safe Flight Controller Bank11Partially supported by NASA and the Louisiana Board of Regents under research contract LEQSF(2001 04)-01. , 2007, , 807-812.		0