

# 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.

52  
papers

2,132  
citations

16  
h-index

46  
g-index

54  
ext. papers

2,577  
ext. citations

2.7  
avg, IF

4.71  
L-index

#	Paper	IF	Citations
52	Design of unknown input observers and robust fault detection filters. <i>International Journal of Control</i> , <b>1996</b> , 63, 85-105	1.5	54 <sup>0</sup>
51	Observer-based fault detection and isolation: Robustness and applications. <i>Control Engineering Practice</i> , <b>1997</b> , 5, 671-682	3.9	33 <sup>1</sup>
50	Review of parity space approaches to fault diagnosis for aerospace systems. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1994</b> , 17, 278-285	2.1	148
49	Robust fault detection of jet engine sensor systems using eigenstructure assignment. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1992</b> , 15, 1491-1497	2.1	109
48	Optimal unknown input distribution matrix selection in robust fault diagnosis. <i>Automatica</i> , <b>1993</b> , 29, 837-841	5.7	104
47	Prediction of room temperature and relative humidity by autoregressive linear and nonlinear neural network models for an open office. <i>Energy and Buildings</i> , <b>2011</b> , 43, 1452-1460	7	102
46	Development of room temperature and relative humidity linear parametric models for an open office using BMS data. <i>Energy and Buildings</i> , <b>2010</b> , 42, 348-356	7	102
45	Optimal filtering and robust fault diagnosis of stochastic systems with unknown disturbances. <i>IET Control Theory and Applications</i> , <b>1996</b> , 143, 31-36		97
44	On eigenstructure assignment for robust fault diagnosis. <i>International Journal of Robust and Nonlinear Control</i> , <b>2000</b> , 10, 1193-1208	3.6	81
43	Robust detection of faulty actuators via unknown input observers. <i>International Journal of Systems Science</i> , <b>1991</b> , 22, 1829-1839	2.3	68
42	Optimal residual design for fault diagnosis using multi-objective optimization and genetic algorithms. <i>International Journal of Systems Science</i> , <b>1996</b> , 27, 567-576	2.3	64
41	Model-based methods for fault diagnosis: some guide-lines. <i>Transactions of the Institute of Measurement and Control</i> , <b>1995</b> , 17, 73-83	1.8	47
40	Thermal behaviour prediction utilizing artificial neural networks for an open office. <i>Applied Mathematical Modelling</i> , <b>2010</b> , 34, 3216-3230	4.5	41
39	Active fault-tolerant flight control systems design using the linear matrix inequality method. <i>Transactions of the Institute of Measurement and Control</i> , <b>1999</b> , 21, 77-84	1.8	36
38	Standard H <sub>∞</sub> Filtering Formulation of Robust Fault Detection. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2000</b> , 33, 261-266		26
37	Robust Fault Detection and Isolation (FDI) Systems. <i>Control and Dynamic Systems</i> , <b>1996</b> , 171-224		25
36	Coupled NanoSQUIDs and Nano-Electromechanical Systems (NEMS) Resonators. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2013</b> , 23, 1800304-1800304	1.8	14

35	A study on neuro-fuzzy systems for fault diagnosis. <i>International Journal of Systems Science</i> , <b>2000</b> , 31, 1441-1448	2.3	14
34	Parity vector approach for detecting failures in dynamic systems. <i>International Journal of Systems Science</i> , <b>1990</b> , 21, 765-770	2.3	14
33	Focused Ion Beam NanoSQUIDs as Novel NEMS Resonator Readouts. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2009</b> , 19, 693-696	1.8	13
32	An eigenstructure assignment approach to FDI for the industrial actuator benchmark test. <i>Control Engineering Practice</i> , <b>1995</b> , 3, 1751-1756	3.9	13
31	Equivalent Air Spring Suspension Model for Quarter-Passive Model of Passenger Vehicles. <i>International Scholarly Research Notices</i> , <b>2015</b> , 2015, 974020	0	12
30	Novel methods of fabrication and metrology of superconducting nanostructures. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2007</b> , 56, 392-396	5.2	12
29	Spatial Resolution Assessment of Nano-SQUIDs Made by Focused Ion Beam. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2007</b> , 17, 742-745	1.8	12
28	Disturbance compensation based asymptotic tracking control for nonlinear systems with mismatched modeling uncertainties. <i>International Journal of Robust and Nonlinear Control</i> , <b>2021</b> , 31, 2993-3010	3.6	12
27	Fabrication and Analogue Applications of NanoSQUIDs Using Dayem Bridge Junctions. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2015</b> , 21, 1-8	3.8	10
26	Robust fault detection of dynamic systems via genetic algorithms. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , <b>1997</b> , 211, 357-364	1	10
25	Multiobjective controller design using eigenstructure assignment and the method of inequalities. <i>Journal of Guidance, Control, and Dynamics</i> , <b>1994</b> , 17, 862-864	2.1	8
24	Self-supporting graphene films and their applications. <i>IET Circuits, Devices and Systems</i> , <b>2015</b> , 9, 420-427 <sup>1.1</sup>		7
23	Microwave excitation and readout of nano- and micron scale cantilevers. <i>Applied Surface Science</i> , <b>2012</b> , 258, 2192-2195	6.7	7
22	Non-linear dynamic systems fault detection and isolation using fuzzy observers. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , <b>1999</b> , 213, 467-476 <sup>1</sup>		7
21	Sensor faults compensation for MIMO fault-tolerant control systems. <i>Transactions of the Institute of Measurement and Control</i> , <b>2006</b> , 28, 187-205	1.8	6
20	Uncertainty Modelling and Robust Fault Diagnosis for Dynamic Systems <b>2000</b> , 189-218		6
19	A Re-Examination of Fault Detectability and Isolability in Linear Dynamic Systems. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1994</b> , 27, 567-573		5
18	Near-field microwave excitation and detection of NEMS resonators <b>2012</b> ,		4

17	Formulating and Solving Robust Fault Diagnosis Problems Based on a H <sub>∞</sub> Setting. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>2008</b> , 41, 7259-7264		4
16	Investigation of Dayem Bridge NanoSQUIDs Made by Xe Focused Ion Beam. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2018</b> , 28, 1-5	1.8	3
15	Improved robustness and sensor fault tolerance via a generalized internal model-based fault-tolerant controller. <i>Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering</i> , <b>2007</b> , 221, 957-973	1	3
14	Robust fault diagnosis observer design using H <sub>∞</sub> <b>1996</b> ,		3
13	Neural networks based fault diagnosis for nonlinear dynamic systems <b>1995</b> ,		3
12	Development of near-field microwave methods for NEMS resonators <b>2013</b> ,		2
11	Investigating the Intrinsic Noise Limit of Dayem Bridge NanoSQUIDs. <i>IEEE Transactions on Applied Superconductivity</i> , <b>2014</b> , 1-1	1.8	1
10	Multi-functional MEMS/NEMS for nanometrology applications <b>2013</b> ,		1
9	Thermal behaviour model identification for an office space using BMS data. <i>Building Services Engineering Research and Technology</i> , <b>2009</b> , 30, 329-341	2.3	1
8	Modified feedback configuration for sensor fault tolerant control <b>2008</b> ,		1
7	Fault diagnosis and fault-tolerant estimation of a rail traction system via fuzzy observers. <i>Transactions of the Institute of Measurement and Control</i> , <b>1999</b> , 21, 14-20	1.8	1
6	Electromagnetic Metrology for NEMS <b>2018</b> ,		1
5	Design and Assessment of a Multiple Sensor Fault Tolerant Robust Control System. <i>Journal of Control Science and Engineering</i> , <b>2008</b> , 2008, 1-10	1.2	
4	Linear Matrix Inequality Formulation Of Fault-Tolerant Control Systems Design. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , <b>1998</b> , 31, 371-376		
3	Fault Tolerance Evaluation of a Neural Predictive Flight Control System <b>2007</b> , 330-335		
2	A Robust Controller Configuration for Multiple Sensor Fault Tolerance <b>2007</b> , 902-907		
1	. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2019</b> , 68, 1827-1832	5.2	