

# Faryar Jabbari

## List of Publications by Year in descending order

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96  
papers

2,654  
citations

186265

28  
h-index

197818

49  
g-index

96  
all docs

96  
docs citations

96  
times ranked

1518  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate Sliding-Mode Control of Pneumatic Systems Using Low-Cost Solenoid Valves. IEEE/ASME Transactions on Mechatronics, 2007, 12, 216-219.	5.8	151
2	Output feedback controllers for disturbance attenuation with actuator amplitude and rate saturation. Automatica, 2000, 36, 1339-1346.	5.0	143
3	Novel solid oxide fuel cell system controller for rapid load following. Journal of Power Sources, 2007, 172, 308-323.	7.8	133
4	Analysis of a molten carbonate fuel cell: Numerical modeling and experimental validation. Journal of Power Sources, 2006, 158, 213-224.	7.8	128
5	Disturbance attenuation for systems with input saturation: An LMI approach. IEEE Transactions on Automatic Control, 1999, 44, 852-857.	5.7	113
6	Dynamic Simulation of an Integrated Solid Oxide Fuel Cell System Including Current-Based Fuel Flow Control. Journal of Fuel Cell Science and Technology, 2006, 3, 144-154.	0.8	105
7	Coordinating plug-in electric vehicle charging with electric grid: Valley filling and target load following. Journal of Power Sources, 2014, 267, 584-597.	7.8	98
8	Robust control techniques for buildings under earthquake excitation. Earthquake Engineering and Structural Dynamics, 1994, 23, 539-552.	4.4	93
9	Control design of an atmospheric solid oxide fuel cell/gas turbine hybrid system: Variable versus fixed speed gas turbine operation. Journal of Power Sources, 2006, 161, 484-491.	7.8	92
10	Synergistic integration of a gas turbine and solid oxide fuel cell for improved transient capability. Journal of Power Sources, 2008, 176, 229-239.	7.8	90
11	Feedback control of solid oxide fuel cell spatial temperature variation. Journal of Power Sources, 2010, 195, 4222-4233.	7.8	78
12	H $\infty$ Control for Seismic-Excited Buildings with Acceleration Feedback. Journal of Engineering Mechanics - ASCE, 1995, 121, 994-1002.	2.9	72
13	Electric vehicle charging algorithms for coordination of the grid and distribution transformer levels. Energy, 2016, 113, 930-942.	8.8	71
14	On control concepts to prevent fuel starvation in solid oxide fuel cells. Journal of Power Sources, 2008, 180, 330-342.	7.8	69
15	Modified Anti-Windup Compensators for Stable Plants. IEEE Transactions on Automatic Control, 2009, 54, 1934-1939.	5.7	69
16	Investigation of thermal control for different SOFC flow geometries. Applied Energy, 2016, 178, 43-55.	10.1	68
17	Vibration Suppression with Resettable Device. Journal of Engineering Mechanics - ASCE, 2002, 128, 916-924.	2.9	63
18	Scheduled controllers for linear systems with bounded actuators. Automatica, 2003, 39, 1377-1387.	5.0	53

#	ARTICLE	IF	CITATIONS
19	On the intrinsic transient capability and limitations of solid oxide fuel cell systems. <i>Journal of Power Sources</i> , 2009, 187, 452-460.	7.8	53
20	H <sup>∞</sup> Active Seismic Response Control Using Static Output Feedback. <i>Journal of Engineering Mechanics - ASCE</i> , 1996, 122, 651-659.	2.9	50
21	A direct characterization of L/sub 2/-gain controllers for LPV systems. <i>IEEE Transactions on Automatic Control</i> , 1998, 43, 1302-1307.	5.7	50
22	Dynamic economic dispatch using complementary quadratic programming. <i>Energy</i> , 2019, 166, 755-764.	8.8	49
23	Control Design for a Bottoming Solid Oxide Fuel Cell Gas Turbine Hybrid System. <i>Journal of Fuel Cell Science and Technology</i> , 2007, 4, 221-230.	0.8	47
24	Experimental Verifications of H <sup>∞</sup> and Sliding Mode Control for Seismically Excited Buildings. <i>Journal of Structural Engineering</i> , 1996, 122, 69-75.	3.4	44
25	H <sub>2</sub> -based control strategies for civil engineering structures. <i>Structural Control and Health Monitoring</i> , 2003, 10, 205-230.	0.5	42
26	Containment control of multi-agent systems with input saturation and unknown leader inputs. <i>Automatica</i> , 2021, 130, 109677.	5.0	41
27	Multi-stage Anti-Windup Compensation for Open-loop Stable Plants. <i>IEEE Transactions on Automatic Control</i> , 2011, 56, 2166-2172.	5.7	39
28	Micro-grid energy dispatch optimization and predictive control algorithms; A UC Irvine case study. <i>International Journal of Electrical Power and Energy Systems</i> , 2015, 65, 179-190.	5.5	39
29	Development of Dynamic Modeling Tools for Solid Oxide and Molten Carbonate Hybrid Fuel Cell Gas Turbine Systems. , 2000, , .		32
30	Modeling and optimization of a combined cooling, heating and power plant system. , 2012, , .		29
31	Optimizing performance of a bank of chillers with thermal energy storage. <i>Applied Energy</i> , 2016, 172, 275-285.	10.1	26
32	Rate and magnitude-bounded actuators: scheduled output feedback design. <i>International Journal of Robust and Nonlinear Control</i> , 2004, 14, 1169-1184.	3.7	24
33	Analysis of stationary fuel cell dynamic ramping capabilities and ultra capacitor energy storage using high resolution demand data. <i>Journal of Power Sources</i> , 2006, 156, 472-479.	7.8	24
34	New anti-windup structure for magnitude and rate limited inputs and peak-bounded disturbances. <i>Automatica</i> , 2018, 97, 301-305.	5.0	23
35	Technical Development Issues and Dynamic Modeling of Gas Turbine and Fuel Cell Hybrid Systems. , 1999, , .		19
36	Controllers for linear systems with bounded actuators: Slab scheduling and anti-windup. <i>Automatica</i> , 2013, 49, 762-769.	5.0	18

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37	Application of a high-pressure gas semi-active resettable damper to the benchmark smart base-isolated building. <i>Structural Control and Health Monitoring</i> , 2006, 13, 748-757.	4.0	16
38	Modified Anti-windup compensators for stable plants: Dynamic Anti-windup case. , 2009, , .		16
39	Optimal Performance of Variable Stiffness Devices for Structural Control. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2007, 129, 171-177.	1.6	15
40	Design, Simulation and Control of a 100 MW-Class Solid Oxide Fuel Cell Gas Turbine Hybrid System. <i>Journal of Fuel Cell Science and Technology</i> , 2010, 7, .	0.8	14
41	Breakup control of a liquid jet by disturbance manipulation. <i>Physics of Fluids</i> , 2010, 22, 107103.	4.0	14
42	Actuator Limitations in Spatial Temperature Control of SOFC. <i>Journal of Fuel Cell Science and Technology</i> , 2013, 10, .	0.8	14
43	Enhanced performance of counter flow SOFC with partial internal reformation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 19753-19766.	7.1	14
44	Linear Quadratic Regulator for a Bottoming Solid Oxide Fuel Cell Gas Turbine Hybrid System. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2009, 131, .	1.6	13
45	Design of a 20,000 Pound Variable Stiffness Actuator for Structural Vibration Attenuation. <i>Shock and Vibration</i> , 2008, 15, 687-696.	0.6	12
46	A decentralized, non-iterative smart protocol for workplace charging of battery electric vehicles. <i>Applied Energy</i> , 2020, 272, 115187.	10.1	12
47	Inter-Laboratory Dynamic Modeling of a Carbonate Fuel Cell for Hybrid Application. , 2003, , .		12
48	Disturbance Attenuation of LPV Systems with Bounded Inputs. <i>Journal of Dynamical and Control Systems</i> , 2001, 11, 133-150.	0.4	11
49	Modified dynamic anti-windup through deferral of activation. <i>International Journal of Robust and Nonlinear Control</i> , 2012, 22, 1661-1673.	3.7	11
50	Robustness bounds for linear systems under uncertainty - Eigenvalues inside a wedge. <i>Journal of Guidance, Control, and Dynamics</i> , 1993, 16, 695-701.	2.8	10
51	Dynamics and control of a thermally self-sustaining energy storage system using integrated solid oxide cells for an islanded building. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 24891-24908.	7.1	10
52	Linear Multiobjective Control Strategies for Wind-Excited Buildings. <i>Journal of Engineering Mechanics - ASCE</i> , 2004, 130, 471-477.	2.9	9
53	Principles of Lossless Adjustable One-Ports. <i>IEEE Transactions on Automatic Control</i> , 2020, 65, 252-262.	5.7	7
54	Use of scheduling for anti-windup controller design. <i>Proceedings of the American Control Conference</i> , 2007, , .	0.0	6

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55	Scheduled static Anti-windup augmentation synthesis for open-loop stable plants. , 2010, , .		6
56	Transient Performance of Integrated SOFC System Including Spatial Temperature Control. , 2010, , .		6
57	Multi-stage anti-windup for LTI systems with actuator magnitude and rate saturation. , 2016, , .		6
58	Control Design for a Bottoming Solid Oxide Fuel Cell Gas Turbine Hybrid System. , 2006, , 629.		5
59	A Robust Advantaged Node Placement Strategy for Sparse Network Graphs. IEEE Transactions on Network Science and Engineering, 2018, 5, 113-126.	6.4	5
60	Leader-follower Consensus of Linear Multi-Agent Systems with Input Saturation. , 2019, , .		5
61	Vector-channel lattice filters for the delta operator: Complete derivation. Journal of Dynamical and Control Systems, 1992, 2, 113-129.	0.4	4
62	Dynamic Simulation of an Integrated Solid Oxide Fuel Cell System Including Current-Based Fuel Flow Control. , 2005, , 413.		4
63	Dilated matrix inequalities for control design in systems with actuator constraint. , 2007, , .		4
64	Scheduling in anti-windup controllers: Output feedback case. , 2007, , .		4
65	Modified anti-windup compensators for stable linear systems. , 2008, , .		4
66	Order-variable adaptive pole-placement controllers for a flexible system. Journal of Guidance, Control, and Dynamics, 1991, 14, 680-683.	2.8	3
67	On bounded real matrix inequality dilation. International Journal of Control, 2012, 85, 1593-1601.	1.9	3
68	Anti-Windup Designs for Systems with Amplitude and Rate Bounded Actuators * *Research is supported by NSF Grant CMMI-1461583.. IFAC-PapersOnLine, 2017, 50, 11509-11514.	0.9	3
69	Connectivity Maintenance in Mobile Networks. IEEE/ACM Transactions on Networking, 2020, 28, 1269-1282.	3.8	3
70	CONTROLLING LIQUID JET BREAKUP WITH PRACTICAL PIEZOELECTRIC DEVICES. Small Group Research, 2009, 19, 135-155.	2.7	3
71	Thermodynamic and Dynamic Analysis of a Wind-Powered Off-Grid Industrial Building Integrated With Solid Oxide Fuel Cell and Electrolyzer for Energy Management and Storage. Journal of Electrochemical Energy Conversion and Storage, 2022, 19, .	2.1	3
72	Leader-Follower Tracking for General Multiagent Systems With Unknown Leader Input and Limited Actuation. IEEE Transactions on Control of Network Systems, 2023, 10, 1149-1158.	3.7	3

#	ARTICLE	IF	CITATIONS
73	<title>Performance-based design of active/hybrid protective systems for vibration reduction of buildings</title> . , 2001, 4330, 313.		2
74	Disturbance attenuation via strictly positive real compensators. Journal of the Franklin Institute, 2003, 340, 515-521.	3.4	2
75	Design, Simulation, and Control of a 100 Megawatt-Class Solid Oxide Fuel Cell Gas Turbine Hybrid System. , 2008, , .		2
76	Scheduled controllers for linear systems with bounded actuators: Slab condition. , 2009, , .		2
77	Multiple stage anti-windup augmentation synthesis for open-loop stable plants. , 2010, , .		2
78	Controlling Spatial Temperature Variation in a Rapid Load Following SOFC. , 2013, , .		2
79	Use of Anti-Windup Techniques for Control of Solid Oxide Fuel Cells. , 2016, , .		2
80	3D optimal defensive guidance strategy with safe distance. Transactions of the Institute of Measurement and Control, 2019, 41, 4285-4300.	1.7	2
81	MODELING THE BREAKUP OF LIQUID JETS SUBJECTED TO PURE AND COMPOSITE DISTURBANCES. Atomization and Sprays, 2012, 22, 543-559.	0.8	2
82	A digital input/output model for trace-class systems. Journal of Mathematical Analysis and Applications, 1989, 144, 89-108.	1.0	1
83	TRACKING WITH BOUNDED ACTUATORS: SCHEDULED CONTROLLERS. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2005, 38, 222-228.	0.4	1
84	Optimizing performance of a thermal energy storage system. , 2014, , .		1
85	Effectiveness of resettable energy dissipating devices in seismic response modification of elastic SDOF systems. Earthquake Engineering and Structural Dynamics, 2016, 45, 2571-2588.	4.4	1
86	Thermal control of SOFC: An anti-windup approach for maximizing usable power. , 2017, , .		1
87	Enhanced Power Generation in SOFCs Using Artificial Limits on Actuator Control Signals. Journal of Electrochemical Energy Conversion and Storage, 2019, 16, .	2.1	1
88	Gain-scheduled control of time-varying delay systems with input constraint. International Journal of Control, 2019, 92, 2291-2299.	1.9	1
89	Circular Implementation of Vector-Channel Lattices. , 1992, , .		1
90	Lattice implementation of the instrumental variable method: Shift and delta operator formulations. Journal of Dynamical and Control Systems, 1996, 6, 361-386.	0.4	0

#	ARTICLE	IF	CITATIONS
91	Design of Controllers for Quadratic Stability and Disturbance Attenuation of Uncertain Systems. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1997, 119, 594-598.	1.6	0
92	Combining Anti-Windup and Over-Saturation. , 2007, , .		0
93	Scheduled Anti-Windup Controllers for Application to Aircraft in Unstable Operating Conditions. , 2007, , .		0
94	Anti-windup with Slab-based Scheduling for Systems with Bounded Actuators. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 13426-13431.	0.4	0
95	53rd IEEE Conference on Decision and Control [Conference Reports]. IEEE Control Systems, 2015, 35, 61-66.	0.8	0
96	A High Dynamic Range $\hat{w}$ Modulator using Anti-Windup Compensated Integrators. IFAC-PapersOnLine, 2020, 53, 5550-5555.	0.9	0