

# Soheil Jafari

## List of Publications by Year in descending order

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53  
papers

685  
citations

623734

14  
h-index

610901

24  
g-index

57  
all docs

57  
docs citations

57  
times ranked

368  
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduced-dimensional MPC controller for direct thrust control. Chinese Journal of Aeronautics, 2022, 35, 66-81.	5.3	10
2	Aircraft thermal management: Practices, technology, system architectures, future challenges, and opportunities. Progress in Aerospace Sciences, 2022, 128, 100767.	12.1	57
3	Thermal Management System Architecture for Hydrogen-Powered Propulsion Technologies: Practices, Thematic Clusters, System Architectures, Future Challenges, and Opportunities. Energies, 2022, 15, 304.	3.1	10
4	Self-enhancing model-based control for active transient protection and thrust response improvement of gas turbine aero-engines. Energy, 2022, 242, 123030.	8.8	18
5	Analysis of Control-System Strategy and Design of a Small Modular Reactor with Different Working Fluids for Electricity and Hydrogen Production as Part of a Decentralised Mini Grid. Energies, 2022, 15, 2224.	3.1	1
6	Advanced Control Algorithm for FADEC Systems in the Next Generation of Turbofan Engines to Minimize Emission Levels. Mathematics, 2022, 10, 1780.	2.2	1
7	Filament wound pipes optimization platform development: A methodological approach. Composite Structures, 2022, 297, 115972.	5.8	3
8	Advanced optimization of gas turbine aero-engine transient performance using linkage-learning genetic algorithm: Part II, optimization in flight mission and controller gains correlation development. Chinese Journal of Aeronautics, 2021, 34, 568-588.	5.3	21
9	Advanced optimization of gas turbine aero-engine transient performance using linkage-learning genetic algorithm: Part I, building blocks detection and optimization in runway. Chinese Journal of Aeronautics, 2021, 34, 526-539.	5.3	10
10	Hybrid Wiener model: An on-board approach using post-flight data for gas turbine aero-engines modelling. Applied Thermal Engineering, 2021, 184, 116350.	6.0	18
11	Key performance indicators for turboelectric distributed propulsion. International Journal of Productivity and Performance Management, 2021, ahead-of-print, .	3.7	1
12	Fuzzy Controller Structures Investigation for Future Gas Turbine Aero-Engines. International Journal of Turbomachinery, Propulsion and Power, 2021, 6, 2.	1.1	3
13	Thermodynamic Performance and Creep Life Assessment Comparing Hydrogen- and Jet-Fueled Turbofan Aero Engine. Applied Sciences (Switzerland), 2021, 11, 3873.	2.5	10
14	A novel model-based multivariable framework for aircraft gas turbine engine limit protection control. Chinese Journal of Aeronautics, 2021, 34, 57-72.	5.3	11
15	Physics-Based Thermal Management System Components Design for All-Electric Propulsion Systems. , 2021, , .		0
16	Compressor Degradation Management Strategies for Gas Turbine Aero-Engine Controller Design. Energies, 2021, 14, 5711.	3.1	6
17	Utilisation of turboelectric distribution propulsion in commercial aviation: A review on NASA's TeDP concept. Chinese Journal of Aeronautics, 2021, 34, 48-65.	5.3	18
18	Water Truck Routing Optimization in Open Pit Mines Using the General Algebraic Modelling System Approach. Communications in Computer and Information Science, 2021, , 255-270.	0.5	0

#	ARTICLE	IF	CITATIONS
19	Framework for integrated dynamic thermal simulation of future civil transport aircraft. , 2020, , .		2
20	Economic and environmental viability assessment of NASA's turboelectric distribution propulsion. Energy Reports, 2020, 6, 1685-1695.	5.1	9
21	A scientometric analysis and critical review of gas turbine aero-engines control: From Whittle engine to more-electric propulsion. Measurement and Control, 2020, , 002029402095667.	1.8	5
22	Exchange Rate Analysis for Ultra High Bypass Ratio Geared Turbofan Engines. Applied Sciences (Switzerland), 2020, 10, 7945.	2.5	6
23	Thermal Performance Evaluation in Gas Turbine Aero Engines Accessory Gearbox. International Journal of Turbomachinery, Propulsion and Power, 2020, 5, 21.	1.1	2
24	Turboelectric Uncertainty Quantification and Error Estimation in Numerical Modelling. Applied Sciences (Switzerland), 2020, 10, 1805.	2.5	5
25	Gas turbine aero-engines real time on-board modelling: A review, research challenges, and exploring the future. Progress in Aerospace Sciences, 2020, 121, 100693.	12.1	33
26	Power to air transportation via hydrogen. IET Renewable Power Generation, 2020, 14, 3384-3392.	3.1	7
27	Integrated Systems Simulation for Assessing Fuel Thermal Management Capabilities for Hybrid-Electric Rotorcraft. , 2020, , .		1
28	Physics-Based Thermal Model for Power Gearboxes in Geared Turbofan Engines. , 2020, , .		1
29	Modeling and Control of the Starter Motor and Start-Up Phase for Gas Turbines. Electronics (Switzerland), 2019, 8, 363.	3.1	7
30	Control Surface Freeplay Effects Investigation on Airfoil's Aero-Elastic Behavior in the Sub-Sonic Regime. Aerospace, 2019, 6, 115.	2.2	0
31	Advanced Constraints Management Strategy for Real-Time Optimization of Gas Turbine Engine Transient Performance. Applied Sciences (Switzerland), 2019, 9, 5333.	2.5	9
32	Thermal performance analysis of a traditional passive cooling system in Dezful, Iran. Tunnelling and Underground Space Technology, 2019, 83, 291-302.	6.2	15
33	Advanced modeling and control of 5 MW wind turbine using global optimization algorithms. Wind Engineering, 2019, 43, 488-505.	1.9	6
34	Meta-heuristic global optimization algorithms for aircraft engines modelling and controller design; A review, research challenges, and exploring the future. Progress in Aerospace Sciences, 2019, 104, 40-53.	12.1	39
35	Control of Spray Evaporative Cooling in Automotive Internal Combustion Engines. Journal of Thermal Science and Engineering Applications, 2018, 10, .	1.5	4
36	Role of Gas-Fuelled Solutions in Support of Future Sustainable Energy World: Part II: Case Studies. Green Energy and Technology, 2018, , 35-86.	0.6	2

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37	Role of Gas-Fuelled Solutions in Support of Future Sustainable Energy World; Part I: Stimulus, Enablers, and Barriers. <i>Green Energy and Technology</i> , 2018, , 1-33.	0.6	1
38	Multiphase computational fluid dynamicsâ€“conjugate heat transfer for spray cooling in the non-boiling regime. <i>Journal of Computational Multiphase Flows</i> , 2018, 10, 33-42.	0.8	7
39	Thermal Management Systems for Civil Aircraft Engines: Review, Challenges and Exploring the Future. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2044.	2.5	49
40	Turbojet Engine Industrial Minâ€“Max Controller Performance Improvement Using Fuzzy Norms. <i>Electronics (Switzerland)</i> , 2018, 7, 314.	3.1	14
41	Control Requirements for Future Gas Turbine-Powered Unmanned Drones: JetQuads. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 2675.	2.5	7
42	Theoretical and Experimental Study of a Micro Jet Engine Start-Up Behaviour. <i>Tehnicki Vjesnik</i> , 2018, 25, .	0.2	2
43	Conjugate Heat Transfer Predictions for Subcooled Boiling Flow in a Horizontal Channel Using a Volume-of-Fluid Framework. <i>Journal of Heat Transfer</i> , 2018, 140, .	2.1	7
44	The Effect of Emerging Green Market on Green Entrepreneurship and Sustainable Development in Knowledge-Based Companies. <i>Sustainability</i> , 2018, 10, 2308.	3.2	69
45	Engineering Applications of Carbon Nanotubes. , 2018, , 25-40.		7
46	A review of evaporative cooling system concepts for engine thermal management in motor vehicles. <i>Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering</i> , 2017, 231, 1126-1143.	1.9	23
47	A Geometrical Method for Sound-Hole Size and Location Enhancement in Lute Family Musical Instruments: The Golden Method. <i>Arts</i> , 2017, 6, 20.	0.3	2
48	A Comparative Analysis of Nature-Inspired Optimization Approaches to 2D Geometric Modelling for Turbomachinery Applications. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-15.	1.1	8
49	Application of particle swarm optimization in gas turbine engine fuel controller gain tuning. <i>Engineering Optimization</i> , 2012, 44, 225-240.	2.6	32
50	Evolutionary Optimization for Gain Tuning of Jet Engine Min-Max Fuel Controller. <i>Journal of Propulsion and Power</i> , 2011, 27, 1015-1023.	2.2	46
51	Real-time multi-rate HIL simulation platform for evaluation of a jet engine fuel controller. <i>Simulation Modelling Practice and Theory</i> , 2011, 19, 996-1006.	3.8	38
52	Fuzzy logic computing for design of gas turbine engine fuel control system. , 2010, , .		17
53	Fuzzy-Based Gas Turbine Engine Fuel Controller Design Using Particle Swarm Optimization. <i>Applied Mechanics and Materials</i> , 0, 110-116, 3215-3222.	0.2	3