

Jurg Schiffmann

List of Publications by Year in descending order

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47
papers

1,031
citations

430874

18
h-index

434195

31
g-index

47
all docs

47
docs citations

47
times ranked

648
citing authors

#	ARTICLE	IF	CITATIONS
1	Which professional skills do students learn in engineering team-based projects?. European Journal of Engineering Education, 2022, 47, 314-332.	2.3	13
2	Unstable tilting motion of flexibly supported gas bearing bushings. Mechanical Systems and Signal Processing, 2022, 162, 107981.	8.0	2
3	Flow pattern observations and flow pattern map for adiabatic two-phase flow of carbon dioxide in vertical upward and downward direction. Experimental Thermal and Fluid Science, 2022, 131, 110526.	2.7	12
4	Robust design using multiobjective optimisation and artificial neural networks with application to a heat pump radial compressor. Design Science, 2022, 8, .	2.1	6
5	Adiabatic two-phase pressure drop of carbon dioxide in different channel orientations. International Journal of Heat and Fluid Flow, 2022, 95, 108966.	2.4	4
6	Experimental and numerical investigation of the unbalance behavior of rigid rotors supported by spiral-grooved gas journal bearings. Mechanical Systems and Signal Processing, 2022, 174, 109080.	8.0	4
7	Nonlinear study on a rigid rotor supported by herringbone grooved gas bearings: Theory and validation. Mechanical Systems and Signal Processing, 2021, 146, 106983.	8.0	31
8	Prediction of the reaction forces of spiral-groove gas journal bearings by artificial neural network regression models. Journal of Computational Science, 2021, 48, 101256.	2.9	6
9	Realistic Constrained Multiobjective Optimization Benchmark Problems From Design. IEEE Transactions on Evolutionary Computation, 2021, 25, 234-246.	10.0	21
10	Experimental Investigation of a Small-Scale Organic Rankine Cycle Turbo-Generator Supported on Gas-Lubricated Bearings. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	10
11	Theoretical and Experimental Investigation of a 34 Watt Radial-Inflow Steam Turbine With Partial Admission. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	1
12	On the Application of Small-Scale Turbines in Industrial Steam Networks. Energies, 2021, 14, 3149.	3.1	4
13	Techno-Economic Optimization of an Integrated Biomass Waste Gasifierâ€“Solid Oxide Fuel Cell Plant. Frontiers in Energy Research, 2021, 9, .	2.3	3
14	Stability and Unbalance Analysis of Rigid Rotors Supported by Spiral Groove Bearings: Comparison of Different Approaches. Journal of Engineering for Gas Turbines and Power, 2021, , .	1.1	3
15	A Review of Grooved Dynamic Gas Bearings. Applied Mechanics Reviews, 2020, 72, .	10.1	37
16	Dynamic force coefficients identification on air-lubricated herringbone grooved journal bearing. Mechanical Systems and Signal Processing, 2020, 136, 106498.	8.0	20
17	Experimental characterization of a solid oxide fuel cell coupled to a steam-driven micro anode off-gas recirculation fan. Applied Energy, 2020, 262, 114219.	10.1	23
18	Flexible Support for Gas-Lubricated Bearing Bushings. Tribology Transactions, 2020, 63, 494-508.	2.0	6

#	ARTICLE	IF	CITATIONS
19	Theoretical and Experimental Investigation of a Small-Scale, High-Speed, and Oil-Free Radial Anode Off-Gas Recirculation Fan for Solid Oxide Fuel Cell Systems. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	1.1	6
20	The Role of Reynolds Number Effect and Tip Leakage in Compressor Geometry Scaling at Low Turbulent Reynolds Numbers. Journal of Turbomachinery, 2020, 142, .	1.7	11
21	Analysis of Spiral-Grooved Gas Journal Bearings by the Narrow-Groove Theory and the Finite Element Method At Large Eccentricities. Journal of Tribology, 2020, 142, .	1.9	10
22	Extended Windage Loss Models for Gas Bearing Supported Spindles Operated in Dense Gases. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	1.1	6
23	Experimental Assessment of a 3D-Printed Stainless Steel Gas Foil Bearing. Journal of Tribology, 2020, 142, .	1.9	4
24	An Instrumented High-Speed Rotor With Embedded Telemetry for the Continuous Spatial Pressure Profile Measurement in Gas Lubricated Bearings: A Proof of Concept. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	1.1	2
25	Pressure Profile Measurements Within the Gas Film of Journal Foil Bearings Using an Instrumented Rotor With Telemetry. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	1.1	2
26	Thin Gas Film Isothermal Condensation in Aerodynamic Bearings. Journal of Tribology, 2019, 141, .	1.9	3
27	Multi-Objective Optimization of Grooved Gas Journal Bearings for Robustness in Manufacturing Tolerances. Tribology Transactions, 2019, 62, 1041-1050.	2.0	22
28	Design and Experimental Realization of a Steam-Driven Micro Recirculation Fan for Solid Oxide Fuel Cell Systems. ECS Transactions, 2019, 91, 187-193.	0.5	6
29	Data-Driven Model for the Dynamic Characteristics of O-Rings for Gas Bearing Supported Rotors. Journal of Applied Mechanics, Transactions ASME, 2019, 86, .	2.2	9
30	Two-phase and oil-free co-rotating scroll compressor/expander. Applied Thermal Engineering, 2019, 148, 173-187.	6.0	7
31	Performance potential of gas foil thrust bearings enhanced with spiral grooves. Tribology International, 2019, 131, 438-445.	5.9	21
32	High temperature heat pumps: Market overview, state of the art, research status, refrigerants, and application potentials. Energy, 2018, 152, 985-1010.	8.8	345
33	Dynamic pressure probe response tests for robust measurements in periodic flows close to probe resonating frequency. Measurement Science and Technology, 2018, 29, 025301.	2.6	6
34	Real-gas effects on aerodynamic bearings. Tribology International, 2018, 120, 358-368.	5.9	26
35	Impacts of constraints and constraint handling strategies for multi-objective mechanical design problems. , 2018, , .		1
36	Spatially Sampled Pressure Profile Measurements in Externally Pressurized Gas Journal Bearings. Tribology Transactions, 2018, 61, 1094-1106.	2.0	2

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37	Effects of humid air on aerodynamic journal bearings. Tribology International, 2018, 127, 333-340.	5.9	10
38	Multi-objective optimization of turbo-ORC systems for waste heat recovery on passenger car engines. Energy, 2018, 159, 751-765.	8.8	36
39	Dimensionless correlations and performance maps of scroll expanders for micro-scale Organic Rankine Cycles. Energy, 2018, 156, 520-533.	8.8	20
40	On the manufacturing of compliant foil bearings. Journal of Manufacturing Processes, 2017, 25, 357-368.	5.9	29
41	Theoretical analysis of steam generation methods - Energy, CO ₂ emission, and cost analysis. Energy, 2017, 129, 114-121.	8.8	28
42	Thermo-economic optimization of an ORC driven heat pump based on small scale turbomachinery and comparison with absorption heat pumps. International Journal of Refrigeration, 2017, 81, 96-110.	3.4	24
43	Modeling and Designing of a Radial Anode Off-Gas Recirculation Fan for Solid Oxide Fuel Cell Systems. Journal of Electrochemical Energy Conversion and Storage, 2017, 14, .	2.1	15
44	Small-scale turbocompressors for wide-range operation with large tip-clearances for a two-stage heat pump concept. International Journal of Refrigeration, 2016, 69, 285-302.	3.4	23
45	Multi-temperature heat pumps: A literature review. International Journal of Refrigeration, 2016, 69, 437-465.	3.4	82
46	Modeling and Experimental Investigation of an Oil-Free Microcompressor-Turbine Unit for an Organic Rankine Cycle Driven Heat Pump. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	33
47	Experimental investigation of a Thermally Driven Heat Pump based on a double Organic Rankine Cycle and an oil-free Compressor-Turbine Unit. International Journal of Refrigeration, 2014, 44, 91-100.	3.4	36