Alexandrina Untaroiu

List of Publications by Year
in descending order

91	724	471509 17	580821 25
papers	citations	h-index	g-index

91	91	91	407
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Dual-Propeller Cavopulmonary Pump for Assisting Patients with Hypoplastic Right Ventricle. ASAIO Journal, 2019, 65, 888-897.	1.6	2
2	Surrogate Model Based Optimization for Chevron Foil Thrust Bearing. , 2019, , .		2
3	Leakage Rate Performance Mapping of Smooth Stator/Grooved Rotor Labyrinth Seals Using Statistical Tools. , 2019, , .		0
4	Elliptical Shape Hole-Pattern Seals Performance Evaluation Using Design of Experiments Technique1. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	1.5	4
5	Performance of Adaptive Lubricants in a Hybrid Journal Bearing Operating Under Fully Saturated Conditions. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	2
6	Effect of Foil Geometry on the Static Performance of Thrust Foil Bearings. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	10
7	Hemodynamics Characteristics of a Four-Way Right-Atrium Bypass Connector. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	1.5	3
8	An Approach to Approximate the Full Strain Field of Turbofan Blades During Operation. , 2018, , .		1
9	A Computational Modelling for Hemodynamic Conditions Following Flow-Diverting Treatment in Cerebral Aneurysms. , 2018, , .		0
10	Effect of Stent Design Parameters on Hemodynamics and Blood Damage in a Percutaneous Cavopulmonary Assist Device. , 2018, , .		1
11	Turbofan Nose Cone Interactions With Inlet Swirl. , 2018, , .		0
12	Pressure Screen â€“ SteamVane Interaction Effects on Downstream Flow Distortion Pattern. , 2018, , .		1
13	The Influence of Surface Patterning on the Thermal Properties of Textured Thrust Bearings. Journal of Tribology, 2018, 140, .	1.9	7
14	The Effects of Fluid Preswirl and Swirl Brakes Design on the Performance of Labyrinth Seals. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	1.1	20
15	Hemodynamics Characteristics of a Four-Way Right-Atrium Bypass Connector With an Optimized Central Diverter. , 2018, , .		0
16	Dynamic Response Analysis of Balance Drum Labyrinth Seal Groove Geometries Optimized for Minimum Leakage1. Journal of Vibration and Acoustics, Transactions of the ASME, 2017, 139, .	1.6	13
17	A Study of the Effect of Various Recess Shapes on Hybrid Journal Bearing Performance Using Computational Fluid Dynamics and Response Surface Method. Journal of Fluids Engineering, Transactions of the ASME, 2017, 139, .	1.5	7
18	An Optimum Design Approach for Textured Thrust Bearing With Elliptical-Shape Dimples Using Computational Fluid Dynamics and Design of Experiments Including Cavitation. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	21

#	Article	IF	Citations
19	A Compressible Thermohydrodynamic Analysis of Journal Bearings Lubricated With Supercritical CO2. , 2017, , .		5
20	Performance of Adaptive Lubricants in a Hybrid Journal Bearing Operating Under Fully Saturated Conditions. , 2017, , .		1
21	Effect of Foil Geometry on the Static Performance of Thrust Foil Bearings. , 2017, , .		0
22	The Influence of Surface Patterning on the Thermal Properties of Textured Thrust Bearings. , 2017, , .		0
23	Hemodynamics Characteristics of a Four-Way Right-Atrium Bypass Connector. , 2017, , .		0
24	Effect of Recess Shape on the Performance of a High-Speed Hybrid Journal Bearing. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	7
25	Sensitivity Analysis of Fluid Pre-Swirl and Swirl Brakes Design on the Performance of Labyrinth Seals. , 2017, , .		0
26	Design of a Dual Propeller Micro-Pump in Conjunction With Flared TCPC for Cavopulmonary Assist in Fontan Patients. , 2017, , .		0
27	Elliptical Shape Hole-Pattern Seals Performance Evaluation Using Design of Experiments Technique. , 2016, , .		0
28	Study on reconstruction and prediction methods of pressure field on blade surfaces for oil-filling process in a hydrodynamic retarder. International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 1843-1870.	2.8	14
29	A Study of TCPC-Stent Conjunction for Cavopulmonary Assist in Fontan Patients With Right Ventricular Dysfunction. , 2016, , .		2
30	A Study of the Effect of Various Recess Shapes on Hybrid Journal Bearing Using CFD and Response Surface Method. , 2016, , .		1
31	Transient Analysis of Gas-Expanded Lubrication and Rotordynamic Performance in a Centrifugal Compressor. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	2
32	Characterization of Brush Seal Permeability. , 2016, , .		2
33	Response Surface Mapping of Performance for Helical Groove Seals With Incompressible Flow. , 2016, , .		0
34	Prediction of Turbo Air Classifier Cut Size Based on Particle Trajectory. , 2016, , .		0
35	An Optimum Design Approach for Textured Thrust Bearing With Elliptical-Shape Dimples Using CFD and DOE Including Cavitation. , 2016, , .		1
36	Design of Experiments to Investigate Geometric Effects on Fluid Leakage Rate in a Balance Drum Seal. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	10

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37	Compliant Gas Foil Bearings and Analysis Tools. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	22
38	Transient Analysis of Gas-Expanded Lubrication and Rotordynamic Performance in a Centrifugal Compressor. , 2015, , .		0
39	Non-Linear Time-Transient Rotor Dynamic Analyses of Geared Systems. , 2015, , .		0
40	Dynamic Response Analysis of Balance Drum Labyrinth Seal Groove Geometries Optimized for Minimum Leakage. , 2015, , .		0
41	Numerical Optimization of Leakage by Multifactor Regression of Trapezoidal Groove Geometries for a Balance Drum Labyrinth Seal. , 2015, , .		1
42	Performance Analysis of Gas-Expanded Lubricants in a Hybrid Bearing Using Computational Fluid Dynamics. , 2015, , .		1
43	A Numerical Study on the Influence of Hole Depth on the Static and Dynamic Performance of Hole-Pattern Seals. Journal of Tribology, 2015, 137, .	1.9	14
44	Gas-Expanded Lubricant Performance and Effects on Rotor Stability in Turbomachinery. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	2
45	Parametric Analysis and Optimization of Inlet Deflection Angle in Torque Converters1. Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.5	22
46	Compliant Gas Foil Bearings and Analysis Tools. , 2015, , .		0
47	Design of Experiments to Investigate Geometric Effects on Fluid Leakage Rate in a Balance Drum Seal. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	8
48	Nonlinear Analysis of Rub Impact in a Three-Disk Rotor and Correction Via Bearing and Lubricant Adjustment. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	6
49	Hole-Pattern Seals Performance Evaluation Using Computational Fluid Dynamics and Design of Experiment Techniques. Journal of Engineering for Gas Turbines and Power, 2014, 136, .	1.1	18
50	Hybrid Analysis of Gas Annular Seals With Energy Equation. Journal of Tribology, 2014, 136, .	1.9	11
51	A Numerical Study on the Influence of Hole Aspect Ratio on the Performance Characteristics of a Hole-Pattern Seal. , 2014, , .		1
52	Gas-Expanded Lubricant Performance and Effects on Rotor Stability in Turbomachinery. , 2014, , .		2
53	Development of a novel design method for marine propellers by computing the exact lift of arbitrary hydrofoils in cascades. Ocean Engineering, 2014, 83, 87-98.	4.3	5
54	Design of Experiments to Investigate Geometric Effects on Fluid Leakage Rate in a Balance Drum Seal. , 2014, , .		1

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55	Nonlinear Analysis of Rub Impact in a Three-Disk Rotor and Correction via Bearing and Lubricant Adjustment. , 2014, , .		0
56	Rotor Dynamic Modeling of Gears and Geared Systems. , 2013, , .		2
57	Forced Response of a Flexible Rotor With Squeeze Film Damper Under Parametric Change. , 2013, , .		0
58	Hole-Pattern Seals Performance Optimization Using Computational Fluid Dynamics and Design of Experiment Techniques. , 2013, , .		2
59	On the Dynamic Properties of Pump Liquid Seals. Journal of Fluids Engineering, Transactions of the ASME, 2013, 135, .	1.5	29
60	Streamline Analysis Method to Determine Force Loading on Axial Compressor Blades. , 2013, , .		0
61	Numerical Modeling of Fluid-Induced Rotordynamic Forces in Seals With Large Aspect Ratios. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	1.1	37
62	Parametric Analysis and Optimization of Inlet Inflection Angle in Torque Converters. , 2013, , .		3
63	Hybrid Analysis of Gas Annular Seals With Energy Equation. , 2013, , .		0
64	Numerical Modeling of Fluid-Induced Rotordynamic Forces in Seals With Large Aspect Ratio. , 2012, , .		2
65	A Computational Fluid Dynamics/Bulk-Flow Hybrid Method for Determining Rotordynamic Coefficients of Annular Gas Seals. Journal of Tribology, 2012, 134, .	1.9	30
66	Fluid-Induced Forces in Pump Liquid Seals With Large Aspect Ratio. , 2011, , .		3
67	Boundary Layer Control for a Vertical Axis Wind Turbine Using a Secondary-Flow Path System. , 2011, , .		2
68	Investigation of Self-Starting Capability of Vertical Axis Wind Turbines Using a Computational Fluid Dynamics Approach. Journal of Solar Energy Engineering, Transactions of the ASME, 2011, 133, .	1.8	52
69	Constrained Design Optimization of Rotor-Tilting Pad Bearing Systems. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	1.1	29
70	Numerical Investigation of Aerodynamic Performance of a Three-Bladed Vertical Axis Wind Turbine. , 2010, , .		0
71	Transmitted Power in a Structure Using the Effective Mass Parameters. , 2010, , .		0
72	Automatic Design Optimization of Rotors Supported on Tilting Pad Bearings. , 2009, , .		0

#	Article	IF	Citations
73	Hole-Pattern Seals: A Three Dimensional CFD Approach for Computing Rotordynamic Coefficient and Leakage Characteristics. , 2009, , .		8
74	CFD Analysis of a Canned Pump Rotor Considering an Annular Fluid With Axial Flow. , 2009, , .		0
75	Computer Modeling of Fluid-Stress-Induced Blood Damage in a Mechanical Ventricular Assist Device. , 2009, , .		0
76	Numerical evaluation of blood damage in a magnetically levitated heart pump - biomed 2009. Biomedical Sciences Instrumentation, 2009, 45, 220-5.	0.2	2
77	Calculation of Dynamic Coefficients for a Magnetically Levitated Artificial Heart Pump Using a CFD Approach. , 2008, , .		4
78	Computational Modeling and Experimental Investigation of Static Straight-Through Labyrinth Seals. , 2008, , .		7
79	CFD Analysis of a Mag-Lev Ventricular Assist Device for Infants and Children: Fourth Generation Design. ASAIO Journal, 2008, 54, 423-431.	1.6	28
80	Implantable axialflow blood pump for left ventricular support. Biomedical Sciences Instrumentation, 2008, 44, 310-5.	0.2	1
81	CFD Modeling of Transient Flow Phenomena in an Axial Flow VAD. , 2007, , 697.		0
82	Numerical Design and Experimental Hydraulic Testing of an Axial Flow Ventricular Assist Device for Infants and Children. ASAIO Journal, 2007, 53, 754-761.	1.6	38
83	Fluid Force Predictions and Experimental Measurements for a Magnetically Levitated Pediatric Ventricular Assist Device. Artificial Organs, 2007, 31, 359-368.	1.9	14
84	Numerical and Experimental Analysis of an Axial Flow Left Ventricular Assist Device: The Influence of the Diffuser on Overall Pump Performance. Artificial Organs, 2005, 29, 581-591.	1.9	44
85	The medical physics of ventricular assist devices. Reports on Progress in Physics, 2005, 68, 545-576.	20.1	25
86	The Status of Failure and Reliability Testing of Artificial Blood Pumps. ASAIO Journal, 2005, 51, 440-451.	1.6	12
87	Computational Design and Experimental Testing of a Novel Axial Flow LVAD. ASAIO Journal, 2005, 51, 702-710.	1.6	40
88	Computational Analysis of an Axial Flow Pediatric Ventricular Assist Device. Artificial Organs, 2004, 28, 881-891.	1.9	9
89	Computational Analysis of an Axial Flow Pediatric Ventricular Assist Device. Artificial Organs, 2004, 28, 881-891.	1.9	17
90	Design and Transient Computational Fluid Dynamics Study of a Continuous Axial Flow Ventricular Assist Device. ASAIO Journal, 2004, 50, 215-224.	1.6	31

#	Article	IF	Citations
91	Method for Redesign of District Heating Networks within Transition from the 2nd to the 3rd Generation. Applied Mechanics and Materials, 0, 657, 689-693.	0.2	0