

Alexandrina Untaroiu

List of Publications by Year in descending order

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91
papers

724
citations

471509

17
h-index

580821

25
g-index

91
all docs

91
docs citations

91
times ranked

407
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Computational Design and Experimental Testing of a Novel Axial Flow LVAD. ASAIO Journal, 2005, 51, 702-710.	1.6	40
4	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
5	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
6	Design and Transient Computational Fluid Dynamics Study of a Continuous Axial Flow Ventricular Assist Device. ASAIO Journal, 2004, 50, 215-224.	1.6	31
7	A Computational Fluid Dynamics/Bulk-Flow Hybrid Method for Determining Rotordynamic Coefficients of Annular Gas Seals. Journal of Tribology, 2012, 134, .	1.9	30
8	Constrained Design Optimization of Rotor-Tilting Pad Bearing Systems. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	1.1	29
9	On the Dynamic Properties of Pump Liquid Seals. Journal of Fluids Engineering, Transactions of the ASME, 2013, 135, .	1.5	29
10	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
11	The medical physics of ventricular assist devices. Reports on Progress in Physics, 2005, 68, 545-576.	20.1	25
12	Parametric Analysis and Optimization of Inlet Deflection Angle in Torque Converters ¹ . Journal of Fluids Engineering, Transactions of the ASME, 2015, 137, .	1.5	22
13	Compliant Gas Foil Bearings and Analysis Tools. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	1.1	22
14	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
15	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
16	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
17	Computational Analysis of an Axial Flow Pediatric Ventricular Assist Device. Artificial Organs, 2004, 28, 881-891.	1.9	17
18	Fluid Force Predictions and Experimental Measurements for a Magnetically Levitated Pediatric Ventricular Assist Device. Artificial Organs, 2007, 31, 359-368.	1.9	14

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19	A Numerical Study on the Influence of Hole Depth on the Static and Dynamic Performance of Hole-Pattern Seals. <i>Journal of Tribology</i> , 2015, 137, .	1.9	14
20	Study on reconstruction and prediction methods of pressure field on blade surfaces for oil-filling process in a hydrodynamic retarder. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016, 26, 1843-1870.	2.8	14
21	Dynamic Response Analysis of Balance Drum Labyrinth Seal Groove Geometries Optimized for Minimum Leakage1. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 2017, 139, .	1.6	13
22	The Status of Failure and Reliability Testing of Artificial Blood Pumps. <i>ASAIO Journal</i> , 2005, 51, 440-451.	1.6	12
23	Hybrid Analysis of Gas Annular Seals With Energy Equation. <i>Journal of Tribology</i> , 2014, 136, .	1.9	11
24	Design of Experiments to Investigate Geometric Effects on Fluid Leakage Rate in a Balance Drum Seal. <i>Journal of Engineering for Gas Turbines and Power</i> , 2016, 138, .	1.1	10
25	Effect of Foil Geometry on the Static Performance of Thrust Foil Bearings. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, .	1.1	10
26	Computational Analysis of an Axial Flow Pediatric Ventricular Assist Device. <i>Artificial Organs</i> , 2004, 28, 881-891.	1.9	9
27	Hole-Pattern Seals: A Three Dimensional CFD Approach for Computing Rotordynamic Coefficient and Leakage Characteristics. , 2009, , .		8
28	Design of Experiments to Investigate Geometric Effects on Fluid Leakage Rate in a Balance Drum Seal. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015, 137, .	1.1	8
29	Computational Modeling and Experimental Investigation of Static Straight-Through Labyrinth Seals. , 2008, , .		7
30	A Study of the Effect of Various Recess Shapes on Hybrid Journal Bearing Performance Using Computational Fluid Dynamics and Response Surface Method. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2017, 139, .	1.5	7
31	Effect of Recess Shape on the Performance of a High-Speed Hybrid Journal Bearing. <i>Journal of Engineering for Gas Turbines and Power</i> , 2017, 139, .	1.1	7
32	The Influence of Surface Patterning on the Thermal Properties of Textured Thrust Bearings. <i>Journal of Tribology</i> , 2018, 140, .	1.9	7
33	Nonlinear Analysis of Rub Impact in a Three-Disk Rotor and Correction Via Bearing and Lubricant Adjustment. <i>Journal of Engineering for Gas Turbines and Power</i> , 2015, 137, .	1.1	6
34	Development of a novel design method for marine propellers by computing the exact lift of arbitrary hydrofoils in cascades. <i>Ocean Engineering</i> , 2014, 83, 87-98.	4.3	5
35	A Compressible Thermohydrodynamic Analysis of Journal Bearings Lubricated With Supercritical CO ₂ . , 2017, , .		5
36	Calculation of Dynamic Coefficients for a Magnetically Levitated Artificial Heart Pump Using a CFD Approach. , 2008, , .		4

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37	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
38	Fluid-Induced Forces in Pump Liquid Seals With Large Aspect Ratio. , 2011, , .		3
39	Parametric Analysis and Optimization of Inlet Inflection Angle in Torque Converters. , 2013, , .		3
40	Hemodynamics Characteristics of a Four-Way Right-Atrium Bypass Connector. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	1.5	3
41	Boundary Layer Control for a Vertical Axis Wind Turbine Using a Secondary-Flow Path System. , 2011, , .		2
42	Numerical Modeling of Fluid-Induced Rotordynamic Forces in Seals With Large Aspect Ratio. , 2012, , .		2
43	Rotor Dynamic Modeling of Gears and Geared Systems. , 2013, , .		2
44	Hole-Pattern Seals Performance Optimization Using Computational Fluid Dynamics and Design of Experiment Techniques. , 2013, , .		2
45	Gas-Expanded Lubricant Performance and Effects on Rotor Stability in Turbomachinery. , 2014, , .		2
46	Gas-Expanded Lubricant Performance and Effects on Rotor Stability in Turbomachinery. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	2
47	A Study of TCPC-Stent Junction for Cavopulmonary Assist in Fontan Patients With Right Ventricular Dysfunction. , 2016, , .		2
48	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
49	Characterization of Brush Seal Permeability. , 2016, , .		2
50	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
51	Dual-Propeller Cavopulmonary Pump for Assisting Patients with Hypoplastic Right Ventricle. ASAIO Journal, 2019, 65, 888-897.	1.6	2
52	Surrogate Model Based Optimization for Chevron Foil Thrust Bearing. , 2019, , .		2
53	Numerical evaluation of blood damage in a magnetically levitated heart pump - biomed 2009. Biomedical Sciences Instrumentation, 2009, 45, 220-5.	0.2	2
54	A Numerical Study on the Influence of Hole Aspect Ratio on the Performance Characteristics of a Hole-Pattern Seal. , 2014, , .		1

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55	Design of Experiments to Investigate Geometric Effects on Fluid Leakage Rate in a Balance Drum Seal. , 2014, , .		1
56	Numerical Optimization of Leakage by Multifactor Regression of Trapezoidal Groove Geometries for a Balance Drum Labyrinth Seal. , 2015, , .		1
57	Performance Analysis of Gas-Expanded Lubricants in a Hybrid Bearing Using Computational Fluid Dynamics. , 2015, , .		1
58	A Study of the Effect of Various Recess Shapes on Hybrid Journal Bearing Using CFD and Response Surface Method. , 2016, , .		1
59	An Optimum Design Approach for Textured Thrust Bearing With Elliptical-Shape Dimples Using CFD and DOE Including Cavitation. , 2016, , .		1
60	Performance of Adaptive Lubricants in a Hybrid Journal Bearing Operating Under Fully Saturated Conditions. , 2017, , .		1
61	An Approach to Approximate the Full Strain Field of Turbofan Blades During Operation. , 2018, , .		1
62	Effect of Stent Design Parameters on Hemodynamics and Blood Damage in a Percutaneous Cavopulmonary Assist Device. , 2018, , .		1
63	Pressure Screen “ SteamVane Interaction Effects on Downstream Flow Distortion Pattern. , 2018, , .		1
64	Implantable axialflow blood pump for left ventricular support. Biomedical Sciences Instrumentation, 2008, 44, 310-5.	0.2	1
65	CFD Modeling of Transient Flow Phenomena in an Axial Flow VAD. , 2007, , 697.		0
66	Automatic Design Optimization of Rotors Supported on Tilting Pad Bearings. , 2009, , .		0
67	CFD Analysis of a Canned Pump Rotor Considering an Annular Fluid With Axial Flow. , 2009, , .		0
68	Numerical Investigation of Aerodynamic Performance of a Three-Bladed Vertical Axis Wind Turbine. , 2010, , .		0
69	Transmitted Power in a Structure Using the Effective Mass Parameters. , 2010, , .		0
70	Forced Response of a Flexible Rotor With Squeeze Film Damper Under Parametric Change. , 2013, , .		0
71	Streamline Analysis Method to Determine Force Loading on Axial Compressor Blades. , 2013, , .		0
72	Hybrid Analysis of Gas Annular Seals With Energy Equation. , 2013, , .		0

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73	Method for Redesign of District Heating Networks within Transition from the 2 nd to the 3 rd Generation. Applied Mechanics and Materials, 0, 657, 689-693.	0.2	0
74	Transient Analysis of Gas-Expanded Lubrication and Rotordynamic Performance in a Centrifugal Compressor. , 2015, , .		0
75	Non-Linear Time-Transient Rotor Dynamic Analyses of Geared Systems. , 2015, , .		0
76	Dynamic Response Analysis of Balance Drum Labyrinth Seal Groove Geometries Optimized for Minimum Leakage. , 2015, , .		0
77	Compliant Gas Foil Bearings and Analysis Tools. , 2015, , .		0
78	Elliptical Shape Hole-Pattern Seals Performance Evaluation Using Design of Experiments Technique. , 2016, , .		0
79	Response Surface Mapping of Performance for Helical Groove Seals With Incompressible Flow. , 2016, , .		0
80	Prediction of Turbo Air Classifier Cut Size Based on Particle Trajectory. , 2016, , .		0
81	Effect of Foil Geometry on the Static Performance of Thrust Foil Bearings. , 2017, , .		0
82	The Influence of Surface Patterning on the Thermal Properties of Textured Thrust Bearings. , 2017, , .		0
83	Hemodynamics Characteristics of a Four-Way Right-Atrium Bypass Connector. , 2017, , .		0
84	Sensitivity Analysis of Fluid Pre-Swirl and Swirl Brakes Design on the Performance of Labyrinth Seals. , 2017, , .		0
85	Design of a Dual Propeller Micro-Pump in Conjunction With Flared TCPC for Cavopulmonary Assist in Fontan Patients. , 2017, , .		0
86	A Computational Modelling for Hemodynamic Conditions Following Flow-Diverting Treatment in Cerebral Aneurysms. , 2018, , .		0
87	Turbofan Nose Cone Interactions With Inlet Swirl. , 2018, , .		0
88	Computer Modeling of Fluid-Stress-Induced Blood Damage in a Mechanical Ventricular Assist Device. , 2009, , .		0
89	Nonlinear Analysis of Rub Impact in a Three-Disk Rotor and Correction via Bearing and Lubricant Adjustment. , 2014, , .		0
90	Hemodynamics Characteristics of a Four-Way Right-Atrium Bypass Connector With an Optimized Central Diverter. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
91	Leakage Rate Performance Mapping of Smooth Stator/Grooved Rotor Labyrinth Seals Using Statistical Tools. , 2019, , .		0