

# Michele Pinelli

## List of Publications by Year in descending order

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95  
papers

1,228  
citations

489802

18  
h-index

488211

31  
g-index

95  
all docs

95  
docs citations

95  
times ranked

987  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Stochastic Model for Nanoparticle Deposits Growth. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	0.5	4
2	Design considerations and numerical simulations of variable thickness scroll geometries. , 2022, , .		0
3	Performance Degradation of a Shell-and-Tube Heat Exchanger Due to Tar Deposition. Energies, 2022, 15, 1490.	1.6	2
4	A Simplified Method for the Deposition Rate Assessment on the Vanes of a Multistage Axial-Flow Compressor. Journal of Turbomachinery, 2022, 144, .	0.9	3
5	Performance losses and washing recovery of a helicopter engine compressor operating in ground-idle conditions. CEAS Aeronautical Journal, 2022, 13, 113-125.	0.9	1
6	Performance Degradation Due to Fouling and Recovery After Washing in a Multistage Test Compressor. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	9
7	Dust Ingestion in a Rotorcraft Engine Compressor: Experimental and Numerical Study of the Fouling Rate. Aerospace, 2021, 8, 81.	1.1	10
8	Design Multistage External Gear Pumps for Dry Sump Systems: Methodology and Application. Mathematical Problems in Engineering, 2021, 2021, 1-11.	0.6	4
9	Deposition Pattern Analysis on a Fouled Multistage Test Compressor. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	12
10	Analysis of Timewise Compressor Fouling Phenomenon on a Multistage Test Compressor: Performance Losses and Particle Adhesion1. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	0.5	11
11	Microstructural and Erosive Wear Characteristics of a High Chromium Cast Iron. Coatings, 2021, 11, 490.	1.2	10
12	A strategy for the robust forecasting of gas turbine health subjected to fouling. E3S Web of Conferences, 2021, 312, 11002.	0.2	0
13	Experimental Assessment of Fouling Effects in a Multistage Axial Compressor. E3S Web of Conferences, 2020, 197, 11007.	0.2	2
14	Investigation of flow characteristics in a single screw expander: A numerical approach. Energy, 2020, 213, 118730.	4.5	13
15	CFD Simulations of Single- and Twin-Screw Machines with OpenFOAM. Designs, 2020, 4, 2.	1.3	2
16	Computational Fluid Dynamics Modeling of Gaseous Cavitation in Lubricating Vane Pumps: An Approach Based on Dimensional Analysis. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	0.8	12
17	Structured Mesh Generation and Numerical Analysis of a Scroll Expander in an Open-Source Environment. Energies, 2020, 13, 666.	1.6	9
18	Porosity-Driven Approaches to Model Fouling Effects on Flow Field. Journal of Turbomachinery, 2020, 142, .	0.9	0

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19	Pressure Pulsation and Cavitation Phenomena in a Micro-ORC System. <i>Energies</i> , 2019, 12, 2186.	1.6	14
20	An Advanced Surge Dynamic Model for Simulating Emergency Shutdown Events and Comparing Different Antisurge Strategies. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019, 141, .	0.5	3
21	Gas Turbine Fouling: A Comparison Among 100 Heavy-Duty Frames. <i>Journal of Engineering for Gas Turbines and Power</i> , 2019, 141, .	0.5	2
22	Optical measurements based on practical methods for detecting time-wise morphing structures. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 136, 454-465.	2.5	3
23	Combining lumped parameter modelling and CFD analysis for the pressure ripple estimation of tandem gear pumps. , 2019, , 369-397.		2
24	Quantitative Computational Fluid Dynamics Analyses of Particle Deposition in a Heavy-Duty Subsonic Axial Compressor. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, .	0.5	4
25	Full 3D numerical analysis of a twin screw compressor by employing open-source software. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018, 425, 012017.	0.3	2
26	An Advanced Surge Dynamic Model for Simulating ESD Events and Comparing Different Anti-Surge Strategies. , 2018, , .		1
27	Gas Turbine Fouling: A Comparison Among One Hundred Heavy-Duty Frames. , 2018, , .		0
28	An Innovative Approach Towards Fouling Modeling: Microscale Deposition Pattern and its Effect on the Flow Field. , 2018, , .		5
29	Development of Reliable NARX Models of Gas Turbine Cold, Warm, and Hot Start-Up. <i>Journal of Engineering for Gas Turbines and Power</i> , 2018, 140, .	0.5	6
30	A Compressor Fouling Review Based on an Historical Survey of ASME Turbo Expo Papers. <i>Journal of Turbomachinery</i> , 2017, 139, .	0.9	40
31	Estimation of the Particle Deposition on a Subsonic Axial Compressor Blade. <i>Journal of Engineering for Gas Turbines and Power</i> , 2017, 139, .	0.5	9
32	An Innovative Method for the Evaluation of Particle Deposition Accounting for Rotor/Stator Interaction. <i>Journal of Engineering for Gas Turbines and Power</i> , 2017, 139, .	0.5	6
33	Thermal and fluid dynamic analysis of an air-forced convection rotary bread-baking oven by means of an experimental and numerical approach. <i>Applied Thermal Engineering</i> , 2017, 117, 330-342.	3.0	8
34	An Energy-Based Fouling Model for Gas Turbines: EBFOG. <i>Journal of Turbomachinery</i> , 2017, 139, .	0.9	14
35	Real Gas Expansion with Dynamic Mesh in Common Positive Displacement Machines. <i>Energy Procedia</i> , 2017, 129, 248-255.	1.8	3
36	Experimental and Numerical Characterization of an Oil-Free Scroll Expander. <i>Energy Procedia</i> , 2017, 129, 403-410.	1.8	7

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37	Computational Models for the Analysis of positive displacement machines: Real Gas and Dynamic Mesh. Energy Procedia, 2017, 129, 411-418.	1.8	9
38	Development of Reliable NARX Models of Gas Turbine Cold, Warm and Hot Start-Up. , 2017, , .		3
39	Analysis of the Aerodynamic and Structural Performance of a Cooling Fan with Morphing Blade. International Journal of Turbomachinery, Propulsion and Power, 2017, 2, 7.	0.5	6
40	Estimation of the Particle Deposition on a Transonic Axial Compressor Blade. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	0.5	10
41	Different Numerical Approaches for the Analysis of a Single Screw Expander. Energy Procedia, 2016, 101, 750-757.	1.8	14
42	Eco-design of a small size industrial fan for ceramic tile cooling. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2016, 230, 502-511.	0.8	4
43	A Shape Memory Alloy-Based Morphing Axial Fan Bladeâ€”Part II: Blade Shape and Computational Fluid Dynamics Analyses. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	0.5	9
44	Quantitative Computational Fluid Dynamics Analyses of Particle Deposition on a Subsonic Axial Compressor Blade. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	0.5	13
45	NARX models for simulation of the start-up operation of a single-shaft gas turbine. Applied Thermal Engineering, 2016, 93, 368-376.	3.0	94
46	An Interdisciplinary Approach to Study the Fouling Phenomenon. Energy Procedia, 2015, 82, 280-285.	1.8	3
47	Quantitative Computational Fluid Dynamic Analyses of Particle Deposition on a Transonic Axial Compressor Bladeâ€”Part II: Impact Kinematics and Particle Sticking Analysis. Journal of Turbomachinery, 2015, 137, .	0.9	18
48	Quantitative Computational Fluid Dynamics Analyses of Particle Deposition on a Transonic Axial Compressor Bladeâ€”Part I: Particle Zones Impact. Journal of Turbomachinery, 2015, 137, .	0.9	25
49	Analysis of a scroll machine for micro ORC applications by means of a RE/CFD methodology. Applied Thermal Engineering, 2015, 80, 132-140.	3.0	45
50	Feasibility analysis of gas turbine inlet air cooling by means of liquid nitrogen evaporation for IGCC power augmentation. Applied Thermal Engineering, 2015, 80, 168-177.	3.0	16
51	Modeling and Simulation of the Start-Up Operation of a Heavy-Duty Gas Turbine by Using NARX Models. , 2014, , .		7
52	Quantitative CFD Analyses of Particle Deposition on a Transonic Axial Compressor Blade: Part II â€” Impact Kinematics and Particle Sticking Analysis. , 2014, , .		4
53	Quantitative CFD Analyses of Particle Deposition on a Transonic Axial Compressor Blade: Part I â€” Particle Zones Impact. , 2014, , .		5
54	CFD Analysis of a Fluidized Bed Reactor for Industrial Application. , 2014, , .		0

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55	Computational modelling of emboli travel trajectories in cerebral arteries: influence of microembolic particle size and density. <i>Biomechanics and Modeling in Mechanobiology</i> , 2014, 13, 289-302.	1.4	27
56	Thermophotovoltaic energy conversion: Analytical aspects, prototypes and experiences. <i>Applied Energy</i> , 2014, 113, 1717-1730.	5.1	89
57	Methodology for estimating biomass energy potential and its application to Colombia. <i>Applied Energy</i> , 2014, 136, 781-796.	5.1	61
58	Performance Evaluation of Nonuniformly Fouled Axial Compressor Stages by Means of Computational Fluid Dynamics Analyses. <i>Journal of Turbomachinery</i> , 2014, 136, .	0.9	37
59	A numerical method for the efficient design of free opening hoods in industrial and domestic applications. <i>Energy</i> , 2014, 74, 484-493.	4.5	38
60	Experimental Analysis of a Micro Gas Turbine Fuelled with Vegetable Oils from Energy Crops. <i>Energy Procedia</i> , 2014, 45, 91-100.	1.8	26
61	Numerical Analysis of the Effects of Surface Roughness Localization on the Performance of an Axial Compressor Stage. <i>Energy Procedia</i> , 2014, 45, 1057-1066.	1.8	16
62	Methodology for biomass energy potential estimation: Projections of future potential in Colombia. <i>Renewable Energy</i> , 2014, 69, 488-505.	4.3	26
63	Cross Validation of Multistage Compressor Map Generation by Means of Computational Fluid Dynamics and Stage-Stacking Techniques. , 2014, , .		1
64	Optimal allocation of thermal, electric and cooling loads among generation technologies in household applications. <i>Applied Energy</i> , 2013, 112, 205-214.	5.1	18
65	Performance Evaluation of Non-Uniformly Fouled Axial Compressor Stages by Means of Computational Fluid Dynamic Analyses. , 2013, , .		2
66	FPSO Computational Fluid Dynamics (CFD) Analysis in Heavy Sea Storm Conditions for the Validation of Process Design. , 2013, , .		0
67	Slug Catcher Two-Phase Flow Modeling and Numerical Simulations. , 2013, , .		1
68	An Innovative Inlet Air Cooling System for IGCC Power Augmentation: Part III " Computational Fluid Dynamic Analysis of Syngas Combustion in Nitrogen-Enriched Air. , 2013, , .		2
69	Performance Evaluation of the Integration Between a Thermo"Photo"Voltaic Generator and an Organic Rankine Cycle. <i>Journal of Engineering for Gas Turbines and Power</i> , 2012, 134, .	0.5	15
70	Gas Turbine Health State Determination: Methodology Approach and Field Application. <i>International Journal of Rotating Machinery</i> , 2012, 2012, 1-14.	0.8	10
71	Compressor Fouling Modeling: Relationship Between Computational Roughness and Gas Turbine Operation Time. <i>Journal of Engineering for Gas Turbines and Power</i> , 2012, 134, .	0.5	17
72	Numerical Simulation of Evacuated Tube Solar Water Heaters. , 2012, , .		1

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73	Performance Evaluation of the Integration Between a Thermo-Photo-Voltaic Generator and an Organic Rankine Cycle. , 2012, , .		3
74	Analysis of Some Sources of Numerical Uncertainty Applied to a Transonic Compressor Stage. , 2012, , .		0
75	Integration between a thermophotovoltaic generator and an Organic Rankine Cycle. Applied Energy, 2012, 97, 695-703.	5.1	47
76	Study of Embolic Particle Migration in Cerebral Arteries by Computational Modelling. , 2012, , .		0
77	Development of an equilibrium model for the simulation of thermochemical gasification and application to agricultural residues. Renewable Energy, 2012, 46, 248-254.	4.3	72
78	An Innovative Inlet Air Cooling System for IGCC Power Augmentation: Part IIâ€”Thermodynamic Analysis. , 2012, , .		1
79	Compressor Fouling Modeling: Relationship Between Computational Roughness and Gas Turbine Operation Time. , 2011, , .		5
80	Erratum to â€œNumerical analyses of high Reynolds number flow of high pressure fuel gas through rough pipesâ€•[Int J Hydrogen Energy 35 (2010) 7568â€“7579]. International Journal of Hydrogen Energy, 2011, 36, 15455.	3.8	0
81	Development of a Model for the Simulation of Organic Rankine Cycles Based on Group Contribution Techniques. , 2011, , .		6
82	Numerical Analysis of the Effects of Nonuniform Surface Roughness on Compressor Stage Performance. Journal of Engineering for Gas Turbines and Power, 2011, 133, .	0.5	49
83	Evaluation of the Performance of a Sirocco Fan Driven by a Diesel Engine in Mist Sprayer Applications. , 2011, , .		0
84	Numerical analyses of high Reynolds number flow of high pressure fuel gas through rough pipes. International Journal of Hydrogen Energy, 2010, 35, 7568-7579.	3.8	22
85	Computational Fluid Dynamics Simulation of Fouling on Axial Compressor Stages. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	0.5	48
86	Numerical Analysis of the Effects of Non-Uniform Surface Roughness on Compressor Stage Performance. , 2010, , .		8
87	Numerical Analyses of High Reynolds Number Flow of High Pressure Fuel Gas Through Rough Pipes. , 2009, , .		1
88	CFD Simulation of a Microturbine Annular Combustion Chamber Fuelled With Methane and Biomass Pyrolysis Syngas: Preliminary Results. , 2009, , .		14
89	Circumferential Residual Stress Distribution and Its Influence in a Diseased Carotid Artery. , 2009, , .		2
90	Analysis of biogas compression system dynamics. Applied Energy, 2009, 86, 2466-2475.	5.1	28

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91	CFD Simulation of Fouling on Axial Compressor Stages. , 2009, , .		6
92	Assessment of Structure Distortion of Paraffin Wax Histology Section of Human Carotid Atherosclerotic Plaque Specimen. , 2009, , .		0
93	High Resolution 3D Reconstruction of an Atherosclerotic Plaque by a Combination of Histology and 3D Ultrasound. , 2009, , .		0
94	A Model for the Simulation of Large-Size Single-Shaft Gas Turbine Start-Up Based on Operating Data Fitting. , 2007, , 1849.		8
95	PROGRESSES IN PARTICLE-LADEN FLOWS SIMULATIONS IN MULTISTAGE TURBOMACHINERY WITH OPENFOAM. Journal of Turbomachinery, 0, , 1-19.	0.9	3