Michele Pinelli

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Stochastic Model for Nanoparticle Deposits Growth. Journal of Engineering for Gas Turbines and Power, 2022, 144, . | 1.1 | 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. | 3.1 | 2 |
| 4 | A Simplified Method for the Deposition Rate Assessment on the Vanes of a Multistage Axial-Flow Compressor. Journal of Turbomachinery, 2022, 144, . | 1.7 | 3 |
| 5 | Performance losses and washing recovery of a helicopter engine compressor operating in ground-idle conditions. CEAS Aeronautical Journal, 2022, 13, 113-125. | 1.7 | 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, . | 1.1 | 9 |
| 7 | Dust Ingestion in a Rotorcraft Engine Compressor: Experimental and Numerical Study of the Fouling Rate. Aerospace, 2021, 8, 81. | 2.2 | 10 |
| 8 | Design Multistage External Gear Pumps for Dry Sump Systems: Methodology and Application. Mathematical Problems in Engineering, 2021, 2021, 1-11. | 1.1 | 4 |
| 9 | Deposition Pattern Analysis on a Fouled Multistage Test Compressor. Journal of Engineering for Gas Turbines and Power, 2021, 143, . | 1.1 | 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, . | 1.1 | 11 |
| 11 | Microstructural and Erosive Wear Characteristics of a High Chromium Cast Iron. Coatings, 2021, 11, 490. | 2.6 | 10 |
| 12 | A strategy for the robust forecasting of gas turbine health subjected to fouling. E3S Web of Conferences, 2021, 312, 11002. | 0.5 | 0 |
| 13 | Experimental Assessment of Fouling Effects in a Multistage Axial Compressor. E3S Web of Conferences, 2020, 197, 11007. | 0.5 | 2 |
| 14 | Investigation of flow characteristics in a single screw expander: A numerical approach. Energy, 2020, 213, 118730. | 8.8 | 13 |
| 15 | CFD Simulations of Single- and Twin-Screw Machines with OpenFOAM. Designs, 2020, 4, 2. | 2.4 | 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, . | 1.5 | 12 |
| 17 | Structured Mesh Generation and Numerical Analysis of a Scroll Expander in an Open-Source Environment. Energies, 2020, 13, 666. | 3.1 | 9 |
| 18 | Porosity-Driven Approaches to Model Fouling Effects on Flow Field. Journal of Turbomachinery, 2020, 142, . | 1.7 | 0 |

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| 19 | Pressure Pulsation and Cavitation Phenomena in a Micro-ORC System. Energies, 2019, 12, 2186. | 3.1 | 14 |
| 20 | An Advanced Surge Dynamic Model for Simulating Emergency Shutdown Events and Comparing Different Antisurge Strategies. Journal of Engineering for Gas Turbines and Power, 2019, 141, . | 1.1 | 3 |
| 21 | Gas Turbine Fouling: A Comparison Among 100 Heavy-Duty Frames. Journal of Engineering for Gas Turbines and Power, 2019, 141, . | 1.1 | 2 |
| 22 | Optical measurements based on practical methods for detecting time-wise morphing structures. Measurement: Journal of the International Measurement Confederation, 2019, 136, 454-465. | 5.0 | 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. Journal of Engineering for Gas Turbines and Power, 2018, 140, . | 1.1 | 4 |
| 25 | Full 3D numerical analysis of a twin screw compressor by employing open-source software. IOP Conference Series: Materials Science and Engineering, 2018, 425, 012017. | 0.6 | 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. Journal of Engineering for Gas Turbines and Power, 2018, 140, . | 1.1 | 6 |
| 30 | A Compressor Fouling Review Based on an Historical Survey of ASME Turbo Expo Papers. Journal of Turbomachinery, 2017, 139, . | 1.7 | 40 |
| 31 | Estimation of the Particle Deposition on a Subsonic Axial Compressor Blade. Journal of Engineering for Gas Turbines and Power, 2017, 139, . | 1.1 | 9 |
| 32 | An Innovative Method for the Evaluation of Particle Deposition Accounting for Rotor/Stator Interaction. Journal of Engineering for Gas Turbines and Power, 2017, 139, . | 1.1 | 6 |
| 33 | Thermal and fluid dynamic analysis of an air-forced convection rotary bread-baking oven by means of an experimental and numerical approach. Applied Thermal Engineering, 2017, 117, 330-342. | 6.0 | 8 |
| 34 | An Energy-Based Fouling Model for Gas Turbines: EBFOG. Journal of Turbomachinery, 2017, 139, . | 1.7 | 14 |
| 35 | Real Cas Expansion with Dynamic Mesh in Common Positive Displacement Machines. Energy Procedia, 2017, 129, 248-255. | 1.8 | 3 |
| 36 | Experimental and Numerical Characterization of an Oil-Free Scroll Expander. Energy Procedia, 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. | 1.1 | 6 |
| 40 | Estimation of the Particle Deposition on a Transonic Axial Compressor Blade. Journal of Engineering for Gas Turbines and Power, 2016, 138, . | 1.1 | 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. | 1.4 | 4 |
| 43 | A Shape Memory Alloy-Based Morphing Axial Fan Blade—Part II: Blade Shape and Computational Fluid Dynamics Analyses. Journal of Engineering for Gas Turbines and Power, 2016, 138, . | 1.1 | 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, . | 1.1 | 13 |
| 45 | NARX models for simulation of the start-up operation of a single-shaft gas turbine. Applied Thermal Engineering, 2016, 93, 368-376. | 6.0 | 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 Blade—Part II: Impact Kinematics and Particle Sticking Analysis. Journal of Turbomachinery, 2015, 137, . | 1.7 | 18 |
| 48 | Quantitative Computational Fluid Dynamics Analyses of Particle Deposition on a Transonic Axial Compressor Blade—Part I: Particle Zones Impact. Journal of Turbomachinery, 2015, 137, . | 1.7 | 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. | 6.0 | 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. | 6.0 | 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 — Impact Kinematics and Particle Sticking Analysis. , 2014, , . | | 4 |
| 53 | Quantitative CFD Analyses of Particle Deposition on a Transonic Axial Compressor Blade: Part I — 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. Biomechanics and Modeling in Mechanobiology, 2014, 13, 289-302. | 2.8 | 27 |
| 56 | Thermophotovoltaic energy conversion: Analytical aspects, prototypes and experiences. Applied Energy, 2014, 113, 1717-1730. | 10.1 | 89 |
| 57 | Methodology for estimating biomass energy potential and its application to Colombia. Applied Energy, 2014, 136, 781-796. | 10.1 | 61 |
| 58 | Performance Evaluation of Nonuniformly Fouled Axial Compressor Stages by Means of Computational Fluid Dynamics Analyses. Journal of Turbomachinery, 2014, 136, . | 1.7 | 37 |
| 59 | A numerical method for the efficient design of free opening hoods in industrial and domestic applications. Energy, 2014, 74, 484-493. | 8.8 | 38 |
| 60 | Experimental Analysis of a Micro Gas Turbine Fuelled with Vegetable Oils from Energy Crops. Energy Procedia, 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. Energy Procedia, 2014, 45, 1057-1066. | 1.8 | 16 |
| 62 | Methodology for biomass energy potential estimation: Projections of future potential in Colombia. Renewable Energy, 2014, 69, 488-505. | 8.9 | 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. Applied Energy, 2013, 112, 205-214. | 10.1 | 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. Journal of Engineering for Gas Turbines and Power, 2012, 134, . | 1.1 | 15 |
| 70 | Gas Turbine Health State Determination: Methodology Approach and Field Application. International Journal of Rotating Machinery, 2012, 2012, 1-14. | 0.8 | 10 |
| 71 | Compressor Fouling Modeling: Relationship Between Computational Roughness and Gas Turbine Operation Time. Journal of Engineering for Gas Turbines and Power, 2012, 134, . | 1.1 | 17 |
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72 Numerical Simulation of Evacuated Tube Solar Water Heaters. , 2012, , .

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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. | 10.1 | 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. | 8.9 | 72 |
| 78 | An Innovative Inlet Air Cooling System for IGCC Power Augmentation: Part II—Thermodynamic Analysis. , 2012, , . | | 1 |
| 79 | Compressor Fouling Modeling: Relationship Between Computational Roughness and Gas Turbine Operation Time. , 2011, , . | | 5 |
| 80 | Erratum to "Numerical analyses of high Reynolds number flow of high pressure fuel gas through rough pipes―[Int J Hydrogen Energy 35 (2010) 7568–7579]. International Journal of Hydrogen Energy, 2011, 36, 15455. | 7.1 | 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, . | 1.1 | 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. | 7.1 | 22 |
| 85 | Computational Fluid Dynamics Simulation of Fouling on Axial Compressor Stages. Journal of Engineering for Gas Turbines and Power, 2010, 132, . | 1.1 | 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. | 10.1 | 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 Atherosclorotic 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. | 1.7 | 3 |