

# Nicola Casari

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

364  
citations

840776

11  
h-index

888059

17  
g-index

40  
all docs

40  
docs citations

40  
times ranked

150  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Compressor Fouling Review Based on an Historical Survey of ASME Turbo Expo Papers. Journal of Turbomachinery, 2017, 139, .	1.7	40
2	Generalization of particle impact behavior in gas turbine via non-dimensional grouping. Progress in Energy and Combustion Science, 2019, 74, 103-151.	31.2	34
3	Gas Turbine Fouling Tests: Review, Critical Analysis, and Particle Impact Behavior Map. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	1.1	24
4	Experimental analysis of micro-sized particles time-wise adhesion: the influence of impact velocity and surface roughness. International Journal of Heat and Mass Transfer, 2021, 165, 120632.	4.8	21
5	EBFOG: Deposition, Erosion, and Detachment on High-Pressure Turbine Vanes. Journal of Turbomachinery, 2018, 140, .	1.7	20
6	CFD Analysis of a Non-newtonian Fluids Processing Pump. Energy Procedia, 2016, 101, 742-749.	1.8	15
7	Experimental and Numerical Analysis of a Non-Newtonian Fluids Processing Pump. Energy Procedia, 2017, 126, 762-769.	1.8	15
8	An Energy-Based Fouling Model for Gas Turbines: EBFOG. Journal of Turbomachinery, 2017, 139, .	1.7	14
9	Pressure Pulsation and Cavitation Phenomena in a Micro-ORC System. Energies, 2019, 12, 2186.	3.1	14
10	Investigation of flow characteristics in a single screw expander: A numerical approach. Energy, 2020, 213, 118730.	8.8	13
11	Deposition of syngas tar in fuel supplying duct of a biomass gasifier: A numerical study. Fuel, 2020, 273, 117579.	6.4	12
12	Deposition Pattern Analysis on a Fouled Multistage Test Compressor. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	12
13	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
14	Dust Ingestion in a Rotorcraft Engine Compressor: Experimental and Numerical Study of the Fouling Rate. Aerospace, 2021, 8, 81.	2.2	10
15	Computational Models for the Analysis of positive displacement machines: Real Gas and Dynamic Mesh. Energy Procedia, 2017, 129, 411-418.	1.8	9
16	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
17	Structured Mesh Generation and Numerical Analysis of a Scroll Expander in an Open-Source Environment. Energies, 2020, 13, 666.	3.1	9
18	Measurement approaches for the analysis of soil layer by microparticle adhesion. Measurement: Journal of the International Measurement Confederation, 2022, 187, 110185.	5.0	8

#	ARTICLE	IF	CITATIONS
19	Experimental and Numerical Characterization of an Oil-Free Scroll Expander. Energy Procedia, 2017, 129, 403-410.	1.8	7
20	CoolFOAM: The CoolProp wrapper for OpenFOAM. Computer Physics Communications, 2020, 250, 107047.	7.5	7
21	Analysis of soil and soot deposits by X-ray computed microtomography. Powder Technology, 2021, 394, 608-621.	4.2	7
22	Outstretching population growth theory towards surface contamination. Powder Technology, 2021, 394, 597-607.	4.2	7
23	ASSESSMENT OF THE WASHING EFFECTIVENESS OF ON-PURPOSE DESIGNED ECO-FRIENDLY CLEANER AGAINST SOOT DEPOSITS. Journal of the Global Power and Propulsion Society, 2020, 4, 253-263.	0.8	6
24	Centrifugal pumps performance estimation with non-Newtonian fluids: review and critical analysis. , 2017, , .		5
25	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
26	A Stochastic Model for Nanoparticle Deposits Growth. Journal of Engineering for Gas Turbines and Power, 2022, 144, .	1.1	4
27	Real Gas Expansion with Dynamic Mesh in Common Positive Displacement Machines. Energy Procedia, 2017, 129, 248-255.	1.8	3
28	Analysis of CoolProp library for the assessment of uncertainty propagation for refrigerant fluids in state diagrams and thermodynamic properties. International Journal of Refrigeration, 2019, 107, 214-224.	3.4	3
29	Numerical investigation of oil injection in a Roots blower operated as expander. IOP Conference Series: Materials Science and Engineering, 2019, 604, 012075.	0.6	3
30	PROGRESSES IN PARTICLE-LADEN FLOWS SIMULATIONS IN MULTISTAGE TURBOMACHINERY WITH OPENFOAM. Journal of Turbomachinery, 0, , 1-19.	1.7	3
31	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
32	A New Framework for the Harmonic Balance Method in OpenFOAM. Machines, 2022, 10, 279.	2.2	3
33	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
34	Experimental Assessment of Fouling Effects in a Multistage Axial Compressor. E3S Web of Conferences, 2020, 197, 11007.	0.5	2
35	CFD Simulations of Single- and Twin-Screw Machines with OpenFOAM. Designs, 2020, 4, 2.	2.4	2
36	Performance Degradation of a Shell-and-Tube Heat Exchanger Due to Tar Deposition. Energies, 2022, 15, 1490.	3.1	2

#	ARTICLE	IF	CITATIONS
37	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
38	Off-line washing effectiveness on a multistage axial compressor. E3S Web of Conferences, 2021, 312, 11016.	0.5	0
39	Porosity-Driven Approaches to Model Fouling Effects on Flow Field. Journal of Turbomachinery, 2020, 142, .	1.7	0
40	Design considerations and numerical simulations of variable thickness scroll geometries. , 2022, , .		0