

Mirko Morini

List of Publications by Year in descending order

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107
papers

1,789
citations

318942

23
h-index

371746

37
g-index

109
all docs

109
docs citations

109
times ranked

1504
citing authors

#	ARTICLE	IF	CITATIONS
1	A control-oriented scalable model for demand side management in district heating aggregated communities. <i>Applied Thermal Engineering</i> , 2022, 201, 117681.	3.0	9
2	Analysis of the Status of Research and Innovation Actions on Electrofuels under Horizon 2020. <i>Energies</i> , 2022, 15, 618.	1.6	8
3	Predictive control of a combined heat and power plant for grid flexibility under demand uncertainty. <i>Applied Energy</i> , 2022, 314, 118934.	5.1	12
4	Smart management of integrated energy systems through co-optimization with long and short horizons. <i>Energy</i> , 2022, 250, 123748.	4.5	14
5	Difficulties in the Management of Placenta Accreta Spectrum in Hospitals with Limited Resources. <i>Revista Brasileira De Ginecologia E Obstetricia</i> , 2022, 44, 467-474.	0.3	9
6	Enabling smart control by optimally managing the State of Charge of district heating networks. <i>Applied Energy</i> , 2021, 283, 116286.	5.1	12
7	Integrated optimization of Multi-Energy System operation and thermal comfort management for buildings. <i>Computer Aided Chemical Engineering</i> , 2021, 50, 1587-1592.	0.3	1
8	Robust control of a cogeneration plant supplying a district heating system to enable grid flexibility. <i>E3S Web of Conferences</i> , 2021, 238, 05001.	0.2	1
9	Optimal design and energy management of a renewable energy plant with seasonal energy storage. <i>E3S Web of Conferences</i> , 2021, 238, 02002.	0.2	1
10	Sizing and Operation of a Hybrid Energy Plant Composed of Industrial Gas Turbines, Renewable Energy Systems, and Energy Storage Technologies. <i>Journal of Engineering for Gas Turbines and Power</i> , 2021, 143, .	0.5	5
11	Optimization of energy and economic scheduling of a hybrid energy plant by using a dynamic programming approach. <i>Applied Thermal Engineering</i> , 2021, 187, 116577.	3.0	10
12	Co-optimization of multi-energy system operation, district heating/cooling network and thermal comfort management for buildings. <i>Applied Energy</i> , 2021, 302, 117480.	5.1	41
13	Inventory scaling, life cycle impact assessment and design optimization of distributed energy plants. <i>Applied Energy</i> , 2021, 304, 117701.	5.1	4
14	Simultaneous optimization of the design and operation of multi-generation energy systems based on life cycle energy and economic assessment. <i>Energy Conversion and Management</i> , 2021, 249, 114883.	4.4	25
15	Development, analysis and application of a predictive controller to a small-scale district heating system. <i>Applied Thermal Engineering</i> , 2020, 165, 114558.	3.0	29
16	Setup and testing of smart controllers for small-scale district heating networks: An integrated framework. <i>Energy</i> , 2020, 205, 118054.	4.5	28
17	The Status of Research and Innovation on Heating and Cooling Networks as Smart Energy Systems within Horizon 2020. <i>Energies</i> , 2020, 13, 2835.	1.6	12
18	Deposition of syngas tar in fuel supplying duct of a biomass gasifier: A numerical study. <i>Fuel</i> , 2020, 273, 117579.	3.4	12

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19	A New Index to Evaluate the Potential Damage of a Surge Event: The Surge Severity Coefficient. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	3
20	Optimization of a hybrid energy plant by integrating the cumulative energy demand. Applied Energy, 2019, 253, 113484.	5.1	32
21	Development and application of a Predictive Controller to a mini district heating network fed by a biomass boiler. Energy Procedia, 2019, 159, 48-53.	1.8	11
22	Development of a Model-based Predictive Controller for a heat distribution network. Energy Procedia, 2019, 158, 2896-2901.	1.8	11
23	Optimal design of a hybrid energy plant by accounting for the cumulative energy demand. Energy Procedia, 2019, 158, 2834-2840.	1.8	4
24	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, .	0.5	3
25	Dynamic programming based methodology for the optimization of the sizing and operation of hybrid energy plants. Applied Thermal Engineering, 2019, 160, 113967.	3.0	23
26	k-MILP: A novel clustering approach to select typical and extreme days for multi-energy systems design optimization. Energy, 2019, 181, 1051-1063.	4.5	72
27	Development and Analysis of a Multi-Node Dynamic Model for the Simulation of Stratified Thermal Energy Storage. Energies, 2019, 12, 4275.	1.6	13
28	A model for the simulation of the gas cleaning system in a syngas-fed CHP plant. AIP Conference Proceedings, 2019, , .	0.3	1
29	Gas Turbine Fouling: A Comparison Among 100 Heavy-Duty Frames. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	2
30	Stall and Surge in Wet Compression: Test Rig Development and Experimental Results. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	6
31	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, .	0.5	4
32	Experimental Investigation of Vibrational and Acoustic Phenomena for Detecting the Stall and Surge of a Multistage Compressor. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	0.5	17
33	Measurement and Prediction of Centrifugal Compressor Axial Forces During Surge”Part I: Surge Force Measurements. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	0.5	11
34	Measurement and Prediction of Centrifugal Compressor Axial Forces During Surge”Part II: Dynamic Surge Model. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	0.5	16
35	A non-stoichiometric equilibrium model for the simulation of the biomass gasification process. Applied Energy, 2018, 227, 119-127.	5.1	71
36	An Advanced Surge Dynamic Model for Simulating ESD Events and Comparing Different Anti-Surge Strategies. , 2018, , .		1

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37	A model for filter diagnostics in a syngas-fed CHP plant. Energy Procedia, 2018, 148, 400-407.	1.8	5
38	A Model-in-the-Loop application of a Predictive Controller to a District Heating system. Energy Procedia, 2018, 148, 352-359.	1.8	13
39	Gas Turbine Fouling: A Comparison Among One Hundred Heavy-Duty Frames. , 2018, , .		0
40	A New Index to Evaluate the Potential Damage of a Surge Event: The Surge Severity Coefficient. , 2018, , .		3
41	Stall and Surge in Wet Compression: Test Rig Development and Experimental Results. , 2018, , .		5
42	Development of Reliable NARX Models of Gas Turbine Cold, Warm, and Hot Start-Up. Journal of Engineering for Gas Turbines and Power, 2018, 140, .	0.5	6
43	TOWARDS THE OPTIMAL DESIGN AND OPERATION OF MULTI-ENERGY SYSTEMS: THE "EFFICITY" PROJECT. Environmental Engineering and Management Journal, 2018, 17, 2409-2419.	0.2	23
44	A Compressor Fouling Review Based on an Historical Survey of ASME Turbo Expo Papers. Journal of Turbomachinery, 2017, 139, .	0.9	40
45	Estimation of the Particle Deposition on a Subsonic Axial Compressor Blade. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	0.5	9
46	An Innovative Method for the Evaluation of Particle Deposition Accounting for Rotor/Stator Interaction. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	0.5	6
47	Experimental Investigation of Stall and Surge in a Multistage Compressor. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	0.5	22
48	A Model for the Prediction of Pollutant Species Production in the Biomass Gasification Process. Energy Procedia, 2017, 105, 700-705.	1.8	9
49	Real Gas Expansion with Dynamic Mesh in Common Positive Displacement Machines. Energy Procedia, 2017, 129, 248-255.	1.8	3
50	Measurement and Prediction of Centrifugal Compressor Axial Forces During Surge: Part 2 "Dynamic Surge Model. , 2017, , .		7
51	Experimental Investigation of Vibrational and Acoustic Phenomena for Detecting the Stall and Surge of a Multistage Compressor. , 2017, , .		8
52	Quantitative CFD Analyses of Particle Deposition in a Heavy-Duty Subsonic Axial Compressor. , 2017, , .		2
53	The Effects of Third Substances at the Particle/Surface Interface in Compressor Fouling. , 2017, , .		3
54	Development of Reliable NARX Models of Gas Turbine Cold, Warm and Hot Start-Up. , 2017, , .		3

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55	Measurement and Prediction of Centrifugal Compressor Axial Forces During Surge: Part 1 – Surge Force Measurements. , 2017, , .		5
56	A Library for the Simulation of Smart Energy Systems: The Case of the Campus of the University of Parma. Energy Procedia, 2017, 105, 1776-1781.	1.8	24
57	Experimental Investigation and Modeling of Surge in a Multistage Compressor. Energy Procedia, 2017, 105, 1751-1756.	1.8	15
58	An Innovative Method for the Evaluation of Particle Deposition Accounting for the Rotor/Stator Interaction. , 2016, , .		3
59	Estimation of the Particle Deposition on a Transonic Axial Compressor Blade. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	0.5	10
60	Experimental Investigation of Stall and Surge in a Multistage Compressor. , 2016, , .		17
61	Estimation of the Particle Deposition on a Subsonic Axial Compressor Blade. , 2016, , .		1
62	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
63	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
64	An Interdisciplinary Approach to Study the Fouling Phenomenon. Energy Procedia, 2015, 82, 280-285.	1.8	3
65	Concurrent Optimization of Size and Switch-on Priority of a Multi-source Energy System for a Commercial Building Application. Energy Procedia, 2015, 81, 45-54.	1.8	7
66	Optimization of Load Allocation Strategy of a Multi-source Energy System by Means of Dynamic Programming. Energy Procedia, 2015, 81, 30-39.	1.8	7
67	Quantitative CFD Analyses of Particle Deposition on a Subsonic Axial Compressor Blade. , 2015, , .		3
68	Estimation of the Particle Deposition on a Transonic Axial Compressor Blade. , 2015, , .		2
69	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, .	0.9	18
70	Quantitative Computational Fluid Dynamics Analyses of Particle Deposition on a Transonic Axial Compressor Blade – Part I: Particle Zones Impact. Journal of Turbomachinery, 2015, 137, .	0.9	25
71	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
72	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

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73	Modeling and Simulation of the Start-Up Operation of a Heavy-Duty Gas Turbine by Using NARX Models. , 2014, , .		7
74	Quantitative CFD Analyses of Particle Deposition on a Transonic Axial Compressor Blade: Part II " Impact Kinematics and Particle Sticking Analysis. , 2014, , .		4
75	Quantitative CFD Analyses of Particle Deposition on a Transonic Axial Compressor Blade: Part I " Particle Zones Impact. , 2014, , .		5
76	Methodology for estimating biomass energy potential and its application to Colombia. Applied Energy, 2014, 136, 781-796.	5.1	61
77	Performance Evaluation of Nonuniformly Fouled Axial Compressor Stages by Means of Computational Fluid Dynamics Analyses. Journal of Turbomachinery, 2014, 136, .	0.9	37
78	Optimal sizing of a multi-source energy plant for power heat and cooling generation. Applied Thermal Engineering, 2014, 71, 736-750.	3.0	50
79	Experimental Analysis of a Micro Gas Turbine Fuelled with Vegetable Oils from Energy Crops. Energy Procedia, 2014, 45, 91-100.	1.8	26
80	Analysis of Inlet Air Cooling for IGCC Power Augmentation. Energy Procedia, 2014, 45, 1265-1274.	1.8	13
81	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
82	Methodology for biomass energy potential estimation: Projections of future potential in Colombia. Renewable Energy, 2014, 69, 488-505.	4.3	26
83	Cross Validation of Multistage Compressor Map Generation by Means of Computational Fluid Dynamics and Stage-Stacking Techniques. , 2014, , .		1
84	Optimal allocation of thermal, electric and cooling loads among generation technologies in household applications. Applied Energy, 2013, 112, 205-214.	5.1	18
85	Performance Evaluation of Non-Uniformly Fouled Axial Compressor Stages by Means of Computational Fluid Dynamic Analyses. , 2013, , .		2
86	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
87	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, .	0.5	15
88	Compressor Fouling Modeling: Relationship Between Computational Roughness and Gas Turbine Operation Time. Journal of Engineering for Gas Turbines and Power, 2012, 134, .	0.5	17
89	Performance Evaluation of the Integration Between a Thermo-Photo-Voltaic Generator and an Organic Rankine Cycle. , 2012, , .		3
90	Analysis of Some Sources of Numerical Uncertainty Applied to a Transonic Compressor Stage. , 2012, , .		0

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91	Integration between a thermophotovoltaic generator and an Organic Rankine Cycle. Applied Energy, 2012, 97, 695-703.	5.1	47
92	Influence of the thermal energy storage on the profitability of micro-CHP systems for residential building applications. Applied Energy, 2012, 97, 714-722.	5.1	173
93	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
94	An Innovative Inlet Air Cooling System for IGCC Power Augmentation: Part I – Analysis of IGCC Plant Components. , 2012, , .		3
95	An Innovative Inlet Air Cooling System for IGCC Power Augmentation: Part II – Thermodynamic Analysis. , 2012, , .		1
96	Compressor Fouling Modeling: Relationship Between Computational Roughness and Gas Turbine Operation Time. , 2011, , .		5
97	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.	3.8	0
98	Development of a Model for the Simulation of Organic Rankine Cycles Based on Group Contribution Techniques. , 2011, , .		6
99	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
100	Evaluation of the Performance of a Sirocco Fan Driven by a Diesel Engine in Mist Sprayer Applications. , 2011, , .		0
101	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
102	Computational Fluid Dynamics Simulation of Fouling on Axial Compressor Stages. Journal of Engineering for Gas Turbines and Power, 2010, 132, .	0.5	48
103	Numerical Analysis of the Effects of Non-Uniform Surface Roughness on Compressor Stage Performance. , 2010, , .		8
104	Numerical Analyses of High Reynolds Number Flow of High Pressure Fuel Gas Through Rough Pipes. , 2009, , .		1
105	Analysis of biogas compression system dynamics. Applied Energy, 2009, 86, 2466-2475.	5.1	28
106	CFD Simulation of Fouling on Axial Compressor Stages. , 2009, , .		6
107	A Model for the Simulation of Large-Size Single-Shaft Gas Turbine Start-Up Based on Operating Data Fitting. , 2007, , 1849.		8