

# Riccardo Mereu

## List of Publications by Year in descending order

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33  
papers

1,457  
citations

567144

15  
h-index

580701

25  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a Membrane Module Prototype for Oxygen Separation in Industrial Applications. Membranes, 2022, 12, 167.	1.4	3
2	Energy Performance Evaluation of a Ventilated Façade System through CFD Modeling and Comparison with International Standards. Energies, 2021, 14, 193.	1.6	14
3	Quantification of Uncertainty in CFD Simulation of Accidental Gas Release for O & C Quantitative Risk Assessment. Energies, 2021, 14, 8117.	1.6	5
4	Hydropower Potential of Run of River Schemes in the Himalayas under Climate Change: A Case Study in the Dudh Koshi Basin of Nepal. Water (Switzerland), 2020, 12, 2625.	1.2	9
5	Multiphase numerical modeling of a pilot-scale bubble column with a fixed poly-dispersity approach. International Journal of Multiphase Flow, 2020, 128, 103287.	1.6	4
6	Impact of urban environment on Savonius wind turbine performance: A numerical perspective. Renewable Energy, 2020, 156, 407-422.	4.3	21
7	Numerical modelling of flashing flow phase change in convergent-divergent nozzle: A sensitivity analysis. Journal of Physics: Conference Series, 2019, 1224, 012010.	0.3	1
8	Scale-resolving CFD modeling of a thick wind turbine airfoil with application of vortex generators: Validation and sensitivity analyses. Energy, 2019, 187, 115969.	4.5	21
9	Editorial: 5th micro and nano flows conference 2016. Applied Thermal Engineering, 2018, 129, 242.	3.0	0
10	Computational Fluid Dynamics Modeling of Flashing Flow in Convergent-Divergent Nozzle. Journal of Fluids Engineering, Transactions of the ASME, 2018, 140, .	0.8	22
11	Analysis of flow field design on vanadium redox flow battery performance: Development of 3D computational fluid dynamic model and experimental validation. Applied Energy, 2018, 228, 1057-1070.	5.1	124
12	CFD study of Savonius wind turbine: 3D model validation and parametric analysis. Renewable Energy, 2017, 105, 722-734.	4.3	117
13	Application of an integrated lumped parameter-CFD approach to evaluate the ejector-driven anode recirculation in a PEM fuel cell system. Applied Thermal Engineering, 2017, 121, 628-651.	3.0	75
14	Application of computational fluid dynamics to the analysis of geometrical features in PEM fuel cells flow fields with the aid of impedance spectroscopy. Applied Energy, 2017, 205, 670-682.	5.1	38
15	Parametric numerical study of Savonius wind turbine interaction in a linear array. Renewable Energy, 2017, 113, 1320-1332.	4.3	51
16	Experimental study on steam chugging phenomenon in a vertical sparger. International Journal of Multiphase Flow, 2017, 88, 87-98.	1.6	59
17	Experimental and numerical study of freezing and flow characteristics of Wood's Metal injection in a water pool. Applied Thermal Engineering, 2016, 103, 1261-1277.	3.0	11
18	Off-grid systems for rural electrification in developing countries: Definitions, classification and a comprehensive literature review. Renewable and Sustainable Energy Reviews, 2016, 58, 1621-1646.	8.2	294

#	ARTICLE	IF	CITATIONS
19	Ejector refrigeration: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 53, 373-407.	8.2	372
20	CFD study of ejector flow behavior in a blast furnace gas galvanizing plant. <i>Journal of Thermal Science</i> , 2015, 24, 58-66.	0.9	16
21	A study of working fluids for heat driven ejector refrigeration using lumped parameter models. <i>International Journal of Refrigeration</i> , 2015, 58, 154-171.	1.8	46
22	Solar Water Heating System Codesign and Do-It-Yourself Approach for Appropriate Technology Diffusion: The MÃ©dina Case Study (Dakar, Senegal). , 2015, , 91-100.		0
23	An Integrated Lumped Parameter-CFD approach for off-design ejector performance evaluation. <i>Energy Conversion and Management</i> , 2015, 105, 697-715.	4.4	92
24	Preliminary Fluid Dynamic Analysis of Turbulent Flat and Ribbed Square Duct via CFD Approach. , 2014, , .		1
25	CFD Study of Ejector Efficiencies. , 2014, , .		5
26	Large Eddy Simulation of the Flow and Heat Transfer in a Matrix of Cubes. , 2014, , .		0
27	Numerical analysis of fluid dynamics and thermal characteristics inside a wavy channel. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2013, 23, 1049-1062.	1.6	11
28	Distributed Generation for Access to Electricity: â€œOff-Main-Gridâ€ Systems from Home-Based to Microgrid. , 2013, , 75-97.		7
29	A methodology for qualifying industrial CFD: The Q3 approach and the role of a protocol. <i>Computers and Fluids</i> , 2012, 54, 56-66.	1.3	20
30	URANS Simulation of Confined Parallel Jet Mixing. <i>Nuclear Technology</i> , 2011, 175, 538-552.	0.7	2
31	Numerical Study of a Compact Wavy Heat Exchanger. , 2011, , .		1
32	Participative Methodology for Local Development: The Contribution of Engineers Without Borders from Italy and Colombia: Towards the Improvement of Water Quality in Vulnerable Communities. <i>Systemic Practice and Action Research</i> , 2011, 24, 45-66.	1.0	14
33	Non Linear Eddy Viscosity Model Applied to U-Bend Industrial Geometry. , 2009, , .		1