

# Romano Borchiellini

## List of Publications by Year in descending order

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35  
papers

831  
citations

471509

17  
h-index

477307

29  
g-index

35  
all docs

35  
docs citations

35  
times ranked

829  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Lattice Boltzmann Formulation for the Analysis of Radiative Heat Transfer Problems in a Participating Medium. Numerical Heat Transfer, Part B: Fundamentals, 2010, 57, 126-146.	0.9	100
2	Performance of a Solid Oxide Fuel Cell short-stack with biogas feeding. Applied Energy, 2014, 125, 254-263.	10.1	80
3	Thermoeconomic analysis of large solid oxide fuel cell plants: Atmospheric vs. pressurized performance. Energy, 2013, 55, 142-155.	8.8	77
4	Experimental investigations of the microscopic features and polarization limiting factors of planar SOFCs with LSM and LSCF cathodes. Journal of Power Sources, 2008, 177, 111-122.	7.8	56
5	Multiscale modeling of transient flows from fire and ventilation in long tunnels. Computers and Fluids, 2011, 51, 16-29.	2.5	52
6	Improved angular discretization and error analysis of the lattice Boltzmann method for solving radiative heat transfer in a participating medium. International Journal of Numerical Methods for Heat and Fluid Flow, 2011, 21, 640-662.	2.8	38
7	A Novel Multiscale Methodology for Simulating Tunnel Ventilation Flows During Fires. Fire Technology, 2011, 47, 221-253.	3.0	38
8	Analysis of Rooftop Photovoltaics Diffusion in Energy Community Buildings by a Novel GIS- and Agent-Based Modeling Co-Simulation Platform. IEEE Access, 2019, 7, 93404-93432.	4.2	36
9	Techno-economic comparison of buildings acting as Single-Self Consumers or as energy community through multiple economic scenarios. Sustainable Cities and Society, 2020, 61, 102342.	10.4	33
10	Constructal thermodynamics combined with infrared experiments to evaluate temperature differences in cells. Scientific Reports, 2015, 5, 11587.	3.3	29
11	Exergy method for the diagnosis of energy systems using measured data. Energy, 2007, 32, 490-498.	8.8	28
12	Modeling technology retrofit scenarios for the conversion of condominium into an energy community: An Italian case study. Journal of Cleaner Production, 2021, 282, 124536.	9.3	27
13	The extremely low frequency electromagnetic stimulation selective for cancer cells elicits growth arrest through a metabolic shift. Biochimica Et Biophysica Acta - Molecular Cell Research, 2019, 1866, 1389-1397.	4.1	26
14	Data informed physical models for district heating grids with distributed heat sources to understand thermal and hydraulic aspects. Energy, 2021, 222, 119965.	8.8	22
15	Analytical procedure for carbon tax evaluation. Energy Conversion and Management, 2000, 41, 1509-1531.	9.2	20
16	Carbon tax vs CO2 sequestration effects on environmental analysis of existing power plants. Energy Conversion and Management, 2002, 43, 1425-1443.	9.2	20
17	Low emissions analysis platform model for renewable energy: Community-scale case studies in Nigeria. Sustainable Cities and Society, 2021, 67, 102750.	10.4	20
18	Experimental evaluation of the operating temperature impact on solid oxide anode-supported fuel cells. International Journal of Hydrogen Energy, 2008, 33, 3167-3172.	7.1	15

#	ARTICLE	IF	CITATIONS
19	An evaluation exercise of a multizone air flow model. <i>Energy and Buildings</i> , 1999, 30, 35-51.	6.7	13
20	Entropy versus entransy. <i>Journal of Non-Equilibrium Thermodynamics</i> , 2013, .	4.2	12
21	Exergetic and economic evaluation of control strategies for a gas turbine plant. <i>Energy</i> , 2004, 29, 2253-2271.	8.8	11
22	A Distributed Multimodel Platform to Cosimulate Multienergy Systems in Smart Buildings. <i>IEEE Transactions on Industry Applications</i> , 2021, 57, 4428-4440.	4.9	11
23	Expanding the FDS Simulation Capabilities to Fire Tunnel Scenarios Through a Novel Multi-scale Model. <i>Fire Technology</i> , 2021, 57, 2491-2514.	3.0	10
24	The Energy Center Initiative at Politecnico di Torino: Practical experiences on energy efficiency measures in the municipality of Torino. <i>International Journal of Heat and Technology</i> , 2017, 35, S196-S204.	0.6	10
25	Carbon exergy tax (CET): its impact on conventional energy system design and its contribution to advanced systems utilisation. <i>Energy</i> , 2003, 28, 607-625.	8.8	9
26	Supporting Decarbonization Strategies of Local Energy Systems by De-Risking Investments in Renewables: A Case Study on Pantelleria Island. <i>Energies</i> , 2022, 15, 1103.	3.1	9
27	A fuzzy logic procedure for ventilation control in case of fire in long tunnels. <i>Fire Safety Journal</i> , 2009, 44, 612-621.	3.1	8
28	An overview of the evaluation activities of IEA ECBCS Annex 23. <i>Energy and Buildings</i> , 1999, 30, 19-33.	6.7	5
29	A decision-making process to support public administrations in defining local energy policies. <i>Thermal Science and Engineering Progress</i> , 2018, 6, 398-409.	2.7	5
30	A Distributed Platform for Multi-modelling Co-simulations of Smart Building Energy Behaviour. , 2020, , .		3
31	GAMES: A General-Purpose Architectural Model for Multi-energy System Engineering Applications. , 2020, , .		3
32	Load Profiles Clustering and Knowledge Extraction to Assess Actual Usage of Telecommunication Sites. , 2021, , .		2
33	Performance Analysis of Solid Oxide Fuel Cell Stack: Part 2 " Radiation Heat Transfer. , 2007, , .		1
34	Estimation of the thermal conductivity of an epoxy resin by the use of an internal parallelepiped heat source. I: Numerical analysis. <i>High Temperatures - High Pressures</i> , 1999, 31, 633-641.	0.3	1
35	Electrical Installations in Road Tunnel Design Criteria Tested by Fire Simulations: A Confirmation of the Zoning Approach. <i>IEEE Industry Applications Magazine</i> , 2022, 28, 34-41.	0.4	1