Antonio Messineo

List of Publications by Year
in descending order

80 papers	2,472 citations	147801 31 h-index	206112 48 g-index
83 all docs	83 docs citations	83 times ranked	2712 citing authors

#	Article	IF	Citations
1	Monitoring of wind farmsâ€™ power curves using machine learning techniques. Applied Energy, 2012, 98, 574-583.	10.1	170
2	How can life cycle thinking support sustainability of buildings? Investigating life cycle assessment applications for energy efficiency and environmental performance. Journal of Cleaner Production, 2018, 201, 556-569.	9.3	151
3	Food waste recovery into energy in a circular economy perspective: A comprehensive review of aspects related to plant operation and environmental assessment. Journal of Cleaner Production, 2018, 184, 869-892.	9.3	134
4	3D CFD Analysis of a Vertical Axis Wind Turbine. Energies, 2015, 8, 3013-3033.	3.1	118
5	Hydrothermal Carbonization as a Valuable Tool for Energy and Environmental Applications: A Review. Energies, 2020, 13, 4098.	3.1	106
6	Coupling a neural network temperature predictor and a fuzzy logic controller to perform thermal comfort regulation in an office building. Building and Environment, 2014, 72, 287-299.	6.9	92
7	Reactivity of cellulose during hydrothermal carbonization of lignocellulosic biomass. Fuel Processing Technology, 2020, 206, 106456.	7.2	84
8	Upgrade of citrus waste as a biofuel via slow pyrolysis. Journal of Analytical and Applied Pyrolysis, 2015, 115, 66-76.	5.5	77
9	Investigating energy and environmental issues of agro-biogas derived energy systems: A comprehensive review of Life Cycle Assessments. Renewable Energy, 2019, 136, 296-307.	8.9	68
10	Assessment of olive wastes as energy source: pyrolysis, torrefaction and the key role of H loss in thermal breakdown. Energy, 2015, 82, 119-127.	8.8	67
11	R744-R717 Cascade Refrigeration System: Performance Evaluation compared with a HFC Two-Stage System. Energy Procedia, 2012, 14, 56-65.	1.8	63
12	Using Recurrent Artificial Neural Networks to Forecast Household Electricity Consumption. Energy Procedia, 2012, 14, 45-55.	1.8	62
13	Biomethane recovery from olive mill residues through anaerobic digestion: A review of the state of the art technology. Science of the Total Environment, 2020, 703, 135508.	8.0	62
14	LNG cold energy use in agro-food industry: A case study in Sicily. Journal of Natural Gas Science and Engineering, 2011, 3, 356-363.	4.4	61
15	Cationic Dye Adsorption on Hydrochars of Winery and Citrus Juice Industries Residues: Performance, Mechanism, and Thermodynamics. Energies, 2020, 13, 4686.	3.1	55
16	On the Evaluation of Solar Greenhouse Efficiency in Building Simulation during the Heating Period. Energies, 2012, 5, 1864-1880.	3.1	54
17	Energy Recovery in Water Distribution Networks. Implementation of Pumps as Turbine in a Dynamic Numerical Model. Procedia Engineering, 2014, 70, 439-448.	1.2	54
18	Potential applications using LNG cold energy in Sicily. International Journal of Energy Research, 2008, 32, 1058-1064.	4.5	53

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19	Energy Saving in Water Distribution Network through Pump as Turbine Generators: Economic and Environmental Analysis. Energies, 2016, 9, 877.	3.1	49
20	An Innovative Adaptive Control System to Regulate Microclimatic Conditions in a Greenhouse. Energies, 2017, 10, 722.	3.1	48
21	Sustainable Production of Bio-Combustibles from Pyrolysis of Agro-Industrial Wastes. Sustainability, 2014, 6, 7866-7882.	3.2	45
22	A Dynamic Fuzzy Controller to Meet Thermal Comfort by Using Neural Network Forecasted Parameters as the Input. Energies, 2014, 7, 4727-4756.	3.1	45
23	Evolution of chars during slow pyrolysis of citrus waste. Fuel Processing Technology, 2017, 158, 255-263.	7.2	41
24	Energy and carbon footprint assessment of production of hemp hurds for application in buildings. Environmental Impact Assessment Review, 2020, 84, 106417.	9.2	40
25	Ligno-cellulosic biomass exploitation for power generation: A case study in sicily. Energy, 2012, 45, 613-625.	8.8	39
26	Cogeneration plant in a pasta factory: Energy saving and environmental benefit. Energy, 2007, 32, 746-754.	8.8	37
27	Performance evaluation of hybrid RO/MEE systems powered by a WTE plant. Desalination, 2008, 229, 82-93.	8.2	35
28	Municipal waste management in Sicily: Practices and challenges. Waste Management, 2008, 28, 1201-1208.	7.4	34
29	Comparison of ORC Turbine and Stirling Engine to Produce Electricity from Gasified Poultry Waste. Sustainability, 2014, 6, 5714-5729.	3.2	33
30	Energy and environmental assessment of a traditional durum-wheat bread. Journal of Cleaner Production, 2018, 171, 1494-1509.	9.3	33
31	Carbon reactivity in biomass thermal breakdown. Fuel, 2016, 183, 139-144.	6.4	31
32	Process Water Recirculation during Hydrothermal Carbonization of Waste Biomass: Current Knowledge and Challenges. Energies, 2021, 14, 2962.	3.1	31
33	Evaluation of Net Energy Obtainable from Combustion of Stabilised Olive Mill By-Products. Energies, 2012, 5, 1384-1397.	3.1	27
34	Tomato puree in the Mediterranean region: An environmental Life Cycle Assessment, based upon data surveyed at the supply chain level. Journal of Cleaner Production, 2019, 233, 292-313.	9.3	27
35	Estimation of Air Pollutant Emissions in Flower Roundabouts and in Conventional Roundabouts. Archives of Civil Engineering, 2013, 59, 229-246.	0.7	24
36	Industrial-Scale Hydrothermal Carbonization of Agro-Industrial Digested Sludge: Filterability Enhancement and Phosphorus Recovery. Sustainability, 2021, 13, 9343.	3.2	24

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37	Environmental assessment of a waste-to-energy practice: The pyrolysis of agro-industrial biomass residues. Sustainable Production and Consumption, 2021, 28, 866-876.	11.0	23
38	Carbon Footprint of Tree Nuts Based Consumer Products. Sustainability, 2015, 7, 14917-14934.	3.2	21
39	PERFORMANCE EVALUATION OF CASCADE REFRIGERATION SYSTEMS USING DIFFERENT REFRIGERANTS. International Journal of Air-Conditioning and Refrigeration, 2012, 20, 1250010.	0.7	20
40	Free radicals formation on thermally decomposed biomass. Fuel, 2019, 255, 115802.	6.4	20
41	Evaluation of the optimal activation parameters for almond shell bio-char production for capacitive deionization. Bioresource Technology Reports, 2020, 11, 100435.	2.7	18
42	Enhancement of energy and combustion properties of hydrochar via citric acid catalysed secondary char production. Biomass Conversion and Biorefinery, 2023, 13, 10527-10538.	4.6	16
43	Hydrothermal Carbonization of Lemon Peel Waste: Preliminary Results on the Effects of Temperature during Process Water Recirculation. Applied System Innovation, 2021, 4, 19.	4.6	15
44	Piezoelectric Bender Transducers for Energy Harvesting Applications. Energy Procedia, 2012, 14, 39-44.	1.8	13
45	Assessing Methane Emission and Economic Viability of Energy Exploitation in a Typical Sicilian Municipal Solid Waste Landfill. Waste and Biomass Valorization, 2019, 10, 3173-3184.	3.4	13
46	Potential pitfalls on the scalability of laboratory-based research for hydrothermal carbonization. Fuel, 2022, 315, 123189.	6.4	13
47	On the suitability of thermogravimetric balances for the study of biomass pyrolysis. Fuel, 2020, 276, 118069.	6.4	12
48	Collection of Thermal Energy Available from a Biogas Plant for Leachate Treatment in an Urban Landfill: A Sicilian Case Study. Energies, 2012, 5, 3753-3767.	3.1	11
49	On-site Experimental Study of HCFC-22 Substitution with HFCs Refrigerants. Energy Procedia, 2012, 14, 32-38.	1.8	10
50	Evaluating the Performances of Small Wind Turbines: A Case Study in the South of Italy. Energy Procedia, 2012, 16, 137-145.	1.8	10
51	Numerical Analysis of Piezoelectric Active Repair in the Presence of Frictional Contact Conditions. Sensors, 2013, 13, 4390-4403.	3.8	10
52	Absorption equipment for energy savings: A case study in Sicily. Sustainable Energy Technologies and Assessments, 2013, 3, 17-26.	2.7	7
53	A NUMERICAL SOLUTION THAT DETERMINES THE TEMPERATURE FIELD INSIDE PHASE CHANGE MATERIALS: APPLICATION IN BUILDINGS. Journal of Civil Engineering and Management, 2013, 19, 518-528.	3.5	6
54	A self-powered wireless sensor network for dynamic management of queues at traffic lights. Transport and Telecommunication, 2014, 15, 42-52.	1.0	5

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55	Feasibility of usage of hemp as a feedstock for anaerobic digestion: Findings from a literature review of the relevant technological and energy dimensions. Critical Reviews in Environmental Science and Technology, 2021, 51, 1129-1158.	12.8	5
56	Reducing Air Pollutants through Road Innovative Intersections. Applied Mechanics and Materials, 0, 459, 563-568.	0.2	4
57	Technical and Economical Feasibility of Biomass Use for Power Generation in Sicily. International Journal of Agricultural and Environmental Information Systems, 2012, 3, 40-50.	2.0	3
58	The Application of Different Model of Multi-Layer Perceptrons in the Estimation of Wind Speed. Advanced Materials Research, 2012, 452-453, 690-694.	0.3	2
59	Assessment of bio-combustibles production via slow pyrolysis of wine industry residues. AIP Conference Proceedings, 2018, , .	0.4	2
60	Promoting energy recovery from recalcitrant agro-industrial wastes through anaerobic digestion: A review on olive mill residues. AIP Conference Proceedings, 2018, , .	0.4	2
61	Catalytic effect of alkali metals in volatilisation of solid biofuels during gasification. AIP Conference Proceedings, 2018, , .	0.4	2
62	Wind Turbines to Power Telecommunication Systems: A Case Study in Sicily. The Open Renewable Energy Journal, 2011, 4, 23-33.	0.7	2
63	Energy and Environmental Assessment of a Hybrid Dish-Stirling Concentrating Solar Power Plant. Sustainability, 2022, 14, 6098.	3.2	2
64	Advanced Refrigerating Plants Based on Transcritical Cycles Working with Carbon Dioxide for Commercial Refrigeration. Applied Mechanics and Materials, 2012, 260-261, 611-617.	0.2	1
65	Concept of a New Pluviometer for Metering Rainfall Erosivity. Advanced Materials Research, 2012, 452-453, 316-320.	0.3	1
66	Optimization of turbine positioning in water distribution networks. A Sicilian case study. AIP Conference Proceedings, 2017, , .	0.4	1
67	Multi-Energy School System for Seasonal Use in the Mediterranean Area. Sustainability, 2020, 12, 8458.	3.2	1
68	Numerical Solution of Foodstuff Freezing Problems Using Radial Basis Functions. Advanced Science Letters, 2013, 19, 1044-1047.	0.2	1
69	Analysis of Air Cycle and Efficiency Evaluation for a Blast Freezing Tunnel Plant. Applied Mechanics and Materials, 0, 291-294, 1631-1635.	0.2	0
70	A Testing Facility for Refrigerating Plants Equipment Working with New Fluids. Applied Mechanics and Materials, 0, 291-294, 1696-1700.	0.2	0
71	Ex-ante assessment of the implementation of an energy management policy in Northern Africa. International Journal of Energy Technology and Policy, 2014, 10, 221.	0.2	0
72	Preface of the symposium â€œAdvanced Engineering Systems and Computer Applications: Theory and Practiceâ€• AIP Conference Proceedings, 2018, , .	0.4	0

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73	Energy and Environmental Assessments of Agro-biogas Supply Chains for Energy Generation: A Comprehensive Review. Green Energy and Technology, 2019, , 99-117.	0.6	0
74	Preface of the Symposium â€œAdvanced Engineering Systems and Computer Applications: Theory and Practiceâ€• AIP Conference Proceedings, 2021, , .	0.4	0
75	Characterization of Italian food waste bio-methane potential evaluation via anaerobic digestion. AIP Conference Proceedings, 2021, , .	0.4	0
76	Morphological and structural evolution of activated carbons from almond shells. AIP Conference Proceedings, 2021, , .	0.4	0
77	Slow pyrolysis for energy valorization of pistachio shells. AIP Conference Proceedings, 2021, , .	0.4	0
78	Technical and Economical Feasibility of Biomass Use for Power Generation in Sicily. , 2013, , 1411-1420.		0
79	Modelling heat transfer-controlled cooling and freezing times: a comparison between computational values and experimental results. WIT Transactions on Ecology and the Environment, 2013, , .	0.0	0
80	Technical and Economical Assessment of Biomass Potential for Power Production: A Study in the South of Italy. Journal of Environmental Accounting and Management, 2016, 4, 287-299.	0.5	0