Antonio Pantaleo

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4890253/publications.pdf

Version: 2024-02-01

87 papers	2,743 citations	172457 29 h-index	197818 49 g-index
87 all docs	87 docs citations	87 times ranked	2441 citing authors

#	Article	IF	Citations
1	Influence of process parameters and biomass characteristics on the durability of pellets from the pruning residues of Olea europaea L.. Biomass and Bioenergy, 2011, 35, 402-410.	5.7	178
2	Solar combined cooling, heating and power systems based on hybrid PVT, PV or solar-thermal collectors for building applications. Renewable Energy, 2019, 143, 637-647.	8.9	168
3	Novel hybrid CSP-biomass CHP for flexible generation: Thermo-economic analysis and profitability assessment. Applied Energy, 2017, 204, 994-1006.	10.1	97
4	Technoeconomic assessments of hybrid photovoltaic-thermal vs. conventional solar-energy systems: Case studies in heat and power provision to sports centres. Applied Energy, 2019, 254, 113657.	10.1	90
5	Thermo-economic assessment of externally fired micro-gas turbine fired by natural gas and biomass: Applications in Italy. Energy Conversion and Management, 2013, 75, 202-213.	9.2	89
6	Hybrid solar-biomass combined Brayton/organic Rankine-cycle plants integrated with thermal storage: Techno-economic feasibility in selected Mediterranean areas. Renewable Energy, 2020, 147, 2913-2931.	8.9	88
7	Assessment of optimal size of anaerobic co-digestion plants: An application to cattle farms in the province of Bari (Italy). Renewable and Sustainable Energy Reviews, 2013, 20, 57-70.	16.4	86
8	Computer-aided working-fluid design, thermodynamic optimisation and thermoeconomic assessment of ORC systems for waste-heat recovery. Energy, 2018, 161, 1181-1198.	8.8	83
9	Performance of working-fluid mixtures in ORC-CHP systems for different heat-demand segments and heat-recovery temperature levels. Energy Conversion and Management, 2017, 148, 1508-1524.	9.2	80
10	Combined supercritical CO2 (SCO2) cycle and organic Rankine cycle (ORC) system for hybrid solar and geothermal power generation: Thermoeconomic assessment of various configurations. Renewable Energy, 2021, 174, 1020-1035.	8.9	80
11	Challenges and opportunities for nanomaterials in spectral splitting for high-performance hybrid solar photovoltaic-thermal applications: A review. Nano Materials Science, 2020, 2, 183-203.	8.8	79
12	Cycle configuration analysis and techno-economic sensitivity of biomass externally fired gas turbine with bottoming ORC. Energy Conversion and Management, 2015, 105, 1239-1250.	9.2	70
13	Spectral-splitting hybrid PV-thermal (PVT) systems for combined heat and power provision to dairy farms. Renewable Energy, 2020, 159, 1047-1065.	8.9	66
14	ESCO business models for biomass heating and CHP: Profitability of ESCO operations in Italy and key factors assessment. Renewable and Sustainable Energy Reviews, 2014, 30, 237-253.	16.4	60
15	Natural gasâ€“biomass dual fuelled microturbines: Comparison ofÂoperating strategies in the Italian residential sector. Applied Thermal Engineering, 2014, 71, 686-696.	6.0	56
16	Improving indoor air quality through an air purifier able to reduce aerosol particulate matter (PM) and volatile organic compounds (VOCs): Experimental results. Environmental Research, 2021, 197, 111131.	7.5	55
17	Net-zero multi-energy systems for Siberian rural communities: A methodology to size thermal and electric storage units. Renewable Energy, 2020, 155, 979-989.	8.9	54
18	Efficiency limits of concentrating spectral-splitting hybrid photovoltaic-thermal (PV-T) solar collectors and systems. Light: Science and Applications, 2021, 10, 28.	16.6	53

#	Article	IF	Citations
19	Integration of biomass into urban energy systems for heat and power. Part I: An MILP based spatial optimization methodology. Energy Conversion and Management, 2014, 83, 347-361.	9.2	52
20	Integrating cogeneration and intermittent waste-heat recovery in food processing: Microturbines vs. ORC systems in the coffee roasting industry. Applied Energy, 2018, 225, 782-796.	10.1	51
21	Feasibility study of off-shore wind farms: an application to Puglia region. Solar Energy, 2005, 79, 321-331.	6.1	49
22	Evaluating biomass energy strategies for a UK eco-town with an MILP optimization model. Biomass and Bioenergy, 2012, 39, 306-316.	5.7	49
23	Review of Energy Efficiency Technologies in the Food Industry: Trends, Barriers, and Opportunities. IEEE Access, 2020, 8, 48015-48029.	4.2	45
24	Pathways toward high-efficiency solar photovoltaic thermal management for electrical, thermal and combined generation applications: A critical review. Energy Conversion and Management, 2022, 255, 115278.	9.2	39
25	Integration of biomass into urban energy systems for heat and power. Part II: Sensitivity assessment of main techno-economic factors. Energy Conversion and Management, 2014, 83, 362-376.	9.2	37
26	Thermoeconomic optimisation of small-scale organic Rankine cycle systems based on screw vs. piston expander maps in waste heat recovery applications. Energy Conversion and Management, 2019, 200, 112053.	9.2	34
27	On the performance of concentrating fluid-based spectral-splitting hybrid PV-thermal (PV-T) solar collectors. Renewable Energy, 2021, 174, 590-605.	8.9	34
28	Thermo-economic assessment of flexible nuclear power plants in future low-carbon electricity systems: Role of thermal energy storage. Energy Conversion and Management, 2022, 258, 115484.	9.2	32
29	Enhancement of biogas production via green ZnO nanoparticles: experimental results of selected herbaceous crops. Chemical Engineering Communications, 2021, 208, 242-255.	2.6	31
30	Modelling of national and local interactions between heat and electricity networks in low-carbon energy systems. Applied Energy, 2020, 276, 115522.	10.1	30
31	Effects of Ultrasound and Green Synthesis ZnO Nanoparticles on Biogas Production from Olive Pomace. Energy Procedia, 2018, 148, 940-947.	1.8	29
32	Efficiency of Fe3O4 Nanoparticles with Different Pretreatments for Enhancing Biogas Yield of Macroalgae Ulva intestinalis Linnaeus. Molecules, 2021, 26, 5105.	3.8	29
33	Potentials and feasibility assessment of small scale CHP plants fired by energy crops in Puglia region (Italy). Biosystems Engineering, 2009, 102, 345-359.	4.3	28
34	On the value of combined heat and power (CHP) systems and heat pumps in centralised and distributed heating systems: Lessons from multi-fidelity modelling approaches. Applied Energy, 2020, 274, 115261.	10.1	28
35	Small scale biomass CHP: Techno-economic performance of steam vs gas turbines with bottoming ORC. Energy Procedia, 2015, 82, 825-832.	1.8	26
36	Thermoeconomic analysis on a cascade energy utilization system for compression heat in air separation units. Energy Conversion and Management, 2020, 213, 112820.	9.2	26

#	Article	IF	Citations
37	Enhancement of Biogas Production from Macroalgae Ulva latuca via Ozonation Pretreatment. Energies, 2021, 14, 1703.	3.1	26
38	Part Load Performance and Operating Strategies of a Natural Gasâ€"Biomass Dual Fueled Microturbine for Combined Heat and Power Generation. Journal of Engineering for Gas Turbines and Power, 2015, 137, .	1.1	25
39	Techno-Economic Analysis of ZnO Nanoparticles Pretreatments for Biogas Production from Barley Straw. Energies, 2020, 13, 5001.	3.1	25
40	Delivering net-zero carbon heat: Technoeconomic and whole-system comparisons of domestic electricity- and hydrogen-driven technologies in the UK. Energy Conversion and Management, 2022, 262, 115649.	9.2	25
41	Thermo-economic Assessment of Small Scale Biomass CHP: Steam Turbines vs ORC in Different Energy Demand Segments. Energy Procedia, 2015, 75, 1609-1617.	1.8	23
42	Modeling and Experimental Study of a Small Scale Olive Pomace Gasifier for Cogeneration: Energy and Profitability Analysis. Energies, 2017, 10, 1930.	3.1	23
43	Thermo-Economic Assessment of a Olive Pomace Gasifier for Cogeneration Applications. Energy Procedia, 2015, 75, 252-258.	1.8	22
44	The potential demand for bioenergy in residential heating applications (bio-heat) in the UK based on a market segment analysis. Biomass and Bioenergy, 2008, 32, 635-653.	5.7	20
45	Techno-Economic Modeling of Biomass Pellet Routes: Feasibility in Italy. Energies, 2020, 13, 1636.	3.1	20
46	Applications and Development of LEDs as Supplementary Lighting for Tomato at Different Latitudes. Agronomy, 2021, 11, 835.	3.0	20
47	Synthesis, Characterization, and Synergistic Effects of Modified Biochar in Combination with Î±-Fe2O3 NPs on Biogas Production from Red Algae Pterocladia capillacea. Sustainability, 2021, 13, 9275.	3.2	19
48	Parametric multi-objective optimization of an Organic Rankine Cycle with thermal energy storage for distributed generation. Energy Procedia, 2017, 126, 429-436.	1.8	16
49	Environmental and Economic Analysis of an Anaerobic Co-Digestion Power Plant Integrated with a Compost Plant. Energies, 2020, 13, 2724.	3.1	16
50	Energy and Economic Assessment of Energy Efficiency Options for Energy Districts: Case Studies in Italy and Egypt. Energies, 2021, 14, 1012.	3.1	16
51	Thermo-economic Assessment of an Externally Fired Hybrid CSP/biomass Gas Turbine and Organic Rankine Combined Cycle. Energy Procedia, 2017, 105, 174-181.	1.8	14
52	Operational Optimisation of a Non-Recuperative 1-kWe Organic Rankine Cycle Engine Prototype. Applied Sciences (Switzerland), 2019, 9, 3024.	2.5	14
53	Multi-model assessment of heat decarbonisation options in the UK using electricity and hydrogen. Renewable Energy, 2022, 194, 1261-1276.	8.9	14
54	Externally Fired Micro-Gas Turbine and Organic Rankine Cycle Bottoming Cycle: Optimal Biomass/Natural Gas Combined Heat and Power Generation Configuration for Residential Energy Demand. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	1.1	13

#	Article	IF	Citations
55	Energy Performance and Thermo-economic Assessment of a Microturbine-based Dual-fuel Gas-biomass Trigeneration System. Energy Procedia, 2017, 105, 764-772.	1.8	13
56	Solar/biomass hybrid cycles with thermal storage and bottoming ORC: System integration and economic analysis. Energy Procedia, 2017, 129, 724-731.	1.8	13
57	Optimal design and operation of an urban energy system applied to the Fiera Del Levante exhibition centre. Applied Energy, 2020, 275, 115359.	10.1	13
58	Thermodynamic analysis of a small scale combined cycle for energy generation from carbon neutral biomass. Energy Procedia, 2017, 129, 891-898.	1.8	12
59	Integrated computer-aided working-fluid design and thermoeconomic ORC system optimisation. Energy Procedia, 2017, 129, 152-159.	1.8	12
60	Intermittent waste heat recovery: Investment profitability of ORC cogeneration for batch, gas-fired coffee roasting. Energy Procedia, 2017, 129, 575-582.	1.8	10
61	Thermoeconomic assessment of a PV/T combined heating and power system for University Sport Centre of Bari. Energy Procedia, 2019, 158, 1229-1234.	1.8	10
62	A Vision for Energy Decarbonization: Planning Sustainable Tertiary Sites as Net-Zero Energy Systems. Energies, 2021, 14, 5577.	3.1	10
63	Influence of wood substrate on bonding joint with structural silicone sealants for wood frames applications. International Journal of Adhesion and Adhesives, 2012, 37, 121-128.	2.9	9
64	A Combined Power Plant Fueled by Syngas Produced in a Downdraft Gasifier. , 2016, , .		9
65	Technoeconomic assessment of solar combined heat and power systems based on hybrid PVT collectors in greenhouse applications. IOP Conference Series: Materials Science and Engineering, 2019, 609, 072026.	0.6	9
66	OLIVE RESIDUES TO ENERGY CHAINS IN THE APULIA REGION PART I: BIOMASS POTENTIALS AND COSTS. Journal of Agricultural Engineering, 2009, 40, 37.	1.5	8
67	Externally Fired Micro Gas Turbine and ORC Bottoming Cycle: Optimal Biomass/Natural Gas CHP Configuration for Residential Energy Demand. , 2015, , .		8
68	ORC cogeneration systems in waste-heat recovery applications. Energy Procedia, 2017, 142, 1736-1742.	1.8	7
69	Energy performance and profitability of biomass boilers in the commercial sector: A case study in the UK. Energy Procedia, 2018, 148, 639-646.	1.8	7
70	An optical torque transducer for high-speed cutting. Measurement Science and Technology, 2006, 17, 331-339.	2.6	6
71	Structural silicone sealant modelling for wood frames: influence of adhesion on bonding strength. Journal of Adhesion Science and Technology, 2013, 27, 1259-1277.	2.6	6
72	Intermittent waste heat recovery via ORC in coffee torrefaction. Energy Procedia, 2017, 142, 1714-1720.	1.8	6

#	Article	IF	Citations
73	Optimisation of Integrated Bioenergy and Concentrated Solar Power Supply Chains in South Africa. Computer Aided Chemical Engineering, 2018, , 1463-1468.	0.5	6
74	A process systems engineering approach to designing a solar/biomass hybrid energy system for dairy farms in Argentina. Computer Aided Chemical Engineering, 2019, 46, 1609-1614.	0.5	6
75	Thermal Energy Storage for Solar Energy Utilization: Fundamentals and Applications. , 0, , .		6
76	Biomass Utilization in Dual Combustion Gas Turbines for Distributed Power Generation in Mediterranean Countries. , 2011, , .		5
77	Part Load Performance and Operating Strategies of a Natural Gasâ€“Biomass Dual Fuelled Microturbine for CHP Generation. , 2014, , .		5
78	A Net-Zero Energy System Solution for Russian Rural Communities. E3S Web of Conferences, 2018, 69, 01013.	0.5	5
79	Technical Issues for Wind Energy Integration in Power Systems: Projections in Italy. Wind Engineering, 2003, 27, 473-493.	1.9	2
80	Assessment of wood particleboards milling by means of energy consumption tests. Wood Material Science and Engineering, 2014, 9, 193-201.	2.3	2
81	Photovoltaic/Thermal Solar Collectors. , 2022, , 294-345.		2
82	Wooden window frames with structural sealants: manufacturing improvements and experimental validation of a finite element model. Journal of Adhesion Science and Technology, 2014, 28, 115-135.	2.6	1
83	Tests for outdoor window profiles: 90Â° mortise tenon corner joints strength assessment. Wood Material Science and Engineering, 2016, 11, 25-35.	2.3	1
84	Beech Wood for Architectural Design: Three Studies Case from an International Design Contest Terres de HÃªtreÂ®. Lecture Notes in Civil Engineering, 2019, , 1151-1181.	0.4	1
85	A semi-empirical model for de-watering and cooling of leafy vegetables. Applied Thermal Engineering, 2022, 208, 118227.	6.0	1
86	Experimental Study of Mayenite-Based Catalysts Effectiveness in Reducing Pollution From Biomass Gasification in Fluidized Bed Reactors. , 2016, , .		0
87	Eco-friendly biogas production from algal biomass. , 2022, , 225-249.		0