

Franco Cotana

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

161
papers

4,949
citations

40
h-index

62
g-index

165
ext. papers

5,615
ext. citations

4.7
avg, IF

6.11
L-index

#	Paper	IF	Citations
161	Production of nanocrystalline cellulose from lignocellulosic biomass: technology and applications. <i>Carbohydrate Polymers</i> , 2013 , 94, 154-69	10.3	743
160	The thermal effect of an innovative cool roof on residential buildings in Italy: Results from two years of continuous monitoring. <i>Energy and Buildings</i> , 2014 , 69, 154-164	7	113
159	Environmental effects on natural frequencies of the San Pietro bell tower in Perugia, Italy, and their removal for structural performance assessment. <i>Mechanical Systems and Signal Processing</i> , 2017 , 82, 307-322	7.8	111
158	Inter-building effect: Simulating the impact of a network of buildings on the accuracy of building energy performance predictions. <i>Building and Environment</i> , 2012 , 58, 37-45	6.5	109
157	Lignin as Co-product of Second Generation Bioethanol Production from Ligno-cellulosic Biomass. <i>Energy Procedia</i> , 2014 , 45, 52-60	2.3	88
156	A method for assessing buildings energy efficiency by dynamic simulation and experimental activity. <i>Applied Energy</i> , 2012 , 97, 419-429	10.7	87
155	On an innovative integrated technique for energy refurbishment of historical buildings: Thermal-energy, economic and environmental analysis of a case study. <i>Applied Energy</i> , 2016 , 162, 1313-1322	10.7	84
154	Albedo control as an effective strategy to tackle Global Warming: A case study. <i>Applied Energy</i> , 2014 , 130, 641-647	10.7	82
153	Multipurpose characterization of glazing systems with silica aerogel: In-field experimental analysis of thermal-energy, lighting and acoustic performance. <i>Building and Environment</i> , 2014 , 81, 92-102	6.5	80
152	Multifunctional smart concretes with novel phase change materials: Mechanical and thermo-energy investigation. <i>Applied Energy</i> , 2018 , 212, 1448-1461	10.7	69
151	Unsteady simulation of energy performance and thermal comfort in non-residential buildings. <i>Building and Environment</i> , 2013 , 59, 482-491	6.5	66
150	On the thermal and visual pedestrians' perception about cool natural stones for urban paving: A field survey in summer conditions. <i>Building and Environment</i> , 2016 , 107, 198-214	6.5	64
149	The Impact of Albedo Increase to Mitigate the Urban Heat Island in Terni (Italy) Using the WRF Model. <i>Sustainability</i> , 2016 , 8, 999	3.6	63
148	On the effect of summer heatwaves and urban overheating on building thermal-energy performance in central Italy. <i>Sustainable Cities and Society</i> , 2017 , 28, 187-200	10.1	61
147	A comparison between SHF and SSSF processes from cardoon for ethanol production. <i>Industrial Crops and Products</i> , 2015 , 69, 424-432	5.9	61
146	Innovative panels with recycled materials: Thermal and acoustic performance and Life Cycle Assessment. <i>Applied Energy</i> , 2014 , 134, 150-162	10.7	60
145	Multipurpose experimental characterization of smart nanocomposite cement-based materials for thermal-energy efficiency and strain-sensing capability. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 161, 77-88	6.4	59

144	Experimental in-lab and in-field analysis of waterproof membranes for cool roof application and urban heat island mitigation. <i>Energy and Buildings</i> , 2016 , 114, 180-190	7	57
143	Experimental Analysis of Natural Gravel Covering as Cool Roofing and Cool Pavement. <i>Sustainability</i> , 2014 , 6, 4706-4722	3.6	57
142	Evaluation of albedo enhancement to mitigate impacts of urban heat island in Rome (Italy) using WRF meteorological model. <i>Urban Climate</i> , 2018 , 24, 551-566	6.8	57
141	Production of Bioethanol in a Second Generation Prototype from Pine Wood Chips. <i>Energy Procedia</i> , 2014 , 45, 42-51	2.3	54
140	On the impact of innovative materials on outdoor thermal comfort of pedestrians in historical urban canyons. <i>Renewable Energy</i> , 2018 , 118, 825-839	8.1	54
139	Outdoor comfort conditions in urban areas: On citizens' perspective about microclimate mitigation of urban transit areas. <i>Sustainable Cities and Society</i> , 2018 , 39, 16-36	10.1	53
138	Co-combustion performance and kinetic study of solid digestate with gasification biochar. <i>Renewable Energy</i> , 2018 , 121, 597-605	8.1	51
137	Summer and Winter Effect of Innovative Cool Roof Tiles on the Dynamic Thermal Behavior of Buildings. <i>Energies</i> , 2014 , 7, 2343-2361	3.1	51
136	Active cool roof effect: impact of cool roofs on cooling system efficiency. <i>Advances in Building Energy Research</i> , 2013 , 7, 209-221	1.8	51
135	Thermal-physics and energy performance of an innovative green roof system: The Cool-Green Roof. <i>Solar Energy</i> , 2015 , 116, 337-356	6.8	50
134	Expanding Inter-Building Effect modeling to examine primary energy for lighting. <i>Energy and Buildings</i> , 2014 , 76, 513-523	7	49
133	A Building Energy Efficiency Optimization Method by Evaluating the Effective Thermal Zones Occupancy. <i>Energies</i> , 2012 , 5, 5257-5278	3.1	49
132	Clathrate Hydrates for Thermal Energy Storage in Buildings: Overview of Proper Hydrate-Forming Compounds. <i>Sustainability</i> , 2014 , 6, 6815-6829	3.6	48
131	How outdoor microclimate mitigation affects building thermal-energy performance: A new design-stage method for energy saving in residential near-zero energy settlements in Italy. <i>Renewable Energy</i> , 2018 , 127, 920-935	8.1	45
130	Effect of dynamic characteristics of building envelope on thermal-energy performance in winter conditions: In field experiment. <i>Energy and Buildings</i> , 2014 , 80, 218-230	7	45
129	A carbon footprint and energy consumption assessment methodology for UHI-affected lighting systems in built areas. <i>Energy and Buildings</i> , 2016 , 114, 96-103	7	43
128	Optimization of torrefaction conditions of coffee industry residues using desirability function approach. <i>Waste Management</i> , 2018 , 73, 523-534	8.6	43
127	Development of Clay Tile Coatings for Steep-Sloped Cool Roofs. <i>Energies</i> , 2013 , 6, 3637-3653	3.1	42

126	On the Evaluation of Solar Greenhouse Efficiency in Building Simulation during the Heating Period. <i>Energies</i> , 2012 , 5, 1864-1880	3.1	42
125	Thermal-energy analysis of natural dolomite aggregates as passive cooling and global warming mitigation technique. <i>Urban Climate</i> , 2015 , 14, 301-314	6.8	41
124	Thermal stress reduction in cool roof membranes using phase change materials (PCM). <i>Energy and Buildings</i> , 2018 , 158, 1097-1105	7	41
123	Adaptive measures for mitigating urban heat islands: The potential of thermochromic materials to control roofing energy balance. <i>Applied Energy</i> , 2019 , 247, 155-170	10.7	40
122	Influence of human behavior on cool roof effect for summer cooling. <i>Building and Environment</i> , 2015 , 88, 116-128	6.5	40
121	Pyrolysis of pellets made with biomass and glycerol: Kinetic analysis and evolved gas analysis. <i>Biomass and Bioenergy</i> , 2017 , 97, 11-19	5.3	39
120	The Water Footprint of the Wine Industry: Implementation of an Assessment Methodology and Application to a Case Study. <i>Sustainability</i> , 2015 , 7, 12190-12208	3.6	39
119	An energy-balanced analytic model for urban heat canyons: comparison with experimental data. <i>Advances in Building Energy Research</i> , 2013 , 7, 222-234	1.8	39
118	Water and Carbon Footprint of Wine: Methodology Review and Application to a Case Study. <i>Sustainability</i> , 2016 , 8, 621	3.6	39
117	PCM for improving polyurethane-based cool roof membranes durability. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 160, 34-42	6.4	38
116	Environmental Impact of Industrial Prefabricated Buildings: Carbon and Energy Footprint Analysis Based on an LCA Approach. <i>Energy Procedia</i> , 2014 , 61, 2841-2844	2.3	38
115	How subjective and non-physical parameters affect occupants' environmental comfort perception. <i>Energy and Buildings</i> , 2018 , 178, 107-129	7	38
114	Carbon and energy footprint of the hydrate-based biogas upgrading process integrated with CO ₂ valorization. <i>Science of the Total Environment</i> , 2018 , 615, 404-411	10.2	37
113	Evaluation of Green Buildings' Overall Performance through in Situ Monitoring and Simulations. <i>Energies</i> , 2013 , 6, 6525-6547	3.1	34
112	How peers' personal attitudes affect indoor microclimate and energy need in an institutional building: Results from a continuous monitoring campaign in summer and winter conditions. <i>Energy and Buildings</i> , 2016 , 126, 485-497	7	34
111	Integrated Thermal-Energy Analysis of Innovative Translucent White Marble for Building Envelope Application. <i>Sustainability</i> , 2014 , 6, 5439-5462	3.6	33
110	Experimental thermo-acoustic characterization of innovative common reed bio-based panels for building envelope. <i>Building and Environment</i> , 2016 , 102, 217-229	6.5	33
109	One-pot lignin extraction and modification in Valerolactone from steam explosion pre-treated lignocellulosic biomass. <i>Journal of Cleaner Production</i> , 2017 , 151, 152-162	10.3	32

108	The hygrothermal performance of residential buildings at urban and rural sites: Sensible and latent energy loads and indoor environmental conditions. <i>Energy and Buildings</i> , 2017 , 152, 792-803	7	32
107	Synergistic effects in hydrogen production through water sonophotolysis catalyzed by new La ₂ xGa ₂ yIn ₂ (1-x-y)O ₃ solid solutions. <i>International Journal of Hydrogen Energy</i> , 2009 , 34, 9042-9049	6.7	32
106	Comparative Analysis of Monitoring Devices for Particulate Content in Exhaust Gases. <i>Sustainability</i> , 2014 , 6, 4287-4307	3.6	31
105	Development of Innovative Heating and Cooling Systems Using Renewable Energy Sources for Non-Residential Buildings. <i>Energies</i> , 2013 , 6, 5114-5129	3.1	31
104	Sustainable Ethanol Production from Common Reed (<i>Phragmites australis</i>) through Simultaneous Saccharification and Fermentation. <i>Sustainability</i> , 2015 , 7, 12149-12163	3.6	30
103	Experimental investigations on scaled-up methane hydrate production with surfactant promotion: Energy considerations. <i>Journal of Petroleum Science and Engineering</i> , 2014 , 120, 187-193	4.4	30
102	New cool concrete for building envelopes and urban paving: Optics-energy and thermal assessment in dynamic conditions. <i>Energy and Buildings</i> , 2017 , 151, 381-392	7	29
101	Carbon and Energy Footprints of Prefabricated Industrial Buildings: A Systematic Life Cycle Assessment Analysis. <i>Energies</i> , 2015 , 8, 12685-12701	3.1	28
100	Preliminary Optimization of Alkaline Pretreatment for Ethanol Production from Vineyard Pruning. <i>Energy Procedia</i> , 2015 , 82, 389-394	2.3	27
99	Sustainability Assessment of Historic Buildings: Lesson Learnt from an Italian case Study through LEED Rating System. <i>Energy Procedia</i> , 2014 , 61, 1029-1032	2.3	27
98	Innovative cool roofing membrane with integrated phase change materials: Experimental characterization of morphological, thermal and optic-energy behavior. <i>Energy and Buildings</i> , 2016 , 112, 40-48	7	26
97	On a Cool Coating for Roof Clay Tiles: Development of the Prototype and Thermal-energy Assessment. <i>Energy Procedia</i> , 2014 , 45, 453-462	2.3	26
96	The role of building occupants' education in their resilience to climate-change related events. <i>Energy and Buildings</i> , 2017 , 154, 217-231	7	26
95	The impact of natural ventilation on building energy requirement at inter-building scale. <i>Energy and Buildings</i> , 2016 , 127, 870-883	7	25
94	Response surface methodology for the optimization of cellulosic ethanol production from <i>Phragmites australis</i> through pre-saccharification and simultaneous saccharification and fermentation. <i>Industrial Crops and Products</i> , 2016 , 83, 431-437	5.9	25
93	Differentiating responses of weather files and local climate change to explain variations in building thermal-energy performance simulations. <i>Solar Energy</i> , 2017 , 153, 224-237	6.8	24
92	Comparison of ORC Turbine and Stirling Engine to Produce Electricity from Gasified Poultry Waste. <i>Sustainability</i> , 2014 , 6, 5714-5729	3.6	24
91	Optimization of roof solar reflectance under different climate conditions, occupancy, building configuration and energy systems. <i>Energy and Buildings</i> , 2017 , 151, 81-97	7	24

90	Thermal degradation of driftwood: Determination of the concentration of sodium, calcium, magnesium, chlorine and sulfur containing compounds. <i>Waste Management</i> , 2017 , 60, 151-157	8.6	24
89	Beneficial effects of retroreflective materials in urban canyons: results from seasonal monitoring campaign. <i>Journal of Physics: Conference Series</i> , 2015 , 655, 012012	0.3	24
88	The Impact of Local Microclimate Boundary Conditions on Building Energy Performance. <i>Sustainability</i> , 2015 , 7, 9207-9230	3.6	22
87	Energy Valorization of Poultry Manure in a Thermal Power Plant: Experimental Campaign. <i>Energy Procedia</i> , 2014 , 45, 315-322	2.3	22
86	A New Geometry High Performance Small Power MCFC. <i>Journal of Fuel Cell Science and Technology</i> , 2004 , 1, 25-29		22
85	Investigation on the effect of innovative cool tiles on local indoor thermal conditions: Finite element modeling and continuous monitoring. <i>Building and Environment</i> , 2016 , 97, 55-68	6.5	21
84	Cool roofs as a strategy to tackle global warming: economical and technical opportunities. <i>Advances in Building Energy Research</i> , 2013 , 7, 254-268	1.8	21
83	Evaluation and Optimization of an Innovative Low-Cost Photovoltaic Solar Concentrator. <i>International Journal of Photoenergy</i> , 2011 , 2011, 1-10	2.1	21
82	Thermal performance of coupled cool roof and cool façade: Experimental monitoring and analytical optimization procedure. <i>Energy and Buildings</i> , 2017 , 157, 35-52	7	20
81	Cool Roof Impact on Building Energy Need: The Role of Thermal Insulation with Varying Climate Conditions. <i>Energies</i> , 2019 , 12, 3354	3.1	20
80	Simulating the Thermal-Energy Performance of Buildings at the Urban Scale: Evaluation of Inter-Building Effects in Different Urban Configurations. <i>Journal of Urban Technology</i> , 2014 , 21, 3-20	5.9	20
79	Optimization of bio-oil production from solid digestate by microwave-assisted liquefaction. <i>Energy Conversion and Management</i> , 2018 , 171, 1263-1272	10.6	20
78	Multifunctional Analysis of Innovative PCM-filled Concretes. <i>Energy Procedia</i> , 2017 , 111, 81-90	2.3	19
77	Energy from poultry waste: An Aspen Plus-based approach to the thermo-chemical processes. <i>Waste Management</i> , 2018 , 73, 496-503	8.6	19
76	Cellulose Nanocrystals Obtained from <i>Cynara Cardunculus</i> and Their Application in the Paper Industry. <i>Sustainability</i> , 2014 , 6, 5252-5264	3.6	19
75	Microclimate and air quality investigation in historic hilly urban areas: Experimental and numerical investigation in central Italy. <i>Sustainable Cities and Society</i> , 2017 , 33, 27-44	10.1	18
74	Microclimate mitigation for enhancing energy and environmental performance of Near Zero Energy Settlements in Italy. <i>Sustainable Cities and Society</i> , 2020 , 53, 101964	10.1	18
73	An Integrated HBIM Simulation Approach for Energy Retrofit of Historical Buildings Implemented in a Case Study of a Medieval Fortress in Italy. <i>Energies</i> , 2020 , 13, 2601	3.1	17

72	Effect of double-step steam explosion pretreatment in bioethanol production from softwood. <i>Applied Biochemistry and Biotechnology</i> , 2014 , 174, 156-67	3.2	17
71	On Innovative Cool-Colored Materials for Building Envelopes: Balancing the Architectural Appearance and the Thermal-Energy Performance in Historical Districts. <i>Sustainability</i> , 2017 , 9, 2319	3.6	17
70	The Experience of International Sustainability Protocols for Retrofitting Historical Buildings in Italy. <i>Buildings</i> , 2017 , 7, 52	3.2	17
69	Outdoor Thermal and Visual Perception of Natural Cool Materials for Roof and Urban Paving. <i>Procedia Engineering</i> , 2015 , 118, 1325-1332		17
68	Cool Marble Building Envelopes: The Effect of Aging on Energy Performance and Aesthetics. <i>Sustainability</i> , 2016 , 8, 753	3.6	17
67	Pollutant emissions of a biomass gasifier inside a multifuel energy plant. <i>Atmospheric Pollution Research</i> , 2019 , 10, 2000-2009	4.5	16
66	Traditional and Innovative Materials for Energy Efficiency in Buildings. <i>Key Engineering Materials</i> , 2016 , 678, 14-34	0.4	16
65	Experimental Tests and Modeling on a Combined Heat and Power Biomass Plant. <i>Energies</i> , 2019 , 12, 2615	3.1	16
64	Yeast lipids from cardoon stalks, stranded driftwood and olive tree pruning residues as possible extra sources of oils for producing biofuels and biochemicals. <i>Biotechnology for Biofuels</i> , 2018 , 11, 147	7.8	15
63	Life Cycle Assessment of New Oxy-Fuels from Biodiesel-Derived Glycerol. <i>Energies</i> , 2015 , 8, 1628-1643	3.1	14
62	TIAR: Renewable Energy Production, Storage and Distribution; A New Multidisciplinary Approach for the Design of Rural Facility. <i>Energy Procedia</i> , 2014 , 45, 323-332	2.3	14
61	Lignocellulosic Biomass Feeding in Biogas Pathway: State of the Art and Plant Layouts. <i>Energy Procedia</i> , 2015 , 81, 1231-1237	2.3	14
60	Optimization of the steam explosion and enzymatic hydrolysis for sugars production from oak woods. <i>Bioresource Technology</i> , 2015 , 198, 470-7	11	13
59	Combined Thermal Effect of Cool Roof and Cool Façade on a Prototype Building. <i>Energy Procedia</i> , 2015 , 78, 1556-1561	2.3	13
58	Lignocellulosic Ethanol Production from the Recovery of Stranded Driftwood Residues. <i>Energies</i> , 2016 , 9, 634	3.1	12
57	A PCM Thermal Storage for Ground-source Heat Pumps: Simulating the System Performance via CFD Approach. <i>Energy Procedia</i> , 2016 , 101, 1079-1086	2.3	12
56	On an innovative approach for microclimate enhancement and retrofit of historic buildings and artworks preservation by means of innovative thin envelope materials. <i>Journal of Cultural Heritage</i> , 2019 , 36, 222-231	2.9	12
55	Thermo-acoustic performance of green roof substrates in dynamic hygrothermal conditions. <i>Energy and Buildings</i> , 2018 , 178, 140-153	7	12

54	Design and monitoring of an innovative geothermal system including an underground heat-storage tank. <i>International Journal of Green Energy</i> , 2016 , 13, 822-830	3	11
53	A Batch Digester Plant for Biogas Production and Energy Enhancement of Organic Residues from Collective Activities. <i>Energy Procedia</i> , 2014 , 61, 1669-1672	2.3	11
52	An Innovative Small Sized Anaerobic Digester Integrated in Historic Building. <i>Energy Procedia</i> , 2014 , 45, 333-341	2.3	11
51	Quantifying the effects of interior surface reflectance on indoor lighting. <i>Energy Procedia</i> , 2017 , 134, 306-316	2.3	10
50	Energy Refurbishment of Historical Buildings with Public Function: Pilot Case Study. <i>Energy Procedia</i> , 2014 , 61, 660-663	2.3	10
49	Production of Carbohydrates from Cardoon Pre-Treated by Acid-Catalyzed Steam Explosion and Enzymatic Hydrolysis. <i>Energies</i> , 2019 , 12, 4288	3.1	10
48	Optimization of bioethanol production from steam exploded hornbeam wood (<i>Ostrya carpinifolia</i>) by enzymatic hydrolysis. <i>Renewable Energy</i> , 2018 , 124, 136-143	8.1	9
47	Thermal comfort in the historical urban canyon: the effect of innovative materials. <i>Energy Procedia</i> , 2017 , 134, 151-160	2.3	9
46	Dynamic Thermal-energy Performance Analysis of a Prototype Building with Integrated Phase Change Materials. <i>Energy Procedia</i> , 2015 , 81, 82-88	2.3	8
45	Cool, Translucent Natural Envelope: Thermal-optics Characteristics Experimental Assessment and Thermal-energy and Day Lighting Analysis. <i>Energy Procedia</i> , 2017 , 111, 578-587	2.3	8
44	A Cost-Effective Human-Based Energy-Retrofitting Approach 2017 , 219-255		8
43	Network of buildings—Impact on indoor thermal performance. <i>Smart and Sustainable Built Environment</i> , 2012 , 1, 73-86	3	8
42	Innovative concretes for low-carbon constructions: a review. <i>International Journal of Low-Carbon Technologies</i> , 2016 ,	2.8	8
41	Investigating alternative development strategies for sport arenas based on active and passive systems. <i>Journal of Building Engineering</i> , 2020 , 31, 101340	5.2	8
40	2013 ,		7
39	National Water Footprint: Toward a Comprehensive Approach for the Evaluation of the Sustainability of Water Use in Italy. <i>Sustainability</i> , 2017 , 9, 1341	3.6	7
38	A Cylindrical Molten Carbonate Fuel Cell Supplied with Landfill Biogas. <i>Applied Mechanics and Materials</i> , 2013 , 392, 512-516	0.3	7
37	Energy Opportunities from Lignocellulosic Biomass for a Biorefinery Case Study. <i>Energies</i> , 2016 , 9, 748	3.1	7

36	Exploring the potential of photoluminescence for urban passive cooling and lighting applications: A new approach towards materials optimization. <i>Energy</i> , 2021 , 231, 120815	7.9	7
35	Facility Energy Management Application of HBIM for Historical Low-Carbon Communities: Design, Modelling and Operation Control of Geothermal Energy Retrofit in a Real Italian Case Study. <i>Energies</i> , 2020 , 13, 6338	3.1	6
34	Carbon Dioxide Removal with Tuff: Experimental Measurement of Adsorption Properties and Breakthrough Modeling Using CFD Approach. <i>Energy Procedia</i> , 2016 , 101, 392-399	2.3	6
33	Acid-catalyzed steam explosion for high enzymatic saccharification and low inhibitor release from lignocellulosic cardoon stalks. <i>Biochemical Engineering Journal</i> , 2021 , 174, 108121	4.2	6
32	Investigation of the impact of subjective and physical parameters on the indoor comfort of occupants: a case study in central Italy. <i>Energy Procedia</i> , 2017 , 126, 131-138	2.3	5
31	Experimental and Numerical Study on Thermal Performance of New Cool Clay Tiles in Residential Buildings in Europe. <i>Energy Procedia</i> , 2015 , 75, 1393-1398	2.3	5
30	Thermal-energy and Environmental Impact of Cool Clay Tiles for Residential Buildings in Italy. <i>Procedia Engineering</i> , 2015 , 118, 530-537		5
29	Energy and Environmental Performance Analysis of Biomass-fuelled Combined Cooling and Heating System for Commercial Building Retrofit: An Italian Case Study. <i>Energy Procedia</i> , 2016 , 101, 376-383	2.3	5
28	Coupling artworks preservation constraints with visitors' environmental satisfaction: Results from an indoor microclimate assessment procedure in a historical museum building in central Italy. <i>Indoor and Built Environment</i> , 2018 , 27, 846-869	1.8	4
27	Sustainable New Brick and Thermo-Acoustic Insulation Panel from Mineralization of Stranded Driftwood Residues. <i>Energies</i> , 2016 , 9, 619	3.1	4
26	An improved room acoustic model. <i>Applied Acoustics</i> , 2000 , 61, 1-25	3.1	3
25	Environmental assessment of four waste cooking oil valorization pathways.. <i>Waste Management</i> , 2022 , 138, 219-233	8.6	3
24	Experimental Analysis and Process Modeling of Carbon Dioxide Removal Using Tuff. <i>Sustainability</i> , 2016 , 8, 1258	3.6	3
23	Energy Enhancement of the Residues from the Cardoon Seeds Milling: Preliminary Experimentation in a Small Size Biogas Plant. <i>Energy Procedia</i> , 2016 , 101, 440-447	2.3	3
22	An innovative way for the delignification of Phragmites australis residues by steam explosion and Valerolactone microwave assisted extraction. <i>Environmental Progress and Sustainable Energy</i> , 2017 , 36, 736-741	2.5	2
21	Investigating the Dynamic Thermal Behavior of Building Envelope in Summer Conditions By Means of in-Field Continuous Monitoring. <i>American Journal of Engineering and Applied Sciences</i> , 2016 , 9, 505-519	6.4	2
20	Smart cool mortar for passive cooling of historical and existing buildings: experimental analysis and dynamic simulation. <i>Energy Procedia</i> , 2017 , 134, 536-544	2.3	2
19	Electric Vehicles for Postal Service Equipped with a Kinetic Energy Recovery System. <i>International Journal of Green Energy</i> , 2015 , 12, 485-492	3	2

18	High-reflective Mulching Membrane for a Sustainable Development: Monitoring Campaign. <i>E3S Web of Conferences</i> , 2020 , 197, 08012	0.5	2
17	Refugee camps as an opportunity for promoting alternative development strategies based on carbon credits. <i>Energy Procedia</i> , 2018 , 148, 281-288	2.3	2
16	Numerical Modeling of Atmospheric Water Content and Probability Evaluation. Part II. <i>Procedia Engineering</i> , 2014 , 70, 330-338		1
15	An Innovative Tool for Technical, Environmental and Economic Design of Building Energy Plants: A Case Study in Umbria. <i>Energy Procedia</i> , 2015 , 82, 652-658	2.3	1
14	Multifunctional Environmental Energy Tower: A Case Study of an Innovative System for Renewable Energy Exploitation. <i>Energy Procedia</i> , 2015 , 81, 1222-1230	2.3	1
13	Energetic Analysis of Solar-Supplied Processes for Methane, Biogas and Wood Chip Production. <i>Advanced Materials Research</i> , 2013 , 772, 720-724	0.5	1
12	Experimental determination of the thermophysical properties of Water-Xylitol mixtures. <i>Experimental Thermal and Fluid Science</i> , 1993 , 7, 80-86	3	1
11	Sustainable Exploitation of Residual <i>Cynara cardunculus</i> L. to Levulinic Acid and n-Butyl Levulinate. <i>Catalysts</i> , 2021 , 11, 1082	4	1
10	Life Cycle Assessment and Energy Balance of a Polygeneration Plant Fed with Lignocellulosic Biomass of <i>Cynara cardunculus</i> L.. <i>Energies</i> , 2022 , 15, 2397	3.1	1
9	A Prototype Plant for Oilseed Extraction: Analysis of Mass and Energy Flows. <i>Sustainability</i> , 2020 , 12, 9786	3.6	0
8	Numerical Modeling of Atmospheric Water Content and Probability Evaluation. Part I. <i>Procedia Engineering</i> , 2014 , 70, 321-329		0
7	A Comparative Study on Opto-Thermal Properties of Natural Clay Bricks Incorporating Dredged Sediments. <i>Energies</i> , 2021 , 14, 4575	3.1	0
6	Influences of high-reflective mulching membrane coupled with a drip sub-irrigation system on temperature and humidity of the soil. <i>E3S Web of Conferences</i> , 2021 , 312, 12006	0.5	
5	Existing Buildings Energy Upgrade: An Economical and Environmentally Sustainable Opportunity. <i>CSR, Sustainability, Ethics & Governance</i> , 2013 , 265-280	0.2	
4	Energy Balance of Cardoon (<i>Cynara cardunculus</i> L.) Cultivation and Pyrolysis 2016 , 243-258		
3	Influences of a Highly Reflective Mulching Membrane on Heat Propagation throughout the Soil. <i>Sustainability</i> , 2021 , 13, 9737	3.6	
2	Biomass-based systems 2022 , 137-192		
1	The ecological momentary assessment approach and the use of big data to analyse possible effects of urbanisation on mental health. <i>European Psychiatry</i> , 2021 , 64, S10-S11	6	

