

Raffaele Cavalli

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

889
citations

516215

16
h-index

580395

25
g-index

64
all docs

64
docs citations

64
times ranked

1017
citing authors

#	ARTICLE	IF	CITATIONS
1	Adoption of renewable heating systems: An empirical test of the diffusion of innovation theory. <i>Energy</i> , 2017, 125, 313-326.	4.5	73
2	Life cycle environmental impact of firewood production – A case study in Italy. <i>Applied Energy</i> , 2015, 150, 185-195.	5.1	52
3	Influence of characteristics and extension of a forest road network on the supply cost of forest woodchips. <i>Journal of Forest Research</i> , 2010, 15, 202-209.	0.7	49
4	Energy recovery of glued wood waste – A review. <i>Fuel</i> , 2020, 262, 116520.	3.4	43
5	Colorimetric patterns of wood pellets and their relations with quality and energy parameters. <i>Fuel</i> , 2014, 137, 70-76.	3.4	35
6	Preliminary analysis on mowing and harvesting grass along riverbanks for the supply of anaerobic digestion plants in north-eastern Italy. <i>Journal of Agricultural Engineering</i> , 2015, 46, 100.	0.7	28
7	Massive wood material for sustainable building design: the Massivholz-Mauer wall system. <i>Journal of Wood Science</i> , 2016, 62, 416-428.	0.9	27
8	Comparative Life Cycle Assessment of Bioenergy Production from Different Wood Pellet Supply Chains. <i>Forests</i> , 2020, 11, 1127.	0.9	26
9	Sustainability of using vineyard pruning residues as an energy source: Combustion performances and environmental impact. <i>Fuel</i> , 2019, 243, 371-380.	3.4	24
10	Comparison of biomass feedstock supply and demand in Northeast Italy. <i>Biomass and Bioenergy</i> , 2011, 35, 3309-3317.	2.9	23
11	New insights into the psychological dimension of wood-human interaction. <i>European Journal of Wood and Wood Products</i> , 2018, 76, 1093-1100.	1.3	23
12	Vineyard pruning residues pellets for use in domestic appliances: a quality assessment according to the EN ISO 17225. <i>Journal of Agricultural Engineering</i> , 2017, 48, 99.	0.7	22
13	Effectiveness of Therapeutic Gardens for People with Dementia: A Systematic Review. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 9595.	1.2	20
14	Temporal analysis of the traffic loads on forest road networks. <i>IForest</i> , 2013, 6, 255-261.	0.5	19
15	Determination of forest road surface roughness by Kinect depth imaging. <i>Annals of Forest Research</i> , 2014, .	0.6	18
16	Effect of tannin on increasing UF adhesive performance at high temperature investigated by TMA and TGA analysis. <i>European Journal of Wood and Wood Products</i> , 2014, 72, 385-392.	1.3	17
17	Steep terrain forest operations – challenges, technology development, current implementation, and future opportunities. <i>International Journal of Forest Engineering</i> , 2019, 30, 175-181.	0.4	17
18	Productivity and energy balance of forest plantation harvesting in Uganda. <i>Forestry Studies in China</i> , 2012, 14, 276-282.	0.4	16

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19	A multivariate SIMCA index as discriminant in wood pellet quality assessment. <i>Renewable Energy</i> , 2015, 76, 258-263.	4.3	16
20	Harvesting systems for steep terrain in the Italian Alps: state of the art and future prospects. <i>Contemporary Engineering Sciences</i> , 0, 9, 1229-1242.	0.2	16
21	Cable yarding productivity models: a systematic review over the period 2000â€“2011. <i>International Journal of Forest Engineering</i> , 0, , 1-16.	0.4	16
22	Safety assessment of trees used as anchors in cable-supported tree harvesting based on experimental observations. <i>Biosystems Engineering</i> , 2019, 186, 71-82.	1.9	16
23	Forwarder Productivity in Salvage Logging Operations in Difficult Terrain. <i>Forests</i> , 2020, 11, 341.	0.9	16
24	Analysis on vehicle and walking speeds of search and rescue ground crews in mountainous areas. <i>Journal of Outdoor Recreation and Tourism</i> , 2014, 5-6, 48-57.	1.3	15
25	Retrospective Study on Search and Rescue Operations in Two Prealps Areas of Italy. <i>Wilderness and Environmental Medicine</i> , 2015, 26, 150-158.	0.4	12
26	Comparative life cycle assessment and life cycle costing of lodging in the Himalaya. <i>International Journal of Life Cycle Assessment</i> , 2017, 22, 1851-1863.	2.2	12
27	How Wood Fuelsâ€™ Quality Relates to the Standards: A Class-Modelling Approach. <i>Energies</i> , 2017, 10, 1455.	1.6	12
28	State of the Art on the Use of Trees as Supports and Anchors in Forest Operations. <i>Forests</i> , 2018, 9, 467.	0.9	12
29	Skyline tensile force monitoring of mobile tower yarders operating in the Italian Alps. <i>European Journal of Forest Research</i> , 2019, 138, 847-862.	1.1	12
30	Evaluation of the manufacturing of desk and stringer boards for wood pallets production by discrete event simulation. <i>Biosystems Engineering</i> , 2011, 109, 288-296.	1.9	11
31	Exploring the Spatial Heterogeneity of Individual Preferences for Ambient Heating Systems. <i>Energies</i> , 2016, 9, 407.	1.6	11
32	Quality assessment of pellets and briquettes made from glued wood waste. <i>European Journal of Wood and Wood Products</i> , 2021, 79, 1153.	1.3	11
33	The Global Warming Potential of Building Materials: An Application of Life Cycle Analysis in Nepal. <i>Mountain Research and Development</i> , 2017, 37, 47.	0.4	10
34	Light-lift helicopter logging operations in the Italian Alps: a preliminary study based on GNSS and a video camera system. <i>Forest Science and Technology</i> , 2016, 12, 88-97.	0.3	9
35	Sustainability performance of hotel buildings in the Himalayan region. <i>Journal of Cleaner Production</i> , 2020, 250, 119538.	4.6	9
36	Effective energy exploitation from horse manure combustion. <i>Waste Management</i> , 2021, 128, 243-250.	3.7	9

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37	On-board computing in forest machinery as a tool to improve skidding operations in South African softwood sawtimber operations. <i>Southern Forests</i> , 2013, 75, 89-96.	0.2	8
38	Critical Factors in Cantilever Near-Field Scanning Optical Microscopy. <i>IEEE Sensors Journal</i> , 2014, 14, 3236-3244.	2.4	8
39	Buffer Strips on the Low-lying Plain of Veneto Region (Italy): Environmental Benefits and Efficient Use of Wood as an Energy Resource. <i>Journal of Environmental Quality</i> , 2019, 48, 280-288.	1.0	8
40	The effect of soil compaction on mole plough draught. <i>Soil and Tillage Research</i> , 1994, 32, 303-311.	2.6	7
41	Energetic and exergetic analysis of steam production for the extraction of coniferous essential oils. <i>Biomass and Bioenergy</i> , 2011, 35, 4045-4056.	2.9	6
42	Productivity and quality performance of an innovative firewood processor. <i>Journal of Agricultural Engineering</i> , 2014, 45, 32.	0.7	6
43	Hybrid silane-crosslinking polymers: a potential alternative to polyurethane wood adhesives? A preliminary investigation by TMA. <i>European Journal of Wood and Wood Products</i> , 2016, 74, 127-130.	1.3	6
44	Tractor cabin ergonomics analyses by means of kinect motion capture technology. <i>Contemporary Engineering Sciences</i> , 0, 8, 1339-1349.	0.2	6
45	Elastic-properties measurement at high temperatures through contact resonance atomic force microscopy. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	4
46	Modelling Noise Propagation Generated by Forest Operations: A Case Study in Southern Italy. <i>Procedia, Social and Behavioral Sciences</i> , 2016, 223, 841-848.	0.5	4
47	GEOGRAPHICAL ANALYSIS WITH GIS METHODOLOGY FOR A SUSTAINABLE USE OF LOGGING RESIDUES IN MOUNTAINOUS AREA. <i>Journal of Agricultural Engineering</i> , 2007, 38, 29.	0.7	3
48	DETERMINATION OF THE FOREST ROAD NETWORK INFLUENCE ON THE SUPPLY CHAIN FOR FIREWOOD PRODUCTION BY DISCRETE EVENT SIMULATION. <i>Journal of Agricultural Engineering</i> , 2011, 42, 41.	0.7	3
49	Assessment of noise level and noise propagation generated by light-lift helicopters in mountain natural environments. <i>Environmental Monitoring and Assessment</i> , 2018, 190, 88.	1.3	3
50	Changes of particle size classification of wood chips according to the new standard rules for domestic use. <i>European Journal of Wood and Wood Products</i> , 2018, 76, 805-807.	1.3	3
51	Mechanical response of natural anchors in cable logging. <i>International Journal of Forest Engineering</i> , 2021, 32, 29-42.	0.4	3
52	Skyline Tensile Forces in Cable Logging. <i>Croatian Journal of Forest Engineering</i> , 2021, 42, 227-243.	1.0	3
53	A strategy for the management of abandoned mountain pasture land colonised by dwarf pine. <i>L Italia Forestale E Montana</i> , 2011, , 383-393.	0.0	3
54	Assessment of cable tensile forces in active winch-assist harvesting using an anchor machine configuration. <i>European Journal of Forest Research</i> , 2021, 140, 745-759.	1.1	2

#	ARTICLE	IF	CITATIONS
55	The evolution of a mountain road network from its original use during the First World War to meeting today's forestry needs: current management. <i>Journal of Agricultural Engineering</i> , 2012, 43, 19.	0.7	1
56	Evaluation of Wood Chipping Efficiency through Long-Term Monitoring. <i>Environmental Sciences Proceedings</i> , 2020, 3, .	0.3	1
57	Evaluation on the Stability of Tree Used as Anchors in Cable Yarding Operations: A Preliminary Test Based on Low-Cost MEMS Sensors. <i>Lecture Notes in Civil Engineering</i> , 2020, , 473-479.	0.3	1
58	Forage Conditioning Under Alpine Environmental Conditions. <i>Biosystems Engineering</i> , 1995, 61, 107-114.	0.4	0
59	Introduction for IJFE special issue "€œproductivity and safety of final cutting on mountain forests"€œ. <i>International Journal of Forest Engineering</i> , 2019, 30, 174-174.	0.4	0
60	Cable Tensile Forces Associated to Winch Design in Tethered Harvesting Operations: A Case Study from the Pacific North West. <i>Forests</i> , 2021, 12, 827.	0.9	0