

Emanuele Quaranta

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.

34
papers

472
citations

12
h-index

21
g-index

43
ext. papers

668
ext. citations

4.7
avg, IF

4.94
L-index

#	Paper	IF	Citations
34	Analysis of emerging technologies in the hydropower sector. <i>Renewable and Sustainable Energy Reviews</i> , 2019 , 113, 109257	16.2	94
33	Gravity water wheels as a micro hydropower energy source: A review based on historic data, design methods, efficiencies and modern optimizations. <i>Renewable and Sustainable Energy Reviews</i> , 2018 , 97, 414-427	16.2	51
32	Stream water wheels as renewable energy supply in flowing water: Theoretical considerations, performance assessment and design recommendations. <i>Energy for Sustainable Development</i> , 2018 , 45, 96-109	5.4	34
31	Performance characteristics, power losses and mechanical power estimation for a breastshot water wheel. <i>Energy</i> , 2015 , 87, 315-325	7.9	33
30	Output power and power losses estimation for an overshoot water wheel. <i>Renewable Energy</i> , 2015 , 83, 979-987	8.1	30
29	Turbulent flow field comparison and related suitability for fish passage of a standard and a simplified low-gradient vertical slot fishway. <i>River Research and Applications</i> , 2017 , 33, 1295-1305	2.3	29
28	Optimization of breastshot water wheels performance using different inflow configurations. <i>Renewable Energy</i> , 2016 , 97, 243-251	8.1	23
27	Hydropower Case Study Collection: Innovative Low Head and Ecologically Improved Turbines, Hydropower in Existing Infrastructures, Hydropeaking Reduction, Digitalization and Governing Systems. <i>Sustainability</i> , 2020 , 12, 8873	3.6	21
26	Sagebien and Zuppinger water wheels for very low head hydropower applications. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2018 , 56, 526-536	1.9	21
25	CFD simulations to optimize the blade design of water wheels. <i>Drinking Water Engineering and Science</i> , 2017 , 10, 27-32	2	18
24	Assessing the energy potential of modernizing the European hydropower fleet. <i>Energy Conversion and Management</i> , 2021 , 246, 114655	10.6	17
23	Hydraulic Behavior and Performance of Breastshot Water Wheels for Different Numbers of Blades. <i>Journal of Hydraulic Engineering</i> , 2017 , 143, 04016072	1.8	14
22	Optimal Rotational Speed of Kaplan and Francis Turbines with Focus on Low-Head Hydropower Applications and Dataset Collection. <i>Journal of Hydraulic Engineering</i> , 2019 , 145, 04019043	1.8	10
21	Experimental and dimensional analysis of a breastshot water wheel. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2016 , 54, 473-479	1.9	9
20	Water, energy and climate benefits of urban greening throughout Europe under different climatic scenarios. <i>Scientific Reports</i> , 2021 , 11, 12163	4.9	8
19	Hydropower and seasonal pumped hydropower storage in the Indus basin: pros and cons. <i>Journal of Energy Storage</i> , 2021 , 41, 102916	7.8	7
18	Optimization of undershot water wheels in very low and variable flow rate applications. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2020 , 58, 845-849	1.9	6

17	Emerging and Innovative Materials for Hydropower Engineering Applications: Turbines, Bearings, Sealing, Dams and Waterways, and Ocean Power. <i>Engineering</i> , 2021 ,	9.7	6
16	Effects of bed slope on the flow field of vertical slot fishways. <i>River Research and Applications</i> , 2019 , 35, 656	2.3	5
15	Sustainability assessment of hydropower water wheels with downstream migrating fish and blade strike modelling. <i>Sustainable Energy Technologies and Assessments</i> , 2021 , 43, 100943	4.7	5
14	Performance Optimization of Overshot Water Wheels at High Rotational Speeds for Hydropower Applications. <i>Journal of Hydraulic Engineering</i> , 2020 , 146, 06020011	1.8	4
13	Environmentally Enhanced Turbines for Hydropower Plants: Current Technology and Future Perspective. <i>Frontiers in Energy Research</i> , 2021 , 9,	3.8	3
12	Experimental Analysis of Effect of Canal Geometry and Water Levels on Rotary Hydrostatic Pressure Machine. <i>Journal of Hydraulic Engineering</i> , 2020 , 146, 04019071	1.8	3
11	Meta-models for rapid appraisal of the benefits of urban greening in the European context. <i>Journal of Hydrology: Regional Studies</i> , 2021 , 34, 100772	3.6	3
10	The repowering of vertical axis water mills preserving their cultural heritage: techno-economic analysis with water wheels and Turgo turbines. <i>Journal of Cultural Heritage Management and Sustainable Development</i> , 2021 , ahead-of-print,	1.3	3
9	Is There a Residual and Hidden Potential for Small and Micro Hydropower in Europe? A Screening-Level Regional Assessment. <i>Water Resources Management</i> , 1	3.7	3
8	Estimation of the permanent weight load of water wheels for civil engineering and hydropower applications and dataset collection. <i>Sustainable Energy Technologies and Assessments</i> , 2020 , 40, 100776	4.7	2
7	The state-of-art of design and research for Pelton turbine casing, weight estimation, counterpressure operation and scientific challenges.. <i>Heliyon</i> , 2021 , 7, e08527	3.6	2
6	The Revival of Old Hydraulic Turbines for Innovative Hydropower Generation: Water Wheels, Archimedes Screws, Deriaz and Girard Turbines 2020 , 5,		2
5	The Very Low Head Turbine for hydropower generation in existing hydraulic infrastructures: State of the art and future challenges. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 51, 101924	4.7	1
4	Noise Generation and Acoustic Impact of Free Surface Hydropower Machines: Focus on Water Wheels and Emerging Challenges.. <i>International Journal of Environmental Research and Public Health</i> , 2021 , 18,	4.6	1
3	A hydrological model to estimate pollution from combined sewer overflows at the regional scale: Application to Europe. <i>Journal of Hydrology: Regional Studies</i> , 2022 , 41, 101080	3.6	1
2	Optimal design process of crossflow Banki turbines: Literature review and novel expeditious equations. <i>Ocean Engineering</i> , 2022 , 257, 111582	3.9	0
1	Reinventing the wheel The preservation and potential of traditional water wheels in the terraced irrigated landscapes of the Ricote Valley, southeast Spain. <i>Agricultural Water Management</i> , 2022 , 259, 107240	5.9	