

# Emanuele Quaranta

## List of Publications by Year in Descending Order

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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 | 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> , <b>2022</b> , 51, 101924                                      | 4.7  | 1         |
| 33 | 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> , <b>2022</b> , 259, 107240                           | 5.9  |           |
| 32 | A hydrological model to estimate pollution from combined sewer overflows at the regional scale: Application to Europe. <i>Journal of Hydrology: Regional Studies</i> , <b>2022</b> , 41, 101080   | 3.6  | 1         |
| 31 | Optimal design process of crossflow Banki turbines: Literature review and novel expeditious equations. <i>Ocean Engineering</i> , <b>2022</b> , 257, 111582   | 3.9  | 0         |
| 30 | The state-of-art of design and research for Pelton turbine casing, weight estimation, counterpressure operation and scientific challenges.. <i>Heliyon</i> , <b>2021</b> , 7, e08527  | 3.6  | 2         |
| 29 | Environmentally Enhanced Turbines for Hydropower Plants: Current Technology and Future Perspective. <i>Frontiers in Energy Research</i> , <b>2021</b> , 9,  | 3.8  | 3         |
| 28 | Meta-models for rapid appraisal of the benefits of urban greening in the European context. <i>Journal of Hydrology: Regional Studies</i> , <b>2021</b> , 34, 100772   | 3.6  | 3         |
| 27 | Water, energy and climate benefits of urban greening throughout Europe under different climatic scenarios. <i>Scientific Reports</i> , <b>2021</b> , 11, 12163  | 4.9  | 8         |
| 26 | Sustainability assessment of hydropower water wheels with downstream migrating fish and blade strike modelling. <i>Sustainable Energy Technologies and Assessments</i> , <b>2021</b> , 43, 100943   | 4.7  | 5         |
| 25 | 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> , <b>2021</b> , ahead-of-print, | 1.3  | 3         |
| 24 | Emerging and Innovative Materials for Hydropower Engineering Applications: Turbines, Bearings, Sealing, Dams and Waterways, and Ocean Power. <i>Engineering</i> , <b>2021</b> ,   | 9.7  | 6         |
| 23 | Hydropower and seasonal pumped hydropower storage in the Indus basin:pros and cons. <i>Journal of Energy Storage</i> , <b>2021</b> , 41, 102916   | 7.8  | 7         |
| 22 | Assessing the energy potential of modernizing the European hydropower fleet. <i>Energy Conversion and Management</i> , <b>2021</b> , 246, 114655  | 10.6 | 17        |
| 21 | 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> , <b>2021</b> , 18,                                    | 4.6  | 1         |
| 20 | Hydropower Case Study Collection: Innovative Low Head and Ecologically Improved Turbines, Hydropower in Existing Infrastructures, Hydropeaking Reduction, Digitalization and Governing Systems. <i>Sustainability</i> , <b>2020</b> , 12, 8873            | 3.6  | 21        |
| 19 | Performance Optimization of Overshot Water Wheels at High Rotational Speeds for Hydropower Applications. <i>Journal of Hydraulic Engineering</i> , <b>2020</b> , 146, 06020011  | 1.8  | 4         |
| 18 | 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> , <b>2020</b> , 40, 100776                                       | 4.7  | 2         |

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|----|---|------|----|
| 17 | The Revival of Old Hydraulic Turbines for Innovative Hydropower Generation: Water Wheels, Archimedes Screws, Deriaz and Girard Turbines <b>2020</b> , 5,  |      | 2  |
| 16 | Optimization of undershot water wheels in very low and variable flow rate applications. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2020</b> , 58, 845-849   | 1.9  | 6  |
| 15 | Experimental Analysis of Effect of Canal Geometry and Water Levels on Rotary Hydrostatic Pressure Machine. <i>Journal of Hydraulic Engineering</i> , <b>2020</b> , 146, 04019071  | 1.8  | 3  |
| 14 | Effects of bed slope on the flow field of vertical slot fishways. <i>River Research and Applications</i> , <b>2019</b> , 35, 656  | 2.3  | 5  |
| 13 | Analysis of emerging technologies in the hydropower sector. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 113, 109257   | 16.2 | 94 |
| 12 | Optimal Rotational Speed of Kaplan and Francis Turbines with Focus on Low-Head Hydropower Applications and Dataset Collection. <i>Journal of Hydraulic Engineering</i> , <b>2019</b> , 145, 04019043                          | 1.8  | 10 |
| 11 | Stream water wheels as renewable energy supply in flowing water: Theoretical considerations, performance assessment and design recommendations. <i>Energy for Sustainable Development</i> , <b>2018</b> , 45, 96-109          | 5.4  | 34 |
| 10 | Sagebien and Zuppinger water wheels for very low head hydropower applications. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2018</b> , 56, 526-536  | 1.9  | 21 |
| 9  | 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> , <b>2018</b> , 97, 414-427 | 16.2 | 51 |
| 8  | 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> , <b>2017</b> , 33, 1295-1305              | 2.3  | 29 |
| 7  | Hydraulic Behavior and Performance of Breastshot Water Wheels for Different Numbers of Blades. <i>Journal of Hydraulic Engineering</i> , <b>2017</b> , 143, 04016072  | 1.8  | 14 |
| 6  | CFD simulations to optimize the blade design of water wheels. <i>Drinking Water Engineering and Science</i> , <b>2017</b> , 10, 27-32   | 2    | 18 |
| 5  | Optimization of breastshot water wheels performance using different inflow configurations. <i>Renewable Energy</i> , <b>2016</b> , 97, 243-251  | 8.1  | 23 |
| 4  | Experimental and dimensional analysis of a breastshot water wheel. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , <b>2016</b> , 54, 473-479  | 1.9  | 9  |
| 3  | Performance characteristics, power losses and mechanical power estimation for a breastshot water wheel. <i>Energy</i> , <b>2015</b> , 87, 315-325   | 7.9  | 33 |
| 2  | Output power and power losses estimation for an overshoot water wheel. <i>Renewable Energy</i> , <b>2015</b> , 83, 979-987  | 8.1  | 30 |
| 1  | 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  |