

# George Aggidis

## 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.

64  
papers

1,191  
citations

19  
h-index

32  
g-index

70  
ext. papers

1,482  
ext. citations

6  
avg, IF

5.18  
L-index

| #  | Paper  | IF   | Citations |
|----|--|------|-----------|
| 64 | The costs of small-scale hydro power production: Impact on the development of existing potential. <i>Renewable Energy</i> , <b>2010</b> , 35, 2632-2638  | 8.1  | 107       |
| 63 | Analysis of emerging technologies in the hydropower sector. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 113, 109257  | 16.2 | 94        |
| 62 | Tidal range energy resource and optimization [Past perspectives and future challenges. <i>Renewable Energy</i> , <b>2018</b> , 127, 763-778  | 8.1  | 88        |
| 61 | Tidal range technologies and state of the art in review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 59, 514-529   | 16.2 | 64        |
| 60 | Development of multi-oscillating water columns as wave energy converters. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 107, 75-86   | 16.2 | 53        |
| 59 | Developments in the design of the PS Frog Mk 5 wave energy converter. <i>Renewable Energy</i> , <b>2006</b> , 31, 141-151  | 8.1  | 47        |
| 58 | Optimizing the shape of a surge-and-pitch wave energy collector using a genetic algorithm. <i>Renewable Energy</i> , <b>2010</b> , 35, 2767-2775   | 8.1  | 46        |
| 57 | State of the art in numerical modelling of Pelton turbines. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 45, 135-144  | 16.2 | 41        |
| 56 | Over 2000 years in review: Revival of the Archimedes Screw from Pump to Turbine. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 51, 497-505   | 16.2 | 37        |
| 55 | Investigating pipeline and state of the art blood glucose biosensors to formulate next steps. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 74, 243-62  | 11.8 | 37        |
| 54 | A World First: Swansea Bay Tidal lagoon in review. <i>Renewable and Sustainable Energy Reviews</i> , <b>2016</b> , 56, 916-921   | 16.2 | 33        |
| 53 | Hydro turbine prototype testing and generation of performance curves: Fully automated approach. <i>Renewable Energy</i> , <b>2014</b> , 71, 433-441  | 8.1  | 33        |
| 52 | Tidal range turbines and generation on the Solway Firth. <i>Renewable Energy</i> , <b>2012</b> , 43, 9-17  | 8.1  | 32        |
| 51 | Time series analysis-based adaptive tuning techniques for a heaving wave energy converter in irregular seas. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , <b>2007</b> , 221, 77-90 | 1.6  | 31        |
| 50 | Operational optimisation of a tidal barrage across the Mersey estuary using 0-D modelling. <i>Ocean Engineering</i> , <b>2013</b> , 66, 69-81  | 3.9  | 29        |
| 49 | Experimental analysis of cavitation in a centrifugal pump using acoustic emission, vibration measurements and flow visualization. <i>European Journal of Mechanics, B/Fluids</i> , <b>2019</b> , 75, 300-311                               | 2.4  | 25        |
| 48 | Swansea Bay tidal lagoon annual energy estimation. <i>Ocean Engineering</i> , <b>2016</b> , 111, 348-357   | 3.9  | 23        |

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|----|--|------|----|
| 47 | A novel surface-cluster approach towards transient modeling of hydro-turbine governing systems in the start-up process. <i>Energy Conversion and Management</i> , <b>2018</b> , 165, 861-868   | 10.6 | 21 |
| 46 | Numerical and experimental analysis of the power output of a point absorber wave energy converter in irregular waves. <i>Ocean Engineering</i> , <b>2016</b> , 111, 483-492  | 3.9  | 21 |
| 45 | Parametric optimisation of two Pelton turbine runner designs using CFD. <i>Journal of Hydrodynamics</i> , <b>2015</b> , 27, 403-412  | 3.3  | 19 |
| 44 | Wave tank experiments on the power capture of a multi-axis wave energy converter. <i>Journal of Marine Science and Technology</i> , <b>2015</b> , 20, 520-529  | 1.7  | 19 |
| 43 | Regenerative liquid ring pumps review and advances on design and performance. <i>Applied Energy</i> , <b>2016</b> , 164, 815-825   | 10.7 | 19 |
| 42 | Pelton turbine: Identifying the optimum number of buckets using CFD. <i>Journal of Hydrodynamics</i> , <b>2016</b> , 28, 75-83   | 3.3  | 17 |
| 41 | Assessing the energy potential of modernizing the European hydropower fleet. <i>Energy Conversion and Management</i> , <b>2021</b> , 246, 114655   | 10.6 | 17 |
| 40 | Numerical Investigation of the Spear Valve Configuration on the Performance of Pelton and Turgo Turbine Injectors and Runners. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2015</b> , 137,                     | 2.1  | 16 |
| 39 | Optimum mean power output of a point-absorber wave energy converter in irregular waves. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , <b>2009</b> , 223, 773-781                | 1.6  | 16 |
| 38 | Development of hydro impulse turbines and new opportunities. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 51, 1624-1635   | 16.2 | 15 |
| 37 | A comparative approach to the economic modelling of a large-scale wave power scheme. <i>European Journal of Operational Research</i> , <b>2008</b> , 185, 884-898  | 5.6  | 15 |
| 36 | Development of the Turgo Impulse turbine: Past and present. <i>Applied Energy</i> , <b>2016</b> , 166, 1-18  | 10.7 | 13 |
| 35 | Overview of wave energy converter devices and the development of a new multi-axis laboratory prototype. <i>IFAC-PapersOnLine</i> , <b>2017</b> , 50, 15651-15656   | 0.7  | 12 |
| 34 | Nature rules hidden in the biomimetic wave energy converters. <i>Renewable and Sustainable Energy Reviews</i> , <b>2018</b> , 97, 28-37  | 16.2 | 10 |
| 33 | Experimental results from wave tank trials of a multi-axis wave energy converter. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 103901   | 3.4  | 10 |
| 32 | A Joint Numerical and Experimental Study of a Surging Point Absorbing Wave Energy Converter (WRASPA) <b>2009</b> ,   |      | 10 |
| 31 | Calculation of the performance of resonant wave energy converters in real seas. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , <b>2006</b> , 220, 117-128 | 0.4  | 9  |
| 30 | A time-varying parameter model of a body oscillating in pitch. <i>Applied Ocean Research</i> , <b>2006</b> , 28, 359-370   | 3.4  | 9  |

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|----|---|-----|---|
| 29 | Experimental investigation and performance comparison of a 1 single OWC, array and M-OWC. <i>Renewable Energy</i> , <b>2021</b> , 168, 365-374  | 8.1 | 9 |
| 28 | Effects of Wood Ash-Based Alkaline Treatment on Nitrogen, Carbon, and Phosphorus Availability in Food Waste and Agro-Industrial Waste Digestates. <i>Waste and Biomass Valorization</i> , <b>2021</b> , 12, 3355-3370 <sup>3,2</sup>              |     | 9 |
| 27 | Numerical and experimental study of a point absorbing wave energy converter in regular waves <b>2009</b> ,  |     | 8 |
| 26 | Developments, expectations of wave energy converters and mooring anchors in the UK. <i>Journal of Ocean University of China</i> , <b>2008</b> , 7, 10-16  | 1   | 8 |
| 25 | Impact of sulphuric, hydrochloric, nitric, and lactic acids in the preparation of a blend of agro-industrial digestate and wood ash to produce a novel fertiliser. <i>Journal of Environmental Chemical Engineering</i> , <b>2021</b> , 9, 105021 | 6.8 | 8 |
| 24 | An Investigation into Power from Pitch-Surge Point-Absorber Wave Energy Converters <b>2007</b> ,  |     | 7 |
| 23 | Flow dynamic behaviors of a hydraulic generating system with multi-timescales. <i>JVC/Journal of Vibration and Control</i> , <b>2019</b> , 25, 2863-2874  | 2   | 5 |
| 22 | Numerical simulation of the performance of a centrifugal pump with a semi-open impeller under normal and cavitating conditions. <i>Applied Mathematical Modelling</i> , <b>2021</b> , 89, 1814-1834   | 4.5 | 5 |
| 21 | Kinetic study of the stabilization of an agro-industrial digestate by adding wood fly ash. <i>Chemical Engineering Journal Advances</i> , <b>2021</b> , 7, 100127   | 3.6 | 5 |
| 20 | Flow Modeling in Pelton Turbines by an Accurate Eulerian and a Fast Lagrangian Evaluation Method. <i>International Journal of Rotating Machinery</i> , <b>2015</b> , 2015, 1-13   | 1.3 | 4 |
| 19 | Energy source or sink? The role of the uplands in meeting our energy targets. <i>International Journal of Biodiversity Science and Management</i> , <b>2006</b> , 2, 196-199  |     | 4 |
| 18 | Alkaline Wood Ash, Turbulence, and Traps with Excess of Sulfuric Acid Do Not Strip Completely the Ammonia off an Agro-waste Digestate <b>2021</b> , 19-24   |     | 4 |
| 17 | Numerical hydrodynamic modelling of a pitching wave energy converter. <i>European Journal of Computational Mechanics</i> , <b>2015</b> , 24, 129-143  | 0.5 | 3 |
| 16 | Optimum Power Capture of a New Wave Energy Converter in Irregular Waves <b>2009</b> ,   |     | 3 |
| 15 | Hydrodynamic studies of floating structures: Comparison of wave-structure interaction modelling. <i>Ocean Engineering</i> , <b>2022</b> , 249, 110878   | 3.9 | 3 |
| 14 | Strategies for the production of a stable blended fertilizer of anaerobic digestates and wood ashes. <i>Nature-based Solutions</i> , <b>2022</b> , 2, 100014  |     | 3 |
| 13 | Opportunities for tidal range projects beyond energy generation: Using Mersey barrage as a case study. <i>Frontiers of Architectural Research</i> , <b>2019</b> , 8, 620-633  | 2.3 | 2 |
| 12 | Determination of optimum welding parameters for the welding execution of steels used in underwater marine systems (including the submerged parts of Wave Energy Converters). <i>Materials Today: Proceedings</i> , <b>2019</b> , 18, 455-461      | 1.4 | 2 |

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|----|---|-----|--|---|
| 11 | <b>2009,</b>  |     |  | 2 |
| 10 | State of the art of UV water treatment technologies and hydraulic design optimisation using computational modelling. <i>Journal of Water Process Engineering</i> , <b>2021</b> , 41, 102099   | 6.7 |  | 2 |
| 9  | Circularity of Bioenergy Residues: Acidification of Anaerobic Digestate Prior to Addition of Wood Ash. <i>Sustainability</i> , <b>2022</b> , 14, 3127   | 3.6 |  | 2 |
| 8  | <b>2007,</b>  |     |  | 1 |
| 7  | Valorization of agrowaste digestate via addition of wood ash, acidification, and nitrification. <i>Environmental Technology and Innovation</i> , <b>2022</b> , 102632   | 7   |  | 1 |
| 6  | A Rationalised CFD Design Methodology for Turgo Turbines to Enable Local Manufacture in the Global South. <i>Energies</i> , <b>2021</b> , 14, 6250  | 3.1 |  | 0 |
| 5  | A Preliminary Study on Identifying Biomimetic Entities for Generating Novel Wave Energy Converters. <i>Energies</i> , <b>2022</b> , 15, 2485  | 3.1 |  | 0 |
| 4  | Time-Domain Implementation and Analyses of Multi-Motion Modes of Floating Structures. <i>Journal of Marine Science and Engineering</i> , <b>2022</b> , 10, 662  | 2.4 |  | 0 |
| 3  | Material aspects of underwater marine systems in Greece. <i>Materials Today: Proceedings</i> , <b>2019</b> , 10, 419-429  |     |  | 1 |
| 2  | Analysis of a pitching-and-surging wave-energy converter that reacts against an internal mass, when operating in regular sinusoidal waves. <i>Proceedings of the Institution of Mechanical Engineers Part M: Journal of Engineering for the Maritime Environment</i> , <b>2008</b> , 222, 153-161 | 0.4 |  | 1 |
| 1  | Determination of the corrosion resistance of the welded steels used in underwater marine systems (including the submerged parts of wave energy converters). <i>Materials Today: Proceedings</i> , <b>2021</b> , 44, 5048-5053   | 1.4 |  | 1 |