

# George Aggidis

## 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.

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	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
63	A Preliminary Study on Identifying Biomimetic Entities for Generating Novel Wave Energy Converters. <i>Energies</i> , <b>2022</b> , 15, 2485	3.1	0
62	Hydrodynamic studies of floating structures: Comparison of wave-structure interaction modelling. <i>Ocean Engineering</i> , <b>2022</b> , 249, 110878	3.9	3
61	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
60	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
59	Valorization of agrowaste digestate via addition of wood ash, acidification, and nitrification. <i>Environmental Technology and Innovation</i> , <b>2022</b> , 102632	7	1
58	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
57	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
56	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
55	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	5
54	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	3.2	9
53	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
52	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
51	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
50	Assessing the energy potential of modernizing the European hydropower fleet. <i>Energy Conversion and Management</i> , <b>2021</b> , 246, 114655	10.6	17
49	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
48	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

47	Analysis of emerging technologies in the hydropower sector. <i>Renewable and Sustainable Energy Reviews</i> , <b>2019</b> , 113, 109257	16.2	94
46	Fast-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
45	Material aspects of underwater marine systems in Greece. <i>Materials Today: Proceedings</i> , <b>2019</b> , 10, 419-429	16.2	94
44	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
43	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
42	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
41	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
40	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
39	Tidal range energy resource and optimization [Past perspectives and future challenges. <i>Renewable Energy</i> , <b>2018</b> , 127, 763-778	8.1	88
38	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
37	Regenerative liquid ring pumps review and advances on design and performance. <i>Applied Energy</i> , <b>2016</b> , 164, 815-825	10.7	19
36	Development of the Turgo Impulse turbine: Past and present. <i>Applied Energy</i> , <b>2016</b> , 166, 1-18	10.7	13
35	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
34	Pelton turbine: Identifying the optimum number of buckets using CFD. <i>Journal of Hydrodynamics</i> , <b>2016</b> , 28, 75-83	3.3	17
33	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
32	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
31	Swansea Bay tidal lagoon annual energy estimation. <i>Ocean Engineering</i> , <b>2016</b> , 111, 348-357	3.9	23
30	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

29	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
28	Parametric optimisation of two Pelton turbine runner designs using CFD. <i>Journal of Hydrodynamics</i> , <b>2015</b> , 27, 403-412	3.3	19
27	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
26	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
25	Development of hydro impulse turbines and new opportunities. <i>Renewable and Sustainable Energy Reviews</i> , <b>2015</b> , 51, 1624-1635	16.2	15
24	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
23	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
22	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
21	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
20	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
19	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
18	Tidal range turbines and generation on the Solway Firth. <i>Renewable Energy</i> , <b>2012</b> , 43, 9-17	8.1	32
17	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
16	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
15	Numerical and experimental study of a point absorbing wave energy converter in regular waves <b>2009</b> ,		8
14	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
13	A Joint Numerical and Experimental Study of a Surging Point Absorbing Wave Energy Converter (WRASPA) <b>2009</b> ,		10
12	<b>2009</b> ,		2

11	Optimum Power Capture of a New Wave Energy Converter in Irregular Waves <b>2009</b> ,			3
10	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		
9	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
8	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
7	<b>2007</b> ,			1
6	An Investigation into Power from Pitch-Surge Point-Absorber Wave Energy Converters <b>2007</b> ,			7
5	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
4	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
3	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
2	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
1	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