Wanan Sheng

List of Publications by Year
in descending order

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Version: 2024-02-01

58 papers	1,453 citations	257450 24 h-index	330143 37 g-index
58 all docs	58 docs citations	58 times ranked	939 citing authors

#	Article	IF	Citations
1	Wave energy conversion and hydrodynamics modelling technologies: A review. Renewable and Sustainable Energy Reviews, 2019, 109, 482-498.	16.4	126
2	A Modified Dynamic Stall Model for Low Mach Numbers. Journal of Solar Energy Engineering, Transactions of the ASME, 2008, 130, .	1.8	91
3	Numerical study on the dynamics of a two-raft wave energy conversion device. Journal of Fluids and Structures, 2015, 58, 271-290.	3.4	77
4	A New Stall-Onset Criterion for Low Speed Dynamic-Stall. Journal of Solar Energy Engineering, Transactions of the ASME, 2006, 128, 461-471.	1.8	72
5	Physical modelling of wave energy converters. Ocean Engineering, 2014, 84, 29-36.	4.3	72
6	On thermodynamics in the primary power conversion of oscillating water column wave energy converters. Journal of Renewable and Sustainable Energy, 2013, 5, .	2.0	60
7	Dynamics and control of air turbines in oscillating-water-column wave energy converters: Analyses and case study. Renewable and Sustainable Energy Reviews, 2019, 112, 571-589.	16.4	55
8	Economic and socio-economic assessment methods for ocean renewable energy: Public and private perspectives. Renewable and Sustainable Energy Reviews, 2015, 45, 850-878.	16.4	52
9	Power performance of BBDB OWC wave energy converters. Renewable Energy, 2019, 132, 709-722.	8.9	51
10	On improving wave energy conversion, part I: Optimal and control technologies. Renewable Energy, 2015, 75, 922-934.	8.9	49
11	Assessment of Wave Energy Extraction From Seas: Numerical Validation. Journal of Energy Resources Technology, Transactions of the ASME, 2012, 134, .	2.3	44
12	On improving wave energy conversion, part II: Development of latching control technologies. Renewable Energy, 2015, 75, 935-944.	8.9	42
13	Prediction of Dynamic Stall Onset for Oscillatory Low-Speed Airfoils. Journal of Fluids Engineering, Transactions of the ASME, 2008, 130, .	1.5	36
14	Power Takeoff Optimization for Maximizing Energy Conversion of Wave-Activated Bodies. IEEE Journal of Oceanic Engineering, 2016, 41, 529-540.	3.8	35
15	Implementation and Verification of a Wave-to-Wire Model of an Oscillating Water Column With Impulse Turbine. IEEE Transactions on Sustainable Energy, 2016, 7, 546-553.	8.8	35
16	Wave energy conversion of oscillating water column devices including air compressibility. Journal of Renewable and Sustainable Energy, 2016, 8, .	2.0	34
17	Motion and performance of BBDB OWC wave energy converters: I, hydrodynamics. Renewable Energy, 2019, 138, 106-120.	8.9	34
18	On the S809 airfoil's unsteady aerodynamic characteristics. Wind Energy, 2009, 12, 752-767.	4.2	32

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19	Ocean Energy Systems Wave Energy Modelling Task: Modelling, Verification and Validation of Wave Energy Converters. Journal of Marine Science and Engineering, 2019, 7, 379.	2.6	30
20	A Study on the Effects of Wave Spectra on Wave Energy Conversions. IEEE Journal of Oceanic Engineering, 2020, 45, 271-283.	3.8	30
21	A Method for Energy and Resource Assessment of Waves in Finite Water Depths. Energies, 2017, 10, 460.	3.1	28
22	A new method for radiation forces for floating platforms in waves. Ocean Engineering, 2015, 105, 43-53.	4.3	27
23	On the generation of a helicopter aerodynamic database. Aeronautical Journal, 2011, 115, 103-112.	1.6	25
24	Maximum Wave Energy Conversion by Two Interconnected Floaters. Journal of Energy Resources Technology, Transactions of the ASME, 2016, 138, .	2.3	25
25	Assessment of primary energy conversions of oscillating water columns. I. Hydrodynamic analysis. Journal of Renewable and Sustainable Energy, 2014, 6, .	2.0	24
26	Performance assessment of wave measurements of wave buoys. International Journal of Marine Energy, 2015, 12, 63-76.	1.8	24
27	Power Takeoff Optimization to Maximize Wave Energy Conversions for Oscillating Water Column Devices. IEEE Journal of Oceanic Engineering, 2018, 43, 36-47.	3.8	24
28	Comparative assessment of control strategies for the biradial turbine in the Mutriku OWC plant. Renewable Energy, 2020, 146, 2766-2784.	8.9	24
29	Return from Aerofoil Stall During Ramp-Down Pitching Motions. Journal of Aircraft, 2007, 44, 1856-1864.	2.4	23
30	Improved Dynamic-Stall-Onset Criterion at Low Mach Numbers. Journal of Aircraft, 2007, 44, 1049-1052.	2.4	22
31	Maximum theoretical power absorption of connected floating bodies under motion constraints. Applied Ocean Research, 2016, 58, 95-103.	4.1	17
32	Hydrodynamic studies of floating structures: Comparison of wave-structure interaction modelling. Ocean Engineering, 2022, 249, 110878.	4.3	14
33	Applications of Low-Speed Dynamic-Stall Model to the NREL Airfoils. Journal of Solar Energy Engineering, Transactions of the ASME, 2010, 132, .	1.8	13
34	An Improved Method for Energy and Resource Assessment of Waves in Finite Water Depths. Energies, 2017, 10, 1188.	3.1	13
35	Experimental Studies of a Floating Cylindrical OWC WEC. , 2012, , .		12
36	Assessment of primary energy conversions of oscillating water columns. II. Power take-off and validations. Journal of Renewable and Sustainable Energy, 2014, 6, 053114.	2.0	11

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37	Energy Conversion: A Comparison of Fix- and Self-Referenced Wave Energy Converters. Energies, 2016, 9, 1056.	3.1	11
38	A Comparison of Biradial and Wells Air Turbines on the Mutriku Breakwater OWC Wave Power Plant. , 2017, , .		11
39	An Analysis of the Potential Benefits of Centralised Predictive Control for Optimal Electrical Power Generation From Wave Energy Arrays. IEEE Transactions on Sustainable Energy, 2018, 9, 1761-1771.	8.8	8
40	Investigation to Air Compressibility of Oscillating Water Column Wave Energy Converters. , 2013, , .		7
41	A Modified Dynamic Stall Model for Low Mach Numbers. , 2007, , .		6
42	Integrated methodologies of economics and socio-economics assessments in ocean renewable energy: Private and public perspectives. International Journal of Marine Energy, 2016, 15, 191-200.	1.8	5
43	Performance improvements of mooring systems for wave energy converters. , 2015, , 897-903.		4
44	A Preliminary Study on Identifying Biomimetic Entities for Generating Novel Wave Energy Converters. Energies, 2022, 15, 2485.	3.1	4
45	Time-Domain Implementation and Analyses of Multi-Motion Modes of Floating Structures. Journal of Marine Science and Engineering, 2022, 10, 662.	2.6	4
46	Numerical Studies on Hydrodynamics of a Floating Oscillating Water Column. , 2011, , .		3
47	Advancement of aerofoil section dynamic stall synthesis methods for rotor design. Aeronautical Journal, 2012, 116, 521-539.	1.6	2
48	On the Return from Aerofoil Stall during Ramp-Down Pitching Motions. , 2007, , .		1
49	Applications of Low Speed Dynamic Stall Model to the NREL Airfoils. , 2008, , .		1
50	Numerical and experimental studies of water impact on conical point absorber buoys. , 2016, , .		1
51	Wave energy converters: Fix- or self-referenced?. , 2016, , .		1
52	Wave Measurement Buoy. , 2019, , 1-9.		1
53	Challenges and progress in wave energy technologies. Journal of Nuclear Energy Science and Power Generation Technology (discontinued), 2017, 06, .	0.1	0
54	Power Take-Off System. , 2020, , 1-9.		0

#	Article	IF	Citations
55	Wave Energy Converters. , 2020, , 1-9.		0
56	Power Take-Off System. , 2022, , 1379-1387.		0
57	Wave Measurement Buoy. , 2022, , 2142-2149.		0
58	Wave Energy Converters. , 2022, , 2121-2128.		0