

Wen-Quan Wang

List of Publications by Year in descending order

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all docs

37
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37
times ranked

271
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of pitching motion profile on energy harvesting performance of a semi-active flapping foil using immersed boundary method. <i>Ocean Engineering</i> , 2018, 163, 94-106.	4.3	45
2	Numerical and experimental analysis of a diffuser-augmented micro-hydro turbine. <i>Ocean Engineering</i> , 2019, 171, 590-602.	4.3	44
3	Large eddy simulation of turbulent flow in a true 3D Francis hydro turbine passage with dynamical fluid-structure interaction. <i>International Journal for Numerical Methods in Fluids</i> , 2007, 54, 517-541.	1.6	33
4	Energy loss evaluation in a Francis turbine under overall operating conditions using entropy production method. <i>Renewable Energy</i> , 2021, 169, 982-999.	8.9	27
5	Design and prediction hydrodynamic performance of horizontal axis micro-hydrokinetic river turbine. <i>Renewable Energy</i> , 2019, 133, 91-102.	8.9	25
6	A simple and efficient implicit direct forcing immersed boundary model for simulations of complex flow. <i>Applied Mathematical Modelling</i> , 2017, 43, 287-305.	4.2	24
7	Numerical study on hydrodynamics for a non-sinusoidal forced oscillating hydrofoil based on an immersed boundary method. <i>Ocean Engineering</i> , 2018, 147, 606-620.	4.3	22
8	Primary and secondary resonance analyses of a cantilever beam carrying an intermediate lumped mass with time-delay feedback. <i>Nonlinear Dynamics</i> , 2019, 97, 1175-1195.	5.2	19
9	FEM simulation of turbulent flow in a turbine blade passage with dynamical fluid-structure interaction. <i>International Journal for Numerical Methods in Fluids</i> , 2009, 61, 1299-1330.	1.6	18
10	Parametric study on the propulsion and energy harvesting performance of a pitching foil hanging under a wave glider. <i>Renewable Energy</i> , 2022, 184, 830-844.	8.9	18
11	Influence of interaction between the diffuser and rotor on energy harvesting performance of a micro-diffuser-augmented hydrokinetic turbine. <i>Ocean Engineering</i> , 2019, 189, 106293.	4.3	16
12	Entropy production analysis for vortex rope of a Francis turbine using hybrid RANS/LES method. <i>International Communications in Heat and Mass Transfer</i> , 2021, 127, 105494.	5.6	16
13	Large-Eddy Simulation of Turbulent Flow Considering Inflow Wakes in a Francis Turbine Blade Passage. <i>Journal of Hydrodynamics</i> , 2007, 19, 201-209.	3.2	15
14	Resonance and chaos of micro and nano electro mechanical resonators with time delay feedback. <i>Applied Mathematical Modelling</i> , 2020, 79, 469-489.	4.2	13
15	Intrinsic Features of Turbulent Flow in Strongly 3-D Skew Blade Passage of a Francis Turbine. <i>Journal of Hydrodynamics</i> , 2007, 19, 92-99.	3.2	12
16	An IB-LBM implementation for fluid-solid interactions with an MLS approximation for implicit coupling. <i>Applied Mathematical Modelling</i> , 2018, 62, 638-653.	4.2	12
17	Free vibration of the fluid-filled single-walled carbon nanotube based on a double shell-potential flow model. <i>Applied Mathematical Modelling</i> , 2012, 36, 6146-6153.	4.2	11
18	Resonances and chaos of electrostatically actuated arch micro/nanoresonators with time delay velocity feedback. <i>Chaos, Solitons and Fractals</i> , 2020, 131, 109512.	5.1	11

#	ARTICLE	IF	CITATIONS
19	A strong-coupled method combined finite element method and lattice Boltzmann method via an implicit immersed boundary scheme for fluid structure interaction. <i>Ocean Engineering</i> , 2020, 214, 107779.	4.3	10
20	The effects of outline of the symmetrical flapping hydrofoil on energy harvesting performance. <i>Renewable Energy</i> , 2020, 162, 624-638.	8.9	10
21	Time-delay feedback control of a cantilever beam with concentrated mass based on the homotopy analysis method. <i>Applied Mathematical Modelling</i> , 2022, 108, 629-645.	4.2	9
22	Application and dynamical behavior of CNTs as fluidic nanosensors based on the nonlocal strain gradient theory. <i>Sensors and Actuators A: Physical</i> , 2021, 330, 112836.	4.1	8
23	Study on Turbulence Features Near an Oscillating Curved Wall. <i>Journal of Hydrodynamics</i> , 2007, 19, 255-263.	3.2	7
24	Study on the hydrodynamic characteristics of a marine riser under periodic pulsation disturbance. <i>Ocean Engineering</i> , 2021, 223, 108696.	4.3	7
25	NUMERICAL SIMULATION OF FLOW FEATURES AND ENERGY EXCHANGE PHYSICS IN NEAR-WALL REGION WITH FLUID-STRUCTURE INTERACTION. <i>International Journal of Modern Physics B</i> , 2008, 22, 651-669.	2.0	5
26	Axisymmetric vibration of SWCNTs in water with arbitrary chirality based on nonlocal anisotropic shell model. <i>Applied Mathematical Modelling</i> , 2015, 39, 3016-3023.	4.2	5
27	Effects of non-sinusoidal pitching motion on energy input performance of micro-linear turbine cascade. <i>Ocean Engineering</i> , 2020, 197, 106913.	4.3	5
28	The hydrodynamic performance analysis of a submarine with new pump-jet propulsor. <i>Ocean Engineering</i> , 2022, 245, 110542.	4.3	5
29	Numerical study of the flow around a hyperbolic cylinder at Reynolds number 3900. <i>Ocean Engineering</i> , 2022, 246, 110669.	4.3	5
30	Application of nonlocal continuum theory to the primary resonance analysis of an axially loaded nano beam under time delay control. <i>Applied Mathematical Modelling</i> , 2020, 85, 124-140.	4.2	4
31	Evaluating energy-efficiency improvement of variable-speed operation with the help of entropy: A case study of low-head Francis turbine. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 53, 102468.	2.7	4
32	Optimal delayed control of primary and second resonances of an electrostatic driving double-sided micro-actuator. <i>Chaos, Solitons and Fractals</i> , 2021, 142, 110499.	5.1	3
33	Turbulent flow simulation using LES with dynamical mixed one-equation subgrid models in complex geometries. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 63, 600-621.	1.6	2
34	Analysis of Nonlinear Vibration and Instability of Electrostatically Actuated Fluid-Conveying Micro Beams. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2019, 29, 1950088.	1.7	2
35	Effects of blade parameters on the hydrodynamic performance of an impulse turbine of oscillation water column wave energy. <i>Ocean Engineering</i> , 2021, 224, 108760.	4.3	2
36	Transient aerodynamic performance of bidirectional impulse turbine in reciprocating airflows for hydrokinetic energy conversion systems. <i>Ocean Engineering</i> , 2022, 259, 111945.	4.3	0

#	ARTICLE	IF	CITATIONS
37	Acoustic characteristics of a horizontal axis micro hydrokinetic turbine. Ocean Engineering, 2022, 259, 111854.	4.3	0