

Wentao Su

List of Publications by Year in descending order

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82
papers

2,247
citations

236833

25
h-index

243529

44
g-index

82
all docs

82
docs citations

82
times ranked

2409
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial intelligence: A powerful paradigm for scientific research. <i>Innovation(China)</i> , 2021, 2, 100179.	5.2	200
2	Microfluidic platform towards point-of-care diagnostics in infectious diseases. <i>Journal of Chromatography A</i> , 2015, 1377, 13-26.	1.8	176
3	A disease model of diabetic nephropathy in a glomerulus-on-a-chip microdevice. <i>Lab on A Chip</i> , 2017, 17, 1749-1760.	3.1	146
4	Engineering human islet organoids from iPSCs using an organ-on-chip platform. <i>Lab on A Chip</i> , 2019, 19, 948-958.	3.1	140
5	Investigation on pump as turbine (PAT) technical aspects for micro hydropower schemes: A state-of-the-art review. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 79, 148-179.	8.2	136
6	Dissimilatory nitrate reduction by <i>Pseudomonas alcaliphila</i> with an electrode as the sole electron donor. <i>Biotechnology and Bioengineering</i> , 2012, 109, 2904-2910.	1.7	116
7	Autotrophic nitrogen removal from ammonium at low applied voltage in a single-compartment microbial electrolysis cell. <i>Bioresource Technology</i> , 2012, 116, 271-277.	4.8	84
8	Sulfate reduction with electrons directly derived from electrodes in bioelectrochemical systems. <i>Electrochemistry Communications</i> , 2012, 22, 37-40.	2.3	75
9	The direct electrocatalysis of phenazine-1-carboxylic acid excreted by <i>Pseudomonas alcaliphila</i> under alkaline condition in microbial fuel cells. <i>Bioresource Technology</i> , 2011, 102, 7099-7102.	4.8	64
10	One-Step Generation of Core-Shell Gelatin Methacrylate (GelMA) Microgels Using a Droplet Microfluidic System. <i>Advanced Materials Technologies</i> , 2019, 4, 1800632.	3.0	62
11	A Biomimetic Human Gut-on-a-Chip for Modeling Drug Metabolism in Intestine. <i>Artificial Organs</i> , 2018, 42, 1196-1205.	1.0	50
12	Effects of cathode potentials and nitrate concentrations on dissimilatory nitrate reductions by <i>Pseudomonas alcaliphila</i> in bioelectrochemical systems. <i>Journal of Environmental Sciences</i> , 2014, 26, 885-891.	3.2	49
13	Blade trailing edge position influencing pump as turbine (PAT) pressure field under part-load conditions. <i>Renewable Energy</i> , 2019, 136, 33-47.	4.3	49
14	Synergetic mechanism for basic and acid sites of MgMxOy (M = Fe, Mn) double oxides in catalytic ozonation of p-hydroxybenzoic acid and acetic acid. <i>Applied Catalysis B: Environmental</i> , 2020, 279, 119346.	10.8	48
15	Drug absorption related nephrotoxicity assessment on an intestine-kidney chip. <i>Biomicrofluidics</i> , 2017, 11, 034114.	1.2	46
16	A smart cauliflower-like carrier for astaxanthin delivery to relieve colon inflammation. <i>Journal of Controlled Release</i> , 2022, 342, 372-387.	4.8	45
17	pH-Responsive Core-Shell Microparticles Prepared by a Microfluidic Chip for the Encapsulation and Controlled Release of Procyanidins. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 1466-1477.	2.4	39
18	Microfluidic device for on-chip isolation and detection of circulating exosomes in blood of breast cancer patients. <i>Biomicrofluidics</i> , 2019, 13, 054113.	1.2	38

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19	Endogenous Fluorescence Carbon Dots Derived from Food Items. <i>Innovation(China)</i> , 2020, 1, 100009.	5.2	37
20	A review on remedial attempts to counteract the power generation compromise from draft tubes of hydropower plants. <i>Renewable Energy</i> , 2020, 150, 743-764.	4.3	36
21	Microfluidic strategies for sample separation and rapid detection of food allergens. <i>Trends in Food Science and Technology</i> , 2021, 110, 213-225.	7.8	31
22	Dual targeting procyanidin nanoparticles with glutathione response for colitis treatment. <i>Chemical Engineering Journal</i> , 2022, 441, 136095.	6.6	30
23	Simultaneous biodegradation of Ni ²⁺ -citrate complexes and removal of nickel from solutions by <i>Pseudomonas alcaliphila</i> . <i>Bioresource Technology</i> , 2012, 116, 66-73.	4.8	28
24	Pressure fluctuation characteristics of a model pump-turbine during runaway transient. <i>Renewable Energy</i> , 2021, 163, 517-529.	4.3	28
25	Assessment of cadmium-induced nephrotoxicity using a kidney-on-a-chip device. <i>Toxicology Research</i> , 2017, 6, 372-380.	0.9	25
26	Paper supported long-term 3D liver co-culture model for the assessment of hepatotoxic drugs. <i>Toxicology Research</i> , 2018, 7, 13-21.	0.9	25
27	Assessment of hepatic metabolism-dependent nephrotoxicity on an organs-on-a-chip microdevice. <i>Toxicology in Vitro</i> , 2018, 46, 1-8.	1.1	25
28	Microfluidic Fabrication of pH-Responsive Nanoparticles for Encapsulation and Colon-Target Release of Fucoxanthin. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 124-135.	2.4	23
29	Dynamic characteristics of load rejection process in a reversible pump-turbine. <i>Renewable Energy</i> , 2020, 146, 1922-1931.	4.3	22
30	Study on the method of reducing the pressure fluctuation of hydraulic turbine by optimizing the draft tube pressure distribution. <i>Renewable Energy</i> , 2020, 162, 550-560.	4.3	20
31	Recent developments of drying techniques for aquatic products: With emphasis on drying process monitoring with innovative methods. <i>Drying Technology</i> , 2021, 39, 1577-1594.	1.7	20
32	On the hydraulic axial thrust of Francis hydro-turbine. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 2029-2035.	0.7	19
33	Manganese containing oxides catalytic ozonation in aqueous solution: Catalytic mechanism on acid sites. <i>Separation and Purification Technology</i> , 2022, 282, 120053.	3.9	19
34	Characteristics of Oil from Hulless Barley (<i>Hordeum vulgare</i> L.) Bran from Tibet. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2009, 86, 1175.	0.8	15
35	Investigation on reversible pump turbine flow structures and associated pressure field characteristics under different guide vane openings. <i>Science China Technological Sciences</i> , 2019, 62, 2052-2074.	2.0	14
36	Formation and biological effects of protein corona for food-related nanoparticles. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2022, 21, 2002-2031.	5.9	14

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37	Assessment of Les Performance in Simulating Complex 3D Flows in Turbo-Machines. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2012, 6, 356-365.	1.5	13
38	Integrated Microfluidic Device for Enrichment and Identification of Circulating Tumor Cells from the Blood of Patients with Colorectal Cancer. <i>Disease Markers</i> , 2019, 2019, 1-9.	0.6	13
39	Advances of microfluidic intestine-on-a-chip for analyzing anti-inflammation of food. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 4418-4434.	5.4	13
40	Nucleic acid-based detection for foodborne virus utilizing microfluidic systems. <i>Trends in Food Science and Technology</i> , 2021, 113, 97-109.	7.8	13
41	Chaotic dynamic characteristics of pressure fluctuation signals in hydro-turbine. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 5009-5017.	0.7	12
42	Advances of Exosomal miRNAs in Breast Cancer Progression and Diagnosis. <i>Diagnostics</i> , 2021, 11, 2151.	1.3	12
43	Facile synthesis of food-grade and size-controlled nanocarriers based on self-assembly of procyanidins and phycocyanin. <i>Food and Function</i> , 2022, 13, 4023-4031.	2.1	12
44	Runner blade number influencing RPT runner flow characteristics under off-design conditions. <i>Renewable Energy</i> , 2020, 152, 876-891.	4.3	11
45	Microfluidic spinning of fucoxanthin-loaded nanofibers for enhancing antioxidation and clarification of fruit juice. <i>Food and Function</i> , 2022, 13, 1472-1481.	2.1	11
46	Evaluation of hepatic drug-metabolism for glioblastoma using liver-brain chip. <i>Biotechnology Letters</i> , 2021, 43, 383-392.	1.1	10
47	Experimental Investigation on the Characteristics of Hydrodynamic Stabilities in Francis Hydroturbine Models. <i>Advances in Mechanical Engineering</i> , 2014, 6, 486821.	0.8	9
48	Snow melting on the road surface driven by a geothermal system in the severely cold region of China. <i>Sustainable Energy Technologies and Assessments</i> , 2020, 40, 100781.	1.7	9
49	Construction and evaluation of an iron delivery system by ultra-small nanoparticles from roast sturgeon (<i>Acipenser schrenckii</i>). <i>Food and Function</i> , 2021, 12, 1147-1155.	2.1	8
50	Influence of structural parameters on wavy-tilt-dam hydrodynamic mechanical seal performance in reactor coolant pump. <i>Renewable Energy</i> , 2020, 166, 210-221.	4.3	8
51	Effect of blade perforation on Francis hydro-turbine cavitation characteristics. <i>Journal of Hydraulic Research/De Recherches Hydrauliques</i> , 2014, 52, 412-420.	0.7	7
52	A phosphorescence resonance energy transfer-based "off-on" long afterglow aptasensor for cadmium detection in food samples. <i>Talanta</i> , 2021, 232, 122409.	2.9	7
53	Investigation on mutual traveling influences between the draft tube and upstream components of a Francis turbine unit. <i>Renewable Energy</i> , 2020, 162, 973-992.	4.3	6
54	Numerical and Experimental Study on Waviness Mechanical Seal of Reactor Coolant Pump. <i>Processes</i> , 2020, 8, 1611.	1.3	6

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55	Optimization design of the road unit in a hydronic snow melting system with porous snow. Journal of Thermal Analysis and Calorimetry, 2020, 141, 1509-1517.	2.0	6
56	Deicing performances of a road unit driven by a hydronic heating system in severely cold regions of China. Computers and Mathematics With Applications, 2021, 81, 838-850.	1.4	6
57	Large eddy simulation of pressure fluctuations at off-design condition in a Francis turbine based on cavitation model. IOP Conference Series: Materials Science and Engineering, 2013, 52, 022032.	0.3	5
58	Bubble behaviors during subcooled pool boiling in water and nonionic surfactant aqueous solution. International Journal of Heat and Mass Transfer, 2020, 159, 120087.	2.5	5
59	Thermal performances of porous snow by a hydronic heating system at different weather conditions. Journal of Thermal Analysis and Calorimetry, 2020, 141, 1519-1528.	2.0	5
60	PARAMETER STUDY OF LAMINAR FLOW AND HEAT TRANSFER IN AN INTERRUPTED MICROCHANNEL HEAT SINK WITH RIBS. Heat Transfer Research, 2021, 52, 13-27.	0.9	5
61	The effect of surfactant solutions on flow structures in turbulent Rayleigh-Benard convection. Thermal Science, 2018, 22, 507-515.	0.5	5
62	Fracture behavior dependent on crack-tip shapes in nanoscale crack-defect monolayer boron nitride sheets. International Journal of Smart and Nano Materials, 2021, 12, 36-48.	2.0	4
63	Hepatocyte-specific TAZ deletion downregulates p62/ Sqstm1 expression in nonalcoholic steatohepatitis. Biochemical and Biophysical Research Communications, 2021, 535, 60-65.	1.0	4
64	Airborne radar sub array partitioning method based on artificial bee colony algorithm. , 2019, , .		3
65	Experimental heating performances of a ground source heat pump (GSHP) for heating road unit. Energy Conversion and Management: X, 2020, 7, 100040.	0.9	3
66	Investigation into the outlying swirl instability in the hydro-turbine draft tube under part-load operation. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2021, 235, 139-153.	0.8	3
67	Vapor bubbleâ€“bubble penetration during subcooled pool boiling in a nonionic surfactant aqueous solution. International Journal of Heat and Mass Transfer, 2020, 159, 120142.	2.5	2
68	Heating performance enhancement for a road unit by using sectorial-finned pipe. Journal of Thermal Analysis and Calorimetry, 2020, 141, 187-198.	2.0	2
69	Numerical study on thermal performances of bare, circular and rectangular finned pipes for road heating. Journal of Thermal Analysis and Calorimetry, 2020, 140, 1147-1157.	2.0	2
70	Thermal characteristics of porous concrete in a hydronic road heating system. Applied Thermal Engineering, 2021, 182, 116074.	3.0	2
71	Comparisons of LES and RANS Computations with PIV Experiments on a Cylindrical Cavity Flow. Advances in Mechanical Engineering, 2013, 5, 592940.	0.8	2
72	The influence of runner cone perforation on the draft tube vortex in Francis hydro-turbine. Thermal Science, 2018, 22, 557-566.	0.5	2

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73	Microfluidics-assisted electrospinning of aligned nanofibers for modeling intestine barriers. PeerJ, 0, 10, e13513.	0.9	2
74	On the Flow Instabilities and Turbulent Kinetic Energy of Large-Scale Francis Hydroturbine Model at Low Flow Rate Conditions. Advances in Mechanical Engineering, 2014, 6, 786891.	0.8	1
75	RPT Runner Flow Structures Dependence on Guide Vane Opening Angle: A CFD Numerical Simulation. IOP Conference Series: Earth and Environmental Science, 2018, 192, 012044.	0.2	1
76	Meteorological clutter suppression method for ball-borne radar based on Kalman filter. Journal of Engineering, 2019, 2019, 7761-7765.	0.6	1
77	Research on Machine Translation Automatic Evaluation Based on Extended Reference. , 2019, , .		1
78	Research Progress of Transition Metal Non-oxide High-entropy Ceramics. Wujin Cailiao Xuebao/Journal of Inorganic Materials, 2019, , 408.	0.6	1
79	Research of the Influence of Circulation Distribution on the Centrifugal Pump Performance. , 2012, , .		0
80	Research on the Threshold of Flow State of Viscous Fluids Based on Chaotic Dynamics. , 2016, , .		0
81	Runner Blade Number Influencing the RPT Runner Upstream Flow Characteristics: A CFD Numerical Simulation. , 2019, , .		0
82	Microbial Fuel Cell Coupled Bio-oxidation of Reducing Sulfide with Degradation of Azo Dyes. Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology, 2012, 18, 978.	0.1	0