

# Fan Zhang

## List of Publications by Year in descending order

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Version: 2024-02-01

16  
papers

241  
citations

933447

10  
h-index

996975

15  
g-index

16  
all docs

16  
docs citations

16  
times ranked

147  
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance Prediction Based on Effects of Wrapping Angle of a Side Channel Pump. <i>Energies</i> , 2019, 12, 139.	3.1	37
2	Transient flow characterization in energy conversion of a side channel pump under different blade suction angles. <i>Energy</i> , 2018, 161, 635-648.	8.8	32
3	Experimental and numerical investigations on pressure pulsation in a pump mode operation of a pump as turbine. <i>Energy Science and Engineering</i> , 2019, 7, 1264-1279.	4.0	29
4	A systematic investigation on flow characteristics of impeller passage in a nuclear centrifugal pump under cavitation state. <i>Annals of Nuclear Energy</i> , 2016, 97, 190-197.	1.8	28
5	Effect of suction side blade profile on the performance of a side channel pump. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2016, 230, 586-597.	1.4	28
6	Cavitation-Induced Unsteady Flow Characteristics in the First Stage of a Centrifugal Charging Pump. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2017, 139, .	1.5	19
7	Numerical Delineation of 3D Unsteady Flow Fields in Side Channel Pumps for Engineering Processes. <i>Energies</i> , 2019, 12, 1287.	3.1	12
8	Numerical Simulation of Gas-Liquid Two-Phase Flow Characteristics of Centrifugal Pump Based on the CFD-PBM. <i>Mathematics</i> , 2020, 8, 769.	2.2	11
9	Flow theory in the side chambers of the radial pumps: A review. <i>Physics of Fluids</i> , 2020, 32, .	4.0	11
10	Effect of blade tip cutting angle on energy conversion mechanism of side channel pumps. <i>Physics of Fluids</i> , 2022, 34, .	4.0	11
11	Energy dissipation mechanism of a centrifugal pump with entropy generation theory. <i>AIP Advances</i> , 2021, 11, .	1.3	7
12	Gas-Liquid Two-Phase Flow Investigation of Side Channel Pump: An Application of MUSIG Model. <i>Mathematics</i> , 2020, 8, 624.	2.2	5
13	Computational investigation of the cavitation vortex dynamics in flow over a three-dimensional hydrofoil by a new transport-based model. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2021, 235, 506-523.	1.4	3
14	Investigation on the Flow Behavior of Side Channel Pumps Based on Vortex Identification. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2021, 34, .	3.7	3
15	Study on the inner flow mechanisms and unsteady force distribution of side channel pump. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2022, 236, 1109-1128.	1.4	3
16	Research on the operation condition indicator for centrifugal pump based on sensorless monitoring technology. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2021, 235, 514-526.	2.5	2