

Zhengxian Liu

List of Publications by Year in descending order

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15
papers

142
citations

1162889

8
h-index

1199470

12
g-index

15
all docs

15
docs citations

15
times ranked

130
citing authors

#	ARTICLE	IF	CITATIONS
1	Redesign of casing treatment for a transonic centrifugal compressor based on a hybrid global optimization method. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2022, 236, 3398-3417.	1.1	5
2	Stability improvement without efficiency penalty of a transonic centrifugal compressor by casing treatment and impeller/diffuser coupling optimization. Aerospace Science and Technology, 2022, 127, 107685.	2.5	10
3	Dynamic mode decomposition analysis of the flow characteristics in a centrifugal compressor with vaned diffuser. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2021, 235, 154-168.	0.8	3
4	A new method for performance map prediction of automotive turbocharger compressors with both vaneless and vaned diffusers. Proceedings of the Institution of Mechanical Engineers, Part D: Journal of Automobile Engineering, 2021, 235, 1734-1747.	1.1	2
5	Onset of dynamic stall of tubercled wings. Physics of Fluids, 2021, 33, .	1.6	13
6	Thermodynamic design space data-mining and multi-objective optimization of SCO2 Brayton cycles. Energy Conversion and Management, 2021, 249, 114844.	4.4	15
7	A new methodology for preliminary design of centrifugal impellers with prewhirl. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2020, 234, 251-262.	0.8	4
8	A New Method for Impeller Inlet Design of Supercritical CO2 Centrifugal Compressors in Brayton Cycles. Energies, 2020, 13, 5049.	1.6	9
9	A modified turbulence model for simulating airflow aircraft cabin environment with mixed convection. Building Simulation, 2020, 13, 665-675.	3.0	16
10	A novel global optimization algorithm and data-mining methods for turbomachinery design. Structural and Multidisciplinary Optimization, 2019, 60, 581-612.	1.7	24
11	Multipoint and Multiobjective Optimization of a Centrifugal Compressor Impeller Based on Genetic Algorithm. Mathematical Problems in Engineering, 2017, 2017, 1-18.	0.6	16
12	Numerical investigation of the unsteady flow characteristics of human body thermal plume. Building Simulation, 2016, 9, 677-687.	3.0	14
13	On the nature of tip clearance flow in subsonic centrifugal impellers. Science China Technological Sciences, 2013, 56, 2170-2177.	2.0	10
14	Prediction the Stress and Strain Field Acting on the Surface of Engineered Cells Seeded in the 3D Bioreactor. , 2010, , .		1
15	Application of factor difference scheme to solving discrete flow equations based on unstructured grid. Transactions of Tianjin University, 2009, 15, 324-329.	3.3	0