Marcin Sosnowski

List of Publications by Year
in descending order

52 papers	937 citations	430874 18 h-index	477307 29 g-index
53 all docs	53 docs citations	53 times ranked	592 citing authors

#	Article	IF	Citations
1	Polyhedral meshing in numerical analysis of conjugate heat transfer. EPJ Web of Conferences, 2018, 180, 02096.	0.3	82
2	Optimization of a three-bed adsorption chiller by genetic algorithms and neural networks. Energy Conversion and Management, 2017, 153, 313-322.	9.2	81
3	Polyhedral meshing as an innovative approach to computational domain discretization of a cyclone in a fluidized bed CLC unit. E3S Web of Conferences, 2017, 14, 01027.	0.5	61
4	Prediction of Sorption Processes Using the Deep Learning Methods (Long Short-Term Memory). Energies, 2020, 13, 6601.	3.1	58
5	Numerical simulation of two-stage combustion in SI engine with prechamber. Applied Mathematical Modelling, 2013, 37, 2961-2982.	4.2	48
6	NO_x Emissions from Regenerator of Calcium Looping Process. Energy & Fuels, 2018, 32, 6355-6362.	5.1	43
7	The 4th Generation of CeSFaMB in numerical simulations for CuO-based oxygen carrier in CLC system. Fuel, 2019, 255, 115776.	6.4	41
8	A Fuzzy Logic Approach for the Reduction of MeshInduced Error in CFD Analysis: A Case Study of an Impinging Jet. Entropy, 2019, 21, 1047.	2.2	38
9	An adaptive neuro-fuzzy model of a re-heat two-stage adsorption chiller. Thermal Science, 2019, 23, 1053-1063.	1.1	37
10	The Numerical Comparison of Heat Transfer in a Coated and Fixed Bed of an Adsorption Chiller. Journal of Thermal Science, 2018, 27, 421-426.	1.9	36
11	CO2 Capture by Virgin Ivy Plants Growing Up on the External Covers of Houses as a Rapid Complementary Route to Achieve Global GHG Reduction Targets. Energies, 2022, 15, 1683.	3.1	28
12	Modeling of a re-heat two-stage adsorption chiller by AI approach. MATEC Web of Conferences, 2018, 240, 05014.	0.2	27
13	Evaluation of Heat Transfer Performance of a Multi-Disc Sorption Bed Dedicated for Adsorption Cooling Technology. Energies, 2019, 12, 4660.	3.1	27
14	Performance Evaluation of a Single-Stage Two-Bed Adsorption Chiller With Desalination Function. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	27
15	Effect of Metal and Carbon Nanotube Additives on the Thermal Diffusivity of a Silica Gel-Based Adsorption Bed. Energies, 2020, 13, 1391.	3.1	25
16	Construction of an innovative adsorbent bed configuration in the adsorption chiller part 2. experimental research of coated bed samples. Energy, 2021, 215, 119123.	8.8	22
17	Analysis of heat transfer in a coated bed of an adsorption chiller. MATEC Web of Conferences, 2018, 240, 01010.	0.2	19
18	Fluidized Bed Jet Milling Process Optimized for Mass and Particle Size with a Fuzzy Logic Approach. Materials, 2020, 13, 3303.	2.9	19

#	Article	IF	Citations
19	Numerical Analysis of Flow in Building Arrangement: Computational Domain Discretization. Applied Sciences (Switzerland), 2019, 9, 941.	2.5	18
20	Construction of Operational Data-Driven Power Curve of a Generator by Industry 4.0 Data Analytics. Energies, 2021, 14, 1227.	3.1	18
21	Experimental Investigation of an Intensified Heat Transfer Adsorption Bed (IHTAB) Reactor Prototype. Materials, 2021, 14, 3520.	2.9	18
22	CFD modelling and PIV experimental validation of flow fields in urban environments. E3S Web of Conferences, 2017, 14, 01034.	0.5	17
23	Heat Transfer in Adsorption Chillers with Fluidized Beds of Silica Gel, Zeolite, and Carbon Nanotubes. Heat Transfer Engineering, 2022, 43, 172-182.	1.9	15
24	Modeling of the Chemical Looping Combustion of Hard Coal and Biomass Using Ilmenite as the Oxygen Carrier. Energies, 2020, 13, 5394.	3.1	13
25	The Effect of Adhesive Additives on Silica Gel Water Sorption Properties. Entropy, 2020, 22, 327.	2.2	13
26	Modeling of a Combined Cycle Gas Turbine Integrated with an Adsorption Chiller. Energies, 2020, 13, 515.	3.1	12
27	Modeling of Thermal Cycle CI Engine with Multi-Stage Fuel Injection. Advances in Science and Technology Research Journal, 2017, 11, 179-186.	0.8	11
28	The influence of computational domain discretization on CFD results concerning aerodynamics of a vehicle. Journal of Applied Mathematics and Computational Mechanics, 2018, 17, 79-88.	0.7	11
29	The influence of distance between vehicles in platoon on aerodynamic parameters. EPJ Web of Conferences, 2018, 180, 02030.	0.3	10
30	Artificial Intelligence and Computational Methods in the Modeling of Complex Systems. Entropy, 2021, 23, 586.	2.2	10
31	Heat transfer in fluidized and fixed beds of adsorption chillers. E3S Web of Conferences, 2019, 128, 01003.	0.5	7
32	The effect of heat exchanger geometry on adsorption chiller performance. Journal of Physics: Conference Series, 2018, 1101, 012037.	0.4	5
33	Polyhedral meshing in numerical analysis of conjugate heat transfer. EPJ Web of Conferences, 2018, 180, 02096.	0.3	5
34	Numerical modelling of flow field within a packed bed of granular material. Journal of Physics: Conference Series, 2018, 1101, 012036.	0.4	4
35	The influence of adsorption chillers on CHP power plants. MATEC Web of Conferences, 2018, 240, 05033.	0.2	4
36	Computational domain discretization for CFD analysis of flow in a granular packed bed. Journal of Theoretical and Applied Mechanics, 2019, 57, 833-842.	0.5	4

#	Article	IF	Citations
37	Using adsorption chillers for utilising waste heat from power plants. Thermal Science, 2019, 23, 1143-1151.	1.1	4
38	Adsorption Desalination and Cooling Systems: Advances in Design, Modeling and Performance. Energies, 2022, 15, 4036.	3.1	4
39	Computational domain discretization in numerical analysis of flow within granular materials. EPJ Web of Conferences, 2018, 180, 02095.	0.3	3
40	EXPERIMENTAL STUDY OF THERMAL EFFECTS IN COOLING OF CIRCULAR CYLINDER IN LOCK-ON CONDITIONS. Advances in Science and Technology Research Journal, 2018, 12, 42-51.	0.8	3
41	Comprehensive Knowledge-Driven AI System for Air Classification Process. Materials, 2022, 15, 45.	2.9	3
42	Progress in design of adsorption refrigeration systems. Evaporators. EPJ Web of Conferences, 2019, 213, 02035.	0.3	1
43	Preparation and Characterization of a Biocomposite Based on Casein and Cellulose. Lecture Notes in Mechanical Engineering, 2021, , 556-564.	0.4	1
44	Computational domain discretization in numerical analysis of flow within granular materials. EPJ Web of Conferences, 2018, 180, 02095.	0.3	1
45	Effect of PVP and Polybond Compatibilizers on Dynamic Properties of Polymer Blends Analyzed with DMTA. Advances in Science and Technology Research Journal, 2018, 12, 36-40.	0.8	1
46	Experimental and numerical analysis of multi-disc heat exchanger efficiency in adsorption chillers powered with waste heat. Journal of Physics: Conference Series, 2019, 1398, 012013.	0.4	0
47	Integration of adsorption chillers with combined cycle gas turbine. E3S Web of Conferences, 2019, 128, 01004.	0.5	0
48	Thermo-Mechanical Properties of Perlite Composite. Lecture Notes in Mechanical Engineering, 2021, , 330-338.	0.4	0
49	Engineering Approach to Modeling of a Sorption Bed of a Single-Stage Adsorption Chiller. DEStech Transactions on Environment Energy and Earth Science, 2017, , .	0.0	0
50	Modern design solutions of cooling systems, as an example of energy efficiency rationing, operational safety and environmental protection. Prace Naukowe Akademii Im Jana DÅ‚ugosza W CzÄ™stochowie Technika Informatyka inÅ¼ynieria BezpieczeÅ„stwa, 2018, 6, 399-407.	0.1	0
51	Computational domain discretization in numerical analysis of forced convective heat transfer within packed beds of granular materials. , 2018, , .		0
52	Simulation of the influence of brake disc geometry of its cooling efficiency. Prace Naukowe Akademii Im Jana DÅ‚ugosza W Częstochowie Edukacja Techniczna I Informatyczna, 2020, 1, 39-52.	0.0	0