

# Karol Sztekler

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

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citations

687220

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docs citations

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times ranked

277  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat Transfer in Adsorption Chillers with Fluidized Beds of Silica Gel, Zeolite, and Carbon Nanotubes. <i>Heat Transfer Engineering</i> , 2022, 43, 172-182.	1.2	15
2	Possibility of Advanced Modified-Silica-Based Porous Materials Utilisation in Water Adsorption Processes—A Comparative Study. <i>Energies</i> , 2022, 15, 368.	1.6	4
3	Intermediate Pyrolysis of Brewer's Spent Grain: Impact of Gas Atmosphere. <i>Energies</i> , 2022, 15, 2491.	1.6	12
4	Testing of Heat Transfer Coefficients and Frictional Losses in Internally Ribbed Tubes and Verification of Results through CFD Modelling. <i>Energies</i> , 2022, 15, 207.	1.6	5
5	Accumulation and Emission of Water Vapor by Silica Gel Enriched with Carbon Nanotubes CNT-Potential Applications in Adsorption Cooling and Desalination Technology. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5644.	1.3	1
6	Novel Combustion Techniques for Clean Energy. <i>Energies</i> , 2022, 15, 4649.	1.6	1
7	Effect of Additives on the Sorption Kinetics of a Silica Gel Bed in Adsorption Chiller. <i>Energies</i> , 2021, 14, 1083.	1.6	14
8	A New Method of Regulating the Cooling Capacity of a Cooling System with CO <sub>2</sub> . <i>Energies</i> , 2021, 14, 1922.	1.6	1
9	Experimental Validation of the Thermal Processes Modeling in a Solar Still. <i>Energies</i> , 2021, 14, 2321.	1.6	4
10	Optimisation of Operation of Adsorption Chiller with Desalination Function. <i>Energies</i> , 2021, 14, 2668.	1.6	12
11	Adsorbents, Working Pairs and Coated Beds for Natural Refrigerants in Adsorption Chillers—State of the Art. <i>Energies</i> , 2021, 14, 4707.	1.6	13
12	Performance Evaluation of a Single-Stage Two-Bed Adsorption Chiller With Desalination Function. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, .	1.4	27
13	The Effects of Using Steam to Preheat the Beds of an Adsorption Chiller with Desalination Function. <i>Energies</i> , 2021, 14, 6454.	1.6	4
14	Effect of Metal Additives in the Bed on the Performance Parameters of an Adsorption Chiller with Desalination Function. <i>Energies</i> , 2021, 14, 7226.	1.6	6
15	CFD Analysis of Elements of an Adsorption Chiller with Desalination Function. <i>Energies</i> , 2021, 14, 7804.	1.6	5
16	Increasing the Performance of an Adsorption Chiller Operating in the Water Desalination Mode. <i>Energies</i> , 2021, 14, 7743.	1.6	4
17	Analysis of Designs of Heat Exchangers Used in Adsorption Chillers. <i>Energies</i> , 2021, 14, 8038.	1.6	7
18	Effect of Metal and Carbon Nanotube Additives on the Thermal Diffusivity of a Silica Gel-Based Adsorption Bed. <i>Energies</i> , 2020, 13, 1391.	1.6	25

#	ARTICLE	IF	CITATIONS
19	The Impact of Heat Exchangersâ€™ Constructions on the Melting and Solidification Time of Phase Change Materials. <i>Energies</i> , 2020, 13, 4840.	1.6	10
20	Experimental Study of Three-Bed Adsorption Chiller with Desalination Function. <i>Energies</i> , 2020, 13, 5827.	1.6	46
21	A Comprehensive, Three-Dimensional Analysis of a Large-Scale, Multi-Fuel, CFB Boiler Burning Coal and Syngas. Part 2. Numerical Simulations of Coal and Syngas Co-Combustion. <i>Entropy</i> , 2020, 22, 856.	1.1	17
22	Modeling of the Chemical Looping Combustion of Hard Coal and Biomass Using Ilmenite as the Oxygen Carrier. <i>Energies</i> , 2020, 13, 5394.	1.6	13
23	A Comprehensive Three-Dimensional Analysis of a Large-Scale Multi-Fuel CFB Boiler Burning Coal and Syngas. Part 1. The CFD Model of a Large-Scale Multi-Fuel CFB Combustion. <i>Entropy</i> , 2020, 22, 964.	1.1	21
24	The Impact of Additives on the Main Properties of Phase Change Materials. <i>Energies</i> , 2020, 13, 3064.	1.6	12
25	Modeling of a Combined Cycle Gas Turbine Integrated with an Adsorption Chiller. <i>Energies</i> , 2020, 13, 515.	1.6	12
26	The Effect of Adhesive Additives on Silica Gel Water Sorption Properties. <i>Entropy</i> , 2020, 22, 327.	1.1	13
27	Adsorption bed configurations for adsorption cooling application. <i>E3S Web of Conferences</i> , 2019, 108, 01010.	0.2	14
28	Heat transfer in fluidized and fixed beds of adsorption chillers. <i>E3S Web of Conferences</i> , 2019, 128, 01003.	0.2	7
29	An adaptive neuro-fuzzy model of a re-heat two-stage adsorption chiller. <i>Thermal Science</i> , 2019, 23, 1053-1063.	0.5	37
30	Using adsorption chillers for utilising waste heat from power plants. <i>Thermal Science</i> , 2019, 23, 1143-1151.	0.5	4
31	Modeling of a re-heat two-stage adsorption chiller by AI approach. <i>MATEC Web of Conferences</i> , 2018, 240, 05014.	0.1	27
32	Analysis of heat transfer in a coated bed of an adsorption chiller. <i>MATEC Web of Conferences</i> , 2018, 240, 01010.	0.1	19
33	The Numerical Comparison of Heat Transfer in a Coated and Fixed Bed of an Adsorption Chiller. <i>Journal of Thermal Science</i> , 2018, 27, 421-426.	0.9	36
34	Implementation of case study method as an effective teaching tool in engineering education. , 2018, , .		3
35	Games as auxiliary tool in teaching of students within energy sector. , 2018, , .		0
36	Analysis of the fins geometry of a hot-side heat exchanger on the performance parameters of a thermoelectric generation system. <i>Applied Thermal Engineering</i> , 2017, 127, 1355-1363.	3.0	32

#	ARTICLE	IF	CITATIONS
37	Oxford-style debate as a tool of engineering learning in the teachers practice. , 2017, , .		0