Dr. Skander Jribi

Assistant Professor

Personal Data:

Nationality | Tunisian
Date of Hire | February 9th, 2024
Date Rank Obtained | March 2011
Department | Mechanical Engineering
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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Energy and Env. Eng.	Thermal Engineering	Kyushu University	Fukuoka, Japan	03-2011
Masters (M.Sc.)	Mechanics and Eng.	Energy Systems	University of Sfax	Sfax, Tunisia	07-2006
Bachelor (B.Sc.)	Electromechanical Eng.	Energy Systems	University of Sfax	Sfax, Tunisia	06-2005

PhD and Master Research Title:

PhD	Performance Investigation of Adsorption Chillers Utilizing Low Global Warming Potential Refrigerants
Master	Study of the Intake System and Conversion of a Diesel Engine of Bus into Gasoline and CNG

Experiences:

Title of Job	Address of Work	Country	Date	
Assistant professor	King Faisal University	Saudi Arabia	From	02-2024
			To	-
Associate professor	University of Carthage	Tunisia	From	09-2022
			To	01-2024
Assistant Professor	University of Gabes	Tunisia	From	09-2016
			To	08-2022
Post-doctoral Fellow	Kyushu University	Japan	From	04-2014
			To	07-2016
Assistant Professor	University of Gabes	Tunisia	From	09-2011
			To	03-2014

Research Interests:

1. CFD simulation
2. Adsorption cooling
3. Physical adsorption
4. Solar energy

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	Saha, B.B., Jribi, S., Koyama, S., El-Sharkawy, I.I.	Carbon dioxide adsorption isotherms on activated carbons	Journal of Chemical and Engineering Data 56 (5), 2011	https://doi.org/10.1021/je100973t
2	**Jribi, S.**, Saha, B.B., Koyama, S., Chakraborty, A., Ng, K.C.	Study on activated carbon/HFO-1234ze(E) based adsorption cooling cycle	Applied Thermal Engineering 50 (2), 2013	https://doi.org/10.1016/j.applthermaleng.2011.11.066
3	**Jribi, S.**, Saha, B.B., Koyama, S., Bentaher, H.	Modeling and simulation of an activated carbon-CO2 four bed based adsorption cooling system	Energy Conversion and Management 78, 2014	https://doi.org/10.1016/j.enconman.2013.06.061
4	Pal, A., Saha, B.B., El-Sharkawy, I.I., **Jribi, S.**, Miyazaki, T., Koyama, S.	Experimental investigation of CO2 adsorption onto a carbon based consolidated composite adsorbent for adsorption cooling application	Applied Thermal Engineering 109, 2016	https://doi.org/10.1016/j.applthermaleng.2016.08.031
5	**Jribi, S.,** Miyazaki, T., Saha, B.B., Koyama, S., Maeda, S., Maruyama, T.	Corrected adsorption rate model of activated carbon–ethanol pair by means of CFD simulation	International Journal of Refrigeration, vol. 71, 2016	https://doi.org/10.1016/j.ijrefrig.2016.08.004
6	**Jribi, S.**, Miyazaki, T., Saha, B.B., Koyama, S., Maeda, S., Maruyama, T.	CFD simulation and experimental validation of ethanol adsorption onto activated carbon packed heat exchanger	International Journal of Refrigeration, vol. 74, 2017	https://doi.org/10.1016/j.ijrefrig.2016.10.019
7	**Jribi, S.**, Miyazaki, T., Saha, B.B., Pal, A., Younes, M., Koyama, S., Maalej, A.	Equilibrium and kinetics of CO2 adsorption onto activated carbon	International Journal of Heat and Mass Transfer, 108, 2017	https://doi.org/10.1016/j.ijheatmasstransfer.2016.12.114
8	Khanam, M.; **Jribi, S.**; Miyazaki, T.; Saha, B.B.; Koyama, S.	Numerical Investigation of Small-Scale Adsorption Cooling System Performance Employing Activated Carbon-Ethanol Pair	Energies 11, 2018	https://doi.org/10.3390/en11061499
9	Drira, Y., Fakhfekh, N., **Jribi, S.**, Bentaher, H., Ben Hassine, I., Ammar, L.,	Performance Investigation of Solar Parabolic Trough Collector Alternatives,	Arabian Journal for Science and Engineering, 2022	https://doi.org/10.1007/s13369-022-07429-6
10	T. Mhedheb, **S. Jribi**, M. Feidt, A. Mhimid,	CFD analysis of adsorption cooling system powered by parabolic trough collector using nanofluid under Tunisia climate,	International Journal on Interactive Design and Manufacturing, 2022	https://doi.org/10.1007/s12008-022-01124-4

Language Proficiency:

1. Arabic
2. English
3. French