Dr. SAYEED RUSHD

Associate Professor

Personal Data:

Nationality | Canadian
Date of Hire | 31st December 2017
Date Rank Obtained | Assistant Professor
Department | Chemical Engineering
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Education:

Academic Degree	Major	specialty	Place of Issue	Address	Date
Doctorate (PhD)	Chemical Engineering	Fluid Mechanics	Edmonton, AB, Canada	116 St & 85 Ave, Edmonton, AB T6G 2R3, Canada	January, 2016
Masters (M.Sc.)	Chemical Engineering	Process Engineering	Edmonton, AB, Canada	116 St & 85 Ave, Edmonton, AB T6G 2R3, Canada	July, 2008
Bachelor (B.Sc.)	Chemical Engineering	Petroleum Engineering	Dhaka, Bangladesh	Dhaka-1000, Bangladesh	December, 2004

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions):

PhD	A new approach to model friction losses in the water-assisted pipeline transportation of heavy oil and bitumen
Master	A capacitance sensor for pipeline flows of oil-water mixtures

Experiences:

Title of Job	Address of Work	Country	Date	
Associate Professor	King Faisal University, Hofuf, Al Ahsa 38219	Saudi Arabia	From	Feb. 2025
			To	Present
Assistant Professor	King Faisal University, Hofuf, Al Ahsa 38219	Saudi Arabia	From	Jan. 2018
			To	Jan. 2025
Postdoctoral Research Associate	Texas A&M University, Education City, Doha	Qatar	From	Apr. 2016
			To	Oct. 2017
Project Engineer	Matrikon Inc., Calgary, AB	Canada	From	Aug. 2008
			To	Apr. 2009

Research Interests:

1. Transport Phenomena
2. Computational Fluid Dynamics
3. Seawater Desalination
4. Artificial Intelligence
5. Sustainable Technology

Publications:

#	Name of author(s)	Title of Publication	Publisher and Date of Publication	Link of Publication
1	**Sayeed Rushd**	System and method for sustainable production of water and salt	U.S. Patent and Trademark Office (U.S. Patent No. 12,115,465B1) October 2024	https://patents.google.com/patent/US12115465B1
2	Chawki Awada, **Sayeed Rushd**, Nagih Shaalan	Device for monitoring internal pipe deposit accumulation	U.S. Patent and Trademark Office (U.S. Patent No. 11,815,351B1) November 2023	https://patents.google.com/patent/US11815351B1
3	Noor Hafsa, **Sayeed Rushd**, Hazzaz Yousuf	Comparative performance of machine-learning and deep-learning algorithms in predicting gas–liquid flow regimes	Processes January 2023	https://doi.org/10.3390/pr11010177
4	Ferroudji, H., Rahman, M.A., Hadjadj, A., Ofei, T.N., Khaled, M.S., **Rushd, S.** and Gajbhiye, R.N.	3D numerical and experimental modelling of multiphase flow through an annular geometry applied for cuttings transport	International Journal of Multiphase Flow June 2022	https://doi.org/10.1016/j.ijmultiphaseflow.2022.104044

5	Hossain, S. S., Ali, S. S., **Rushd, S.**, Ayodele, B. V., & Cheng, C. K.	Interaction effect of process parameters and Pd-electrocatalyst in formic acid electro-oxidation for fuel cell applications: Implementing supervised machine learning algorithms	International Journal of Energy Research January 2022	https://doi.org/10.1002/er.7602
6	**Sayeed Rushd**, Mohammad Tanvir Parvez, Majdi Adel Al-faiad, Mohammed Islam	Towards Optimal Machine Learning Model for Terminal Settling Velocity	Powder Technology July 2021	https://doi.org/10.1016/j.powtec.2021.04.011

Language Proficiency:

1. English
2. Bangla
3. Arabic