

Name: Ibrahim Mustafa

Associate Professor, Department of Chemical and Materials Engineering, King Abdulaziz University

Education

Degree	Field of Study	Institution	Year
PhD	Biochemical Engineering & Systems Biology	Chemical Eng Dept, University of Waterloo, Canada	2010
MS	Biochemical Engineering	Cairo University, Egypt	2002
BS	Chemical Engineering	Minia University, Egypt	1997

Academic Experience

From	To	Institution	Rank	Full or Part Time
1999	2002	Cairo University	Graduate, MSc	Full Time
2000	2005	Helwan University	Assistant Lecturer	Full Time
2006	2010	Waterloo University	Graduate, PhD	
2011	2016	Helwan University	Assistant Professor	Full Time
2016	2022	Helwan University	Associate Professor	Full Time
2018	2020	Waterloo University	Research Associate	Full Time
2020	2021	Maryland University	Research Associate	Full Time

Non Academic Industrial Experience (including Consultations)

From	To	Company/Entity	Title	Position Description	Full or Part Time
2022	2023	Certara	Associate Scientist	Drug Development	Full Time

Certifications and Professional Registrations

None

Current Membership in Professional Societies and Organizations

Society/organization	Rank	Member Since
1. Chemical Engineering Society, Egypt	Member	1997
2. Canadian Society for Chemical Engineering	Member	2008
3. The American Association of Pharmaceutical Scientists (AAPS)	Member	2019
4. American Institute of Chemical Engineers (AIChE)	Member	2020

Honors and Awards

1	Best Track Paper Award – 2019 Third International European Pilsen Conference on Industrial Engineering and Operations Management (IEOM)
2	MITACS-PDF award, Mitacs Elevate Fellowship, 2011, \$110K, for two years. Canadian national award. The research proposal title: “Sustainable Development through the Effective Production and Use of Biofuels and Integrated Bio-Refineries” Granted based on research accomplishments. Doctoral Thesis Completion Award, granted to faculty of engineering (University of Waterloo) students about to complete Ph.D. program with significant research accomplishments, \$5000, (2010)

Services activities (within and outside of the institution)

1.

Principal Publications/Presentations from the Past five Years

1	M. S. Gada, Ashraf Amin, Ibrahim Mustafa, (2022), Empirical model for biodiesel-diesel blending using different processing technologies and feedstock, ARPN Journal of Engineering and Applied Sciences, 17(6), 692-699, 2022
2	M Sayed, AA Mousa, DY Alzahrani, Ibrahim Mustafa, SI El-Bendary; (2020); Bifurcation analysis of a composite cantilever beam via 1: 3 internal resonance; Journal of the Egyptian Mathematical Society 28 (1), 1-21
3	H Hosney, EG Al-Sakkari, A Mustafa, I Ashour, Ibrahim Mustafa, A El-Shibiny, , (2020), A cleaner enzymatic approach for producing non-phthalate plasticiser to replace toxic-based phthalates Clean Technologies and Environmental Policy 22 (1), 73-89
4	M Sayed, AA Mousa Ibrahim Mustafa, (2020), Stability and bifurcation analysis of a buckled beam via active control ; Applied Mathematical Modelling 82, 649-665
5	Asmaa Awad, Ibrahim Mustafa, Hedia Fgaier, Ali Elkamel, Said Elnashaie, (2019), Pharmacokinetic/Pharmacodynamic modeling and simulation of the effect of medications on β -amyloid aggregates and cholinergic neurocycle Computers & Chemical Engineering 126, 231-240
6	Hadeel Hosney , Bassant Nadiem, Ibrahim Ashour, Ibrahim Mustafa, Ayman El-Shibiny, (2018); Epoxidized vegetable oil and bio-based materials as PVC plasticizer, Journal of Applied Polymer Science: 46270- 2018, DOI: 10.1002/APP.46270
7	Ibrahim Mustafa, A Awad, H Fgaier, A Mansur, A Elkamel, (2021), Compartmental modeling and analysis of the effect of β -amyloid on acetylcholine neurocycle via choline leakage hypothesis; Computers & Chemical Engineering 145, 107165
8	AA Mousa, MA El-Shorbagy, Ibrahim Mustafa, H Alotaibi, (2021), Chaotic Search Based Equilibrium Optimizer for Dealing with Nonlinear Programming and Petrochemical Application; Processes 9 (2), 200
9	M. S. Gada, Ashraf Amin, Ibrahim Mustafa, (2021), Experimental study of biodiesel-diesel blending using different processing technologies and feedstock, Journal of Chemical Technology and Metallurgy, 57(4), 686-694, 2022.
10	Mohamed H. Mahmoud; Salman Alamery; Ibrahim Mustafa; Nourelhoda M. Mahmoud; Analyzing Gene Polymorphism and Metal Folic Acid Interactions in Neural Tube Defects Using Optimized Deep Recurrent Neural Networks; Complex & Intelligent Systems.

Recent Professional Development Activities (Workshops, training, etc.)	
	"Course Design Fundamentals" (CTE642) and diploma entitled "Instructional Skills Workshop", from Center of Teaching Excellence, University of Waterloo
	Trained "Course Design Fundamentals" (CTE642) and diploma entitled "Instructional Skills Workshop", from Center of Teaching Excellence, University of Waterloo
	Modeling and Simulation Using MonolixSuite: : Pharmacometrics Spring School, Marach 20-24, 2023
	New and Advanced Features of NONMEM 7 & PDx-Pop workshop; 27-29 May 2022; Virtual Workshop hosted by ICO
	ACCP Workshop on the Principles of Population Pharmacokinetics & Fundamentals of NONMEM® Software for Students, Trainees & Early-stage Professionals Sep 21-22, 2021
	Trained Individual and Population PKPD Modeling and NCA using Phoenix (5 courses at Certara University)