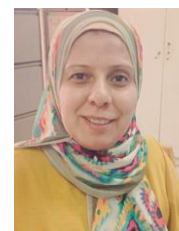


Curriculum Vitae (CV)

Name

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Personal Information:

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Position: Lecturer in the Chemical Engineering Department since September 2016

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Education:

Degree	Discipline	Institution	Year
Ph.D.	Doctor of Philosophy in Chemical Engineering	Cairo University	2015
M.Sc.	Master of Science in Chemical Engineering	Cairo University	2009
B.Sc.	Bachelor of Engineering	Higher Technological Institute	2005

Academic Experience:

Institution: Higher Technological Institute, 10th of Ramadan

Rank: Teaching Assistant

Dates: December 2009 - June 2016

Institution: Higher Technological Institute, 10th of Ramadan

Rank: Researcher

Dates: September 2005 – November 2009

Research interests:

- Process Systems Engineering
- Separation Processes
- Materials and Nanotechnology
- Energy and Environment

Publications:

- Selem N.Y.S., Amin Sh.K., El-Sherbiny S.A., Abadir M.F., “Effect of Fineness of Homra (Clay Brick Dust) on the Properties of Geopolymer Bricks Produced from Slaked Lime”, International Journal of Applied Engineering Research, Vol. 10, No. 3, p.p 6077–6087, 2015.
- Selem, N.Y., Al Hoseny, N.F., El-Zahed, El S. M.H., " Kinetics of Pyrolysis of Cigarette Butts", Journal of Engineering and applied science, Vol.67, No.8, p.p.1981-1993, 2020.
- Han, L., Taha, M.M., Kamalanathan, P. et al. Experimentation and correlation development of mass transfer in a mimicked Fischer–Tropsch slurry bubble column reactor. Heat Mass Transfer 58, 1133–1143 (2022). <https://doi.org/10.1007/s00231-021-03169-9>.
- Zeyad Zeitoun and Nora Yehia Selem, “A comprehensive review on textile wastewater treatment by coupling TiO₂ with PVDF membrane”, Bulletin of the National Research Centre, <https://doi.org/10.1186/s42269-023-01131-9>
- Nora Yehia Selem, “Pyrolysis kinetics of pumpkin seeds”, Journal of Advanced Engineering Trends, Vol. 43, No. 2 July 2024.
- Qusay Al-Obaidi, Nora Yehia Selem, Muthanna H. Al-Dahhan, “Emulsion liquid membrane (ELM) enhanced by nanoparticles and ionic liquid for extracting vanadium ions from wastewater”, Environmental Science and Pollution Research, <https://doi.org/10.1007/s11356-024-34273-y>
- Qusay Al-Obaidi, Dhorgham Skban Ibrahim, M.N. Mohammed, Abbas J. Sultan, Faris H. Al-Ani, Thamer Adnan Abdullah, Oday I. Abdullah, Nora Yehia Selem, “Hydrogen Generation Technology through Electrochemical Water and Industrial Wastewater Electrolysis”, Polish Journal of Chemical Technology, Sep 06, 2024.

- Nora Yehia Selem, El-Shimaa M. El-Zahed, Heba Abdallah, Samah A. Hawash, "Sustainable nanocellulose reinforced polyethersulfone membranes coated with tetraethyl orthosilicate for separation of phosphoric acid from wastewater" Applied Water Science (2025) 15:83. <https://doi.org/10.1007/s13201-025-02411-7>
- O. Karai · N. Y. Selem· K. Benabderazak · J. Mendil· H. Mazouz · M. H. Al-Dahhan, "Emulsion liquid membrane (ELM) technique for efficient separation of heavy metals from acidic solutions including phosphoric acid: a review", International Journal of Environmental Science and Technology <https://doi.org/10.1007/s13762-025-06410-8>
- Uribe, Sebastián, et al. "Local hydrodynamics and phase distribution in large-scale trickle bed reactors using multi-detector γ -ray densitometry." Chemical Engineering Science (2025): 122095. <https://doi.org/10.1016/j.ces.2025.122095>

Certifications or Professional Registrations:

- Process Modeling Using Aspen Plus September 2007.
- Characterization of programs and courses and evaluation of learning outcomes, National Authority for
- Quality Assurance of Teaching and Learning, 8-10 April 2019.
- Smart Education Methods, National TEMPUS Office, 25 July 2019.
- Promoting your research capabilities- the modern knowledge cycle, Research Academy, 6 August 2019
- Exam systems and student assessment for colleges and institutes of higher education. National Authority
- for Quality Assurance of Accreditation of Education, September 2020
- National Authority for Quality Assurance of Accreditation of Education. 4-5 February 2020.
- Teaching strategies for faculties of higher education, National Authority for Quality Assurance of
- Accreditation of Education, 30-31 August 2021.
- Taking your classroom online, DAAD, 28 October 20201
- Fundraising skills and best practices, DAAD, 21 November 2021

- Constructive assessment for learning, DAAD, 1st December 2021
- Emergency and Fire Preparedness, Missouri University of Science and Technology, August 2022
- Fire Extinguisher Safety, Missouri University of Science and Technology, August 2022
- Hazard Communication, Missouri University of Science and Technology, August 2022
- Introduction to radiation safety, Missouri University of Science and Technology, August 2022
- University Laboratory Safety- Analyzing Hazards, Missouri University of Science and Technology, August 2022
- University Laboratory Safety- Developing and Using Controls, Missouri University of Science and Technology, August 2022
- University Laboratory Safety- Working Safely, Missouri University of Science and Technology, August 2022
- International publishing of scientific research, FLDC, Cairo University, Jan 2024.
- University management, FLDC, Cairo University, July 2024.
- Member of the Egyptian Society of Membrane Technology (ESMT), Egypt, since 2023.

Teaching Experience:

Assistant Lecturer in Chemical Engineering Department, Higher Technological Institute, 10th of Ramadan, December 2009 - June 2016

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