



Ahmed Mohamed Abodif Ahmed

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Objective

Accomplished Assistant Professor and PhD in Civil Engineering with over 12 years of experience in higher education and research. Specialized in water and wastewater treatment and sustainable environmental solutions, with a proven track record of publishing in high-impact journals. Seeking to leverage my academic leadership and peer-review expertise to contribute to innovative research and student excellence at a leading university.

Personal Details

- Date of Birth : 10/01/1990
- Nationality : Egyptian

Education

- **Wuhan University of Technology** 2025
PhD in Civil Engineering
3.65
- **Wuhan university of technology** 2019
Master of Civil Engineering
3.6
- **Assiut university** 2014
Preparatory M.Sc. courses, Civil Engineering
88.75%
- **Higher Institute of Engineering and Technology, New Minia, Egypt** 2011
Bachelor of Civil Engineering
3.68

Experience

- **Higher Institute of Engineering and Technology, New Minia, Egypt** Oct 2025 - Present
Assistant professor
As assistant professor in civil engineering department at Higher institute of engineering and technology, New Minia, Egypt. My role focus on teaching courses for undergraduate students mak evaluation and exams as well as contribute to modify courses contents. The teaching courses are :
 - Water and wastewater treatment
 - Water supply and sewage systems
 - Principles of Irrigation and drains
 - Water irrigation system and drains
 - Engineering of water resources
- **Scientific Office for Engineering Consultants, Minya** Jan 2025 - Present
Quality Engineer
Nile view residential compound
 - Conduct daily/regular site inspections and tests to verify compliance with drawings, specifications, and codes.
 - Oversee and witness material testing (concrete, soil, steel) and ensure quality of incoming materials through receiving inspections.
 - Executing daily site inspections and structural tests for a 80+ units development, maintaining a rigorous verification schedule to prevent costly rework.
- **Higher Institute of Engineering and Technology, New Minia, Egypt** July 2019 - Sep 2025
Assistant lecturer
As Assistant Lecturer position in the Civil Engineering Department at the Higher Institute of Engineering and Technology, New Minia, El Minia offers an engaging opportunity to contribute to the education and training of

civil engineering students. This role focuses on supporting the delivery of undergraduate courses, assisting in research activities, and fostering a productive learning environment under the supervision of senior faculty members. It is designed for an individual with a strong academic background in civil engineering and a dedication to student success.

- **Higher Institute of Engineering and Technology, New Minia, Egypt** Oct 2013 - July 2019
Teaching Assistant
Teaching Courses
 1. Civil Drawing
 2. Water and wastewater treatment
 3. Water supply and sewage systems
 4. Principles of Irrigation and Drains
 5. Transportation Engineering
 6. water Irrigation system and drain
 7. Irrigation drawing
- **ATEREA WAGENING UR, NETHERLAND** June 2014 - July 2014
Site Engineer
Field investigation for Upper Egypt village to suggest the best wastewater network system and wastewater treatment plant for this village.
- **Horse Engineering Works Alex** Sep 2011 - April 2012
Site Engineer
Manfalut City sewage project
- **Industrial and Engineering Enterprises CO. (IEEC)** June 2011 - Sep 2011
Practical Training in infrastructure project (wastewater network systems and wastewater treatment plant)
- **Industrial and Engineering Enterprises CO. (IEEC)** June 2010 - Sep 2010
Practical Training in infrastructure project (wastewater network systems and wastewater treatment plant)
- **Industrial and Engineering Enterprises CO. (IEEC)** June 2009 - Sep 2009
Practical Training in infrastructure project (wastewater network systems and wastewater treatment plant)
- **Industrial and Engineering Enterprises CO. (IEEC)** June 2008 - Sep 2008
Practical Training in infrastructure project (wastewater network systems and wastewater treatment plant)

Publications

- Abodif, Ahmed M., Zhang Qian, Li Meng, Jie Peng, Yuwei Ding, Xunhao Liu, Yuanbin Zhang, and Basem E. Keshta. "Unveiling the synergistic role of Co/Fe bimetallic sites in biochar for SPC-driven tetracycline degradation via EAOPs: ROS generation and Ecotoxicity assessment." *Separation and Purification Technology* (2025): 135205.
- Ahmed M. Abodif, Li Meng, Sanjrani MA, Abdelaal S. A. Ahmed, Norville Belvett, Zhan Zhi Wei, and Du Ning. "Mechanisms and Models of Adsorption: TiO₂-Supported Biochar for Removal of 3,4- Dimethylaniline." *ACS Omega*, 2020. 5(23): p. 13630-13640.
- Abodif, Ahmed M., Zhang Qian, Li Meng, Dong Xiaoqian, Xunhao Liu, Li Siwei, and Basem E. Keshta. "Investigating the models and adsorption mechanisms for the removal of tetracycline using Nano zero valent bimetal, accompanied by DFT analysis." (to be submitted)
- Zhong M, Li M, Zhang Q, Abodif AM, Peng H, Xia Z, Zhang Y, Ding Y. "Exploration of oxytetracycline degradation via Co/Fe composites: Advantages of bimetal for the contribution deviation of reactive oxygen species and the corresponding lifetime extension." *Journal of Cleaner Production*. 2022 Nov 24:135219
- Zhong, M., Zhang, Q., Li, M., Abodif, A.M., Ming, T., Fan, Z. and Gao, B. "Biochar as a multifunctional agent for aqueous chromium removal: a critical review of governing mechanisms, targeted syntheses, influencing factors, and practical applications." *Chemical Engineering Journal*, 475 (2023), p.146364.
- Zhang, Y., Li, M., Zhang, Q., Li, Z., Zhong, M., Li, J. and Ahmed M. Abodif, 2023. "Iron phthalocyanine doped carbon-based as a bifunctional material for peroxymonosulfate activation toward Reactive Red 24 degradation: Consolidated adsorption and multiple oxidation." *Journal of Water Process Engineering*, 51, p.103476.
- Sanjrani Manzoor A, Seerat Ul Ain Bhutto, Ahmed M. Abodif, Muneer AS , Sadam Chandio, Xue Gang*(2021). "Removal efficiency of antibiotics from water through constructed wetlands, a review." *Global NEST Journal* 23

(2).

- Noura N. Eltahan, Eida S. Al-Farraj, Ahmed M. Abodif, Anish Khan, Yasmeen G. Abou El-Reash, Hany Koheil, Basem E. Keshta "Recent Advances in Glutaraldehyde-Crosslinked Chitosan for Dye Removal from Wastewater" **Ecotoxicology and Environmental Safety (Accepted)**
- Tehmina Kousar, Yasmeen G. Abou El-Reash, Basem E. Keshta; Qurshia Choudhry, Muhammad Aadil, Mohamed N. Goda, Sahar Abdalla, Abdul Jamali, Muhammad Warsi, Farzana Mahmood, Ahmad Hosseini-Bandegharaei, Ahmed M. Abodif " Synergistic Band Gap Engineering in Graphene-Integrated Tb-Doped CoNiFe₂O₄ Mixed Spinel Ferrites for Supercilious Photocatalytic Performance" **Materials Today Communications (under review)**
- Ahmed M. Abodif, Li Meng, Sanjrani Ahmed, Seerat Ul Ain Bhutto. "Study of Adsorption Kinetics Models for 3,4-Dimethylaniline Removal." **ICCE2021**
- Majid Ali Seelro, M.U.A., Sanjrani Manzoor A*, A.M. Abodif, Sadaf A. "COMPARATIVE STUDY OF GROUND AND SURFACE WATER QUALITY ASSESSMENT USING WATER QUALITY INDEX (WQI) IN MODEL COLONY MALIR, KARACHI, PAKISTAN." **Environmental Contaminants Reviews (ECR), 2020. 3(1): p. 04-12.**
- Bhutto, A.U., Manzoor, S., Bhutto, M.U., & Abodif, A.M. (2020). "Availability of Polycyclic Aromatic Hydrocarbons in Environment and Food Chains: A Review." **Eurasian Journal of Science & Engineering, 6(2), 83-116.**

Research Projects

- **The Open Project of Sanya Science and Education Innovation Park of Wuhan University of Technology (Grant No. 2022KF0005).**
- **Science and Technology Program of Shenzhen (JCYJ20210324122602006).**

Achievements & Awards

- Honor certificate of 2022 of the 2022 Chinese Bridge Delegation program hosted by Wuhan University of Science and Technology from February 8th, 2023 to February 19th, 2023
- Outstanding international student award for the year 2025 by the School of International Education (SIE) at Wuhan University of Technology (WHUT).

Volunteer Scientific Activities

- I have reviewed some papers published in international scientific journals, such as:
 1. Chemical Engineering journal
 2. Chemical Physics Letter
 3. Membrane and Water Treatment
 4. Bioresource Technology
 5. Journal of Water Process Engineering
- Involvement in the technical risk management of interpollutants scientific workshop. The Atomic Energy Authority hosted a presentation titled "Modern Technology: Towards Innovative and Sustainable Solutions." On February 1-2, 2026.
- Participation in scientific conferences:
 1. 2nd International Conference on Civil Engineering (ICCE2021).
 2. 3rd International Conference on Engineering Science and Technology (ICEST 2021)

Activities

- Head of Mafangshan Department, International Culture Exchange Association ICEA in Wuhan University of Technology 2023 - 2025
- Dorm and Country Representative at Wuhan University of Technology 2022 - 2025
- Member of International Culture Exchange Association ICEA in Wuhan University of Technology 2022-2023

Skills

- Auto CAD
- Microsoft office
- Internet
- Water Gems
- Water Hammer
- Sewer Gems

Languages

- Arabic mother language
- English second language
- Chinese language (basic 2)

Reference

- **Li Meng** - School of Civil Engineering and Architecture, Wuhan University of Technology, 430070, Wuhan, China
Professor
limeng189@126.com
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- **Zhang Qian** - School of Civil Engineering and Architecture, Wuhan University of Technology, 430070, Wuhan, China
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- **Mohamed Shamrukh** - Environmental and Water Resources Engineering, Minia university, 61111, El Minya, Egypt
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