

Curriculum Vitae (CV)

**El-Shimaa Mohamed El-Zahed**



**Personal Information:**

**Academic Rank:** Assistant Professor

**Department:** Chemical Engineering

**Specialization:** Rheology

**Position:** Assistant Professor

**ORCID Record:** <https://orcid.org/0000-0002-7289-3579>

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## Education:

| Degree | Discipline           | Institution                          | Year |
|--------|----------------------|--------------------------------------|------|
| Ph.D.  | Chemical Engineering | Cairo University                     | 2018 |
| M.Sc.  | Chemical Engineering | Cairo University                     | 2010 |
| B.Sc.  | Chemical Engineering | Higher Technological Institute (HTI) | 2006 |

## Academic Experience:

### **Institution: Higher Technological Institute (HTI)**

**Rank: Assistant Professor**

**Dates: 2018 till now**

### **Institution: Higher Technological Institute (HTI)**

**Rank: Research Assistant (PhD student)**

**Dates: 2010-2018**

### **Institution: Higher Technological Institute (HTI)**

**Rank: Teaching Assistant**

**Dates: 2006-2010**

## Research interests:

- Rheology
- Heat Transfer
- Pyrolysis
- Wastewater Treatment
- Corrosion

## Publications:

- Nora Yehia Selem, **El-shimaa M.El-zahed**, Heba Abdallah, Samah A. Hawash, “Sustainable Nano Cellulose Reinforced Polyether Sulfone Membranes Coated with Tetraethyl orthosilicate for Separation of Phosphoric Acid from Wastewater”, Applied Water Science, 2025
  - <https://link.springer.com/content/pdf/10.1007/s13201-025-02411-7.pdf>
- N.F.Al Hoseny, M. abdelkreem, Y.Redha, **El-shimaa M.El-zahed**, “Studying Microstructure and Mechanical properties of inhibited Chitosan with Polyurethane Paint ”, 10<sup>th</sup> International Conference (38<sup>th</sup> annual) on "Corrosion Mitigation and Surface Protection Technologies", 2022
- Konouz Zaki1, Marwa S.Shalaby, **El-Shimaa M. El-Zahed**, Hassan Farag, “Membrane based Dairy Wastewater Treatment and Lactose Recovery", 3rd International Conference for Membrane Technology & Its Applications, 2022
- N. Y. SELEM , N. F. AL HOSENY, AND **EL-S. M. H. EL-ZAHED**, “ Kinetics of Pyrolysis of Cigarette Butts", Journal of Engineering and Applied Science ISSN 1110-1903 Volume 67, December-2020 ,pp. 1981-1993
  - <https://www.jeasonline.org/paper/1175/preview>
- **El Zahed El S.M**, Amin Sh.K, Abdel Salam N.F, Barakat F.I, Abadir M.F ,“ Rheological Properties of Waste water from the ceramic tile Industry Treated with Different Coagulants”, European Journal of Scientific Research ISSN 1450-216X / 1450-202X Volume 148, Number 1 (2017) pp. 143-154
  - [http://www.europeanjournalofscientificresearch.com/issues/PDF/EJSR\\_148\\_1\\_08.pdf](http://www.europeanjournalofscientificresearch.com/issues/PDF/EJSR_148_1_08.pdf)

- **El Zahed El S.M**, Amin Sh.K, Abdel Salam N.F, Barakat F.I, Abadir M.F ,“ Settling Characteristics of Wastewater from the Ceramic Tile Industry Treated with Different Coagulants”, International Journal of Scientific & Engineering Research ISSN 2229-5518 Volume 8, Issue 12, December-2017
- [https://www.researchgate.net/publication/329963517\\_Settling\\_Characteristics\\_of\\_astewater\\_from\\_the\\_Cera\\_mic\\_Tile\\_Industry\\_Treated\\_with\\_Different\\_Coagulants](https://www.researchgate.net/publication/329963517_Settling_Characteristics_of_astewater_from_the_Cera_mic_Tile_Industry_Treated_with_Different_Coagulants)
- **El Zahed El S.M**, Amin Sh.K, Abadir M.F ,“ Filtration of ceramic sludge – A case study”, Journal of Engineering and Applied Science ISSN 1110-1903 Volume 65, December-2018, pp.493-503
  - [https://www.researchgate.net/publication/329731983\\_Filtration\\_of\\_ceramic\\_sludge\\_A\\_cae\\_study](https://www.researchgate.net/publication/329731983_Filtration_of_ceramic_sludge_A_cae_study)
- Abadir M. F., El-Zahraa F. A., Ahmed N. S., Kamal R. S., **El-Zahed El-S. M** ,“The Effect of Some Additives on the Rheological Properties of Engine Lubricating Oil”, Journal of Engineering Research and Applications ISSN: 2248-9622, Vol. 4, Issue 7 (Version 6), July 2014, pp.169-183 .

### **Certifications or Professional Registrations:**

- Egyptian Knowledge Bank (EKB) and Searching for Sources, FLDC, 2025
- International Publishing of Scientific Research, FLDC, 2024
- Digital Transformation, FLDG, 2024
- Research Ethics, FLDG, 2024
- Sustainable Development in University Education, FLDC, 2024
- University Management, FLDC, 2024
- Credit Hours and Academic Advising, Training & Development Center, 2023
- First aid awareness, 2022
- Strategic Planning as Core to Strategic Management, DAAD, 2022
- External Reviews for Faculties and Institutes of Higher Education, 2022
- Strategic Planning: Faculties and Institutes of Higher Education, 2022
- Fundraising Skills and Best Practices, DAAD, 2021
- Teaching strategies for faculties and institutes of higher education, 2021
- Description of programs and courses for faculties and institutes of higher education, 2021
- Program Self-Evaluation: Faculties and Institutes of Higher Education, 2021
- Maharat min Google: Fundamentals of Digital Marketing, 2020

- National Authority for Quality Assurance and Accreditation of Education: Exams and students' Assessment Systems: Faculties and Institutes of Higher Education, 2020
- Researcher Academy on Campus: Promoting your research capabilities – The modern knowledge cycle, 2019
- Process Modeling Using Aspen Plus September 2007

### Teaching Experience:

Higher Technological Institute (HTI), 10th of Ramadan City, Egypt (2006- till now)

### Courses taught

- Helping in teaching the following courses:
  - Heat Transfer
  - Preparatory Chemistry Lab
  - Plant Design and Process
  - Automatic Control
  - Material Technology
  - Basic Principles and Calculations in Chemical Engineering
  - Fluid mechanics
  - Polymer Chemistry
  - Engineering Chemistry
  - Bachelor Project

