

Dr. Hesham Hassan Abd El-Aziz El-Feky

Associate professor of Analytical chemistry

Faculty of science

Benha University

Curriculum Vitae @ 2024

Hesham Hassan Abd El-Aziz El-Feky

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Personal information

Date of Birth: March 26, 1989

Place of Birth: Qalyubia, Egypt

Nationality: Egyptian

Marital Status: Married

Education

2010: B.Sc. in Chemistry – Benha Fac. of Science, Benha University, Egypt. The Second of my group with a general grade (excellent with Honor's grade) as average of the four years.

2011: Premaster in Inorganic and Analytical chemistry Benha Fac. of Science, Egypt.

2013: Master's degree in Analytical Chemistry.

-Title: **Synthesis, Characterization and Utilization of New Organic Reagents for Micro Determination of Some Transition Metals Using Spectrophotometric Techniques**

2018: Ph.D degree in Analytical Chemistry.

- Title: **Analytical and applicable studies on some oxides-polymer nanocomposites**

*** Languages:**

- Native speaker of Arabic
- Fluent in English
- Institutional TOEFL test with score (642 degree), 2011 from Benha Univ.

***Computer scales:**

- Web publishing using Front Page
- Using technology in classrooms
- Photoshop
- Word processing and Excel

Professional experience

2024-present: Associate Professor of Analytical chemistry, Department of Chemistry, Benha Fac. of Science, Benha University, Egypt.

2018-2024: Lecturer of Analytical chemistry, Department of Chemistry, Benha Fac. of Science, Benha University, Egypt.

2013- 2018: Assistant Lecturer of Analytical chemistry, Department of Chemistry, Benha Fac. of Science, Benha University, Egypt.

2011-2013: Demonstrator of Analytical chemistry, Department of Chemistry, Benha Fac. of Science, Benha University, Egypt.

Work Experience

- Teaching practical of Analytical chemistry and theoretical courses of inorganic and analytical chemistry.
- Participation in Preparation of Practical and theoretical Courses for undergraduate

Research Interests

- Analytical Chemistry.
- Different Spectrophotometric determination methods of heavy metals, Drugs, and dyes.
- Water treatment using natural and chemical sorbents.
- Inorganic preparation of complexes with its application in life.
- Optical chemical sensors (Optodes)

Phd/MSc Supervision

Supervision Experience:-

- 1- Co-supervised MSc student in chemistry on research project in Analytical Chemistry
- 2- Co-supervised PhD student in Analytical chemistry.
- 3- Mentored undergraduate student research projects in Chemistry.

The Interested courses

- Principles of general Chemistry,
- Principles of Inorganic Chemistry,
- Separation techniques in analytical chemistry,
- Chemistry of paper
- Chromatography
- Solvent extraction
- Data handling,
- Water treatment and water analysis,
- Applied inorganic chemistry
- Principles of analytical Chemistry
- Introduction to chemistry of transition elements,
- Instrumental Analysis
- Analytical chemistry (Volumetric and gravimetric analysis).

Training Courses

- Effective Presentation, 3-5/9/2013, Benha University
- Self-evaluation and final review, 27-28/11/2022, Benha University
- Website management, 29-30/11/2022, Benha University
- Question banks and electronic tests, 30-31/1/2023, Benha University
- Credit hour systems, 9-10/10/2023, Benha university

As a reviewer in

- 1- Journal of Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy
- 2- Journal of Scientific Reports
- 3- Journal of Fluorescence
- 4- Journal of Talanta Open
- 5- Journal of Angiology and Circulatory System (JACS)
- 6- Egyptian journal of chemistry
- 7- Benha Journal of Applied Sciences
- 8- Asian journal of chemical sciences

Conferences

- 1- The third scientific conference (Applied Sciences and Climate Change Challenges Conference 8-9/10/2022. Faculty of science, Benha university, Egypt.
- 2- International masterclasses hands on particle physics, Benha university-Obour Campus 23-24/3/2021. Faculty of science, Benha university, Egypt.
- 3- Scientific excellent day- Benha university 7/2021
- 4- Scientific excellent day- Benha university 7/2022

Publications

1. Abd El-Mouhsen, Ramy R., Gamal O. El-Sayed, **Hesham H. El-Feky**, Mostafa MH Khalil, and Islam M. El-Sewify. "Magnetized cubic zinc MOFs for efficient removal of hazardous cationic and anionic dyes in aqueous solutions." *RSC advances* 14, no. 27 (2024): 19322-19330. <https://doi.org/10.1039/D4RA02453B>
2. Hassan, Abeer ME, **Hesham H. El-Feky**, Alaa S. Amin, Hany A. Batakoushy, and Mohamed A. El Hamd. "Innovative assembled optode device for enhanced in-situ ceric ions (Ce⁴⁺) evaluation and preconcentration in its real human, foods, water, and alloy samples." *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 316 (2024): 124314. <https://doi.org/10.1016/j.saa.2024.124314>
3. Nassar, Mostafa Y., Fatma A. Shaker, G. O. El-Sayed, Emad M. Masoud, Mohamed SS Adam, Ahmed Khalil, Nahed M. Rashed, Gamal Abdelaziz, **and Hesham H. El-Feky**. "Synthesis and Characterization of Lemon Leaf Extract-Mediated Silver Nanoparticles: An Environmentally Friendly Approach with Enhanced Antibacterial Efficacy." *Journal of Molecular Structure* (2024): 138753. <https://doi.org/10.1016/j.molstruc.2024.138753>

4. Aish, Mai, Reem F. Alshehri, Alaa S. Amin, and **Hesham H. El-Feky**. "Optimization and evaluation of ultra-trace amounts lead in real samples using sol–gel based optical sensor coupled with colorimetry." *Talanta Open* (2023): 100253. <https://doi.org/10.1016/j.talo.2023.100253>
5. Alshehri, Reem F., **Hesham H. El-Feky**, Abdelrazek M. Askar, Alaa S. Amin, and Mai Aish. "Utilization of a novel PVC-optical sensor for high sensitive and selective determination of zinc ion in real samples." *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 305 (2024): 123424. <https://doi.org/10.1016/j.saa.2023.123424>
6. El-Hadary, El-Hadary A., **Hesham H. El-Feky**, Amjad El-Qanni, Ibrahim M. Nassar, and Mostafa Y. Nassar. "CdO Nanostructures: Synthesis, Characterization, and Photocatalytic Degradation of Malachite Green Dye in Aqueous Media." *Asian Journal of Chemical Sciences* 13, no. 1 (2023): 24-36. <https://journalajocs.com/index.php/AJOCS/article/view/230>.
7. Mohammed A. Kassem and **Hesham H. El-Feky**, "The Impact of Ultrasonication on SDS-stabilized Silver Nanoparticles as a Probe for Trace Determination of Diaveridine." *Plasmonics* 18.1 (2023): 395-405. <https://doi.org/10.1007/s11468-022-01765-x>
8. **Hesham H. El-Feky**, Mohamed S. Behiry, Alaa S. Amin and Mostafa Y. Nassar, "Facile fabrication of nano-sized SiO₂ by an improved sol–gel route: as an adsorbent for enhanced removal of Cd (II) and Pb (II) ions." *Journal of Inorganic and Organometallic Polymers and Materials* 32.3 (2022): 1129-1141. <https://doi.org/10.1007/s10904-021-02214-8>
9. Alaa S. Amin, Salah M. El-Bahy and **Hesham H. El-Feky**, "Utility of 5-(2', 4'-dimethylphenylazo)-6-hydroxy-pyrimidine-2, 4-dione in PVC membrane for a novel green optical chemical sensor to detect zinc ion in environmental samples." *Analytical Biochemistry* 643 (2022): 114579. <https://doi.org/10.1016/j.ab.2022.114579>
10. **Hesham H. El-Feky**, Alaa S. Amin and Eslam M. I. Moustafa, "Utilization of a plasticized PVC optical sensor for the selective and efficient detection of cobalt (ii) in environmental samples." *RSC advances* 12.29 (2022): 18431-18440. <https://pubs.rsc.org/en/content/articlehtml/2022/ra/d2ra03129a>
11. **Hesham H. El-Feky**, Salah El-Bahy and Alaa S. Amin, "Sensitive optical thin film sensor based on incorporation of 2-(2'-hydroxynaphthylazo)-benzothiazole in a sol–gel matrix

- for detection of manganese (II) in environmental samples." *Analytical Biochemistry* 651 (2022): 114720. <https://doi.org/10.1016/j.ab.2022.114720>
12. Ehab A. Abdelrahman, R.M. Hegazey, Sameh H. Ismail, **Hesham H. El-Feky**, Abdalla M. Khedr, M. Khairy and Alaa M. Ammar, "Facile synthesis and characterization of β -cobalt hydroxide/hydrohausmannite/ramsdellite/spertiniite and tenorite/cobalt manganese oxide/manganese oxide as novel nanocomposites for efficient photocatalytic degradation of methylene blue dye." *Arabian Journal of Chemistry* 15.12 (2022): 104372 <https://doi.org/10.1016/j.arabjc.2022.104372>
13. **Hesham H. El-Feky**, Abdelrazek M. Askar and Alaa S. Amin, "Quantification of silver in several samples using a new ionophore polymer membrane as an optical sensor." *RSC advances* 11.56 (2021): 35300-35310. <https://doi.org/10.1039/D1RA06660A>
14. Bahaa Elgendy, M. M. Azab, Marwa Gamil, and **Hesham H. El-Feky**, "Enhancement for the fluorescent properties of new synthesized GFPs chromophore." *Egyptian Journal of Chemistry* 64.7 (2021): 3717-3727 https://ejchem.journals.ekb.eg/article_164891.html
15. **Hesham H. El-Feky**, Salah M. El-Bahy, Abeer M.E. Hassan and Alaa S. Amin, "Utility of a novel optical sensor design for ultra-trace detection of chromium colorimetrically in real environmental samples." *International Journal of Environmental Analytical Chemistry* (2021): 1-18. <https://doi.org/10.1080/03067319.2021.1921759>
16. El-Hadary A. El-Hadary, **Hesham H. El-Feky**, Amjad El-Qanni, Ibrahim M. Nassar and Mostafa Y. Nassar, "CdO Nanostructures: Synthesis, Characterization, and Photocatalytic Degradation of Malachite Green Dye in Aqueous Media." *Asian Journal of Chemical Sciences* 13.1 (2023): 24-36. <https://doi.org/10.9734/ajocs/2023/v13i1230>
17. Alaa S. Amin, **Hesham H. El-Feky** and Nader Hassan, "A novel sensor for the selective monitoring of trace ytterbium ions using an agarose-based optical membrane." *RSC advances* 12.41 (2022): 26620-26629. <https://doi.org/10.1039/D2RA03947H>
18. M. S. Mohammed, **Hesham H. El-Feky**, T. Y. Mohammed and S. A. Shama, "Spectrophotometric determination of Ciprofloxacin Hydrochloride, Moxifloxacin Hydrochloride and Roxithromycin Hydrochloride in Pure Form." *Asian Journal of Chemical Sciences* 12.1 (2022): 45-53 <https://doi.org/10.9734/ajocs/2022/v12i119139>

19. **Hesham H. El-Feky**, G.O. El-Sayed and R.R. Shalabi, "Removal of Acid Blue 342 from Aqueous Solution by Fe₂O₃/Fe₃O₄ Magnetic Nanocomposite." *Benha Journal of Applied Sciences* 6.6 (2021): 107-118. https://bjas.journals.ekb.eg/article_214380.html
20. **Hesham H. El-Feky**, Reham N. Nassar, Alaa S. Amin and Mostafa Y. Nassar, "Removal of Malachite Green Dye from Aqueous Solutions by an Efficient Nanosized NiO Fabricated by a Facile Sol-Gel Autocombustion." *Asian Journal of Chemical Sciences* 10.2 (2021): 41-51. <https://doi.org/10.9734/ajocs/2021/v10i219090>

يعتمد ،،

عميد الكلية

رئيس مجلس قسم الكيمياء

أ.د/محمد هيكل

أ.د/ وجدى ابراهيم الدجج