

CURRICULUM VITAE

PERSONAL DATA

Name	Fatehy Mohamed Abdel-Haleem Mohamed
Nationality	Egyptian
Position	Assistant professor
E-Mail	FMMohamed@imamu.esu.sa
Phone	0542680399

EDUCATION

Year	Academic Degree	Institution
2004	Bachelor of Science	Cairo University
2009	Master of Science (M. Sc.)	Cairo University
2014	Philosophy Doctorate (ph.D.)	Cairo University

WORK EXPERIENCE

Period	Position	Address
2004-2009	Instructor	Chemistry department, faculty of science, Cairo University
2009-2014	Ass. lecturer	Chemistry department, faculty of science, Cairo University
2014-2019	Lecturer	Chemistry department, faculty of science, Cairo University
2019-now	Ass. professor	Chemistry department, faculty of science, Cairo University
2018-2024	Chemistry Lab Technical Manager	Center for Hazards mitigation, environmental studies and research (CHMESR), Cairo University
2022-now	Environmental Consultant in measurement	Egyptian Environmental Affair Agency (EAA), ministry of Environment, Egypt.

RESEARCH INTERESTS

Working with different instruments including:

- Environmental analytical chemistry (water and air pollution, soil pollution, water and wastewater treatment, environmental sampling and measurement)
- (FTIR, fluorimeters, spectrophotometers, potentiostat-galvanostat, screen-printing machine, pH-meters and conductometers).
- have excellent experience in ion-selective electrodes (PVC, carbon paste, screen-printed, coated wires, and other types of electrodes), and Ion-selective bulk optodes.
- Nano-structured electrodes.
- Microsphere and nanosphere-based optodes.
- Preparation and application of Molecularly-imprinted polymer.
- preparation of Schiff bases and its metal complexes.
- Potentiometry and Cyclic voltammetry.

PUBLICATIONS

- 1- **Highly Selective Thiourea-Based Bulk Optode for Determination of Salicylate in Spiked Urine Samples, Aspirin® and Aspidol®**, F.M. Abdel-Haleem, Sensors and Actuators B Chemical, **233**, 2016, 257-262.
- 2- **Calixarene-Based Bulk Optode for Determination of Salicylate in pharmaceutical preparations**, F.M. Abdel-Haleem, Rasha M. El Nashar, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy, 2018, 201, 98-104.
- 3- **Optical microspheres for micromolar determination of salicylate in its pharmaceutical formulations**, F.M. Abdel-Haleem, El-sayed Zahran, Talanta 196 (2019) 436–441.
- 4- **Carbon-based Nanosensors for Salicylate Determination in Pharmaceutical Preparations**, Fatehy M Abdel-Haleem, Azza Salah, Mahmoud S Rizk, Hussein Moustafa, Mikhael Bechelany, Ahmed Barhoum, Electroanalysis 31(4), (2019) 778-789.
- 5- **Molecularly Imprinted Polymer-Based Potentiometric Biosensor for Nanomolar Determination of Pioglitazone Hydrochloride in Pharmaceutical Formulations**, M El-Beshlawy, FM Abdel-Haleem, A Barhoum, Electroanalysis 33 (5), (2021),1244-1254.
- 6- **Ultrafast response humidity sensors based on polyvinyl chloride/graphene oxide nanocomposites for intelligent food packaging**, H Moustafa, M Morsy, MA Ateia, FM Abdel-Haleem, Sensors and Actuators A: Physical, (2021), 112918.
- 7- **Molecularly-imprinted polymer-base bulk optode for the determination of ivabradine hydrochloride in Procoralan®**, Fatehy M. Abdel-Haleem, M.S. Rizk, M.M. El-Beshlawy, RSC advances 12 (27), 2022, 17645-17654
- 8- **Dibenzo-18-crown-6-based carbon paste sensors for the nanomolar potentiometric determination of daclatasvir dihydrochloride: An anti-HCV drug and a potential candidate for treatment of SARS-CoV-2**, Yomna M. Ahmed, S.S. Badawy, Fatehy M. Abdel-Haleem, Microchemical Journal 177, 2022,

107276.

- 9- Current trends in COVID-19 diagnosis and its new variants in physiological fluids: Surface antigens, antibodies, nucleic acids, and RNA sequencing, Menna Mostafa, Ahmed Barhoum, Ekin Sehit, Hossam Gewaid, Eslam Mostafa, Mohamed M Omran, Mohga S Abdalla, [Fatehy M Abdel-Haleem](#), Zeynep Altintas, Robert J Forster, *TrAC Trends in Analytical Chemistry*, 157, 2022, 116750.
- 10- Nanoparticle and Nanostructure Synthesis and Controlled Growth Methods, Vancha Harish, Md Mustafiz Ansari, Devesh Tewari, Manish Gaur, Awadh Bihari Yadav, María-Luisa García-Betancourt, [Fatehy M Abdel-Haleem](#), Mikhael Bechelany, Ahmed Barhoum, *Nanomaterials* 12 (18), 2022, 3226.
- 11- Non-Enzymatic Phenylboronic Acid-Based Optode Membrane for Glucose Monitoring in Serums of Diabetic Patients and in the Culture Medium of Human Embryos, M.M. Taha, M.S. Rizk, M.A. Zayed, [Fatehy M. Abdel-Haleem](#), A Barhoum, *Sensors* 22 (19), 2022, 7135.
- 12- Greywater Treatment for Safe Recycling via Hybrid Constructed Wetlands and sludge Evaluation, H.M. Ahmed, H.I. Abdel-Shafy, M. El-Khateeb, M.M. Hefny, [Fatehy M. Abdel-Haleem](#), *Egyptian Journal of Chemistry* 65 (13), 2022.
- 13- Nanocelluloses as new generation materials: natural resources, structure-related properties, engineering nanostructures, and technical challenges, Ahmed Barhoum, Vibhore K Rastogi, Bhupender K Mahur, Amit Rastogi, [Fatehy M Abdel-Haleem](#), Pieter Samyn, *Materials Today Chemistry* 26, 2022, 101247.
- 14- Screen-Printed Sensors Coated with Polyaniline/Molecularly Imprinted Polymer Membranes for the Potentiometric Determination of 2,4-Dichlorophenoxyacetic Acid Herbicide in Wastewater and Agricultural Soil, M.M. El-Beshlawy, [Fatehy M. Abdel-Haleem](#), A.H. Kamel, A Barhoum, *Chemosensors* 11 (1), 2022, 3.
- 15- Modern designs of electrochemical sensor platforms for environmental analyses: Principles, nanofabrication opportunities, and challenges, A. Barhoum, S Hamimed, H Slimi, A Othmani, [Fatehy M. Abdel-Haleem](#), *Trends in Environmental Analytical Chemistry*, 38, 2023, e00199.
- 16- Green Synthesis of Magnetite Nanoparticles Using Waste Natural Materials and Its Application for Wastewater Treatment, HM Ahmed, M. A. El-khateeb, N.A. Sobhy, M.M. Hefny, [Fatehy M. Abdel-Haleem](#), *Environmental Sciences Proceedings* 25 (1), 2023, 99.