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CIRCULUM VIATE

Name: Mervat Farag Zayed

Date of Birth: 3/11/1973

Faculty: Science

University: El-Menoufia

Position: Professor

Field of specialization: Chemistry

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Education

- From 2003 to 2009** Ph.D. degree in Organic Chemistry, Chemistry Dept, Faculty of Science, El-Menoufia University, Shebin El-Kom, Egypt.
- From 1997 to 2003** M.Sc. degree in Organic Chemistry, Chemistry Dept, Faculty of Science, El-Menoufia University, Shebin El-Kom, Egypt.
- From 1992 to 1996** B.Sc. Degree in Chemistry (Very Good / Hon's), graduated from Chemistry Dept, Faculty of Science, El-Menoufia University, Shebin El-Kom, Egypt.

Employment

- 2023 till now** Professor, Faculty of Science, El-Menoufia University, Egypt.
- 2016 till 2023** Assistant professor, Faculty of Science, El-Menoufia University, Egypt.
- 2009- 2016** Lecturer, Faculty of Science, El-Menoufia University, Egypt.
- 2003-2009** Assistant Lecturer, Faculty of Science, El-Menoufia University, Egypt
- 1999-2003** Demonstrator, Faculty of Science, El-Menoufia University, Egypt

Research area and experiences:

1. Green synthesis of metal nanoparticles using natural products.
2. Characterization of nanoparticles using molecular spectroscopy including; UV, IR, TEM, SEM, EDX, XRD, XPS, DLS and atomic force.
3. Application of green synthesized metal nanoparticles in water treatments as catalysts.
4. Phytoremediation of water using plant extracts and plant/polymer composites.
5. Isolation and purification of bioactive natural products using chromatographic techniques.
6. Characterization of the isolated compounds using spectroscopic analysis including: Infra-red, Mass Spectra, ¹H NMR, ¹³C NMR, DEPT, ¹H-¹H COSY, TOCSY, NOESY, HMBC and HSQC.
7. Qualitative and quantitative analysis of plant metabolites.
8. Bioassay tests including; anti-microbial, cytotoxicity and antioxidant tests.

Training courses

1. Organization of scientific conferences, May 2008. at "International faculty and leadership development centre", El-Menoufia University.
2. International and local research projects, June 2008 at "International faculty and leadership development centre", El-Menoufia University.
3. Management of the research team, January 2009 at "International faculty and leadership development centre", El-Menoufia University.
4. Legal and financial issues in the university, February 2009 at "International faculty and leadership development centre", El-Menoufia University.
5. Credit hour's system, February 2009 at "International faculty and leadership development centre", El-Menoufia University.
6. Ethics and conducts of the profession, Augst 2009 at "International faculty and leadership development centre", El-Menoufia University.
7. Quality standards in the teaching process, Jun 2015 at "International faculty and leadership development centre", El-Menoufia University.
8. Human resources management, Jun 2015 at "International faculty and leadership development centre", El-Menoufia University.
9. Using global databases, October 2016 at "International faculty and leadership development centre", El-Menoufia University.
10. Lifelong learning, October 2016 at "International faculty and leadership development centre", El-Menoufia University.

11. Time and meeting management, April 2019 at "International faculty and leadership development centre", El-Menoufia University.
12. Crisis management, April 2023 at "International faculty and leadership development centre", El-Menoufia University.
13. University administration, April 2023 at "International faculty and leadership development centre", El-Menoufia University.
14. Program and course specification, May 2023 at "International faculty and leadership development centre", El-Menoufia University.
15. Qualification for Dean's Position, May 2024 at "International faculty and leadership development centre", El-Menoufia University.

Scientific conferences and workshops

- Attending the following:

No.	Name of conference/workshop	Place	Date
1.	9 th National conference of human performance in Health and Disability Chronic Occupational & Environmental Respiratory Diseases and Human Performance - Nano Technology	Cairo	20013
2.	5 th International conference on Advances in chemistry and applied chemistry.	Cairo	20014
3.	5 th National conference on optical spectroscopy, laser and their applications	Cairo	20014
4.	دور التكنولوجيا الحيوية فى التنمية الاقتصادية فى مصر - ورشة عمل	Cairo	20014
5.	The recent development in spectroscopy- Science Café in national Research Centre	Cairo	20014
6.	Science Café of JSPS Alumni Association in Egypt	Cairo	20014
7.	Egypt-Japan multidisciplinary science forum, "Beyond the border"	Helwan	2017
8.	"The Applications of Molecular Modeling" - Workshop	National research centre	2017
9.	International conference of JSPS "Innovations and New Challenges".	Al-Azhar University	2018
10	Egypt-Japan multidisciplinary science forum -	Alexandria	2019

“Sustainability in Scientific Research”

- 11 Egypt-Japan multidisciplinary science forum- “Natural Products and Discovery of New Drugs and Agrochemicals” Alexandria Library 2020

Teaching courses

Experience in teaching the following courses:

- Under-graduate courses:

Natural Products Chemistry
Environmental Chemistry
Principles of Organic Chemistry
Spectroscopy
Chromatography
Applications of Chromatography
Medicinal Chemistry
Aliphatic Chemistry
Aromatic Chemistry
Chemistry of Detergents

- Post-graduate courses:

Natural Products Chemistry
Electroorganic chemistry

List of publication

1. H. R. El-Seedi, M. F. Zayed, F. G. Morono and K. B. Torrsell (1999) Triterpenes from *Gustavia longifolia*. *Rev. Latinoamer. Quim.* **27**, 56-57.
2. H. R. El-Seedi, D. M. El-Ghorab, M. A. El-Barbary, M. F. Zayed, U. Goransson, S. Larsson and, R. Verpoorte (2009) Naturally Occurring Xanthones; Latest Investigations: Isolation, Structure Elucidation and Chemosystematic Significance. *Current Medicinal Chemistry* **16**, 2581-2626.
3. H. R. El-Seedi, M. F. Zayed, S. Roshdy, M. Salem, M. Hawata, F. El-Essawy, M. El-Barbary and S. El-Kousy (2010) Analysis of the essential oil from the aerial parts of *Psoralea pubescence* (Miq.) Standl and its antibacterial activity. *Medicinal Chemistry Research* **19**, 1036.

4. H. R. El-Seedi, R. El-Shabasy, H. Sakr, M. F. Zayed, A. El-Said, A.H. Gaara, Z. Turki, M. Azeem, L. Boulos, A. Borg-Karlson and U. Göransson (2012) Anti-Schistosomiasis Triterpene Glycoside from the Egyptian Medicinal Plant *Asparagus stipularis*. *Revista Brasileira de Farmacognosia* **22**, 314-318.
5. Mervat F. Zayed, Wael H. Eisa, A.A. Shabaka (2012) *Malva parviflora* extract assisted green synthesis of silver nanoparticles. *Spectrochimica Acta A* **98**, 423-428.
6. Mervat F. Zayed, Wael H. Eisa (2014) *Phoenix dactylifera* L. leaf extract phytosynthesized gold nanoparticles; controlled synthesis and catalytic activity. *Spectrochimica Acta A* **121**, 238-244.
7. Wael H. Eisa, Mervat F. Zayed, Yasser K. Abdel-Moneam, Amira M. Abou Zeid (2014) Water-soluble gold/polyaniline core/shell nanocomposite: Synthesis and characterization. *Synthetic Metals* **195**, 23-28.
8. Mervat F. Zayed, Wael H. Eisa, Yasser K. Abdel-Moneam, Salah M. El-kousy, Ahmed Atia (2015) *Ziziphus spina-christi* based bio-synthesis of Ag nanoparticles. *Journal of Industrial and Engineering Chemistry* **23**, 50-56.
9. Mervat F. Zayed, Wael H. Eisa, B. Anis (2016) Removal of methylene blue using *Phoenix dactylifera*/PVA composite; an eco-friendly adsorbent. *Desalination and Water Treatment* **57**, 18861-18867.
10. Mervat F. Zayed, Wael H. Eisa, A. M. Hezma, (2017) Spectroscopic and antibacterial studies of anisotropic gold nanoparticles synthesized using *Malva parviflora*. *Journal of applied spectroscopy* **83**, 1046-1050.
11. Mervat F. Zayed, Wael H. Eisa, Salah M. El-kousy, Walaa K. Mleha, Nermeen Kamal (2019) *Ficus retusa*-stabilized gold and silver nanoparticles: Controlled synthesis, spectroscopic characterization, and sensing properties. *Spectrochimica Acta A* **214**, 496.
12. Wael H. Eisa, Mervat F. Zayed, Badawi Anis, Lamyaa M. Abbas, Safaa S.M. Ali, Ayman M. Mostafa (2019) Clean production of powdery silver nanoparticles using *Zingiber officinale*: The structural and catalytic properties. *Journal of Cleaner Production* **241**, 118398.
13. Mervat F. Zayed, Ranaa A. Mahfoze, Salah M. El-kousy, Emad A. Al-Ashkar (2020) *In-vitro* antioxidant and antimicrobial activities of metal nanoparticles biosynthesized using optimized *Pimpinella anisum* extract. *Colloids and Surfaces A* **585**, 124167.
14. Mervat F. Zayed, Wael H. Eisa, Abd ElHameed M. Hosam, Amira M. Abou Zeid (2020) Spectroscopic investigation of chitosan-supported Cu₂O/CuO nanocomposite; a separable catalyst for water-pollutants degradation. *Journal of Alloys and Compounds* **839**, 155727.
15. Mervat F. Zayed, Wael H. Eisa, Badawi Anis (2021) Gallic acid-assisted growth of cuprous oxide within polyvinyl alcohol; a separable catalyst for oxidative and reductive degradation of water pollutants. *Journal of Cleaner Production* **279**, 123826.

16. Mervat F. Zayed, O.M. Shalby, W.H. Eisa, S.M. El-Kousy, A.M. Eltorgoman (2022) Controlled synthesis, spectral studies, and catalytic activity of silver and gold nanoparticles biosynthesized using *Ficus sycomorus* leaf extract. *Journal of applied spectroscopy* **89**, 288.
17. Mervat F. Zayed, Wael H. Eisa, Badawi Anis (2022) Garlic peel as promising low-cost support for the cobalt nanocatalyst; synthesis and catalytic studies. *Journal of Environmental Management* **312**, 114919.
18. Mervat F. Zayed, W. El hotaby, Wael H. Eisa (2023) *Glycyrrhiza glabra* bio-inspire the growth of monodispersed iron oxalate nanoparticles: A sustainable catalyst for dyes degradation. *Journal of Cleaner Production* **383**, 135484.
19. Eman Abdelaziz, Nehal M El-Deeb, Mervat F Zayed, Asmaa Mohammed Hasanein, Ibrahim El-T El Sayed, Elshaymaa I Elmongy, Elbadawy A Kamoun (2023) Synthesis and in-vitro anti-proliferative with antimicrobial activity of new coumarin containing heterocycles hybrids. *Scientific Reports* 13, 2279.
20. Mervat F Zayed, Yasser K Abdel-Monem, Abeer A Arafa, Wael H Eisa (2024) Mass production of morin-stabilized silver nanoparticles: Characterization, antioxidant, and antimicrobial activities. *Microscopy Research and Technique* 87, 149.
21. Asmaa M Abozied, A Abouelsayed, Badawi Anis, Mervat F Zayed, Wael H Eisa, Abdelrazek B Abdelrazzak (2024) *Thymus vulgaris*-assisted growth of nickel nanoparticles onto Luffa fibers: A robust and recyclable catalyst for the reduction of organic pollutants. *Materials Today Sustainability* 27, 100814.