



Mohamed Adel Sayed

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WORK EXPERIENCE

17/03/2021 – CURRENT Beni-Suef, Egypt

Higher education teaching assistant Beni-Suef University

participate in the teaching of Chemistry courses

10/07/2017 – CURRENT Beni-Suef, Egypt

University research assistant Material technologies and thier applications lab

Peer-reviewed Publications

(1) **Sayed, M.A.**, Mohamed, A., Ahmed, S.A., El-Sherbeeney, A.M., Al Zoubi, W. and Abukhadra, M.R., 2024. Enhanced photocatalytic degradation of Congo red dye into safe end-products over ZnO@ **polyaniline**/coal composite as low cost catalyst under visible light: pathways and ecotoxicity. *Journal of Photochemistry and Photobiology A: Chemistry*, p.115843.

(2) **M.A. Sayed**, A. Mohamed, S.A. Ahmed, A.M. El-sherbeeney, W. Al Zoubi, M.R. Abukhadra, Advanced Equilibrium Studies for the Synergetic Impact of Polyaniline on the Adsorption of Rhodamine B Dye by Polyaniline / Coal Composite, (2023).

(3) **M.A. Sayed**, H.M. El-Zeiny, J.S. Khim, J.S. Ajarem, A.A. Allam, M.R. Abukhadra, Insight into the Loading Properties of Na⁺ Green-Functionalized Clinoptilolite as a Potential Carrier for the 5-Fluorouracil Drug, its Release Kinetics, and Cytotoxicity, ACS Omega. 7 (2022) 6991–7001.

(4) **M.A. Sayed**, J.S. Ajarem, A.A. Allam, M.R. Abukhadra, J. Luo, C. Wang, S. Bellucci, Catalytic Characterization of Synthetic K⁺ and Na⁺ Sodalite Phases by Low Temperature Alkali Fusion of Kaolinite during the Transesterification of Spent Cooking Oil: Kinetic and Thermodynamic Properties, Catalysts. 13 (2023) 1–20.

(5) **M.A. Sayed**, S.A. Ahmed, S.I. Othman, A.A. Allam, W. Al Zoubi, J.S. Ajarem, M.R. Abukhadra, S. Bellucci, Kinetic , Thermodynamic , and Mechanistic Studies on the Effect of the Preparation Method on the Catalytic Activity of Synthetic Zeolite-A during the Transesterification of Waste Cooking Oil, (2023).

(6) **M.A. Sayed**, M.R. Abukhadra, M.A. Salam, S.M. Yakout, A.A. Abdeltawab, I.M. Aziz, Photocatalytic hydrogen generation from raw water using zeolite/**polyaniline**@Ni₂O₃ nanocomposite as a novel photo-electrode, Energy. 187 (2019) 115943.

(7) M.R. Abukhadra, **M.A. Sayed**, K⁺ trapped kaolinite (Kaol/K⁺) as low cost and eco-friendly basic heterogeneous catalyst in the transesterification of commercial waste cooking oil into biodiesel, Energy Convers. Manag. 177 (2018) 468–476.

(8) M.R. Abukhadra, **M.A. Sayed**, A.M. Rabie, S.A. Ahmed, Surface decoration of diatomite by Ni/NiO nanoparticles as hybrid composite of enhanced adsorption properties for malachite green dye and hexavalent chromium, Colloids Surfaces A Physicochem. Eng. Asp. 577 (2019) 583–593.

EDUCATION AND TRAINING

16/10/2021 – 09/07/2024 Beni-Suef, Egypt

Master of science Beni-Suef University

Field of study Organic Chemistry | **Final grade** Excellent grade with (92.2%) |

Thesis "Innovative Organic polymer based functional nanohybrids: Synthesis, Characterization and environmental applications."

01/09/2021 – 02/06/2022 Beni-Suef, Egypt

Pre-master in Chemistry Beni-Suef University

Field of study Chemistry | **Final grade** Excellent grade with (92.2%) and ranked first over sixty-three students.

01/09/2015 – 10/06/2019 Beni-Suef, Egypt

BSc of Chemistry Beni-Suef University

Field of study Chemistry | **Final grade** Excellent grade with GPA 4.12 (91.2%) and ranked first over thirty-nine students. | **Thesis** Photocatalytic hydrogen generation from raw water using zeolite/**polyaniline**@Ni₂O₃ nanocomposite as a novel photo-electrode. published in Energy journal.

09/07/2023 – 23/07/2023 Philadelphia, United States

Fourth Water quality workshop (USA) Temple University

01/07/2024 – 22/08/2024 Cairo, Egypt

Postgraduate Students Research Fellowship At the American University In Cairo American University In Cairo Funded by USAID

1. **The School of Science and Engineering (SSE):** the Engineering Science Services (ESS) & the Institute of Global Health and Human Ecology (I.GHHE). Two PG courses of 3 CH (40 teaching hours) each:
 - GHHE 5330: The EARTH Lab
 - GHHE 5195: Advanced Good Laboratory Practices and Laboratory Management consisting of theoretical and lab sections
2. **The School of Continued Education (SCE):** SCE 4 modules, 2 days/week – total 80 hrs:
 - a) The Problem-Solving Approach and Critical Thinking,
 - b) Development of Professional Life Skills.
 - c) Cooperative Group Interaction Techniques.
 - d) Formal Presentations and Demonstrations.

02/10/2019 – 10/10/2019 CAIRO, Egypt

Workshop & Practical Training Course on Emergent Materials & Water-Energy Nexus The Arab-German Young Academy of Sciences and Humanities (AGYA)

Address American University in Cairo (AUC), Academy of Scientific Research and Technology (ASRTP), CAIRO, Egypt

LANGUAGE SKILLS

MOTHER TONGUE(S): Arabic

Other language(s):

English (Duolingo English Test) Overall score 105

Listening B2

Spoken production B2

Reading B2

Spoken interaction B2

Writing B2

English (IELTS test) overall score= band 6

Listening B2

Spoken production B2

Reading B2

Spoken interaction B2

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

GOOD COMMAND OF MICROSOFT OFFICE TOOLS (WORD, EXCEL, POWERPOINT)

BASIC KNOWLEDGE OF GRAPHIC DESIGN APPLICATIONS (ADOBE ILLUSTRATOR, PHOTOSHOP, COREL DRAW)

digital skills

DATABASES OF WEB OF SCIENCE, SCOPUS, SCIENCE DIRECT, WELLY, SPRINGER, ..ETC

GOOD KNOWLEDGE OF THE C/CHEMISTRY SOFTWARE (GAUSSIAN03 REV E.01, CHEMOFFICE, ACD LAB, ...ETC)

JOB-RELATED SKILLS

PROJECTS

01/09/2022 – 01/06/2024

A fully funded master scholarship in water resources management titled " innovative polymer based functional nanohybrids for environmental applications"

funded by United States Agency for International Development (USAID) and managed by the Centre of Excellence for Water in Alexandria.

HONOURS AND AWARDS

07/09/2019 Minisry of Environment

first place in zero agro-waste competition

introducing innovative solutions to agricultural wastes

12/03/2022 Beni-Suef unversity

first place in 3rd scientific conference

Alternative fuel production using environmental catalysis.

08/08/2019 Smart village in cairo

fourth place in Reboot the Earth challenge

VOLUNTEERING

09/06/2018 – CURRENT Beni-Suef

volunteer at resalah charity

Work on providing facilities for the poor and disabled.

13/10/2018 – 10/05/2019 Beni-Suef

member of the student union

REFERENCES

CURRENT

References

(1) Associate Professor Mostafa Ragab Abukhadra
Director of Material Technologies and their Applications Lab, Faculty of Science, Beni Suf University, Egypt. e-mail: abukhadra89@science.bsu.edu.eg

(2) Associate Professor Abd El-Rahman Mohamed Rabie
Associate Professor of Materials and Green Catalysts, Egyptian Petroleum Research Institute, Cairo, Egypt. e-mail: amrabie@epri.sci.eg description...