

السيرة الذاتية

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تاريخ الميلاد: ١ يوليه ١٩٩٢

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- ماجستير في الكيمياء (M.Sc) / الكيمياء غير العضوية – كلية العلوم – جامعة بورسعيد (ديسمبر ٢٠١٦ م).
- الدبلوم المهني في البتروكيماويات – جامعة الإسكندرية ٢٠١٥ م.
- بكالوريوس العلوم (B.Sc) / شعبة الكيمياء (خاص) - دور مايو ٢٠١٤ م.

الخبرات التدريسية:

اسم المادة	
ديناميكا حرارية هندسية	الكيمياء العامة
كتابة تقارير فنية	الكيمياء غير العضوية
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	تلوث الهواء

إشراف الرسائل العلمية:

- الإشراف علي عدد ٢ رسالة دكتوراة بكلية العلوم – جامعة بورسعيد.

الشهادات:

- شهادة التوفيل – جامعة بورسعيد.
- شهادة ICDL - جامعة المنصورة.

الدورات التدريبية:

- شركة أيميثانكس (خلال صيف ٢٠١٢ م).
- شركة أيميثانكس (خلال صيف ٢٠١٣ م).
- شركة مصر لإنتاج الأسمدة (موبكو) (خلال صيف ٢٠١٣ م).
- جامعة الإسكندرية – كلية العلوم (١٤-١٥ أبريل ٢٠١٨ م):
"Water Treatment & Desalination Technology for Industrial applications"
- دورة إعداد معلم – جامعة دمياط.
- دورة إدارة المراكز و الوحدات ذات الطابع الخاص – جامعة دمياط.

المؤتمرات والندوات:

- حضور بعض الندوات والمؤتمرات بكلية العلوم – جامعة دمياط.
- المؤتمر الدولي الأول في الكيمياء التطبيقية (الغردقة – مصر – مارس ٢٠١٦ م).
- المؤتمر الدولي الثاني في الكيمياء التطبيقية (الغردقة – مصر – مارس ٢٠١٨ م).
- المؤتمر الدولي الرابع في الكيمياء التطبيقية (الغردقة – مصر – ٣-٤ إبريل ٢٠٢١ م).
- عضو الجمعية المصرية لتاكل الفلزات و حمايتها.

المنشورات:

- 1- M.M. Aljohani, S.D. Al-Qahtani, M. Alshareef, M.G. El-Desouky, A.A. El-Bindary, N.M. El-Metwaly, **M.A. El-Bindary**, Highly efficient adsorption and removal bio-staining dye from industrial wastewater onto mesoporous Ag-MOFs, *Proc. Saf. Environ. Prot.* 172 (2023) 395-407.
- 2- **M.A. El-Bindary**, A. Shahat, I.M. El-Deen, M.A.G. Khalil, N. Hassan, Dual colorimetric and fluorometric monitoring of Cd²⁺ and Hg²⁺ ions in water using Functionalized Zr-MOFs chemosensors, *Appl. Organomet. Chem.* 37(٥) (2023) exxxx.
- 3- **M.A. El-Bindary**, A. Shahat, I.M. El-Deen, M.A.M. El-Afify, N. Hassan, Synthesis and application of a novel self-smart sensor based on a modified amino-functionalized Zr-MOF for rapid and selective detection of some toxic metals in wastewater, *Appl. Organomet. Chem.* 37(٤) (2023) e7029.
- 4- R.T. Mogharbel, K. Alkhamis, R. Felaly, M.G. El-Desouky, A.A. El-Bindary, N.M. El-Metwaly. **M.A. El-Bindary**, Superior adsorption and removal of industrial dye from aqueous solution via magnetic silver metal-organic framework nanocomposite, *Environ. Technol.* (United Kingdom), 2023. <https://doi.org/10.1080/09593330.2023.2178331>
- 5- A. Alharbi, Z.A. Al-Ahmed, N.M. El-Metwaly, A. Shahat, **M.A. El-Bindary**, A novel strategy for preparing metal-organic framework as a smart material for selective detection and efficient extraction of Pd(II) and Au(III) ions from E-wastes, *J. Mol. Liq.* 369 (2023) 120862.
- 6- M.G. El-Desouky, M.A.G. Khalil, M.A.M. El-Afify, A.A. El-Bindary, **M.A. El-Bindary**, Effective methods for removing different types of dyes – modelling analysis, statistical physics treatment and DFT calculations: a review, *Desalin. Water Treat.* 280 (2022) 89–127.
- 7- N.M. El-Metwaly, H.A. Katouah, M.G. El-Desouky, A.A. El-Bindary, **M.A. El-Bindary**, Fabricating of Fe₃O₄@Ag-MOF nanocomposite and evaluating its adsorption activity for removal of doxorubicin, *J. Environ. Sci. Health A*, 57 (2022) 1099-1115.
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 - 13- T.A. Altalhi, M.M. Ibrahim, G.A.M. Mersal, M.H.H. Mahmoud, T. Kumeria, M.G. El-Desouky, A.A. El-Bindary, **M.A. El-Bindary**, Adsorption of doxorubicin hydrochloride onto thermally treated green adsorbent: Equilibrium, kinetic and thermodynamic studies, *J. Mol. Struct.* 1263 (2022) 133160.
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 - 15- **M.A. El-Bindary**, A.A. El-Bindary, Synthesis, characterization, DNA binding, and biological action of dimedone arylhydrazone chelate, *Appl. Organomet. Chem.*, 36(4) (2022) e6576.
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 - 20- M.G. El-Desouky, M.A. Khalil, A.A. El-Bindary, **M.A. El-Bindary**, Biological, biochemical and thermochemical techniques for biofuel production: An updated review, *Biointerf. Res. Appl. Chem.*, 12(3) (2022) 3034–3054.
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 - 22- M. Kondalkar, S. Attarde, U. Fegade, Inamuddin, T. Altalhi, M.M. Ibrahim, G.A.M. Mersal, M.H.H. Mahmoud, T. Kumeria, A. Shahat, **M.A. El-Bindary**, Experimental and statistical investigation of adsorption mechanism of toxic chromium on Al-Fe-Zn oxide nanocomposite and successful application on industrial wastewater, *Int. J. Environ. Anal. Chem.*, xxx (2021).
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- 24- H.A. Kiwaan, F.Sh. Mohamed, A.A. El-Bindary, N.A. El-Ghamaz, H.R. Abo-Yassin, **M.A. El-Bindary**, Synthesis, identification and application of metal organic framework for removal of industrial cationic dyes, *J. Mol. Liq.*, 342 (2021) 117435.
- 25- T.A. Altalhi, M.M. Ibrahim, G.A.M. Mersal, M. Alsawat, M.H.H. Mahmoud, T. Kumeria, A. Shahat, **M.A. El-Bindary**, Mesopores silica nanotubes-based sensors for the highly selective and rapid detection of Fe²⁺ ions in wastewater, boiler system units and biological samples, *Anal. Chim. Acta*, 1180 (2021) 338860.
- 26- K.S. Abou-Melha, G.A. Al-Hazmi, I. Althagafi, A. Alharbi, Fathy Shaaban, N.M. El-Metwaly, A.A. El-Bindary, **M.A. El-Bindary**, Synthesis, characterization, DFT calculation, DNA binding and antimicrobial activities of metal complexes of dimedone arylhydrazones, *J. Mol. Liq.*, 334 (2021) 116498.
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بحوث مستخلصة من رسالة الماجستير والدكتوراة:

- 28- **M.A. El-Bindary**, I.M. El-Deen, A.F. Shoair, “Removal of anionic dye from aqueous solution using magnetic sodium alginate beads”, *J. Mater. Environ. Sci.*, **10(7)** (2019) 604-617.
- 29- I.M. El-Deen, A.F. Shoair, **M.A. El-Bindary**, “Synthesis, characterization and biological properties of oxovanadium(IV) complexes”, *J. Mol. Struct.*, **1180** (2019) 420-437.
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- 31- I.M. El-Deen, A.F. Shoair, **M.A. El-Bindary**, “Synthesis, structural characterization, molecular docking and DNA binding studies of copper complexes”, *J. Mol. Liq.*, **249** (2018) 533-545.
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- 34- A.Z. El-Sonbati, I.M. El-Deen, **M.A. El-Bindary**, “Adsorption of hazardous azo rhodanine dye from an aqueous solution using rice straw fly ash”, *J. Disp. Sci. Technol.*, **37** (2016) 715-722.
- 35- A.M. Eldesoky, **M.A. El-Bindary**, A.Z. El-Sonbati, S.M. Morgan, “New eco-friendly corrosion inhibitors based on azo rhodanine derivatives for protection copper corrosion”, *J. Mater. Environ. Sci.*, **6(8)** (2015) 2260-2276.

Biography:

Mohamed El-Bindary is a Lecturer of Inorganic Chemistry (Scopus site: Documents: **32**; Total citations: **476**; H-Index: **15**). He received his B.Sc. degree in Chemistry from Damietta University in 2014, Professional Diploma in Petrochemical (CGPA 3.11) (November, 2015), Faculty of Science, Alexandria University, Egypt. He got the M.Sc. degree in Inorganic Chemistry in 2016 from Port Said University. He got the Ph.D. degree from Port Said University in 2019. After his B.Sc., he worked in Basic Science Department, Higher Institute of Engineering and Technology, New Damietta, Egypt from 2015 till now. Dr. Mohamed El-Bindary has authored over 18 peer reviewed research articles. He and his coworkers work in the field of Inorganic Chemistry and its applications. He and his coworkers work in the field of water treatment by adsorption, photocatalytic degradation and drug delivery.