Name: **Adel El-Marghany Mohamed Yahya**
Date of birth: **12/ 7/ 1965 Alexandria**
amarghany1@hotmail.com
amarghany@ ksu.edu.sa

Academic qualifications:

1- **Ph.D**. in Chemistry, Chemistry Department, Faculty of Science, Tanta University, Egypt (1997).

2- **M.Sc.** in chemistry, Chemistry Department, Faculty of Science, Alexandria University, Egypt (1992).

3- **B.Sc.** in chemistry, Chemistry Department, Faculty of Science, Alexandria University, Egypt (1987) with Excellent grade

Main field of specialization: General, Inorganic and Analytical

Present employment:

1- Assistant professor, Chemistry Department, faculty of Science, King Saud University, From 10/9/2015 until now.

2- Assistant professor, Chemistry Unit, Science Department, College of Teachers, King Saud University in Riyadh, From 8/9/2005 until9 /9/2015.

3- Assistant professor of Inorganic and Analytical Chemistry, Chemistry Department, Faculty of Science, Suez, Suez Canal University, Egypt, From, 17/3/1998-2005.

Teaching Experiences:

- Fabrication and characterization of adsorbent materials for separation and catalysis application.
- Water and wastewater treatment.
- Qualitative inorganic chemistry (Identification of acidic and basic radicals in simple salts – Separation of basic mixtures).
- Volumetric analysis (Preparation of standard solutions, acid-base, precipitation, oxidation-reduction titration).
- Gravimetric analysis.
- Instrumental analysis (IR, UV-Vis., chromatography, solvent extraction, potentiometry and conductometry).
- Water and Ore analyses based on different instrumental analytical tools.
- Structural inorganic chemistry. Chemical equilibrium
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List of Selected Publications

ملخص ألابحاث المنشورة

1- Unraveling the Complexities of $A_2NaMoCl_6$ (A= Cs, Rb) Halide Double Perovskites Through Theoretical Methods, **Adel El-marghany**, Khair Muhammad, Muhammad Sajid, Mubashir Nazar, M Kashif Masood, Yazen M. Alawaideh and Javed Rehman, Journal of Physics and Chemistry of Solids, (2025),198,112477.

2- Activating design of tunable $CuCo_2O_4$@$NiMnO_3$ heterostructure towards superior oxygen evolution reaction, Adel El-marghany, Muhammad Khalil, Abdul Wahab Haroon, Fawad Ahmad, Ome Parkash Kumar, Abdul Ghafoor Abid, Shahroz Saleem and Zobia Siddique, Journal of Sol-Gel Science and Technology, (2025), 113,804-818.

3- Efficient Zinc Vanadate Homojunction with Cadmium Nanostructures for Photocatalytic Water Splitting and Hydrogen Evolution, mran Hasan, **Adel El- Marghany**, Naaser A. Y. Abduh and Fahad A. Alharthi,J. Nanomaterials, (2024),14,6,492.

4-Synthesis of platinum decorated bismuth vanadate (Pt-BiVO4) nanocomposite for photocatalytic hydrogen production, Fahad A Alharthi, Adel El Marghany, Naaser AY Abduh and Imran Hasan, Journal of Reaction Kinetics, Mechanisms and Catalysis, (2024),137,1, 423-432.

5-Cerium Vanadate with Nitrogen Doped Reduced Graphene Oxide for Visible Light-Driven Hydrogen Evolution and Dye Degradation, Fahad A Alharthi, **Adel El Marghany**, Naaser AY Abduh and Imran Hasan,J. physica status solidi (a),(2023),221,4,2300743.

6 - Solvothermally fabricated cobalt selenide supported on graphitic carbon nitride for enhanced oxygen evolution reaction, **Adel El-marghany**, Mika Sillanpää, Sumaira Manzoor,Abdul Ghafoor Abid and Mehar Un Nisa, Applied Physics A (2023),129,8,605.

7-Hydrothermal Synthesis of a Magnesium Vanadate-Functionalized Reduced Graphene Oxide Nanocomposite for an Efficient Photocatalytic Hydrogen Production, Fahad A. Alharthi, **Adel El Marghany**, Naaser AY Abduh and Imran Hasan**,** Journal ACS Omega, (2023), 8,34, 31493−31499.

8- Efficient light-driven hydrogen evolution and azo dye degradation over the $GdVO_4$@gC_3N_4 heterostructure, Fahad A. Alharthi, **Adel El Marghany**, Naaser A.Y.Abduh and Imran Hasan, RSC advances (2023),13 (30),20417-20429.

9- Synthesis of Nanocrystalline Metal Tungstate $NiWO_4$/$CoWO_4$ Heterojunction for UV-Light-Assisted Degradation of Paracetamol, Fahad Ahmed Alharthi, Alanoud Abdullah Alshayiqi, Wedyan Saud Al-Nafaei, **Adel El Marghany**, Hamdah Saleh Alanazi and Imran Hasan, Catalysts, (2023),13(1),152.

10-Metal Organic Framework-Based Dispersive Solid-Phase Microextraction of Carbaryl from Food and Water Prior to Detection by Ultra-Performance Liquid Chromatography-Tandem Mass Spectrometry,Mohamed A. Habila , Bushra Alhenaki, **Adel El-Marghany**, Mohamed Sheikh, Ayman A. Ghfar , Zeid A. ALOthman and Mustafa Soylak, Journal separations, (2022), 9,2, 32.

11- Role of Fe doping on surface morphology, electronic structure and magnetic properties of Fe doped CeO_2 thin film, Shalendra Kumar , Fahad A. Alharthi,**Adel El marghany**, Faheem Ahmed ,Naushad Ahmad , K.H.Chae and Kavita Kumari , Ceramics International, (2021), 47,3,4012–4019.

12- Fabrication of Schiff's base-functionalized porous carbon materials for the effective removal of toxic metals from wastewater, **Adel Al-Marghany**, Ahmed Yacine Badjah Hadj Ahmed, Zeid Abdullah Al Othman, Mohamed Sheikh, Ayman Abdul Ghfar and Mohamed Habila, Arabian Journal of Geosciences, (2021),14,336.

13-Removal of Lead (II) from Synthetic Wastewater by Lavandula Pubescens Decne Biosorbent: Insight into Composition–Adsorption Relationship Ali Q. Alorabi 1, Fahad A. Alharthi , Mohamed Azizi , Nabil Al-Zaqri, **Adel El-Marghany**, and Khaled A. Abdelshafeek, Appl. Sci. ,(**2020**), 10,21, 7450.

14-Synthesis, X-ray structure, Hirshfeld analysis, and DFT studies of a new Pd (II) complex with an anionic s-triazine NNO donor ligand, Saied M. Soliman, Jamal Lasri,Matti Haukka, **Adel Elmarghany** , Abdullah Mohammed Al-Majid , Ayman El-Faham and Assem Barakat, Journal of Molecular Structure , (2020),1217,128463.

15-Synthesis of nanocauliflower ZnO photocatalyst by potato waste and its photocatalytic efficiency against dye,Fahad A. Alharthi, Nabil Al-Zaqri1,**Adel El marghany**, Abdulaziz Ali Alghamdi , Ali Q. Alorabi, Neazar Baghdadi, H. S. AL-Shehri, Rizwan Wahab and Naushad Ahmad, Journal of Materials Science: Materials in Electronics, (2020),31,11538-11547.

16-Synthesis, crystal structure, evaluation of urease inhibition potential and the docking studies of cobalt (III) complex based on barbituric acid Schiff base ligand, Assem Barakat, Saied M. Soliman, M. Ali, **Adel El marghany**, Abdullah Mohammed Al-Majid, Sammer Yousuf, Zaheer Ul-Haq, M. Iqbal Choudhary and Ayman El-Faham, Inorganica Chimica Acta, (2020),503, 119405.

17-Crystal structure of N/- (2-phenylacetyl) thiophene-2-carbohydrazide monohydrate , Ayman El-Faham , **Adel El-Merghany** and Hazem A.Ghabbour ,Z.Kristalloger.NCS;232(1);69-71(2017).