

## Curriculum Vitae



### Personal Information

|                      |   |
|----------------------|---|
| <b>Name</b>          | <b><u>Mohamed Ahmed Ali Hussein</u></b>   |
| <b>Title</b>         | Associate professor   |
| <b>Address</b>       | Belbeis, Sharkia, Egypt   |
| <b>Telephone(s)</b>  | +20552924145 Mobile: +201001413153  |
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| <b>Nationality</b>   | Egyptian  |
| <b>Date of birth</b> | 21/11/1982  |

### Education

|   |  |
|---|--|
| <b>Date</b>                                     | 30/7/2023  |
| <b>Degree</b>                                   | Assistant Professor of Chemistry   |
| <b>Date</b>                                     | 29/9/2016  |
| <b>Degree</b>                                   | <b>Ph.D. in (Inorganic Chemistry)</b>  |
| <b>Name of organization providing education</b> | Benha University, Faculty of science of Under the supervision of <b><u>Prof. D.Sc Hamdy El-didamony.</u></b>   |
| <b>Title of the thesis</b>                      | <b>“Effect of fire and durability of granulated – air cooled slag cement pastes in sea water”</b>              |
| <b>Date</b>                                     | 18/11/2008   |
| <b>Degree</b>                                   | <b>M.Sc. in (Inorganic Chemistry)</b>  |
| <b>Name of organization Providing education</b> | Zagazig University, Faculty of science of Under the supervision of <b><u>Prof. D.Sc Hamdy El-didamony.</u></b> |
| <b>Title of the thesis</b>                      | <b>Granulated slag and limestone for the preparation of pozzolanic – filled cement</b>                         |

*Dr. Mohamed Ali*

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|--|---|
| Date                                     | From Sept. 1999 to May2003                                    |
| Degree                                   | <b>Bachelor of Science Very good with the degree of honor</b> |
| Principal subject                        | Special Chemistry   |
| Name of organization providing education | Faculty of Science, Zagazig University, Egypt                 |

### Other Certificates

ICDL certified in Jan. 2010.

### **Bio:**

Dr. Mohamed Ali graduated at the School of Science at Zagazig University and completed my master's degree of Science at Zagazig University in Inorganic Chemistry. I have PhD in inorganic chemistry from Benha University, School of science. Dr. Mohamed has been involved in research in the areas of cement and recently in analytical analysis of drugs. Dr. Mohamed currently serves as Lecturer of (general chemistry – physical chemistry – analytical chemistry – Instrumentation Organic chemistry). At (Badr university in Cairo), School of Biotechnology, School of Pharmacy, School of Veterinary, and School of Dentistry Badr city, Cairo, Egypt.

### Experience:

#### **Teaching and Research Experiences.**

|                              |  |
|------------------------------|--|
| Date                         | From Apr. 2021 till present  |
| Occupation or position held  | <b>Lecturer of (general chemistry – physical chemistry – analytical chemistry, Instrumentation).</b>                 |
| Name and address of employer | <b><u>BUC</u></b> (Badr university in Cairo), School of biotechnology, Badr city, Cairo, Egypt.                      |
| Date                         | From Sept. 2016 till Apr. 2021.  |
| Occupation or position held  | <b>Lecturer of (general chemistry – physical chemistry – analytical chemistry).</b>                                  |
| Name and address of employer | <b><u>BUC</u></b> (Badr university in Cairo), Faculty of pharmacy, and Faculty of dentistry Badr city, Cairo, Egypt. |
| Date                         | From Sept. 2014 till Sept. 2016.   |
| Occupation or position held  | <b>Teaching assistant of (general chemistry – physical chemistry – analytical chemistry – organic chemistry).</b>    |
| Name and address of employer | <b><u>BUC</u></b> (Badr university in Cairo), Faculty of pharmacy, and Faculty of dentistry Badr city, Cairo, Egypt. |
| Date                         | From Sept. 2004 till 2014  |
| Occupation or position held  | <b>Teaching assistant</b>  |

|                                      |  |
|--------------------------------------|--|
| Main activities and responsibilities | Teaching practical <b>Chemistry</b> courses for Engineering students like (general chemistry, inorganic chemistry and organic chemistry – inorganic chemical industries – physical chemistry). |
| Name and address of employer         | El Shorouk Academy – High institute of engineering – Chemical engineering department.<br>El Shorouk city – Cairo - Egypt   |

### Languages:

- **Arabic** (mother tongue)
- **English** (Excellent)
- \* TOFEL 500.

### Scientific Activities:-

#### \* Conferences Participation

- [1] Third Environment Conference, Faculty of Science, Zagazig Univ., 2008, 175 – 185.
- [2] 10<sup>th</sup> international Internet Education Conference, ICT- Learn 2016 Cloud Computing, Big Data and 5<sup>th</sup> G for education Ramses Hilton Hotel, cairo 12<sup>th</sup> Dec.
- [3] Forum of the national health competencies in the Arab region and its role in supporting health sector development. 16 Feb. 2017 in Arab league, Arab republic of Egypt.

#### \* List of Publications

1. H. El-Didamony, I.M. Helmy, H. Moselhy and **M.A Ali** “*Utilization of an Industrial Waste Product in the Preparation of Low Cost Cement*”, *Journal of American Science*, 2011;7(9)527–533.
2. H. El-Didamony, I.M. Helmy, H. Moselhy and **M.A Ali** “*Effect of Firing Temperature on the Properties of Granulated Slag Pozzolanic Cement Pastes*”, *Journal of Basic and Applied Chemistry*, 2011;1(8)58–64.

3. H. El-Didamony, M. Heikal, H. Moselhy and **M.A Ali** "Utilization of GBFS in The Preparation of Low Cost Cement", *Egypt. J. Chem*, 2016; 59 (4) 623 – 636. DOI: 10.21608/ejchem.2016.1439
4. Ataalla M., Mohamed A., **Ali M.A.**, Hassan M., Hamad N., Afify A.S. (2020) "WO<sub>3</sub>-Based Glass-Crystalline Sensor for Selective Detection of Ammonia Gas". In: Petkov P., Achour M., Popov C. (eds) *Nanoscience and Nanotechnology in Security and Protection against CBRN Threats*. NATO Science for Peace and Security Series B: Physics and Biophysics. Springer, Dordrecht. [https://doi.org/10.1007/978-94-024-2018-0\\_30](https://doi.org/10.1007/978-94-024-2018-0_30)
5. Toxicity Profile, Pharmacokinetic, and Drug–Drug Interaction Study of Citalopram and Sertraline Following Oral Delivery in Rat: An LC-MS/MS Method for the Simultaneous Determination in Plasma, Mohamed Saleh Elgawish, **Mohamed A. Ali**, Moftah A. Moustafa, and Sameh M. Hafeez, *Chemical Research in Toxicology* 2020 33 (10), 2584-2592, DOI: 10.1021/acs.chemrestox.0c00199
6. Etman, A. M., Abdel Mageed, S. S., **Mohamed A. Ali**, Hassab, E., & Abd El Monem, M. (2021). Cyclin-Dependent Kinase as a Novel Therapeutic Target: An Endless Story. *Current Chemical Biology*, 15(2), 139-162.
7. Simultaneous Determination of Abamectin and Closantel in Veterinary Formulation by Validated HPLC Method, Emad M Abd Elhalim, Mohamed A Amin, **Mohamed A Ali**, *Journal of Chromatographic Science*, Volume 59, Issue 5, May/June 2021, Pages 445–451, <https://doi.org/10.1093/chromsci/bmab023>
8. Adsorption of Tartrazine anionic dye by novel fixed bed Core-Shell- polystyrene Divinylbenzene/Magnetite nanocomposite, **Mohamed A. Ali** Mahmoud F. Mubarak, Mohamed Keshawy, Mohamed A. Zayed Mohamed Ataalla, *Alexandria Engineering Journal*, Volume 61, Issue 2, February 2022, Pages 1335-1352, <https://doi.org/10.1016/j.aej.2021.06.016>

9. **Mohamed A. Ali**; Mohamed A. Amin; Emad M. Abd Halim. "Green RP-HPLC Stability-Indicating Assay Method for Neomycin Sulfate in the Veterinary Formulation". Egyptian Journal of Chemistry, Vol. 65, No. 11 pp. 155 - 162 (2022), DOI: [10.21608/EJCHEM.2022.113995.5182](https://doi.org/10.21608/EJCHEM.2022.113995.5182)
10. Ads, Essam N., Syed I. Hassan, Saravanan Rajendrasozhan, Mona H. Hetta, Shaza H. Aly, and **Mohamed A. Ali**. 2022. "Isolation, Structure Elucidation and Antimicrobial Evaluation of Natural Pentacyclic Triterpenoids and Phytochemical Investigation of Different Fractions of Ziziphus spina-christi (L.) Stem Bark Using LCHRMS Analysis" Molecules 27, no. 6: 1805. <https://doi.org/10.3390/molecules27061805>
11. Ahmed S. Afify, M. Abdallah, Shady A. Ismail, M. Ataalla, Mohammed A. S. Abourehab, Sara T. Al-Rashood and **Mohamed A. Ali**. 2022. " Development of GC–MS/MS method for environmental monitoring of 49 pesticide residues in food commodities in Al-Rass, Al-Qassim region, Saudi Arabia" Arabian Journal of Chemistry, Vol. 15, Issue 11, November 2022, 104199. <https://doi.org/10.1016/j.arabjc.2022.104199> .
12. Elebeedy, Dalia, Aml Ghanem, Asmaa Saleh, Mona H. Ibrahim, Omkulthom Al Kamaly, Mohammed A. S. Abourehab, **Mohamed A. Ali**, Ahmed I. Abd El Maksoud, Mahmoud A. El Hassab, and Wagdy M. Eldehna. 2022. "In Vivo and In Silico Investigation of the Anti-Obesity Effects of Lactiplantibacillus plantarum Combined with Chia Seeds, Green Tea, and Chitosan in Alleviating Hyperlipidemia and Inflammation" International Journal of Molecular Sciences 23, no. 20: 12200. <https://doi.org/10.3390/ijms232012200> .
13. Emad M. Abd Halim; Mohamed A. Amin; **Mohamed A. Ali**, " Green validated stability indicating HPLC method of Dihydrostreptomycin Sulfate in Pharmaceutical Dosage Form", Egyptian Journal of Chemistry, (2022), DOI: [10.21608/EJCHEM.2022.153206.6641](https://doi.org/10.21608/EJCHEM.2022.153206.6641)

14. Hazem I. Bendary; Mohamed Heikal; **Mohamed A. Ali**. "Performance of imported granulated blast-furnace slag (IGBFS) rich cement against fire resistance". Egyptian Journal of Chemistry, 66(10), 125-131 doi: 10.21608/ejchem.2023.173658.7179
15. Osama Ibrahim Abdelsattar; Hamed Hamed Mohamed Abuseada; Mohamed Saleh Emara; Islam Selim; **Mohamed A. Ali**. "Validated chromatographic methods for determination of ciprofloxacin, indomethacin, and metronidazole remnants in pharmaceutical industrial wastewater effluents". Egyptian Journal of Chemistry 66 (10), 79-92. (2023) doi: 10.21608/ejchem.2023.178185.7269
16. Doghish, A. S., **Ali, M. A.**, Elrebehy, M. A., Mohamed, H. H., Mansour, R., Ghanem, A., ... & Abulsoud, A. I. (2023). The interplay between toxoplasmosis and host miRNAs: Mechanisms and consequences. Pathology-Research and Practice, 250, 154790.
17. Ghanem, A., **Ali, M. A.**, Elkady, M. A., Mageed, S. S. A., El Hassab, M. A., El-Ashrey, M. K., ... & Doghish, A. S. (2023). Rumex vesicarius L. boosts the effectiveness of sorafenib in triple-negative breast cancer by downregulating BCl2, mTOR, and JNK, and upregulating p21 expression. Pathology-Research and Practice, 250, 154807.
18. Ahmed S. Doghish, **Mohamed A. Ali**, Salah S. Elyan, Mahmoud A. Elrebehy, Hend H. Mohamed, Reda M. Mansour, Ayatallah Elgohary, Aml Ghanem, Ahmed H.I. Faraag, Nourhan M. Abdelmaksoud, Hebatallah Ahmed Mohamed Moustafa . "miRNAs role in cervical cancer pathogenesis and targeted therapy: Signaling pathways interplay". Pathology - Research and Practice, Volume 244, April 2023, 154386, -. doi: 10.21608/ejchem.2023.178185.7269
19. Ammar Zobeidi, Salah Neghmouche Nacer, Salem Atia, Latifa Kribaa, Aicha Kerassa, Abasse Kamarchou, Mousa AlNoaimi, Djamel Ghernaout, **Mohamed A. Ali**, Abdelmajeed Adam Lagum, and Nouredine Elboughdiri" Corrosion

Inhibition of Azo Compounds Derived from Schiff Bases on Mild Steel (XC70) in (HCl, 1 M DMSO) Medium: An Experimental and Theoretical Study" ACS Omega, 2023 8 (24), 21571-21584 DOI: 10.1021/acsomega.3c00741

20. Elebeedy, D., Ghanem, A., Aly, S.H. **Mohamed A. Ali**, et al. Synergistic antiviral activity of Lactobacillus acidophilus and Glycyrrhiza glabra against Herpes Simplex-1 Virus (HSV-1) and Vesicular Stomatitis Virus (VSV): experimental and In Silico insights. BMC Microbiology 23, 173 (2023). <https://doi.org/10.1186/s12866-023-02911-z>
21. Bendary, H. I., Heikal, M., **Ali, M. A.**, Ghernaout, D., & Elboughdiri, N. (2023). Feasibility study of dealuminated kaolin utilization in marine constructions. Revista de la construcción, 22(2), 509-522.
22. Azza A. Gabr, **Mohamed A. Ali**, Ahmed H. Orabi, Hiam M. Osman & Salah S. Elyan (2023) A novel method has been developed to efficiently recover valuable lead, zinc, and rare earth elements from hazardous waste generated by glass polishing, Arab Journal of Basic and Applied Sciences, 30:1, 513-525, DOI: 10.1080/25765299.2023.2254515
23. Aliaa M. Badawy, Ahmed A. Farghali, Adrián Bonilla-Petriciolet, Moaaz K. Seliem, Ali Q. Selim, Mohamed A. Ali, M. Al-Dossari, N.S.Abd EL-Gawaad, Mohamed Mobarak, Eder C. Lima, Hazem I. Bendary, Facile synthesis of a recyclable multifunctional magnetic adsorbent prepared from H<sub>2</sub>O<sub>2</sub>-modified carbon clay/rice flour polymer/Fe<sub>3</sub>O<sub>4</sub> nanoparticles interface for effective removal of ibuprofen, Journal of the Taiwan Institute of Chemical Engineers, Volume 152, 2023, 105177, ISSN 1876-1070, <https://doi.org/10.1016/j.jtice.2023.105177>.
24. Heikal, M., **Ali, M. A.**, Ibrahim, S. M., & Bendary, H. I. (2023). Sustainable composite cement prepared by two different types of iron slag. Journal of Material Cycles and Waste Management, 1-15.

25. Heikal, Mohamed, **Mohamed A. Ali**, Djamel Ghernaout, Noureddine Elboughdiri, Badia Ghernaout, and Hazem I. Bendary. 2023. "Prolonging the Durability of Maritime Constructions through a Sustainable and Salt-Resistant Cement Composite" *Materials* 16, no. 21: 6876. <https://doi.org/10.3390/ma16216876>
26. Doghish, A. S., Elazazy, O., Mohamed, H. H., Mansour, R. M., Ghanem, A., Faraag, A. H., ... & **Ali, M. A.** (2023). The role of miRNAs in multiple sclerosis pathogenesis, diagnosis, and therapeutic resistance. *Pathology-Research and Practice*, 154880.
27. Amin, M. A., Abd Halim, E. M., **Ali, M. A.**, & Abdelshafi, N. A. (2023). Method validation for determination of eight elements in ammi-visnaga plant using graphite-atomic absorption spectrometer in Egypt. *Egyptian Journal of Chemistry*.
28. Dalila Amokrane, Ahmed Mohammedi, Radhia Yekhllef, Djamel Belfennache, Nacira Daoudi Zerrouki, Shaza H. Aly, Mohamed A. Elanany, **Mohamed A. Ali** (2024). Insecticidal Activity, GC/MS Analysis, and in silico Studies of Juniperus phoenicea Essential Oil against Aphis spiraecola. *Universal Journal of Agricultural Research*, 12(1), 51 - 64. DOI: 10.13189/ujar.2024.120106.
29. Ouldamer, R., Belfennache, D., Madi, D., Yekhllef, R., Zaiou, S., & **Ali, M. A.** (2024). Phosphorus deactivation mechanisms by hydrogenation in the n plus emitter region and its effect on defects in-silicon solar cells. *JOURNAL OF OVONIC RESEARCH*, 20(1), 45-55.
30. **Ali, M. A.**, Mobarak, M., Salah, A. M., Yehia, A., Lima, E. C., Seliem, A. Q., ... & Seliem, M. K. (2024). Facile synthesis and characterization of a magnetic biosorbent derived from sodium alginate and activated graphite schist: Experimental and statistical physics analysis for Mn (VII) remediation. *International Journal of Biological Macromolecules*, 261, 129692.



31. Arif, M. A., Abdel-Gawwad, H. A., Elshimy, A. S., Seliem, M. K., **Ali, M. A.**, Maodaa, S. N., ... & Hassan, H. S. (2024). Facile synthesis and characterization of metakaolin/carbonate waste-based geopolymer for Cr (VI) remediation: Experimental and theoretical studies. *Inorganica Chimica Acta*, 564, 121939.
32. **Ali, M. A.**, Babalghith, A. O., Gouda, A. A., & Amin, A. S. (2024). Development of an innovative colorimetric optical sensor for the detection of silver ions in environmental and biological samples. *International Journal of Environmental Analytical Chemistry*, 1–22. <https://doi.org/10.1080/03067319.2024.2347566>.
33. El-Bahy, S. M., Sari, A. A., Amin, A. S., & **Ali, M. A.** (2024). Revolutionizing scandium detection in real samples: Unleashing the power of sol–gel-based optical sensor. *Analytical Sciences*, 1-12.
34. Hemdan, M., **Ali, M. A.**, & Amin, A. S. (2024). Eco-friendly optical sensor for precise detection of gold ions in diverse matrices through the integration of  $\beta$ -2-hydroxybenzyl-3-methoxy-2-hydroxyazastyrene in a PVC membrane. *Analytical and Bioanalytical Chemistry*, 1-12.
35. Belalia, F., Harichane, A., Belfennache, D., Yekhlef, R., Zaiou, S., Hemdan, M., & **Ali, M. A.** (2024). Elimination of Inorganic Pollutants Using a Novel Biomaterial Adsorbent. *Egyptian Journal of Chemistry*.
36. AlSalem, H. S., Algethami, F. K., **Ali, M. A.**, & Mansour, F. R. (2024). Development of an ecofriendly dispersive liquid phase microextraction method for the preconcentration of  $\beta$ -blockers in waste and environmental samples. *Microchemical Journal*, 111279.
37. Hadji, F., Rassim, Y., Belfennache, D., Yekhlef, R., Bounar, N., Amokrane Bradai, M., ... & **A Ali, M.** (2024). Non-Isothermal Kinetics of Coats-Red Fern in the Critical Points: Formation of  $Al_{2-x}Cr_xO_3$  ( $x= 0.02$ ) powders obtained by Sol-Gel Method. *Egyptian Journal of Chemistry*.

38. Mohamed Hemdan, Sherif S. Abdel Mageed, Ahmed I. Abulsoud, Ahmed H.I. Faraag, Mohamed Bakr Zaki, Reda M. Mansour, Ahmed Amr Raouf, **Mohamed A. Ali**, Osama A. Mohammed, Aya Salman, Akram N. Salah, Mustafa Ahmed Abdel-Reheim, Ahmed S. Doghish, (2024). Approaches based on miRNAs in Behçet's Disease: Unveiling pathogenic mechanisms, diagnostic strategies, and therapeutic applications. *Life Sciences*, 122950.
39. Hemdan, M., **Ali, M. A.**, Doghish, A. S., Mageed, S. S. A., Elazab, I. M., Khalil, M. M., ... & Amin, A. S. (2024). Innovations in Biosensor Technologies for Healthcare Diagnostics and Therapeutic Drug Monitoring: Applications, Recent Progress, and Future Research Challenges. *Sensors*, 24(16), 5143.
40. Madoui, K., Ghechi, A., Madoui, S., Yekhlef, R., Belfennache, D., Zaiou, S., & **Ali, M. A.** (2024). Numerical Simulation Study of The Increase in Electrical Efficiency of the CIGS-Based Solar Cell by SCAPS-1D. *East European Journal of Physics*, (3), 390-403. <https://doi.org/10.26565/2312-4334-2024-3-48>

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*Dr. Mohamed Ali*

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References will available upon request