

PERSONAL INFORMATION



Ibrahim Mohamed Hamza Elkattan

📍 El koat el moslaha , el fyrdos , 6th October , Giza , Egypt

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Sex Male | Date of birth 15/06/1986 | Nationality Egyptian

POSITION

Associate. Professor of cement and Concrete technology , Environmental Sciences and Industrial Development Department, Faculty of Postgraduate Studies for Advanced Sciences (PSAS), Beni-Suef University, Egypt.

WORK EXPERIENCE

9 /2023 – Present

Associate. Professor of cement and Concrete technology , Environmental Sciences and Industrial Development Department, Faculty of Postgraduate Studies for Advanced Sciences (PSAS), Beni-Suef University, Egypt.

10 /2017 – 7/2023

Lecturer at Environmental Sciences and Industrial Dep. - Faculty of Postgraduate Studies for Advanced Sciences, Beni-Suef University, Egypt

▪ Main activities and responsibilities:

1) Teaching courses for post-graduate students:

- a. Kiln process and types of cement.
- b. Dusting equipments and cement standers.
- c. Advanced in cement technology.
- d. Cement final products standers types and their usage and impacts.

2) Scientific Research

6/2016 -10/2017

Lecturer at Pyramids Higher Institute (PHI) for engineering and technology, 6th October, Basic science department. (Minister order No. 212 for 2017 year).

▪ Main activities and responsibilities:

▪ Teaching courses for under-graduate students:

- a. Engineering chemistry
- b. Properties and strength of engineering materials (1) -(2)
- c. High Technology of engineering materials
- d. Engineer and environment.
- e. Engineering geology.

3/2013 - 6/2016

PhD Scholarship; Assistant Lecturer, Pyramids Higher Institute for Engineering and Technology, 6th October, Basic science Department. (Minister order No. 1974 in 31/7/2013).

Main activities and responsibilities:

1) Teaching Practical courses for under graduate students:

- a. Engineering chemistry
- b. Properties and strength of engineering materials (1) , (2)
- c. High Technology of engineering materials
- d. Engineering geology
- e. Civil engineering

2) Scientific Research

9/2008 - 3/2013

Master Scholarship; Demonstrator, Pyramids Higher Institute for Engineering and Technology, 6th October, Basic

science Department. (Minister order No. 632 in 28/3/2009).

Main activities and responsibilities:

- 3) Teaching Practical courses for under graduate students:
 - f. Engineering chemistry
 - g. Properties and strength of engineering materials (1) , (2)
 - h. High Technology of engineering materials
 - i. Engineering geology
 - j. Civil engineering
- 4) Scientific Research

EDUCATION AND TRAINING

- 27/9/2017 **Quality Standards in Teaching**
 From Faculty and Leadership Development Centre, Beni-Suef University, Egypt
- 2/10/2017 **Presentation Skills**
 From Faculty and Leadership Development Centre, Beni-Suef University, Egypt
- 17/10/2017 **Research Team Management**
 From Faculty and Leadership Development Centre, Beni-Suef University, Egypt
- 16/9/2017 **University Management**
 From Faculty and Leadership Development Centre, Beni-Suef University, Egypt
- 11/10/2017 **Competitive Research Projects**
 From Faculty and Leadership Development Centre, Beni-Suef University, Egypt
- 4/3/2013 **International Computer Driving License (ICDL)**
 ICDL Foundation CEO
- 11/2013 – 5/2016 **PhD Degree**
 From Faculty of Science, Ain shams University, Egypt
- 12/2009 – 4/2013 **MSc Degree**
 From Faculty of Science, Banha University, Egypt
- 10/2008 -10/2009 **Pre-Master Studies**
 From Faculty of Science, Monufia University, Egypt
- 9/2003 – 5/2007 **BSc Degree**
 From Faculty of Science, Monufia University, Egypt

PERSONAL SKILLS

Mother tongue(s) Arabic

Other language(s)

English Language

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	
C2	C2	C1	C1	C1

- Communication skills
- I am very good in dealing with people
 - I like to work with a creative teamwork
 - I am reliable and hard working
 - I am a very good representative.
 - I have an absorptive learning capability and breadth of intellect to relate and understand the diverse area of group
 - I am Enthusiastic, self-motivated and a team player with an exceptional drive to achieve results in a competitive environment
 - I have Ability to suggest practical solutions to the issues
 - I am self- motivated with an outgoing personality and have a positive attitude at all times

- Organisational / managerial skills
- I am a supervisor for 2 MSc Students.

- Job-related skills
- I am Professional in;**
- Design the different normal concrete mixes.
 - Design high strength concrete mixes.
 - Studying the physicommechanical properties of cement mortars and pastes.
 - Studying the durability of concrete and mortars.
 - Applying different chemical and mechanical tests of concrete and mortars.

- Computer skills
- Have ICDL

ADDITIONAL INFORMATION

- Memberships
- Royal Society of Chemistry (RSC)
 - Egyptian National Nanotechnology Network (ENNN)
 - Arabic science and technology foundation

Area of interest in research

My research interest focuses on studying the physicommechanical properties and durability of cement mortar and concrete by different analysis liked XRD, IR, TGA. DTA and SEM. I have some experience in designing different concrete mixes. geopolymers, green cement, waste management, recycling of wastes and white cement enhancement.

- Publication
1. Performance of Portland Cement Mortar incorporated with Reactive Magnesium Oxide.S.A. Abo-EL-ENein, H.A. Abdel-Gawwad, O.A-Hodhod, I.M.H-Elkattan, Journal of American Science 2016;12(3):51-58.

2. Synthesis and Antimicrobial Evaluation of Thioglucosides and Acyclic C-Nucleosides of 2-Methylbenzimidazole. *Der Pharma Chemica*, 2013, 5(1):210-217
Adel A. H. Abdel-Rahman, Ibrahim F. Nassar, I.M. H. ElKattan, Aly A. Aly, Mohamed S. Behalo and Nayera A. M. Abdelwahed
- 3-- Synergistic effects of curing conditions and magnesium oxide addition on the physico-mechanical properties and firing resistivity of Portland cement mortar. *Construction and Building Materials*. volume 176 10 July 2018, Pages 676–689
H.A. Abdel-Gawwada, b, S.A. Abo El-Eneinc, Mohamed Heikald, e, S. Abd El-Aleemf, A.A. Amerg, I.M. El-Kattan.
- 4- Towards a clean environment: The potential application of eco-friendly magnesia-silicate cement in CO₂ sequestration. Abdel-Gawwad, H. A., Hassan, H. S., Vásquez-García, S. R., Israde-Alcántara, I., Ding, Y. C., Martínez-Cinco, M. A., ... & El-Kattan, I. M. (2020). *Journal of Cleaner Production*, 252, 119875.
- 5- Evaluating the performance of high-volume fly ash-blended-cement mortar individually containing nano-and ultrafine micro-magnesia. Abdel-Gawwad, H. A., Metwally, K. A., Tawfik, T. A., Mohammed, M. S., Hassan, H. S., Heikal, M., & El-Kattan, I. M. (2021). *Journal of Building Engineering*, 36, 102129.
- 6- Role of expanded clay aggregate, metakaolin and silica fume on the of modified lightweight concrete properties. Taher A tawfik, Doha M AISaffar, Bassam A Tayeh, Khaled Al Metwally, El-Kattan, I. M. *Geosystem Engineering* (2021)
- 7- Positive impact of ultra fine-ceramic waste on the physico-mechanical features and microstructure of white cement pastes composites. El-Kattan, I. M., Abdelzaher, M. A., & Farghali, A. A. (2020). *Journal of Materials Research and Technology*, 9(4), 9395-9402.
- 8- Single and combined impact of silica fumes with Functionalized multi-walled carbon Nanotubes and nano silica on performance of cement mortars composites El-Kattan, I. M., Khedr, M. H., Farghali, A. A., Elsaedy, M., & Soliman, F. N. (2021, February).. In *IOP Conference Series: Materials Science and Engineering* (Vol. 1046, No. 1, p. 012024). IOP Publishing.
- 9- Dynamic and Physio Mechanic Effects of Combined Functionalized Multi-Walled Carbon Nano Tubes and Nano Silica Particles on Cement Composites; A comparative Study. Ibrahim M El-Kattan, Ahmed A Farghali, Mohamed Elsaedy, Mohamed H Khedr, Fayiez N Soliman, Aml A Emam. 2020. *Advances in Cement Research*, 1-31
- 10- Influence of nanosilica, metakaolin and Polypropylene Fiber on dynamic and physicomechanical properties of Portland cement mortar. El-Kattan, I. M., Tawfik, T. A., Metwally, K. A., Faried, A. S., & Zakid, W. (2021, February). In *IOP Conference Series: Materials Science and Engineering* (Vol. 1046, No. 1, p. 012002). IOP Publishing.

Conferences and Workshops

11 - An Innovative Method for the Sustainable Utilization of Blast-furnace Slag in the Cleaner Production of One-part Hybrid Cement - Fayed, E. K., El-Hosiny, F. I., El-Kattan, I. M., & Abdel-Gawwad, H. A. (2021).

12- Elkhoully, H. I., Abdelzaher, M. A., & El-Kattan, I. M. (2022). Experimental and modeling investigation of physicomechanical properties and firing resistivity of cement pastes incorporation of micro-date seed waste. Iranian Journal of Science and Technology, Transactions of Civil Engineering., Volume46(4), Accepted 02 Oct. 2021, Published online: 17 Nov. 2021., Pages 2809-2821. DOI: <https://doi.org/10.1007/s40996-021-00760-2> (Publisher: Springer International Publishing)

13-Abdelzaher, M. A., Hamouda, A. S., El-Kattan, I. M., & Baher, A. (2022). Laboratory study for accelerating the CKD mineral carbonation. Egyptian Journal of Chemistry, Volume 65(3), Pages 491-499, Accepted: 16 September 2021, Published online: March 2022. DOI: <https://dx.doi.org/10.21608/ejchem.2021.93980.4425>.

14- El-Kattan, I. M., Saif, M. S., El-Hariri, M. O., Elgandy, A. H., Pérez-Villarejo, L., & Eliche-Quesada, D. (2023). Assessing the individual impact of magnesia and titania nano-particles on the performance of alkali-activated slag mortars. Construction and Building Materials, Volume 365, Pages 130103.

15-Abdelzaher, M. A., Asmaa S. Hamouda, and Ibrahim M. El-Kattan. "A comprehensive study on the fire resistance properties of ultra-fine ceramic waste-filled high alkaline white cement paste composites for progressing towards sustainability." *Scientific Reports* 13.1 (2023): 22097.

16- Saif, Mohamed S., et al. "Impact of magnesia and titania nanoparticles on characteristics of alkali-activated slag mortars exposed to sulfuric acid solution and elevated temperatures." *Construction and Building Materials* 408 (2023): 133645.

Participated in:

4th International Conference on Material Science and Nanotechnology "Future Challenges" April 2-5, 2015 - HBRC (sharm el shiek) – Egypt.

5th International Conference on Material Science and Nanotechnology "Future Challenges" April 2-5, 2016 - HBRC, sharm el shiek - Egypt.

4th International Conference on Advanced Sciences (ICAS4), Hurghada, Egypt,

I was selected to be one of the organization committees in:

1. 4th International Conference on Advanced Sciences (ICAS4), Hurghada, Egypt, 7-10 Nov. 2017
2. 5th International Conference on Advanced Sciences (ICAS5), Hurghada, Egypt, 11-14 Nov. 2019

References

Prof Dr / Mohamed Khedr

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Prof. Ahmed Ali Farghali

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