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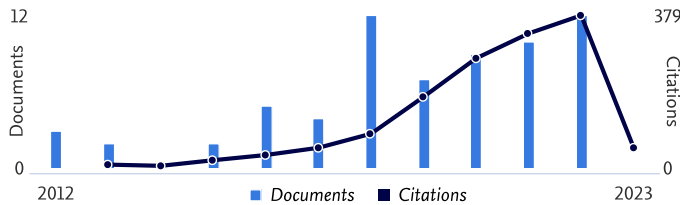
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Cement; Rice Hulls; Mortar

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Sporosarcina Pasteurii; Biomineralization; Bacteria

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Resistance of alkali-activated slag mixed with wastewater towards biogenic sulfuric acid attack

2

Citations

Abdel-Gawwad, H.A., Sikora, P., Mohammed, A.H., ...Al-kroom, H., Elrahman, M.A.

Case Studies in Construction Materials, 2022, 17, e01164

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Article

Synergistic positive effects of nano barium silicate on the hydration rate and phase composition of alkali-activated slag

0

Citations

Al-kroom, H., Arif, M.A., Elkhoresy, A.H., ...Elrahman, M.A., Abdel-Gawwad, H.A.

Journal of Building Engineering, 2022, 59, 105109



Hamdy Abdel-Gawwad

Nationality: Egyptian 🏠 (+20) 01004540743 **Date of birth:** 15/03/1983

Gender: Male ✉ **Email address:** hamdyabdelgawwad@yahoo.com

✉ **Email address:** hamdy.abdelgawwad@hbrc.edu.eg

🌐 **Website:** <https://www.scopus.com/authid/detail.uri?authorId=56748172800>

📍 **Address:** 87 El-Tahrir st., Giza (Egypt)

ABOUT ME

I have published 61 papers in Scopus/Web of science indexed Journals. My h index (Scopus) is 21.

WORK EXPERIENCE

Researcher Assistant

Raw Building Materials Research Institute - Housing and Building National Research Center [17/10/2007 – 27/02/2010]

City: Cairo

Lecturer Assistant

Raw Building Materials Research Institute - Housing and Building National Research Center [28/02/2010 – 08/05/2013]

City: Cairo

Researcher of Building Materials Chemistry

Raw Building Materials Research Institute - Housing and Building National Research Center [09/05/2013 – 09/05/2018]

City: Cairo

Country: Egypt

Manager of Research and Development (R&D) Department

ACFA Company for Building Solution [08/02/2017 – 08/02/2018]

City: Riyadh

Country: Saudi Arabia

- Quality control and assurance
- Research and development (Fiber cement boards and sandwich panels)

Assoc. Prof. of Inorganic and Building Materials Chemistry

Raw Building Materials Research Institute - Housing and Building National Research Center [26/03/2018 – Current]

City: Cairo

Country: Egypt

EDUCATION AND TRAINING

Bachelor of Science in Chemistry

Faculty of Science - Al-Azhar University [15/05/2005]

Address: 87 El Tahrir St. Dokki, Cairo (Egypt)

Preliminary of Master

Faculty of Science - Helwan University [11/05/2008]

Master Science Degree entitled "Physico-chemical studies on alkali activated slag cement pastes"

Faculty of Science - Zagazig University [28/05/2010]

Ph.D. entitled "Utilization of bio-precipitation to improve the physico-mechanical properties of building materials"

Faculty of Science - Ain Shams University [26/03/2013]

HONOURS AND AWARDS

State Incentive Award (Egypt)

Academy of Scientific Research and Technology [08/04/2022]

I have awarded a fund by Nilepreneurs Incubate Program

Nile University in Egypt [10/2020]

The best scientific Paper

11th International conference on nanotechnology in construction [25/03/2019]

One of the best innovators in Cairo International Exhibition of Innovation

Academy of Scientific Research and Technology [27/11/2015]

Visiting Professor (Germany)

Visiting professor to Technische Universität Berlin-Funded by Berlin Center for Global Engagement [17/10/2022]

The main purpose of this visit is to study the feasibility of utilizing concrete waste in the production of building bricks

DIGITAL SKILLS

My Digital Skills

Microsoft Word / Microsoft Excel / Microsoft Powerpoint / Google Drive / Microsoft Office / Zoom / Facebook / Social Media / Power Point / Internet user

CONFERENCES AND SEMINARS

1st International Conference on Innovative Building Materials

[Held on Housing and Building National Research Center, Cairo, Egypt., 28/12/2014 – 30/12/2014]

12th international conference on Chemistry and its Role in Development (ICCRD)

[Held on Sharm El-Sheikh, Egypt, 16/03/2015 – 20/03/2015]

7th International Conference on Nano-Technology in Construction

[Held on Sharm El-Sheikh, Egypt., 27/03/2015 – 31/03/2015]

8th International Conference on Nano-Technology in Construction

[Held on Sharm El-Sheikh, Egypt., 21/03/2016 – 26/03/2016]

1st international Conference on Sustainable Construction and Project Management

[Held on Housing and Building National Research Center, Cairo, Egypt., 29/03/2016 – 31/03/2016]

1st International Conference on Basic Science and Environmental Application

[Held on Fayoum University, Fayoum, Egypt., 28/05/2016 – 30/05/2016]

2nd International Conference on Basic Science and Environmental Application

[Held on Fayoum University, Fayoum, Egypt., 03/04/2018 – 05/04/2018]

10th International Conference on Nano-Technology in Construction

[Held on Hurgada, Egypt., 12/04/2018 – 16/04/2018]

2nd International Conference on Innovative Building Materials

[Held on Royal Kempenski Hotel, New Cairo, Egypt., 02/12/2018 – 04/12/2018]

11th International Conference on Nano-Technology in Construction

[Helton, Sharm El-sheikh, 17/03/2019 – 21/03/2019]

12th International Conference on Nano-Technology in Construction

[Sharm El-sheikh, 16/03/2021 – 20/03/2021]

JOB-RELATED SKILLS

Supervision

- **Ph.D. thesis entitled** "Evaluating the impact of alkali-activation process on the sustainable disposal of some industrial solid wastes" **Faculty of Science, Suez Canal University (2020).**
- **Ph.D. thesis entitled**" Preparation, performance, and anti-bacterial activity of one-part alkali activated cement containing hazardous industrial wastes" **Faculty of Science, Suez Canal University (2020).**
- **M.D. thesis entitled** "Sustainable utilization of industrial solid wastes in the cleaner production of geopolymer cement in Egypt and North Africa" **Cairo University (2020).**
- **M.D thesis entitled** "Preparation and evaluation of the performance of ready-mix hybrid cement" **Faculty of Science-Ain Shams University, (2020).**

- **Ph.D. thesis entitled** "Synergistic effect of nano-materials and MgO-reactivity on the performance of Mg-silicate based cement from different silica sources" **Faculty of Science-Ain Shams University, (2019).**
- **M.D thesis entitled** "Preparation and characterization of eco-friendly geopolymer cement in Egypt and South Africa", **Cairo university (2019).**
- **Ph.D. thesis entitled** "Utilization of both geological earth and waste industrial materials in production of commercially eco- friendly cement". **UNIVERSIDAD MICHOACANA DE SAN NICOLAS DE HIDALGO, MIXECO(2017).**
- **Ph.D. thesis entitled** "A Study on the Utilization of Non-Conventional Cements for Heavy Metals Immobilization". **Faculty of Science-Ain Shams University, (2016).**
- **Ph.D. thesis entitled** " An Extensive Study on Mass Production Enhancement of Innovative Geopolymer Cement". **Faculty of Science-Ain Shams University(2016).**
- **Ph.D. thesis entitled** "A Study on the Utilization of Some Industrial Solid Wastes for the Production of Bacterial Resistant and Environmentally Friendly Cement", **Faculty of Science- Damietta University, (2015).**
- **Ph.D. thesis entitled** "Effect of reactive magnesium oxide on the physico-mechanical and durability of cement mortar". **Faculty of Science-Ain Shams University(2013).**

REVIEWING

I am a reviewer at the following Journals

1. Journal of Construction and Building Materials
2. Journal of Cleaner Production
3. Journal of Materials and Design
4. Journal of Building Engineering
5. Journal of Renewable & Sustainable Energy Reviews
6. Journal of Materials Letters
7. Journal of Ceramics Internationals
8. Journal of Cleaner Engineering
9. Journal of Materials Research and Technology
10. Journal of King Saud University Science
11. Egyptian Journal of Petroleum
12. Journal of American Ceramic Society
13. Journal of Industrial and Engineering chemistry Research (I&CE: ACS-publications)
14. International Journal of Minerals, Metallurgy and Materials
15. Geosystem Engineering
16. Journal of Thermal Analysis and Calorimetry
17. Chemical Papers
18. Journal of Materials
19. Journal of Environmental Science and Pollution Research
20. European Journal of Environmental and Civil Engineering
21. Journal of Materials in Civil Engineering
22. Journal of Advances in Cement Research

LANGUAGE SKILLS

Mother tongue(s): **Arabic**

Other language(s):

English

LISTENING B2 READING B2 WRITING C1

SPOKEN PRODUCTION B1 SPOKEN INTERACTION B1