

CURRICULUM VITAE

- 1) **Name:** AbdelMonem Mohamed AbdelMonem Moursi Soltan.
- 2) **Address:** Geology Department, Faculty of Science, Ain Shams University, Egypt-11566.
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- 5) **Scopus Name/ID:** Soltan, Abdel Monem Mohamed A M/24380861200
- 6) **ORCID ID:** 0000-0001-7681-4885
- 7) **h-index:** 6
- 8) **Total citations:** 100
- 9) **Researcher ID:** G-9106-2016

10) Education:

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| 01/04/2004 – 01/07/2007 | Ph.D. degree in applied mineralogy from Ain Shams University, Egypt. <i>Thesis title: Contribution to the petrography, geochemistry and industrial uses (lime production) of some Egyptian limestones.</i> |
| 01/09/1998 – 01/04/2004 | M.Sc. degree in applied mineralogy from Ain Shams University, Egypt. <i>Thesis title: Mineralogical studies of the black shale intercalation associated to the main coal seams in Gabal Maghara coal mine, (Sinai Peninsula) and their utilization in ceramic industry.</i> |
| 01/09/1994 – 01/09/1998 | B.Sc. degree in Geology from Ain Shams University, Cairo, Egypt. |
| 01/09/1991 – 01/09/1994 | High school from Bab-ElShariya School, Cairo, Egypt. |

11) **Current position:** Professor of Applied Mineralogy, Ain Shams University, Egypt-11566.

12) Previous positions:

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| 31/03/2013 – 19/01/2018 | Associate Professor - Ain Shams University |
| 24/09/2007 – 31/03/2013 | Lecturer - Ain Shams University |
| 27/04/2003 – 24/09/2007 | Teaching Assistant - Ain Shams University |
| 23/10/1997 – 27/04/2003 | Demonstrator – Ain Shams University |

13) Further training:

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| 01/03/2009 – 01/04/2009 | German Language Training, Goethe Institute, Cairo, Egypt. |
| 01/02/2008 – 01/03/2008 | Workshop on teaching skills. |
| 01/09/2000 – 01/12/2000 | English Language Training, Al-Alsun, Ain Shams University Cairo, Egypt. |

14) Awards:

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| 01/04/2014 – 30/09/2014 | GERSS Postdoc scholarship, Martin-Luther University, Germany |
| 01/04/2012 – 30/09/2012 | GERSS Postdoc scholarship, Bremen University, Germany |
| 01/09/2009 – 01/12/2009 | GERSS Postdoc scholarship, Bremen University, Germany |

15) Teaching activities:

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| 15/09/1997 – Present | Teaching mineralogy and petrology courses at Geology Department, Faculty of Science, Ain Shams University, Egypt. |
| 15/06/2010 – 30/09/2010 | Supervising graduation project at Geology Department, Faculty of Science, Ain Shams University, Egypt. |

01/09/2011 – 01/09/2014	Supervising M.Sc. thesis titled: Suitability of quicklime production from the limestones along AL- Korymat -AL-Zafarana, Egypt.
01/09/2012 – 01/09/2016	Supervising M.Sc. thesis titled: The use of waste of some Egyptian granitoids as a component in the production of ceramics.
01/09/2013 – Present	Supervising M.Sc. thesis titled: Suitability of Ataqa dolomitic rocks as concrete aggregates.
01/09/2014 – Present	Supervising M.Sc. thesis titled: Geochemistry of some Egyptian nepheline syenites and their utilization in glass ceramics.
01/11/2014 – Present	Supervising M.Sc. thesis titled: Impact of weathering grade on the petrological and engineering properties of some Egyptian metavolcanics for utilization as concrete aggregate.
01/12/2014 – Present	Supervising Ph.D. thesis titled: Stabilization of Egyptian clayey soils using industrial carbonate wastes.
01/09/2015 – Present	Supervising M.Sc. thesis titled: The effect of Egyptian feldspar on the characteristics of cement clinker.

16) Research projects:

26/06/2020 - Present	Principal investigator: Optimization the thermal degradation-, radiation emission- and failure behavior-resistance of raw material-based biological shielding concretes.
15/03/2020 - Present	Principal investigator: Calcination modeling of Egyptian Kaolin; funded by ASRT.
01/09/2017 – Present	Principal investigator of the project: Modeling and production of lightweight aggregates and concretes from Egyptian shales and their roles in conserving energy and environment; funded by ASRT.
01/04/2016 – Present	Co-investigator in the project No. USC 17:104 entitled: An integrated approach for a better understanding of the hydrologic setting, longevity and optimum utilization of the Nubian Sandstone Aquifer System in Egypt; funded by STDF – USA Joint Board.
01/07/2015 – 2017	Principal investigator in the project entitled: Microstructural study of radiation-resistant concrete; funded by Ain Shams University - Egypt.
01/07/2009 – 01/07/2011	Co-investigator in the project entitled: Recycling of ornamental stones hazardous wastes; funded by Ain Shams University - Egypt.
01/01/2010 – 01/01/2013	Co-investigator in the interdisciplinary research project No. FOS/MRG-06/11 entitled: Assessment of the UAE limestone characteristics for the production of the quicklime; funded by the United Arab Emirates University - UAE.

17) Publications:

A. Monographs and Books

- 1) **Soltan, A.*** (2016): Economic Geology: Lecture Notes. Lambert Academic Publishing, 164 pp.
- 2) Pöllmann, H., **Soltan, A.*** (2015): التماثل - الائنتا والثلاثون مجموعة نقطية - المعادن واشكالها pp. 193. <http://public.bibliothek.uni-halle.de/index.php/hjgb/article/view/1645/1711>.

B. Publications with peer-review process

- 3) Mohamed Farouk, **AbdelMonem Soltan**, Steffen Schlüter, Esmat Hamzawy, Ali Farrag, Ahmed El-Kammar, Ahmed Yahia, Herbert Pollmann (2020): Optimization of microstructure of basalt-based fibers intended for improved thermal and acoustic insulations. **Journal of Building Engineering**. (Impact factor: 3.379).
- 4) Hamzawy, E, M, A., **Soltan, A. M.**, El Kalioubi, B and Yahya, A, M., (2018): Characterization of Abu Khruq Nepheline Syenite and its compensation with soda-lime-glass for preparation of glass-ceramic. **Egyptian Geological Society**, v.62, p. 335-348.
- 5) **Soltan, A.***, El-Shimy, H., Abd EL-Raouf, F., Fuchs, F., König, A., Yahya, A., AbdelFattah, M., Serry, M., Pöllmann, H. (2018): Microstructure and phase composition of cordierite-based co-clinker. **Ceramics International**, vol. 44, 5855-5866 pp. (Impact factor: 3.830). (<https://doi.org/10.1016/j.ceramint.2017.11.179>)
- 6) **Soltan, A.***, Pöhler, K., Fuchs, F., Abd EL-Raouf, F., El-Kaliouby, B., König, A., Pöllmann, H. (2016): Clay-bricks from recycled rock tailings. **Ceramics International**, vol. 42, 16685-16696 pp (Impact factor: 3.830).
- 7) **Soltan, A.***, Kahl, W., Abd EL-Raouf, F., El-Kaliouby, B., Serry, M., Abdel-Kader, N. (2016): Lightweight aggregates from mixtures of granite wastes with clay. **Journal of Cleaner Production**, vol. 117, 139–149 pp. (Impact factor: 5.715).
- 8) **Soltan, A.***, Pöllmann, H., Kaden, R., König, A., Abd EL-Raouf, F., Eltaher, M., Serry, M. (2015): Degradation of aluminosilicate refractories: An integrated approach. **Journal of the European Ceramic Society**, vol. 35, 4573–4592 pp. (Impact factor: 3.411).
- 9) **Soltan, A.***, Serry, M. (2015): Effect of micro-fabric and micro-chemistry on improvement of hydration and slag attack resistance of ilmenite-doped refractory lime. **Mineralogy and Petrology**, Vol. 109, 35–44 pp. (Impact factor: 1.236).
- 10) **Soltan, A.***, Wendschuh, M., Willims, H., Serry, S. (2014): Densification and resistance to hydration and slag attack of ilmenite-doped MgO-dolomite refractories in relation to their thermal equilibrium and microfabric. **Journal of the European Ceramic Society**, Vol. 34, No. 8: 2023–2033 pp. (Impact factor: 3.411).
- 11) **Soltan, A.***, Serry, A. (2014): Influence of thermal equilibrium and micro-fabric of dense zircon-doped dolomite refractories on their rate of hydration and slag attack. **European Journal of Mineralogy**, Vol. 26, 657-665 pp. (Impact factor: 1.362).
- 12) Alaabed, S., **Soltan, A.***, Abdel-Ghani, O., Bahaa Eddin, M., ElTokhi, M., Khalil, A., Musalim, A. (2014): United Arab Emirates limestones: impact of petrography on thermal behavior. **Mineralogy and Petrology**, Vol. 108, No. 6, 837-852 pp. (Impact factor: 1.236).
- 13) **Soltan, A.***, Kahl, W.-A., Wendschuh, M., Hazem, M. (2012): Microstructure and reactivity of calcined mud supported limestones. **Mineral Processing and Extractive Metallurgy**, vol. 121, no. 1, 5-11 pp.
- 14) **Soltan, A.*** (2012): Effect of limestone physico-mechanical parameters on calcination verified models. **Egyptian Journal of Geology**, vol. 56, 543-557 pp.
- 15) Tawfik, A.*, **Soltan, A.**, El-Hemaly, S., Abd-Raouf, F. (2012): Marble stone waste as a raw material for autoclaved sand-lime bricks. **Interceram**, Vol. 61, No. 3, 96-100 pp.
- 16) **Soltan, A.***, Serry M., (2011): Impact of limestone microstructure on the calcination activation energy. **Advances in Applied Ceramics**, no. 7, vol. 11, 409-416 pp.

- 17) **Soltan, A.***, Kahl, W.-A., Hazem, M., Wendschuh, M., Fischer, R. (2011): Thermal microstructural changes of grain-supported limestones. **Mineralogy and Petrology**, vol. 103, no. 1-4, 9-17pp. (**Impact factor: 1.236**).
- 18) **Soltan, A.***, Taman, Z. I. and El-Kaliouby, B. A., (2011): Recycling of ornamental stones hazardous wastes. **Natural Resources**, vol. 2, no. 4, 244-249 pp.
- 19) **Soltan, A.***, Awad, S., El-Ansary, G. (2010): Applicability of Egyptian limestones for calcination. **Applied Earth Science**, vol. 119, no. 4, 236-242 pp.
- 20) **Soltan, A.*** (2009): Petrographic modelling of Egyptian limestones for quicklime production. **Arabian Journal of Geosciences**, vol. 4, no. 5-6, 803-815 pp. (**Impact factor: 0.955**).
- 21) Abu-zeid, M., Sharaf El-Din, M., Serry, M., **Soltan, A.*** (2008): Relative importance and impact of the petrographic components of some Egyptian limestones on quicklime production. **Proceeding of the third international conference on the Geology of the Tethys**, 233-250 pp.
- 22) Serry, M., Abu Zeid, M., Sharaf El-Din M., **Soltan, A.*** (2008): Evaluation of Egyptian Limestones for Quicklime Manufacture. Part 1: Characterization of technological limestone samples for quicklime manufacture. **ZKG**, No. 5, 68-77 pp.
- 23) Serry, M., Abu Zeid, M., Sharaf El-Din, M., **Soltan, A.*** (2008): Evaluation of Egyptian Limestones for Quicklime Manufacture. Part 2: Factors influencing rate of active-lime liberation of the technological limestone samples. **ZKG**, No. 6, 61-71 pp.
- 24) Ibrahim, D., Abdel Aziz, D., Awad, S., **Soltan, A.*** (2004): Utilization of black shales in earthenware recipes. **Ceramics International**, 30, 829-835 pp. (**Impact factor: 3.830**).

C. Publications without peer-review process

- 1) Alaabed, S.*, **Soltan, A.**, Abdelghany, O., El Tokhi, M., Mahmoud, B. (2016). Assessment of the UAE Limestones for the Production of Quicklime. 4th Fujairah International Forum for Rocks & Mining Expo. Fujairah, UAE. (Oral Presentation)
- 2) Alaabed S*, **Soltan, A.**, Abdelghany, O., El Tokhi, M., Mahmoud, B. (2016). Calcination of the UAE Limestones, A Laboratory Experiment. 2nd International Conference on Geology, Dubai, UAE. (Oral Presentation)
- 3) Alaabed, S., **Soltan, A.***, Abdelghany, O., Mahmoud, B., ElTokhi, M., Abbas, K., Musalim, A. (2013): Emirati limestones: Impact of low temperature microstructure on the industrial applications. 11th International Council for Applied Mineralogy (ICAM) Congress. (Oral Presentation)
- 4) **Soltan, A.***, Waleed, O. (2013): Assessment of ornamental stone waste as expansive soil stabilizer. 11th International Council for Applied Mineralogy (ICAM) Congress. (Poster Presentation)
- 5) **Soltan, A.***, Michael, W., Willims, H, Serry, M. (2013): Hydration and slag-attack resistance of dense MgO-dolomite refractory grains in relation to their phase composition and microfabric. 11th International Council for Applied Mineralogy (ICAM) Congress. (Oral Presentation)
- 6) **Soltan, A.***, (2012): Effect of limestone physico-mechanical parameters on calcination verified models. The international forum and exhibition on economics of mineral resources in the Arab countries (Ecominex), Al-Azhar University, Egypt. (Oral Presentation)
- 7) **Soltan, A.***, Serry, M. (2011): Impact of limestone microstructure on calcinations activation energy. 31st Cement and Concrete Science, Imperial College London. (Oral Presentation)

- 8) **Soltan, A.***, Kahl, W.-A., Wendchau, M., Fischer, R., Hazem, M. (2011): Calcination Microstructural Behaviour of Mud-supported limestones. 31st Cement and Concrete Science, Imperial College London. (Poster)
- 9) **Soltan, A.***, Awad, S., El-Ansary, G. (2011): Suitability and Optimization of Egyptian Limestones for Quicklime Production. 31st Cement and Concrete Science, Imperial College London. (Poster)
- 10) **Soltan, A.***, Taman, Z., El-Kaliouby, B. (2011): Recycling of Ornamental Stones Hazardous Wastes. 31st Cement and Concrete Science, Imperial College London. (Poster)
- 11) **Soltan, A.***, Taman, Z., El-Kaliouby, B. (2011): Recycling of Shak Al-Thoaban Wastes for Lime Production. The international forum and exhibition on economics of mineral resources in the Arab countries (Ecominex), Al-Azhar University, Egypt. (Oral Presentation)
- 12) **Soltan, A.***, Kahl, W.-A., Wendchau, M., Fischer, R., Hazem, M. (2010): Impact of thermal microstructural changes of Egyptian limestones on quicklime reactivity: Mud-supported limestones. The 88th Deutschen Mineralogischen Gesellschaft (DMG), Munster Universitat, Germany. (Poster).
- 13) **Soltan, A.***, Fischer, R., Hazem, M., Kahl, W.-A., Kuss, H. (2010): Impact of thermal microstructural changes of Egyptian limestones on quicklime reactivity. Part 1: Grain-supported limestones. Proceeding of GAW 10 conference, p. 6. (Oral Presentation)
- 14) **Soltan, A.***, Hazem, M., (2009): Quicklime Reactivity as a Function of Limestone Microstructure and Firing Conditions. The 87th Deutschen Mineralogischen Gesellschaft (DMG), Martin-Luther-Universitat- Halle-Wittenberg, Germany, p. 238. (Oral Presentation)
- 15) **Soltan, A.*** (2008): Optimum petrographic composition and firing conditions for quicklime production. The 28th Cement and Concrete Science Conference, Manchester University, UK. (Oral Presentation)
- 16) Abu-zeid, M., Sharaf El-Din, M., Serry, M., **Soltan, A.*** (2008): Relative importance and impact of the petrographic components of some Egyptian limestones on quicklime production. Proceeding of the third international conference on the Geology of the Tethys, pp. 233-250. (Oral Presentation)

* = Corresponding author, Speaker

18) Organisation of scientific meetings/Editorial activities:

- 15/10/2012 – 21/10/2012 Organization of the 10th International Conference on the Geology of the Middle East which was held by Ain Shams University.
- 10/06/2014 – 10/06/2015 Lead Guest Editor of the "Applied Geology" special issue. <http://www.sciencepublishinggroup.com/specialissue/161003>.

19) Communication with scientific society:

- DAAD site Facebook:
<https://www.facebook.com/daad.cairo.office/photos/a.543420639005190.138713.543041529043101/1119983391348909/?type=1&theater>,
 Google+: <https://plus.google.com/u/0/+DAADCairooffice/posts/3juXPYyhuo5>,
 Twitter: <https://twitter.com/daadcairo>,
- DWZ site Website: <http://www.dwz-kairo.de/content/daad-cairo-reveals-new-success-story-one-its-alumni>;
 Facebook: <https://www.facebook.com/DWZ.Kairo/posts/674143152729241>
 Twitter: <https://twitter.com/DWZ3/status/608205817549090816>

20) Industrial consultations:

01/07/2008 – 01/03/2009 Consultant at ASCOM "GEOLOGY and MINING", Cairo, Egypt.
01/03/2009 – 01/04/2012 Consultant at Plena Capital Ltd., Cairo, Egypt.

21) Languages:

Arabic	Native language
English	Very Good
German	Fair

22) Membership:

01/01/1998 – Present	Geological Society of Egypt
01/01/1999 – Present	Mineralogical Society of Egypt

23) References

Prof. Dr. Dr. Herbert Pollmann. Professor of Mineralogy, Martin-Luther University, Germany. Tel: +49 0345/5526110, herbert.poellmann@geo.uni-halle.de, <http://www.geologie.uni-halle.de/igw/mingeo/Team.html>.