Curriculum Vita

Personal Information

Name: Sanaa said Abd Elmomen
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Birth date*:8/4/1961*
Nationality: Egyptian.
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Qualifications

Bh.D. Chemistry (inorganic) faculty of science, Cairo university, 1998.

Title of the Thesis: Benifitiation of the Sintering Process of Baharia Oasis Iron Ore

M.Sc. Chemistry (inorganic) faculty of science, Cairo university, 1989.

Title of the Thesis: Effect of Constituents and Thermal Treatments of Some Magnesia–Based Refractories on their Composition and Properties"

B.Sc. Chemistry faculty of science, Cairo university, 1983.

Experience

1985-1989	Instructor in the chemical engineering department in the field of refractory material, Tabbin institute for metallurgical studies**.** Supervision of Project, Characterization of the refractory materials used for the manufacturing of BOF lining at the Egyptian iron and steel company
1989-1998	Lecturer assistant in the Chemical Engineering department in the field of sintering of iron ore, Tabbin institute for metallurgical studies
1998-2013	Lecturer in the Ferrous Metallurgy department, Tabbin institute for metallurgical studies**, lecturing** in iron making, thermodynamics and kinetics of metallurgical process and others related topics. Supervision **of B. Sc.**Project works in Metallurgy department , Faculty of Engineering, Cairo University.

2013-2021 Associate professor, in the Ferrous Metallurgy department,
Supervising **Post-graduate Project works,** Tabbin institute for metallurgical studie

Research Experience

- **Characterization and Composition of Magnesite -Dolomite Refractory**
- **Beneficiation of iron ore**
- **Slag -metal reactions in iron making in blast furnace**
- **Reoxidation of Direct Reduced iron (DRI)**
- **Oxidation kinetics of metals and alloys**
- **Corrosions problems**

List of publications

1.Characterization of Some MgO-Based Refractories

Part: I"Phase Equilibrium of Some MgO-Based Grains

Part: II" Properties of Some MgO-Based Grains and Texture"

Part: III"Composition and Properties of Some tar Bonded MgO-Based refractories" T.I.M.S vol. 59, 1992, pp, 1-29

2. Effect of Replacement of Coke Breeze by Petroleum Coke on the Parameters of Sintering process, M.E.H.Shalbi, A.M.Baraka, M.A.Abdalla,S.S.Abdelmomen,

International mineral processing symposium, October 16-18, 2000.

3. Effect of Particle Size of Iron Ore on the Sintering, of El- Gedida Iron Ore,M.E.H.Shalabi,A.M.Baraka,M.A.Abdalla,S.S.Abdelmomen,

Gospodarka Surowcami Mineranymi, vol.17, 2001, 255-270.

4. Replacement of Lime stone by Dolomite in the Sintering of El-Baharia Iron Ore, M.E.H.Shalabi, A.M.Baraka, M.A.Abdalla, S.S.Abdelmomen, Interenational Conference on Material Science and Technology, April 2-4, 2001, BeniSuef,Egypt, vol.2, 349-364.

5. Production of metalized sinter from El-Baharia Iron Ore, M.E.H.Shalbi, A.M.Baraka, M.A.Abdalla, S.S.Abdelmomen, International Conference on Material Science and Technology, April 2-4, 2001, BeniSuef, Egypt, vol.2, 365-378.

6. Inhibiting Corrosion and Hydrogen Embrittlement in Carbon Steel during Pickling R. Abdel-Karim, S. El-Raghy, and A.F. Waheed, S.S. Abdel Momen, Material Performance, 2009, VOL 48; NUMB 5, pages 46-52. Publisher, NATIONAL ASSOCIATION OF CORROSION ENGINEERS, USA

7. Inhibition Effect of Propargylic Alcohol during pickling of Low Carbon Steel in 1M Hydrochloric Acid Solution, S.S.Abdelmomen, Journal of Engineering and Applied Science, Vol.56, No.5, OCT.2009, PP.599-610, Faculty of Engineering, Cairo University.

8. Effect of Water-Polyethylene Glygol Mixtures on Microstructure, Hardness and Corrosion of Steel 10 R.Abdel -Karim, S.S.Abdelmomen, and M. Nabil, Journal of Engineering and Applied Science, Vol.59, No.4,AUG.2012, PP.357-376, Faculty of Engineering, Cairo University.

9. Study of the Corrosion Products Formed on low- Carbon Steel Exposed to Different Environments in Egypt, S.S. Abd-Elmomen, Journal of Petroleum and Mining Engineering, Vol.15, No.2 December 2012, PP. 83-95.

10. Reoxidation of Direct Reduced Iron in Ambient Air, S. S. AbdElmomen, Ironmaking & Steelmaking, Publisher: Maney Publishing, UK, Impact Factor=0.454

11. Characterization of Rust Layers Formed on Weathering Steel, R. Abdel-Karim S.S.Abd-Elmomen, Journal of Petroleum and Mining Engineering, Vol.16, No.1 Jun 2013.

12. Influence of Slag Composition and Temperature on Silicon Distribution between Slag and Hot Metal in the Egyptian Blast Furnace No.III, S.S. Abd Elmomen, Journal of Petroleum and Mining Engineering 19(1)2017, pp 26-32.

13. Manganese Distribution between Slag and Metal in the Egyptian Blast Furnace,S.S.AbdElmomen, Key Engineering Materials 2018,vol.786, pp 65-74. Trans Tech Publications, Switzerland

14. High temperature oxidation of non equi-atomic Al5Cr12Fe35Mn28Ni20 high entropy alloy, Mayar Ali1, Sanaa Said Abd Elmoamen2, Mohamed A.H. Gepreel3, Hafiz A. Ahmed4 and Fawzi A. Mater.Res.Express 8(2021)036508. Published by IOP Publishing

15. Effect of Partial Replacement of Iron Ore by Mill Scale on the Sinter Process, B. Saleh, S. S. Abd Elmomen and M.G. Kahlifa, Journal of Petroleum and Mining Engineering 23(1)2021 ,pp6-11.

16. Thermodynamics of Sulphur Distribution Between Slag and Hot Metal in Blast Furnace, S. S. Abd Elmomen, Egypt. J. Chem. Vol. 64, No. 8 pp. 4157 - 4164 (2021)

17. Reoxidation of Direct Reduced Iron in Stagnant Air in The Temperature Range between 150 and 450°C, TIMS, Volume & Issue: Volume 109, Issue 1, Summer and Autumn 2021, Pages 1-72.

18. Influence of the oxidation behavior of Ti-6Al-4V alloy in dry air on the oxide layer microstructure" Lamiaa Z. Mohamed1*, S.S.Abd Elmomen, Shimaa El-Hadad, Chemical Papers ,January 2022 . https://doi.org/10.1007/s11696-021-01976-2

19. Thermal oxidation Behavior of Ti-6Al- 7Nb Alloy in Dry Air" Lamiaa Z. Mohamed1*, S.S.Abd Elmomen, Shimaa El-Hadad, Materials and Corrosion (accepted May 2022). DOI: 10.1002/maco.2021