



Cairo University

List of Papers Published in Conferences Attended by Dr. Fakiha Mohamed El-Taib Heakal

Professor of Physical Chemistry
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1. "Controlling the Biodegradation Rate of Mg Alloy by Drug and Its Monitoring Using a Novel Electrochemical Nano-Pd Sensor"
Fakiha El-Taib Heakal*
Egyptian Academic Together (E. T. U. in UK) 13 – 14 March 2021, online (using Zoom).
2. "Synthesis of Worm-Like Ni-Co-P Capacitive Material Via Electroless Deposition Approach for Efficient Energy Storage"
Fakiha El-Taib Heakal*, Noura S. Tantawy, Safaa Y. Ahmed
The 34th Eg-MRS Annual Meeting, online (using Zoom), **Egypt, 29 – 30 August 2020.**
3. "Characterization of the Passive State on Pure Zinc in Alkaline Bicarbonate/Carbonate Buffer Solutions"
Fakiha El-Taib Heakal*, Noura S. Tantawy and Walaa R. Abd Ellatif
The XXXIII International Conference: Materials Science and Applications, **Hurgada, Egypt, 27 – 30 November 2019.**
4. "Monte Carlo Simulation for Guar and Xanthan Polymers as Green Scale Inhibitors"
Fakiha El-Taib Heakal*, Ayman Esmat Elkholy
13th Arab International Conference on Polymer Science and Technology (ESPST), **Sharm El-Sheikh, Egypt, 22 – 26 October 2017.**
5. "Stability performance of different anodic alumina (AAO) films in aqueous sulfate solutions"
Fakiha El-Taib Heakal*
3rd World Congress on Materials Science & Engineering, Oil, Gas and Petrochemistry, **Barcelona, Spain, 24-26 August 2017**
6. "Role of Some Plating Parameters in the Properties of Ni-P/Al₂O₃ Nanocomposite Coatings on Mg alloy"
Fakiha El-Taib Heakal*, M.A. Maanoun
The International Conference on Chemical Sciences & Applications, **Alexandria, Egypt, 6 – 9 August 2016.**
7. "Nanoporous Colored Aluminum Oxides Prepared by Different Detachment Methods: EIS Stability Study in Acidic Solution"
Fakiha El-Taib Heakal*
The 4th Nano Today Conference, **Dubai, EAR, 6 - 10 December 2015.**
8. "Surface Stability of Metallic Implants in Physiological Solutions"
Fakiha El-Taib Heakal*

The 12th International Conference on Chemistry and Its Role in Development, (iccrd 12),
Sharm El-Sheikh, Egypt, 16 - 20 March 2015.

9. "Improving the Corrosion Resistance of AM60 Magnesium Alloy in Chloride Solution by Rare Earth Salt"
Fakiha El-Taib Heakal*
65th Annual Meeting of the International Society of Electrochemistry (ISE), **Lausanne, Switzerland, 31 August to 5 September 2014.**
10. "Environmentally Friendly Direct Electroless and Nanostructure Electroless Nickel Plating on Magnesium Alloy for Corrosion Control"
Fakiha El-Taib Heakal*, M.A. Shoeib, M.A. Maamoun
Second International Congress on Advanced Materials (AM2013), Jiangsu University, **Zhenjiang, China, 16 to 19 May 2013.**
11. "Developing and Testing of Some New EN Coatings for Preventing Corrosion of Steel"
Fakiha El-Taib Heakal*, M.A. Shoeib
First International Congress on Advanced Materials (AM2012), **Beijin University, Beijin, China, 6 to 8 June 2012.**
12. "Electrochemical Behavior of AZ91D Magnesium Alloy in Phosphate Solutions of Different pH"
Fakiha El-Taib Heakal*
62nd Annual Meeting of the International Society of Electrochemistry (ISE), **Niigata, Japan, 11 to 16 September 2011.**
13. "Electrochemical Characterization of the Passive Behavior of Titanium and Ti-6Al- 4V Alloy in HBr Solutions"
Fakiha El-Taib Heakal*
29th Annual Meeting, 1st International Conference on Corrosion Mitigation and surface Protection technologies, **Alexandria, Egypt, 14 to 16 December 2010.**
14. "Corrosion and Passivation Behavior of AZ91D Magnesium Alloy in Aqueous Halide Solutions"
Fakiha El-Taib Heakal*
60th Annual Meeting of the International Society of Electrochemistry (ISE), **Beijin, China, 16 to 20 August 2009.**
15. "Role of some Thiadiazodle Derivatives as Inhibitors for the Corrosion of Carbon Steel in 1 M H₂SO₄"
Fakiha El-Taib Heakal*, A.S Fouda, M.S. Radwan
The 27th Annual conference of ECS on Corrosion Challenges in Industry, **Ismailia, Red Sea, Egypt, 25 to 27 November 2008.**
16. "Electrochemical Behavior of AZ91D Magnesium Alloy in Phosphate Medium"
Fakiha El- Taib Heakal*, A.M. Fekry, M.Z. Fatayerji
The 27th of Annual Conference of ECS on Corrosion challenges in Industry, **Ismailia, Red Sea, Egypt, 25 to 27 November 2008.**

17. "Corrosion Characterization of New Tin-Silver Binary Alloys in Nitric Acid Solutions"
Fakiha El-Taib Heakal*, A.M. Fekry, A. A. Ghoneim
The 26th Annual Conference of ECS on Corrosion problems in industry, **Ismailia, Red Sea, Egypt**, 26 to 28 November **2007**.
18. "Developing and Testing of Some New EN Coatings for Preventing Corrosion of Mild Steel in Phosphoric Acid Solution"
Fakiha El-Taib Heakal*, M.A Shoeib and R.M.T. El-Refai
The 26th Annual conference of ECS on Corrosion problems in industry, **Ismailia, Red Sea, Egypt**, 26 to 28 November **2007**.
19. "Growth of Nanostructure of Metals Oxide by Laser Ablation and by SiO₂ Assisted Thermal Evaporation"
L. El-Nadi, G. Mahena, M. Omar, H. Abdel-Moneim, F. El-Taib Heakal and F. Abdel Reheim
Second International Conference of Modern Trends in Physics Research, **MTPR-06, Cairo, Egypt**, 6 to 11 April **2006**.
20. "Corrosion Resistance Properties of TA6V Alloy in Relation to Ti in Iodic Acid Solutions"
Fakiha El-Taib Heakal*, A.A. Ghoneim, A.S. Mogoda and Kh.M. Awad
The 25th Annual conference of ECS on Corrosion problems in industry, **Ain El-Sukhna, Red Sea, Egypt**, 4 to 6 December **2006**.
21. "The Synergetic Effect of Iodide Ions and Some Aminoazole Derivatives on the Corrosion of C-Steel in 1M Sulphuric Acid"
A.S. Fouda, H.A. Mostafa, Fakiha El-Taib Heakal* and G.Y. Elawady
The 4th International Conference on Electrochemistry (ICE-IV), **South Valley University, Qena, Egypt**, 16 to 19 February **2004**.
22. "Corrosion Behavior of Heat-Treated Ductile Cast Iron Specimens in Uninhibited and Inhibited Sulphuric Acid Medium"
Fakiha El-Taib Heakal*, A.A. Ghoneim and N.H. Hassab
The 22nd Annual Conference of ECS on Corrosion Problems in Industry, **Ain El-Sukhna, Red Sea, Egypt**, 8 to 11 December **2003**.
23. "Addition of Tin to the Lead Acid Battery Electrodes"
S.E. Afifi, A.E. Saba, Fakiha El-Taib Heakal and A.Y. Shenouda
The 54th Annual Meeting of the International Society of Electrochemistry (ISE) Conference, **Sao Paulo, Brazil**, 31 August to 5 September **2003**.
24. "The Role of Lead Hydroxide in the Lead Acid Battery Electrodes"
A.E. Saba, A.E. El-Sherief, S.E. Afifi, Fakiha El-Taib Heakal and A.Y. Shenouda
The 5th International Conference on LAB, **Varna, Bulgaria**, 10 to 13 June **2002**.
25. "Effect of Heat Treatment and Thiourea on the Electrochemical and Corrosion Behavior of Ductile Cast Iron in IM H₂SO₄ Solution"
Fakiha El-Taib Heakal*, A.A. Ghoneim and A.R. Ismaeel
The 21st Annual Conference of ECS on Corrosion Problems in Industry, **Sharm El-Sheikh, Egypt**, 17 to 20 December **2002**.

26. "Some Aspects of the Formation and Dissolution of ZrO_2 in Acid Solutions"
Fakiha El-Taib Heakal*, A.S. Mogoda and A.A. Ghoneim
 The 1st International Conference on Electrochemistry and its Applications (I.C.E.-I),
Luxor, Egypt, 26 to 28 November 1996.
27. "Adsorption of Thiosemicarbazide at the Mercury-Electrolyte Interface"
Fakiha El-Taib Heakal, B.E. El-Anadoli and B.G. Ateya
 The 1st International Conference on Electrochemistry and its Applications (I.C.E.-I),
Luxor, Egypt, 26 to 28 November 1996.
28. "Oxidation Behaviour of Bismuth in Some Aqueous Media"
Fakiha El-Taib Heakal* and N.A. El-Mobarak
 The 1st International Conference on Electrochemistry and its Applications (I.C.E.-I), **Luxor, Egypt, 26 to 28 November 1996.**
29. "Cyclic Voltammetric Characterization of Bi Metal in Sodium Hydroxide Solutions"
Fakiha El-Taib Heakal* and N.A. El-Mobarak
 The 1st International Conference on Electrochemistry and its Applications (I.C.E.-I), **Luxor, Egypt, 26 to 28 November 1996.**
30. "Influence of Some Formation Conditions on the Spontaneous Dissolution of Anodic Oxide Films on Aluminum"
Fakiha El-Taib Heakal*, A.A. Mazhar and Kh.M. Awad
 Proceedings and Abstract of the II Conference on Chemistry and its Applications, p.11
Mansoura University, Mansoura, Egypt, 27 to 29 September 1988.
31. "Corrosion Inhibition and Adsorption Behaviour of Some Thioamides on Mild Steel in H_2SO_4 ", **B.E. El-Anadoli, F. El-Taib Heakal, F.M. Nizami and B.G. Ateya.**
 Proceedings & Abstracts of the 174th **Electrochemical Society Meeting, Chicago, Illinois, USA, 9 -14 October 1988.**
32. "Adsorption of n-Decyltriethylammonium Bromide at the Dropping Mercury Electrode"
Fakiha El-Taib Heakal*
 Proceedings & Abstracts of the 7th Australian Colloid and Surface Chemistry Conference,
 p. 10, **Melbourne, Australia, 2 to 4 September 1977.**
33. "Electrocatalysis of In (III) Reduction at the Mercury Cathode by Anions and Cations"
A.A. Moussa, Fakiha El-Taib Heakal* and M.M. Abou-Romia
 Abstracts of the Fourth Arab Chemical congress (IXth, Egyptian), p.145, **National Research Center, Cairo, Egypt, 26 to 29 April 1975.**