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CURRICULUM VITAE

Personal Data

Name: Emad Aboul Seoud Abd El Meguid

Place of Birth: Giza, Egypt

Date of Birth: 10/3/1959

Martial Status: Married and have 3 children

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Permanent Address: Department of physical chemistry, National Research Center (NRC) Dokki, Cairo, Egypt

Educational Background

B.Sc, Chemistry, Ain Shams University. Egypt (1981).

M.Sc, Electroplating, Ain Shams University, Egypt (1986).

Ph.D, Electrochemistry & Corrosion, Ain Shams University, Egypt (1989).

Academic Positions

- *Research Assistant, Department of Physical Chemistry, NRC. 1985-1989.*
- *Researcher, Department of Physical Chemistry, NRC. 1989-1995*
- *Associate professor, Department of Physical Chemistry, NRC. 1995-2000*
- *Research Professor, Department of Physical Chemistry, NRC, 31/1/2000-)*
- *Head of Department of Physical Chemistry, NRC, 9 Aug 2003- July 2006.*
- *Head of Department of Biomaterials, NRC, 6 July 2008- Oct 2009.*
- *Vice-Head of Inorganic chemistry and Mineral resources Division, NRC, 10 July 2006 to 23 January 2008.*

- *Head of inorganic chemistry and mineral resources Division, NRC, 24 January 2008 -25 September 2010.*
- *Professor of Physical Chemistry at Department of chemistry, Faculty of science, Jazan University, 2097-Jazan, KSA, since 2010*

Scientific Recognition

- *Group training course on " Surface modification Technology For materials" at Aichi Institute, Nagoya, Japan, (1991).*
- *Japan Society for Promotion of Science (JSPS) Fellowship to the faculty of Engineering, Japan, University of Nagoya, 1993- 1994.*
- *Alexander von Humboldt Fellowship to Theoretical and Physical chemistry Institute, University of Bonn, Germany. 1996 -1998.*
- ***Awarded Egyptian State Prize for Chemistry, 1998.***
- *Consultant to establish a Marine Corrosion Laboratory, at King Abdulaziz City for Science and Technology (KACST) , Riyadh, Saudia Arabia, 2001.*
- *Teaching of theoretical and practical courses in physical chemistry for undergraduate and graduate students in Egyptian universities.*
- *Visiting professor to Institute of physical and theoretical chemistry, Bonn University, June to September 2004.*
- *Attended a large number of national and international congresses held in Egypt, Hawaii, Japan, Germany, France, and Portugal on electrochemistry, surface modification and corrosion.*
- *Principle Investigator of the main group of Nanotechnology at NRC, 2010.*
- *Participate as PI or CO-PI to many scientific research projects related to: Surface modification, nano- structuring of metals, Corrosion and corrosion protection.*
- *Vice-Head of the permanent scientific committee for the promotion of inorganic and physical chemistry professors at NRC (2008-2010)*
- *Member of Egyptian Industries Union Committee for scientific research and technology development (2008-2010)*
- *Active Member of Egyptian Corrosion Society ,since 1985.....*

Scientific Research Interests

The scientific research areas of Emad A. Abd El Meguid are in the domain of the electrochemistry of solid surface interface. The research areas include the study of initial stages of metal deposition , nanostructuring of electrode surfaces, ordered bimetallic electrocatalysts, electro less, electroplating of metals ,corrosion and corrosion inhibition of metallic materials .These studies are carried out in aqueous solutions under different environmental conditions .The aim of these studies was to meet the requirement of many modern technologies and methods such as sensors,nano-structure technology ,energy conversion (fuel cell) and corrosion protection .

selected Publications

- Inhibitory effect of cetyltrimethylammonium bromide on the corrosion of 904L stainless steel in LiBr solution, [E.A.Abd El Meguid](#), S.S.Abd El Rehim and S.A.AlKiey, corrosion ,Engineering ,Science and Technology,51(2016)429
- Environmental factors affecting corrosion of 254 smo steel in natural seawater, [E.A.Abd El Meguid](#),world academy of science,engineering and technology 73, 2013
- Adsorption of some organic compounds on single crystal surfaces, [E.A.Abd El Meguid](#), Nanotechnology, Biotechnology, and spectroscopy” Tools of success in the coming era”1-3 March 2012,Cairo-Egypt
- Electrodeposition of Zinc Films from Environmentally-Friendly Gluconate salt solutions,[E.A.Abd El Meguid](#),S.S.Abd El Rehim and M.E.A.Abass , Plating & Surface Finishing, Augst/ Sept.,2011,p(1-14)
- Electroplating of Cd-Ni alloy from gluconate baths, [E. A. Abd El Meguid](#), S. S. Abd El Rehim and M.E.A.Abass, Plating & Surface Finishing, June/ July,2010,p(24-33).
- Electrodeposition of Zn-Cd binary alloy film from gluconate salt solutions, [E. A. Abd El Meguid](#), S. S. Abd El Rehim and M.E.A.Abass,Plating & Surface Finishing, September,2010,p(50-57).
- Electrchemical pitting corrosion Behavior of α - brass in LiBr containing solutions, [E. A. Abd El Meguid](#) and N.K.Awad, Corros. Sci., 51 (2009) 1134-1139.

- *Localized corrosion of stainless steel*, [E. A. Abd El Meguid](#) "Progress in corrosion research ", Ed.Emilio L.Bettini, Nova Science Publishers, NY, 2007, PP.261-299.
- *Electrochemical Behavior of Cu-30Zn in LiBr Solution* , [E. A. Abd El Meguid](#) and N.K.Awad , EuroCorr 2007,Freiburg, Germany, 9-13 September 2007.
- *The critical pitting temperature for Type 254 SMO stainless steel in chloride solutions*, [E. A. Abd El Meguid](#) and A. A. Abd El Latif, Corros. Sci., 49(2007)263.
- *Crevice corrosion behaviour of 254 SMO stainless steel in sea water*, [E. A. Abd El Meguid](#) and A. A. Abd El Latif, EUROCORR 2005, Lisbon, 4-8 September, Portugal.
- *Electrochemical and SEM study on Type 254 SMO stainless steel in chloride solutions*, [E. A. Abd El Meguid](#) and A. A. Abd El Latif, Corros. Sci., 46(2004)2431.
- *Electroplating of Iron from Alkaline Gluconate Baths*. [E. A. Abd El Meguid](#), S. S. Abd El Rehim and E. M. Moustafa, Thin solid films, 443(2003)53.
- *Electrodeposition of Iron films on copper surfaces from Iron (III) Gluconate solutions*. S. S. Abd El Rehim, [E. A. Abd El Meguid](#), and E. M. Moustafa, Trans.IMF, 81(2003)79.
- *Inhibition of Bromide-Pitting Corrosion of Type 904L Stainless steel*, [E. A. Abd El Meguid](#) and N. A. Mahmoud. Corrosion, 59(2003)104.
- *Pitting Corrosion of Stainless Steel type 316 in artificial Seawater*, I.A. Almarshad and [E. A. Abd El Meguid](#), Proc. 15th International Corrosion Congress, Spain, Granada, September 22-27, 2002.
- *Stress Corrosion Behaviour of Alpha Aluminum Bronze in Concentrated Alkali Solutions*. E. A. Ashour, [E. A. Abd El Meguid](#) and B. G. Ateya, Corrosion, 57(2001)749.
- *Electrochemical behaviour of molybdenum electrodes in various aqueous and buffered solutions and their use in titrations*. H. A. El Shayeb, F. M. Abd El Wahab and [E. A. Abd El Meguid](#), Br. Cossos. J, 36(2001)215.

- *The Effect of Some Sulphur Compounds on the Pitting corrosion of type 304 Stainless Steel, [E. A. Abd El Meguid](#), N. A. Mahmoud and S. S. Abd El Rehim, , Materials Chemistry and Physics, 63(2000)67.*
- *Effect of Some Additives on Nickel Electroplating from Gluconate Bath, [E. A. Abd El Meguid](#), S. S. Abd El Rehim and E. M. Moustafa, Egypt. J. Chem. 43(2000)16.*
- *The Adsorption of Bi at Stepped Pt Single Crystal Electrode Surfaces. [E. A. Abd El Meguid](#), 5Th International Conference on Chemistry and its Role in Development, Mansoura, Egypt. 19-22 April 1999.*
- *The Electroplating of Nickel from Aqueous Gluconate Baths, [E. A. Abd El Meguid](#), S. S. Abd El Rehim and E. M. Moustafa, Trans. IMF, 77(1999)179.*
- *Step decoration at Pt single crystal electrodes: role of the anion, [E. A. Abd El Meguid](#), P. Berenz and H. Baltruschat. J. Electroanal. Chem. 467(1999)50.*
- *On the Influence of tin and bismuth UPD on Pt (111) and Pt (332) on the Oxidation of CO. H- Massong, S. Tillmann, T. Langkau, [E. A. Abd El Meguid](#) and H. Baltruschat. Electrochimica Acta, 44(1998)1379.*
- *Pitting corrosion behaviour of AISI 316L Steel in Chloride containing solutions, [E. A. Abd El Meguid](#), N. A. Mahmoud V. K. Gouda, Br. Corros. J, 33(1998)42.*
- *Pitting susceptibility of UNS No. 8904 stainless steel in bromide - sulphide Solution, [E. A. Abd El Meguid](#) J. Mater. Sci., 33(1998)3465.*
- *Morphology and Impedance Characteristics of Nickel Electroplating from Watts Bath, [E. A. Abd El Meguid](#), Mater. Trans. JIM, 38(1997)731.*
- *Pitting Corrosion Behavior of Type 904 L Stainless Steel in Sodium Bromide Solutions, [E. A. Abd El Meguid](#), Corrosion, 53(1997)623.*
- *Effects of Thiosulfate on Susceptibility of Type 316 Stainless Steel to Stress Corrosion Cracking in 3.5% Aqueous Sodium Chloride, E. A. Ashour, [E. A. Abd El Meguid](#) and B. G. Ateya, Corrosion. 53(1997)612.*
- *Step Decoration at Pt Single Crystal Electrodes and its Effect on Electrocatalysis, H. Massong, [E. A. Abd El Meguid](#) and H. Baltruschat,*

Portuclensis Conference on Electrical Interface, Pova de Varzim, Portugal, 5-10 July, 1998, P-155.

- *Pitting Corrosion Behaviour of UNS NO 8904 Stainless Steel in Chloride / Sulphite Solutions, [E. A. Abd El Meguid](#), V.K. Gouda and N.A. Mahmoud, Br. Corrosion. J. 32(1997)68.*
- *Corrosion Behaviour of Different Nickel Layers Electroplated from Watts Bath. [E. A. Abd El Meguid](#) and T.Oki Egypt. J. Chem., 38 (5) (1995)477-489.*
- *Interfacial Impedance Spectroscopy on Electroplated Nickel Electrodes in Chloride and Sulphate Solutions, [E. A. Abd El Meguid](#) and T.Oki Egypt. J. Chem., 38 (5) (1995)477.*
- *Galvanic Corrosion of Electroplated Nickel Coupled Electrodes in Chloride and Sulphate Solutions. [E. A. Abd El Meguid](#) and T.Oki Egypt. J. Chem., 38 (5) (1995)477-489.*
- *Pitting Corrosion Behaviour of Type SUS 904L and SUS 316L Stainless Steel in Chloride Solutions. [E. A. Abd El Meguid](#), V. K. Gouda, and N. A. Mahmoud, Mater. Trans, JIM, 35(1994)703-706.*
- *Electrochemical Behaviour of Titanium in Buffer Solutions. H.A. El Shayeb, F.M. Abd El Wahab and [E. A. Abd El Meguid](#), Bulletin of Electrochemistry, 10(1994)246.*
- *Pitting Corrosion of Zirconium in Aqueous Solutions, H.A. El Shayeb, F.M. Abdel Wahab, and [E. A. Abd El Meguid](#), Bulletin of Electrochemistry, 10(1994)371.*
- *Pitting Corrosion of Zirconium in Alkaline Medium-II. [E. A. Abd El Meguid](#). First International Conference on Processing Material for Properties, Hawaii, USA, (1993) P. 609.*
- *Pitting Behaviour of UNS NO 8904 Stainless Steel in Salt Solutions. V. K. Gouda and [E. A. Abd El Meguid](#), 12th International Corrosion Congress, Texas, USA, (1993)2011-2021.*
- *Pitting Corrosion of Zirconium in Alkaline Medium-I. [E. A. Abd El Meguid](#), J. Electrochem. Soc. India 42(1993) 135-141.*

- *Electrochemical Behaviour of Zirconium in Buffer Solutions* H. A. El Shayeb, F. M. Abd El Wahab, and [E. A. Abd El Meguid](#), *Bulletin of Electrochemistry*, 8(1992)318.
- *Effect of Metal Cations on the Corrosion Behaviour of Ti, Al, Cu-Ni and Al-Brass in Chloride Solution*, M.M. Badran and [E. A. Abd El Meguid](#), *Egypt. J. Chem.* 35(1992)625-640.
- *Autocatalytic Alkaline Ni-P-B Plating Baths*. A. Talat El Mallah, M. Hassib Abbas, M.S. Morsy and [E. A. Abd El Meguid](#), *Metal Finishing*, 89(1991)7-10.
- *Anodic Behaviour and Corrosion of Nickel in Watts Plating Solution*. S.S. Abd El Rehim, M.H. Fawzy and [E. A. Abd El Meguid](#), *Corrosion Prevention and Control*, 37(1990)99-102.
- *Electrodeposition of Cd-Ni Alloys from Acetate Baths using a superimposed Alternating Current*. A.M. Abd El Halim, S. S. Abd El Rehim, S. M. Abd El Wahab and [E. A. Abd El Meguid](#), *J. Applied Electrochemistry*, 17(1987)667.
- *Electroplating of Bright Cadmium from an Optimized Acetate Bath Under the Influence of Superimposed Alternating Current*. A.M. Abd El Halim, S.M. Abd El Wahab, S.S. Abd El Rehim and [E. A. Abd El Meguid](#), *J. Applied Electro- chemistry*, 17(1987)49-56.
- *Electrochemical behaviour of nickel anodes in H₂SO₄ solutions and the effect of halide ions*. S.S. Abd El Rehim, S.M. Abd El Wahab and [E. A. Abd El Meguid](#), *Werkstoffe Und Korrosion* 37(1986)550-555.
- *Effect of Bath Constituents and Superimposed sinusoidal A.C. on Nickel Electroplating from Acidic Acetate Solutions*. S.M. Abd El Wahab, A. Abd El Halim, S.S. Abd El-Rehim and [E. A. Abd El Meguid](#), *Surface and Coatings Technology*, 29(1986) 313-324.
- *Potentiodynamic Behaviour of the Nickel Electrode in Acid Media*. S.S. Abd El Rehim, S.M. Abd El Wahab and [E. A. Abd El Meguid](#), *Surface and Coatings Technology*, 29 (1986)325-333.