Department of Chemistry **E-mail**:
Faculty of Science Hany_shubra@yahoo.co.uk
Sohag University

Hany Mohamed Abd El-Lateef Ahmed,
BSc, MSc, PhD

Corrosion and Material Science

Personal Information	**Name:** Hany Mohamed Abd El-Lateef Ahmed **Date of Birth:** 06/03/1982 **Place of Birth:** Sohag, Egypt **Nationality:** Egyptian **Religion:** Moslem **Sex:** Male **Mother language:** Arabic **Other languages:** ➢ English (very good in speaking, reading and writing). ➢ Russian (very good in speaking, reading and writing). **Permanent address**: Chemistry Department, Faculty of Science, Sohag University, Sohag-82534, Egypt. **Current address:** Chemistry Department, College of Science, King Faisal University, Saudi Arabia.
Education	• **Bachelor of Science in Chemistry, 2003, Sohag University, Sohag, Egypt.** • **Master of Science in Physical Chemistry, 2009, Sohag University, Sohag, Egypt.** • **Ph.D in Physical Chemistry, 2013, National Academy of Sciences, Institute of petrochemical processes**
Present and Previous Positions	• **Demonstrator at Chemistry Department, Faculty of Science, Sohag University, Sohag, Egypt, 2004-2009.** • **Assistant Lecturer at Chemistry Department, Faculty of Science, Sohag University, Sohag, Egypt, 2009-2013.** • **Lecturer at Chemistry Department, Faculty of Science, Sohag University, Sohag, Egypt, 30/9/2013-12/01/2017.** • **Assistant professor at Chemistry Department, Faculty of Science, King Feisal University, Sudia Arabia, 13/01/2017-now**
M. Sc. Thesis Title	**Effect of alloying with indium on the electrochemical behavior of tin and corrosion inhibition of tin , indium and their alloys in acidic solutions.**
Ph. D. Thesis Title	**Synthesis and study of corrosion inhibitors based on some vegetable oils for protection from CO_2 corrosion.**
Research Interests	Research has focused on unraveling corrosion mechanisms and designing corrosion resistant alloys and coatings. Synthesis of new inhibitors for steel pipelines, which may find application as eco-friendly corrosion inhibitors in acidizing processes in petroleum industry. Expertise with the nanotechnology of the metal/environment interface, and routine use of electrochemistry, electron microscopy, and x-ray diffraction for failure analysis, and for understanding corrosion and passivity.
Practical experiences and applications	**1)** Synthesis of new families of surfactants **2)** Physical and thermodynamic performance of surfactants. **3)** Application of surfactants in large areas of science such Removing Thin Oil Slicks from Water Surface, corrosion inhibitors. **4)** Experimental and Computational Investigation on the Corrosion Inhibition Characteristics. **5)** Application of nanocomposite materials as protective coatings from corrosion of carbon steel.

	6) Lead-acid battery- Alkaline battery.
Research administration, board memberships	- Member of the Mission for a PhD within the executive program between Egypt and Russian Federation - Member NACE USA - Member of editorial Board : Chemistry journal - Member of reviewer Board: Ionics, American Journal of Nanomaterials, American journal of chemistry, applied surface science, The Chemical Society of Ethiopia, Materials, Journal of Materials Engineering and Performance and Electrochimica Acta. - Member of Scientific and Technical Committee & Editorial Review Board on Metallurgical and Materials Engineering- World Academy of Science-USA.
Google Scholar	**http://scholar.google.com/citations?hl=en&user=dCfs7x8AAAAJ** **Citation indices** **Citations 632** **h-index 14** **i10-index 20**
Research gate:	**https://www.researchgate.net/profile/Hany_El-Lateef** **Reads 5.499 k** **Citations 456** **RG score 29.26**
Scopus ID	**28067546100**
ORCID ID	**orcid.org/0000-0002-6610-393X**
List of Publications	**1.** Hydrogen evolution reaction on Sn, In and Sn-In alloys in carboxylic acids. Hossnia S. Mohran, Abdel-Rahman El-Sayed, **Hany M. Abd El-Lateef**, J Solid State Electrochim, 13 (2009) 1147-1155. **2.** Anodic behavior of tin, indium and tin-indium alloys in oxalic acid solution. Hossnia S. Mohran , Abdel-Rahman El-Sayed, **Hany M. Abd El-Lateef**, J Solid State Electrochem, original paper 13 (2009) 1279-1290. **3.** Potentiodynamic studies on anodic dissolution and passivation of tin, indium and tin-indium alloys in some fruit acids solutions. Hossnia S. Mohran, Abdel-Rahman El-Sayed, **Hany M. Abd El-Lateef**, J. corrosion Science, 51 (2009) 2675-2684. **4.** Corrosion inhibition of tin, indium and tin-indium alloys by adenine or adenosine in hydrochloric acid solution. Abdel- Rahman El-Sayed, Ali M. Shaker and **Hany M. Abd El-Lateef,** J. corrosion Science, 52 (2010) 72-81. **5.** The inhibition effect of 2, 4, 6 tris (2-pyridyl)-1, 3, 5-triazine on corrosion of tin, indium and tin-indium alloys in Hydrochloric acid solution. Abdel-Rahman El-Sayed, Hossnia S Mohran and **Hany M. Abd El-Lateef**, J. Corrosion Science 52 (2010) 1976–1984. **6.** A study of the inhibiting action of some nitrogen-heterocyclic compounds on the corrosion of tin, indium and tin-indium alloys in $HClO_4$ solution. Abdel-Rahman El-Sayed, Hossnia S. Mohran and **Hany M. Abd El-Lateef**, Monatsh Chem. 7 (2011) 558. **7.** Effect of Minor Nickel Alloying With Zinc on the Electrochemical and Corrosion Behavior of Zinc in Alkaline Solution. Abdel-Rahman El-Sayed, Hossnia S. Mohran and **Hany M. Abd El-Lateef**, Journal of Power Sources 195 (2010) 6924–6936. **8.** Effect of minor nickel alloying with zinc on the electrochemical and corrosion behavior of zinc in alkaline solution, Abdel-Rahman El-Sayed ,Hossnia S. Mohran, **Hany M. Abd El-Lateef**, Journal of Power Sources 195 (2010) 6924–6936. **9.** Corrosion Study of Zinc, Nickel, and Zinc- Nickel Alloys in Alkaline Solutions by Tafel Plot and Impedance Techniques, Abdel-Rahman El-Sayed, Hossnia S. Mohran & **Hany M. Abd El-Lateef**, Metallurgical and Materials Transactions A, Volume 43, February 2012, Page 616-632 . **10.** Inhibition of carbon steel corrosion in CO_2-saturated brine using some newly surfactants based on palm oil: Experimental and theoretical investigations, **Hany M. Abd El-Lateef**, V.M. Abbasov, L.I. Aliyeva, E.E. Qasimov, I.T. Ismayilov, Materials Chemistry and Physics 142 (2013) 502-512. **11.** Коррозионное поведение стали в углекислотных средах, **Хани М. Абд Эл-Лятиф**, Л.И.Алиева, В.М. Аббасов, Н.С.Ахмедов, Процессы нефтехимии и нефтепереработки, 2011, том 12, № 4 (48), с. 231-247. **12.** Синтез и исследование ингибиторов коррозии на основе подсолнечного масла для

защиты углеродистой стали от CO_2-коррозии, **Хани М. Абд Эл-Лятиф**, Л.И. Алиева, В. М. Аббасов, Т.И. Исмаилов, Х. Р. Исмаилова, Процессы нефтехимии и нефтепереработки, 2012, том 13, №1(49), с. 3-21.

13. Development of New Eco-Friendly Corrosion Inhibitors Based on Vegetable Oils for Protection from CO_2 Corrosion, **Hany M. Abd El-Lateef,** L. I. Aliyeva, V. M. Abbasov, I. T. Ismayilov and X. R. Ismayilova, Chemistry Journal, 2012, Vol. 02, Issue 02, p. 37-51.
14. Novel anionic surfactants based on cottonseed oil and their corrosion inhibition efficiency for carbon steel in CO_2 saturated solution, **Hany M. Abd El-Lateef**, V. M. Abbasov, L. I. Aliyeva, T. I. Ismayilov, E. E. Qasimov, T. U. Ahmadov, Global J. Phys. Chem. 2012, 3: 14, p. 1-12.
15. Inhibitive performance of sulfated fatty acid sodium salt as corrosion inhibitor for carbon steel in CO_2-saturated solutions, V. M. Abbasov, **Hany M. Abd El-Lateef**, L. I. Aliyeva, I. T. Ismayilov, Mai M. Khalaf, Elmi Əsərlər- Fundamental Elmlər, 2012 № 2 cild X (42) p. 176-183.
16. Application of Complex Surfactant Based on Cottonseed Oil as CO_2-Corrosion Inhibitor and for Removing Thin Oil Slicks from Water Surface, **Hany M. Abd El-Lateef**, Vagif M. Abbasov, Leylufer I. Aliyeva, E. E. Qasimov, I. T. Ismayilov, Ahmed H. Tantawy, // Caspian Journal of Applied Sciences Research, 1(9), 2012, p. 57-67.
17. Development of novel anionic surfactants based on different vegetable oils for protection of carbon steel from CO_2 corrosion, V. M. Abbasov, **Hany M. Abd El-Lateef**, L. I. Aliyeva, I. T. Ismayilov, E. E. Qasimov, T. U. Ahmadov, Materials Science : An Indian Journal, 2013, 9(2), p. 41-49.
18. Localized corrosion for steel pipelines in carbon dioxide environments- a review, **Hany M. Abd El-Lateef**, V. M. Abbasov, L. I. Alieva, Elmi Əsərlər- Fundamental Elmlər, 2011 № 4 cild X (40) p. 135-140.
19. Corrosion inhibition of low carbon steel in CO_2 -saturated solution using Anionic surfactant, **Hany M. Abd El-Lateef,** L. I. Aliyeva, V. M. Abbasov, T. I. Ismayilov, Advances in Applied Science Research, 2012, 3 (2), p.1185-1201.
20. Теоретическое исследование новых поверхностно- активных веществ, полученных на основе жирных Кислот и оценка их потенциальной активности в качестве ингибиторов коррозии, В. М. Аббасов, **Хани М. Абд Эль-Латиф**, Л. И. Алиева, Э.Э. Гасымов, И.Т.Исмаилов, Процессы нефтехимии и нефтепереработки, 2012, том 13, № 4(52), с.351-357.
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32. Preparation, Surface active properties, and Anticorrosion Application of some novel surfactants based on cottonseed oil and diethanolamine on carbon steel in CO_2 environments, I. T. Ismayilov, V. M. Abbasov, E. N. Efremenko, L. I. Aliyeva, S. A. Mamedxanova, **Hany M. Abd El-Lateef**, Journal of Advances in Chemistry, Vo 1, No 1, p. 4-16.
33. Inhibitive Effect of Some Natural Naphthenates as Corrosion Inhibitors on the Corrosive Performance of Carbon Steel in CO_2-Saturated Brine, Vagif M. Abbasov, **Hany M. Abd El-Lateef**, Sevinc A. Mamedxanova, Leylufer. I. Aliyeva, Teyyub A. Ismayilov, Musayev J. Ilham, Orkhan A. Aydamirov, Fariz A. Amirov, International Journal of Scientific Research in Environmental Sciences (IJSRES), 1(8), pp. 166-178, 2013.
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36. Applicability of Novel Anionic Surfactant as a Corrosion Inhibitor of Mild Steel and for Removing Thin Petroleum Films from Water Surface, V. M. Abbasov, **Hany M. Abd El-Lateef**, L. I. Aliyeva1, E. E. Qasimov, I. T. Ismayilov, Ahmed. H. Tantawy, S. A. Mamedxanova, American Journal of Materials Science and Engineering, 2013, Vol. 1, No. 2, 18-23.
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Inhibitors for Mild Steel in CO_2 Environments, I. T. Ismayilov, **Hany M. Abd El-Lateef**, V. M. Abbasov, E. N. Efremenko, L. I. Aliyeva, S. F. Akhmad beyova, American Journal of Chemistry 2014, 4(5): 155-165.

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44. Experimental and Computational Investigation on the Corrosion Inhibition Characteristics of mild steel by some novel synthesized imines in Hydrochloric acid Solutions, **Hany M. Abd El-Lateef**, Corrosion Science, 92 (2015) 104–117.

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54. Investigation of adsorption and inhibition effects of some novel anil compounds towards mild steel in H_2SO_4 solution: Electrochemical and theoretical quantum studies, **Hany M. Abd El-Lateef**, Ahmed M. Abu-Dief, Bahaa El-Dien M. El-Gendy, J Electroanal Chem 758(2015) 135–147.

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	Chemistry and Physics, 177 (2016) 250- 265. **59.** Empirical and Theoretical Calculations for Corrosion Inhibition of Carbon Steel C1018 in Acidic Solutions Using Some Selected Fatty Acid Surfactants, **Hany M. Abd El-Lateef**, Mohamed Ismael, Ahmed H Tantawy, Zeitschrift für Physikalische Chemie, **doi: 10.1515/zpch-2015-0616,**. **60.** Effect of Calcination Temperature on Magnetic and Electrical Properties of $BiFeO_3$ Nanoparticles Prepared By Sol-Gel Method, E. M. M. Ibrahim1 , G. FarghalJ. Nano. Adv. Mat. 5 (2017) 33-39. **61.** Divinyl Sulfone Cross-Linked β-Cyclodextrin Polymer as New and Effective Corrosion Inhibitor for Zn Anode in 3.5 M KOH, **Hany M. Abd El-Lateef**, Mahmoud Abd El Aleem Ali Ali, Transactions of the Indian Institute of Metals, 69 (9) (2016) 1783–1792. **62.** Novel Quaternary Ammonium-Based Cationic Surfactants: Synthesis, Surface Activity and Evaluation as Corrosion Inhibitors for C1018 Carbon Steel in Acidic Chloride Solution, J Surfact Deterg, 20 (2017) 735–753 **63.** Corrosion inhibition of carbon steel pipelines by some novel Schiff base compounds during acidizing treatment of oil wells studied by electrochemical and quantum chemical methods, **Hany M. Abd El-Lateef**, Ahmed M. Abu-Dief, Mounir A.A. Mohamed, Journal of Molecular Structure 1130 (2017) 522-542. **64.** Novel synthesized Schiff Base-based cationic gemini surfactants: Electrochemical investigation, theoretical modeling and applicability as biodegradable inhibitors for mild steel against acidic corrosion, **Hany M. Abd El-Lateef**, Kamal A. Soliman , Ahmed H. Tantawy, Journal of Molecular Liquids, 232 (2017) 478–498. **65.** Impact of porosity and thickness of nano-TiO_2 films on the corrosion protection performance of C-steel in H_2SO_4, Mai Khalaf, **Hany Abd El-Lateef**, Int J Appl Ceram Technol. 14 (2017) 145–161 **66.** Magnetic and DC electric properties of sol–gel-synthesized Ce-doped $BiFeO_3$ nanoflakes, E. M. M. Ibrahim, G. Farghal, Mai M. Khalaf, **Hany M. Abd El-Lateef**, Appl. Phys. A 123 (2017) 533.
Books	**1- Corrosion behaviour of tin, indium and tin-indium alloys**. Lambert Academic Publishing (LAP), ISBN 978-3-8484-3963-8, **2012**. **2- Novel corrosion inhibitors for protection from CO_2 corrosion**, LAP Lambert Academic Publishing (2012), ISBN-13: 978-3-659-27923-2, 218 p. **3- Перспективные направления исследований в области нефтепереработки и нефтехимии (Сборник обзорны статей),** Ингибиторы CO_2-коррозии на основе смеси жирных кислот, выделенных из хлопкового и подсолнечного масел, Баку. Элм.2013, с. 112-152
Scientific Activities	**Teaching of theoretical and practical courses in the fields of**: ▪ Quantitative & Qualitative Analysis. ▪ General Chemistry ▪ Analytical Chemistry. ▪ Physical Chemistry. ▪ Advanced Physical Chemistry ▪ Inorganic Chemistry. ▪ Modern Instrumental Analysis (Spectra, Electrochemistry, pH, Conductance, catalysis and solid state and Potentiometry) ▪ Industrial chemistry ▪ Electrochemistry
Experience with equipments	**Experience in operating the** SEM, XRD, Spectra (IR, UV, etc....), turbidity meter, conductivity meter, gasometer, HPLC, pH meter, potentiostate instruments (Tafel Polarization, Potentiodynamic, Potentiostatic, Galvanostatic, Electrochemical impedance spectroscopy (EIS) techniques) .
IT Experiences	• User for: 1- Microsoft Windows. 2- Microsoft office (word, excel, access, power point). 3- Internet and maintenance. 4- Origin 6, SPSS, FrontPage and Endnote. • **ICDL** certificate in computer by Microsoft Company. • Institutional **TOFEL** certificate test held at **ESP** center with a total score of **597**.

	• Working with data base search such as (Science direct, Springer...etc.)
Participation in conferences and workshops	**1.** The Fifth International Conference on Electrochemistry (ICE- V), from 16 to 13 February 2006. Luxor- Egypt, organized by South Vally Universty (as Organizing Committee). **2.** Fourth Saudi Science Conference- Al-Madinah Al- Munawwarah, K.S.A., Taibah University from March 21-24, 2010 (accepted poster article participation). **3.** Fourth National Conference on Youth held, from 10-16 February 2010. Luxor- Egypt, organized by National Council for Youth. **4.** 11th International Chemistry Conference "Chemistry in Africa" Luxor, Egypt. 20-23 Nov. 2010 (as Organizing Committee). **5.** 1st International Chemistry and Chemical Engineering Conference, CCE2013, p. 202-204, Baku, Azerbaijan (oral presentation). **6.** EUROCORR conference 2012, 9 - 13 September 2012, Istanbul Turkey. **7.** NACE corrosion conference 2013, March 17-21, 2013 Orlando, Florida, USA (oral presentation). **8.** Workshop on "**Proposal writing social sciences**" organizing by DAAD (The German Academic Exchange Service), 14 December 2013 at the premises of Sohag Univerisity. **9.** Workshop on "**Ethics in science**" organizing by DAAD (The German Academic Exchange Service), 15 December 2013 at the premises of Sohag Univerisity. **10.** The 17th. International Conference on Petroleum Mineral Resources and Development 9-11 February 2014, Organized by Egyptian Petroleum Research Institute (EPRI) Cairo, Egypt (accepted poster article participation). **11.** Fifth International Chemistry Conference 26 – 29 April 2014, organized by King Khalid University and Saudi Chemical Society, Abha City, the Kingdom of Saudi Arabia (oral presentation). **12.** Workshop on "**Student Centered Learning**" organizing by Fifth International Chemistry Conference, 26 – 29 April 2014, Abha City, the Kingdom of Saudi Arabia. **13.** Workshop on Preparation of internal auditors to institutions of higher education (December 2014). **14.** 13th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, from 14 to 17 February 2015. Hurghada city- Egypt, organized by Sohag University (as Organizing Committee). **15.** 17th International Conference on Chemical and Process Engineering, 18- 19 June 2015, Dubai, UAE (accepted e-poster article participation). **16.** The 2nd international conference new horizons in basic and applied science" (ICNHBAS), from 1 to 6 August 2015. Hurghada city- Egypt, organized by The Faculty of Science at Al- Azhar University (accepted poster article participation). **17.** International Conference on Chemical Sciences & Applications, 6-9 Aug 2016, Alex. Egyp ICCSA 2016, organized by Natural Sciences Publishing (NSP) and Arab Academy for Science, Technology and Maritime Transports (accepted oral article participation). **18.** International Conference on Chemical Sciences & Applications, 6-9 Aug 2016, Alex. Egyp ICCSA 2016, organized by Natural Sciences Publishing (NSP) and Arab Academy for Science, Technology and Maritime Transports (as organizing committee).
Awards and Recognition	Obtained the Encouragement Sohag University Award for the academic year 2016-2017 in Basic Sciences (Chemistry).