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Hany Mohamed Abd El-Lateef Ahmed,
BSc, MSc, PhD
Corrosion and Material Science

Personal Information	<p>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:</p> <ul style="list-style-type: none">➤ English (very good in speaking, reading and writing).➤ Russian (very good in speaking, reading and writing). <p>Permanent address: Chemistry Department, Faculty of Science, Sohag University, Sohag-82534, Egypt. Current address: Chemistry Department, College of Science, King Faisal University, 380 Al Hafof, Al Hassa- 31982, Saudi Arabia.</p>
Biography	<p>Dr. Hany M. Abd El-Lateef received the master degree in physical chemistry from the University of Sohag, Sohag, Egypt. In 2010, he joined the department of chemical resistance of materials and corrosion protection, institute of petrochemical processes, National Academy of Sciences (Russian federation), as a PhD student. In 2013, he received his PhD degree from institute of petrochemical processes in Electrochemistry and corrosion science under the supervision of Professor V. M. Abbasov. His thesis dealt with synthesis and study of corrosion inhibitors for protection from CO₂ corrosion. From May 2013 to December 2016, he has been a Chemistry Teacher at University of Sohag (Sohag, Egypt) and Assistant professor at Chemistry Department, Faculty of Science, King Feisal University, Al-Hassa, Sudia Arabia, from 12/01/2017 to now. He has published two books and one chapter, one review article and more than 70 papers in peer-reviewed international journals. He has an h-index of 18 and the total number of citations for his publications is 893.</p> <p>Dr. Hany is one of NACE membership. As a Researcher, his research 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. He also presented his work in more than 20 international conferences.</p>
Education	<p>• Bachelor of Science in Chemistry, 2003, Sohag University, Sohag, Egypt.</p>

	<ul style="list-style-type: none"> • Master of Science in Physical Chemistry, 2009, Sohag University, Sohag, Egypt. • Ph.D. in Physical Chemistry, 2013, National Academy of Sciences (Russian federation)
Present and Previous Positions	<ul style="list-style-type: none"> • 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, Sohag University, Sohag, Egypt, 31/10/2018-now. • Assistant professor at Chemistry Department, Faculty of Science, King Feisal University, Al-Hassa, Sudia Arabia, 12/01/2017-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 CO₂ corrosion.
Practical experiences and applications	<ol style="list-style-type: none"> 1) Synthesis of Novel nanomaterials and its applications. 2) Application of nanocomposite materials as protective coatings from corrosion of carbon steel. 3) Environmental Research- Water treatment 4) Synthesis of new families of surfactants 5) Physical and thermodynamic performance of surfactants. 6) Application of surfactants in large areas of science such Removing Thin Oil Slicks from Water Surface, corrosion inhibitors. 7) Experimental and Computational Investigation on the Corrosion Inhibition Characteristics. 8) Lead-acid battery- Alkaline battery.
Research administration, board memberships	<ul style="list-style-type: none"> - 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 (website: http://www.scientific-journals.co.uk/index.php?p=1_13) - Member of reviewer Board: Electrochimica Acta (Elsevier), Corrosion science (Elsevier), Electroanalytical chemistry (Elsevier), Ionics (Springer), RSC Advances (Royal Society of Chemistry), Journal of molecular liquids (Elsevier), Surfaces and Interfaces (Elsevier), Applied surface science (Elsevier), Journal of Materials Engineering and Performance (Springer), American Journal of Nanomaterials (Science and Education), American journal of chemistry (Open access), The Chemical Society of Ethiopia (Open access), Materials (MDPI), Macromolecular Research (Springer) and Green Chemistry Letters and Reviews (Taylor & Francis).
Google Scholar	http://scholar.google.com/citations?hl=en&user=dCfs7x8AAAAJ Citation indices Citations 923 h-index 19

	i10-index 27
Research gate:	https://www.researchgate.net/profile/Hany_El-Lateef Reads 7.670 k Citations 669 RG score 31.47
Scopus ID	28067546100
ORCID ID	orcid.org/0000-0002-6610-393X
Researcher ID	B-7955-2018
List of Publications	<p><u>A) Publications abstracted from M. Sc. Thesis:</u></p> <ol style="list-style-type: none"> 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. 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. <p><u>B) Publications abstracted from PhD. Thesis:</u></p> <ol style="list-style-type: none"> 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, Hany M. Abd El-Lateef, Journal of Power Sources 195 (2010) 6924–6936. 8. A study of the inhibiting action of some nitrogen-heterocyclic compounds on the corrosion of tin, indium and tin-indium alloys in HClO₄ solution. Abdel-Rahman El-Sayed, Hossnia S. Mohran and Hany M. Abd El-Lateef, Monatsh Chem. 7 (2011) 558. 9. Коррозионное поведение стали в углекислотных средах, Хани М. Абд Эл-Лятиф, Л.И.Алиева, В.М. Аббасов, Н.С.Ахмедов,

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 33. Preparation, Surface active properties, and Anticorrosion Application of some novel surfactants based on cottonseed oil and diethanolamine on carbon steel in CO₂ 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 (2013) 4-16.
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 35. The CO₂ corrosion inhibition of carbon steel C1018 by some novel complex surfactants based on petroleum acids and nitrogen-containing compounds, V. M. Abbasov¹, S. A. Mamedxanova¹, [Hany M. Abd El-Lateef](#), L. I. Aliyeva, T. A. Ismayilov, M. C. Ilham, L. M. Afandiyeva, O. A. Aydamirov, F. A. Amirov, Advances in Materials and Corrosion 2 (2013) 26-32.
 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, Vol. 1, No. 2 (2013) 18-23.
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- [Hany M. Abd El-Lateef](#), L.I. Aliyeva, E.E. Qasimov, I. T. Ismayilov, Mai M. Khalaf, Egypt. J. Petrol. 22 (2013) 451–470.
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Publisher: Elsevier

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Impact Factor = 1.767

Publisher: Springer

73. Fine-template synthetic process of mesoporous TiO₂ using ionic/nonionic surfactants as potential remediation of Pb(II) from contaminated soil, Mai M. Khalaf, N. Y. Abdullah, [Hany M. Abd El-Lateef](#), International Journal of Environmental Science and Technology (2018) <https://doi.org/10.1007/s13762-018-1790-z>.

Impact Factor = 2.057

Publisher: Springer

74. Magnetic Sm-BFO and Ce-BFO nanoflakes as protective coating layers for C-steel in acidic chloride environments, [Hany M. Abd El-Lateef](#), Mai M. Khalaf, Measurement 132 (2019) 99–108.

Impact Factor = 2.218

Publisher: Elsevier

75. Synthesis of crystalline and amorphous iron phosphate nanoparticles by simple low-temperature method, [Hany M. Abd El-Lateef](#), Ahmed H. Touny, Mahmoud M. Saleh, Materials Research Express (2019) 6 (2019) 035030

IF=1.151

Publisher: IOPScience

76. Corrosion inhibition and adsorption behavior of phytic acid on Pb and Pb–In alloy surfaces in acidic chloride solution, [Hany M. Abd El-](#)

	<p>Lateef, International Journal of Industrial Chemistry 10 (2019) 31–47 IF=0.12 Publisher: Springer</p> <p>77. Efficient route synthesis of new polythiazoles and their inhibition characteristics of mild-steel corrosion in acidic chloride medium, Abdelwahed R. Sayed, Mahmoud M. Saleh, Mohammed A. Al-Omair, Hany M. Abd Al-Lateef, Journal of Molecular Structure 1184 (2019) 452-461</p> <p>Impact Factor = 2.011 Publisher: Elsevier</p> <p>78. Investigation of Organic Complexes of Imidazolines Based on Synthetic Oxy- and Petroleum Acids as Corrosion Inhibitors, A. Lala, A. Vagif, A. Leylufer, A. Saida, A. Emin, Hany M. Abd Al-Lateef, Iran. J. Chem. Chem. Eng., 37 (3) (2018) 73-79.</p> <p>Impact Factor = 0.860 Publisher: ACECR</p> <p>79. Enhanced adsorption and removal of urea from aqueous solutions using eco- friendly iron phosphate nanoparticles, Hany M. Abd El-Lateef, Mohammed A. Al-Omair, Ahmed H. Touny, Mahmoud M. Saleh, Journal of Environmental Chemical Engineering 7 (2019) 102939</p> <p>Impact Factor = 1.38 Publisher: Elsevier</p> <p>80. Removal of cationic surfactants from dilute solutions using nanoporous nickel phosphate: A structural, kinetic and thermodynamic study, Ahmed H.Touny, Hany M. Abd El-Lateef, Mahmoud M. Saleh, Journal of Molecular Liquids, (2019) https://doi.org/10.1016/j.molliq.2019.03.032</p> <p>Impact Factor = 4.513 Publisher: Elsevier</p> <p>81. Electrochemical Methods for Fabrication of Polymers/Calcium Phosphates Nanocomposites as Hard Tissue Implants, Ahmed Touny, Mohamed M. Saleh, Hany M. Abd El-Lateef, Mahmoud M. Saleh, Applied Physics Reviews (2019) Accepted paper.</p> <p>Impact Factor = 15.421 Publisher: AIP Publishing</p>
Books	<p><u>1-</u> Corrosion behaviour of tin, indium and tin-indium alloys, Hany M. Abd El-Lateef, Lambert Academic Publishing (LAP), ISBN 978-3-8484-3963-8, (2012).</p> <p><u>2-</u> Novel corrosion inhibitors for protection from CO₂ corrosion, Hany M. Abd El-Lateef, V. M. Abbasov, L. I. Aliyeva, Lambert Academic Publishing (LAP) ISBN-13: 978-3-659-27923-2, 218 p (2012).</p> <p><u>3-</u> Перспективные направления исследований в области нефтепереработки и нефтехимии (Сборник обзорны статей), Hany M. Abd El-Lateef, Ингибиторы CO₂-коррозии на основе смеси жирных кислот, выделенных из хлопкового и подсолнечного масел, Баку. Элм.2013, с. 112-152</p>
Research projects	<ul style="list-style-type: none"> • Pi of project # 17122007: Nanotechnology for water treatment: Design and fabrication of new nanocomposites for removal of toxic materials from

	<p>waste streams. The project grants from the Deanship of Scientific Research, King Faisal University, 2017-2019 (300.000 SR).</p> <ul style="list-style-type: none"> • Pi of project # 180084: Novel core shell polymer: facile synthesis, characterization and enforcement as anticorrosive layer. The project grants from the Deanship of Scientific Research, King Faisal University, 2018-2019 (52568 SR) • Co-Pi of project # 17122005: Nanotechnology for solar energy conversion: Photoelectrochemical splitting of water using polymer-modified photoelectrodes. The project grants from the Deanship of Scientific Research, King Faisal University, 2017-2019 (253.000 SR) • Co of project # 180091: Magnetic iron oxide nanoparticles for sewage water treatment. The project grants from the Deanship of Scientific Research, King Faisal University, 2018-2019 (57220 SR) • Co of project # 180094: Design, synthesis and characterization of novel Heterocyclic polymers for protection from CO₂ corrosion: Experimental and theoretical approaches. The project grants from the Deanship of Scientific Research, King Faisal University, 2018-2019 (54000 SR) • Co of project # 180074: Chemo- and regioselective (ep)oxidation of unsaturated hydrocarbons, alcohols and thiosulfates catalyzed by high oxidation state transition metal complexes. Study the inhibition performance of the prepared complexes on steel alloy corrosion. The project grants from the Deanship of Scientific Research, King Faisal University, 2018-2019 (54000 SR) • P-Co of project # 3-18-04-001-0001: Design, Synthesis and Characterization of Novel imidazoles, cyclohexenes surfactants for protection from CO₂ corrosion: Experimental and theoretical approaches. Submitted to Kacst. Under Kacst Review (599960 SR)
Scientific Activities	<p>Teaching of theoretical and practical courses in the fields of:</p> <ul style="list-style-type: none"> ▪ Quantitative & Qualitative Analysis. ▪ General Chemistry ▪ Colloids Chemistry. ▪ Quantum chemistry. ▪ Physical Chemistry. ▪ Advanced Physical Chemistry ▪ Modern Instrumental Analysis (Spectra, Electrochemistry, pH, Conductance, catalysis and solid state and Potentiometry) ▪ Industrial chemistry ▪ Electrochemistry
Experience with equipments	<p>Experience in operating the SEM, XRD, TEM, Spectra (IR, UV, etc....), turbidity meter, conductivity meter, gasometer, HPLC, pH meter, potentiostate instruments (Tafel Polarization, Potentiodynamic, Potentiostatic, Galvanostatic, Electrochemical impedance spectroscopy (EIS) techniques) .</p>
Awards and Recognition	<ul style="list-style-type: none"> • Obtained the Encouragement Award Sohag University for the academic year 2017 in Basic Sciences (Chemistry). • Selection of my PhD thesis on the best thesis from the Institute of Petrochemical processes - National Academy of Sciences for the academic year 2013.
Professionally	<p>1. The Fifth International Conference on Electrochemistry (ICE- V), from 16</p>

**Academic
Development
(Participation in
conferences,
program
training and
workshops)**

- to 13 February 2006. Luxor- Egypt, organized by South Vally University (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. Nanotechnology and Nanomaterials for sustainable development, Humboldt Kolleg, Pyramisa, Luxor, Egypt, 2-4 February 2016.
 18. International Conference on Chemical Sciences & Applications, 6-9 Aug 2016, Alex. Egypt ICCSA 2016, organized by Natural Sciences Publishing (NSP) and Arab Academy for Science, Technology and Maritime Transports (accepted oral article participation).
 19. International Conference on Chemical Sciences & Applications, 6-9 Aug

	<p>2016, Alex. Egypt ICCSA 2016, organized by Natural Sciences Publishing (NSP) and Arab Academy for Science, Technology and Maritime Transports (as organizing committee).</p> <p>20. 5th International Conference on Pure and Applied Sciences: Sustainable development June 29-30, 2018, Dubai organized by Natural Sciences Publishing (NSP) (accepted oral article participation).</p> <p>21. Methodology and Skills of Quantitative and qualitative research, organized by Deanship of Development and Quality Assurance, 3-4/12/2017.</p> <p>22. The Basics of scientific writing in refereed journals, organized by Deanship of Development and Quality Assurance, 23-24/04/2017</p> <p>23. Rules for Writing and Documenting Scientific Research in accordance with APA-, organized by Deanship of Development and Quality Assurance, 21-22/03/2017</p> <p>24. Advanced word processing using Microsoft Word 2013, organized by Deanship of Development and Quality Assurance, 28-29/11/2017</p> <p>25. Successful assessment Skills, organized by Deanship of Development and Quality Assurance, 4/8/2018</p> <p>26. Construction of achievement tests according to international standards, organized by Deanship of Development and Quality Assurance, 1/8/2018</p> <p>27. Learning outcomes and methods of measurement, organized by Deanship of Development and Quality Assurance, 31/7/2018</p> <p>28. Education-based solving Problems, organized by Deanship of Development and Quality Assurance, 5/8/2018</p> <p>29. Publishing in Impact-Factor journals (Scientific Colleges), organized by Deanship of Development and Quality Assurance, 20/10/2018</p> <p>30. Scientific publishing skills with special reference to Hijacked journals, organized by Deanship of Development and Quality Assurance, 13-14/3/2018</p> <p>31. Program Specification and Report, organized by Deanship of Development and Quality Assurance, 24/11/2018</p>
<p>Supervision of Master and Ph.D. Theses:</p>	<p>I have been supervising about 7 Master and Ph.D. students.</p>