

ASSOC.PROF. Hend Elsayed Mohamed Gadow

INFO

- Female
- 21/7/1973
- Married
- hsgado73@gmail.com
- Port Said/Egypt
- 00201555539060
- 00201000385635

SKILLS

- Microsoft Office
- Origin Program
- Material Studio Program
- English
- Leadership skills
- External Reviewer In The National Authority For Educational Quality Assurance And Accreditation In Egypt
- External Reviewer In Many International Journals
- Certified Trainer In Human Development

Education

- 1995 Graduated From Mansoura University College Of Science
- 1998 Master Degree In Science From Mansoura University
- 2003 PHD Degree In Science From Zagazig University
- 2020 Associate Professor Of Physical Chemistry

Experience

- 2004-2007 College of Education in the Kingdom of Saudi Arabia - Hotat Sudair - Al Majmaah Administration

Head of the Department of Chemistry and Assistant Professor of Physical Chemistry
- 2008-2010 Higher Institute of Chemical Engineering in New Damietta
- 2010-2014 College of Applied Sciences at Al Baha University in Kingdom of Saudi Arabia
- 2014-Now Associate Professor of Physical Chemistry at the Higher Institute of Engineering and Technology in New Damietta

Research published

- 1- Title:** Chalcones as Corrosion Inhibitors for Nickel in HCl and H₂SO₄ Solutions
Authors: A.S.Fouda, H.S.Gadow and A.A.El-Shafei
Journal : **KORROZIOS FIGYELO, 43(3)(2003)95-99**
- 2- Title :** The use of Chalcones as Corrosion Inhibitors for Nickel Corrosion in Nitric Acid Solutions
Authors: A.S.Fouda, A.A.El-Shafie and H.S.Gadow
Journal: **portugalliae electrochimica acta,20(2002)13-23**
- 3- Title:** Corrosion Inhibition of Carbon Steel in HCl by Cyanoacetate and Oxobutanoate Derivatives
Authors: H.S.Gadow and A.S.Fouda
Journal : **Journal of Chemical Science and Technology, 2(3)(2013) 151-160**
- 4- Title:** Black Tea as Green Corrosion Inhibitor for Carbon Steel in 1 M Hydrochloric Acid Solutions
Authors: H. S. Gadow and A. S. Fouda
Journal : **International Journal of Advanced Research, 2(1) (2014) 233-243**
- 5- Title:** Streptoquin and Septazole: Antibiotic Drugs as Corrosion Inhibitors for Copper in Aqueous Solutions
Authors: A. S. Fouda & H. E. Gadow
Journal : **Global Journal of Researches in Engineering: C Chemical Engineering,14(2)(2014)20-36**
- 6- Title:** chemical and electrochemical investigation of coffee as green corrosion inhibitor for aluminium in hydrochloric acid solutions
Authors: A.S.Fouda, H.S.Gadow, & K.Shalabi
Journal : **International Journal of Research and Reviews in Applied Sciences 23(1)(2015)**

- 7- Title:** Antibacterial drugs as green corrosion inhibitors for copper in hydrochloric acid solutions: Electrochemical and thermodynamic studies
Authors: A.S.Fouda, **H.S.Gadow** and M.A. Salama
Journal : Elixir Corrosion & Dye 80 (2015) 30883-30890
- 8- Title:** Coffee Husk and Ziziphusspina Christi Extracts as Green Corrosion Inhibitors for Aluminum in NaOH Solutions
Authors: A.S.Fouda and **H.S.Gadow**
Journal: Elixir Appl. Chem. 83 (2015) 33047-33053
- 9- Title:** Electrochemical Studies on the Inhibition behavior of Aluminum in HCl Solution using Ziziphus Spina Christi Extract
Authors: A.S.Fouda, **H. S. Gadow** and K. Shalabi
Journal: Elixir Corrosion & Dye 84 (2015) 33572-33580
- 10- Title:** Electrochemical study on the Effectively of Cyperus Articulates extract as a green Inhibitor for Corrosion of C Steel in 0.5MH₂SO₄
Authors: A.S.Fouda, **H. Gado**, W.Aboelmaaty and M.Omar
Journal: Elixir Corrosion & Dye 91 (2016) 38519-38526
- 11- Title:** Expired Cidamex Drug as Corrosion Inhibitor for Aluminum in Acidic Solutions.
Authors: M.M.Motawea, **H.S.Gadow** & A. S. Fouda
Journal: Global Journal of Researches in Engineering: C Chemical Engineering, 16 (1)(2016) 6-20.
- 12- Title:** Investigation of the corrosion inhibition of carbon steel in hydrochloric acid solution by using ginger roots extract
Authors: **H.S.Gadow** & M.M.Motawea
Journal: RSC Adv., 2017, 7, 24576-24588 , **doi: 10.1039/c6ra28636d**
- 13- Title:** Electrochemical study on the Efficiency of Curcuma extract as a green Inhibitor for Corrosion of α - brass in 1MHCl
Authors: **H.S.Gadow** & H.M. Elabbasy
Journal: Int. J. Electrochem. Sci., 12 (2017) 5867 – 5887, **doi: 10.20964/2017.07.13**

- 14- Title:** The Corrosion Inhibition Effect of Pyrrole Derivatives on Carbon Steel in 1.0 M HCl
Authors: **H.S.Gadow** & H. M. Dardeer
Journal: Int. J. Electrochem. Sci., 12 (2017) 6137 – 6155, [doi: 10.20964/2017.07.85](https://doi.org/10.20964/2017.07.85)
- 15- Title:** Investigation of myrrh extract as a new corrosion inhibitor for a-brass in 3.5% NaCl solution polluted by 16 ppm sulfide
Authors: **H. S. Gadow**, M. M. Motaweab and H. M. Elabbasy
Journal: RSC Adv., 2017, 7, 29883–29898, [doi: 10.1039/c7ra04271j](https://doi.org/10.1039/c7ra04271j)
- 16- Title:** Experimental and theoretical investigations for some spiropyrazoles derivatives as corrosion inhibitors for copper in 2 M HNO₃ solutions
Authors: **H.S.Gadow**, Thoraya A.Farghaly, A.M.Eldesoky,
Journal: Journal of Molecular Liquids,294(2019) 111614
<https://doi.org/10.1016/j.molliq.2019.111614>
- 17- Title:** Extract of the green corrosion inhibitor for carbon steel in 1&2N HCl (an experimental and theoretical study)
Authors: **H.S.Gadow**, R.O. Abou Razza
Journal: Journal of applicable chemistry,8(5)2019
- 18- Title:** Study the effect of expired tenoxicam on the inhibition of carbon steel corrosion in a solution of hydrochloric acid
Authors: H.M. Elabbasy, **H.S. Gadow**
Journal: Journal of Molecular Liquids,321(2021) 114918
<https://doi.org/10.1016/j.molliq.2020.114918>
- 19- Title:** New promising halogenated cyclic imides derivatives as potential corrosion inhibitors for carbon steel in hydrochloric acid solution
Authors: Arafat Toghan, **H.S. Gadow**, Hemat M. Dardeer, H.M. Elabbasy
Journal: Journal of Molecular Liquids 325 (2021) 115136
<https://doi.org/10.1016/j.molliq.2020.115136>
- 20- Title:** Corrosion Inhibition of Aluminium by Rice Straw Extract in 2 M Hydrochloric Acid Solution
Authors: A. S. Fouda, **H. S. Gadow**, E. G. Abd Elal, M. I. El-Tantawy
Journal: Journal of Bio- and Tribo-Corrosion, 7(2021)102
<https://doi.org/10.1007/s40735-021-00527-2>

- 21- Title:** Inhibition of Copper Corrosion by Rice Straw Extract in 2M Solution of Nitric Acid
Authors: Mahmoud I. El-Tantawy¹, Hend S. Gadow , Ibrahim G. Rashed, Abd El-Aziz S.Fouda
Journal: Biointerface Research in Applied Chemistry, 12(1) (2022) 83 - 104
<https://doi.org/10.33263/BRIAC121.083104>
- 22- Title:** In an Acidic Environment, Perimidin-10-one Derivatives were Evaluated as Potential Copper Corrosion Inhibitors (Experimental and Theoretical Examinations)
Authors: H. S. Gadow · Thoraya A. Farghaly· A. M. Eldesoky
Journal: Journal of Bio- and Tribo-Corrosion (2022) 8:51
<https://doi.org/10.1007/s40735-022-00650-8>
- 23- Title:** Green inhibitor of carbon steel corrosion in 1 M hydrochloric acid: Eruca sativa seed extract (experimental and theoretical studies)
Authors: H. S. Gadow and M. Fakeeh
Journal: RSC Adv., 12(2022) 8953–8986
[DOI: 10.1039/d2ra01296k](https://doi.org/10.1039/d2ra01296k)
- 24- Title:** Electrochemical, surface analysis, and theoretical investigation of 3-hydroxy-5-(phenylamino)-4-(p-tolyldiazenyl)thiophen-2-yl(phenyl)methanone as a corrosion inhibitor for carbon steel in a molar hydrochloric acid solution
Authors: Arafat Toghan, M. Khairy, Minghua Huang, H.S. Gadow
Journal: International Journal of Electrochemical Science 18 (2023) 100070
<https://doi.org/10.1016/j.ijoes.2023.100070>
- 25- Title:** Experimental and theoretical approaches to the inhibition of carbon steel corrosion by thiophene derivative in 1 M HCl
Authors: H.S. Gadow, Ahmed Fawzy, M. Khairy, Moustafa M.S. Sanadf, Arafat Toghan
Journal: International Journal of Electrochemical Science 18 (2023) 100174
<https://doi.org/10.1016/j.ijoes.2023.100174>
- 26- Title:** Adsorption Mechanism, Kinetics, Thermodynamics, and Anticorrosion Performance of a New Thiophene Derivative for C-Steel in a 1.0 M HCl: Experimental And Computational Approaches
Authors: Arafat Toghan , H. S. Gadow , Ahmed Fawzy, Hanan Alhussain and H. Salah
Journal: *Metals* 2023, 13, 1565. **<https://doi.org/10.3390/met13091565>**

- 27-Title:** Use of expired Sulbutiamine drug as anticorrosive agent for carbon steel in hydrochloric acid solution
Authors: R.D. Alghamdi, M.D. Alghamdi and **H.S. Gadow**
Journal: *Int. J. Corros. Scale Inhib.*, 2023, 12, no. 4, 2282 – 2326
doi: [10.17675/2305-6894-2023-12-4-45](https://doi.org/10.17675/2305-6894-2023-12-4-45)
- 28- Title:** Cysteine as an Eco-Friendly Anticorrosion Inhibitor for Mild Steel in Various Acidic Solutions: Electrochemical, Adsorption, Surface Analysis, and Quantum Chemical Calculations
Authors: Hanaa. M. Elabbasy, Arafat Toghan, and **Hend. S. Gadow**
Journal: *ACS Omega*, 2024, 9, 11, 13391–13411
<https://doi.org/10.1021/acsomega.3c10522>
- 29- Title:** Electrochemical, gravimetric, quantum chemical and computational investigations on an effective synthetic chlorinated cyclic imide derivative as a corrosion inhibitor for carbon steel in sulfuric acid solution
Authors: Arafat Toghan, Ahmed A. Farag, Omar K. Alduaij, H.M. Elabbasy, Hemat M. Dardeer, Emad M. Masoud, Ahmed Fawzy, **H.S. Gadow**
Journal: *Journal of Molecular Structure* 1307 (2024) 138040
<https://doi.org/10.1016/j.molstruc.2024.138040>
- 30- Title:** Corrosion inhibition properties of perimidin-10-one derivatives for steel reinforcement in acidic environments: Experimental and theoretical insights
Authors: H.S. Gadow a,*, AbdulAziz A. Alayyafi b, Thoraya A. Farghaly c,d, A.M. El desoky
Journal: *International Journal of Electrochemical Science* 19 (2024) 100545
Available <https://doi.org/10.1016/j.ijoes.2024.100545>

Supervised master's thesis

- The use of some antibiotics as inhibitors of copper corrosion in hydrochloric acid solutions (Faculty of Science, Mansoura University)
- Studies on the inhibitory effect of some plant extracts on the corrosion of carbon steel in sulfuric acid (Faculty of Science, Mansoura University)

- Researching the effect of coffee peels as an inhibitor of corrosion of carbon steel in aqueous solutions (Faculty of Engineering - Department of Chemical Engineering - Alexandria University)
- The use of some plant extracts as agents that prevent the corrosion of copper and aluminum in aqueous environments (Faculty of Engineering, Mansoura University)
- The use of some plant extracts as agents that prevent the corrosion of aluminum in aqueous environments. (Faculty of Engineering, Cairo University)

Supervised PHD thesis

- Environmental waste extracts as corrosion inhibitors for some metals in aqueous solutions (PhD dissertation, Faculty of Engineering, Alexandria University)
- Supervising graduation research at the College of Science, Al Baha University, and currently supervising graduation projects for the Department of Chemical Engineering

Taken Courses

1) Special courses to develop the capabilities of faculty members:

- Organizing scientific conferences
- University administration
- Organizing exams and evaluating students
- Effective presentation
- Credit hours system
- Strategic Planning
- Local and international competitive research projects
- Quality standards in the teaching process

2) Courses from the National Authority for Educational Quality Assurance and Accreditation (for classification as an external auditor in the Authority):

- Description of programs and courses and evaluation of learning outcomes for higher education institutions
- Self-evaluation of higher education institutions
- External audit of higher education institutions
- Strategic planning for higher education colleges and institutes
- Effective teaching and learning strategies for colleges and institutes of higher education

- Organizing examinations and evaluating students for colleges and institutes of higher education
- Obtaining a training of trainers course at the TOT Authority
- Intensive external review

3) Canadian Center for Human Development:

- Certified and professional international trainer at the Canadian Center for Human Development

Participate In Arbitration Committees

- Al-Baha Award for Creativity and Excellence (member of the Scientific Innovations Branch Committee) under the supervision of His Highness Prince Mishari bin Saud, Governor of Al-Baha Region.
- Liquidation of educational areas for the National Olympiad for Scientific Creativity under the supervision of the King Abdulaziz and His Companions Foundation for Giftedness and Creativity.
- Member of the Scientific Review Committee for Scientific Research Projects 1435.
- Reviewer of the Alloys and Compounds magazine, Q1 magazine.

Conferences

- The first annual scientific research meeting at Al Baha University
- Attending a training program (Workshop of the Scientific Review Committee for Scientific Research Projects) at Al Baha University, College of Science
- Skills: The ability to use the Course Lab program and convert courses into electronic programs