

Curriculum Vitae

Ehab Salih

Teaching Assistant of Physics, Department of Mathematics, Statistics, and Physics, College of Arts and Sciences, Qatar University, Doha, Qatar.

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✚ Education

2010 – 2013: MSc in Experimental Physics from Faculty of Science, Mansoura University, Egypt.

2006 –2010: BSc in Physics from Faculty of Science, Mansoura University, Egypt.

✚ Research and academic appointments

- Teaching Assistant of Physics at Department of Mathematics, Statistics & Physics, College of Arts and Sciences, Qatar University, Doha, Qatar (**Oct 2015 – till now**).
- Research Assistant at Center for Materials Science, Zewail City of Science and Technology, Giza, Egypt (**Jan 2015 – Sep 2015**).
- Teaching Assistant of Physics at Delta University for Science and Technology, Mansoura, Egypt (**Apr 2013 – Dec 2014**).
- Master Student, Faculty of Science, Mansoura University, Egypt (**Feb 2011 – Jul 2013**).

✚ Peer-reviewed international journals

1. **Ehab Salih**, and Ahmad I. Ayesh, *First principle study of transition metals codoped MoS₂ as a gas sensor for the detection of NO and NO₂ gases*, **Physica E: Low-dimensional Systems and Nanostructures**, 131 (2021) 114736.
2. **Ehab Salih**, and Ahmad I. Ayesh, *Sensitive SO₂ gas sensor utilizing Pt-doped graphene nanoribbon: First principles investigation*, **Materials Chemistry and Physics**, 267 (2021) 124695.
3. **Ehab Salih**, and Ahmad I. Ayesh, *Co-doped zigzag graphene nanoribbon based gas sensor for sensitive detection of H₂S: DFT study*, **Superlattices and Microstructures**, 155 (2021) 106900.
4. **Ehab Salih**, and Ahmad I. Ayesh, *Pt-doped armchair graphene nanoribbon as a promising gas sensor for CO and CO₂: DFT study*, **Physica E: Low-dimensional Systems and Nanostructures**, 125 (2020) 114418.
5. **Ehab Salih**, and Ahmad I. Ayesh, *First principle investigation of H₂Se, H₂Te and PH₃ sensing based on graphene oxide*, **Physics Letters A**, 384 (2020) 126775.

6. **Ehab Salih**, and Ahmad I. Ayesh, *CO, CO₂, and SO₂ detection based on functionalized graphene nanoribbons: First principles study*, **Physica E: Low-dimensional Systems and Nanostructures**, 123 (2020) 114220.
7. **Ehab Salih**, and Ahmad I. Ayesh, *Enhancing the sensing performance of zigzag graphene nanoribbon to detect NO, NO₂, and NH₃ gases*, **Sensors**, 20 (2020) 3932.
8. Ibrahim M El-Sherbiny, **Ehab Salih**, *Green Synthesis of Metallic Nanoparticles using Biopolymers and Plant Extracts*, in S. Kanchi & S. Ahmed (Eds.), *Green Metal Nanoparticles: Synthesis, Characterization and their Applications* (pp. 293-319), Wiley-Scrivener Publishing, 2018.
9. **Ehab Salih**, Moataz Mekawy, Rabeay YA Hassan, Ibrahim M El-Sherbiny, *Synthesis, Characterization and Electrochemical-sensor Applications of Zinc Oxide/Graphene Oxide Nanocomposite*, **Journal of Nanostructure in Chemistry**, 2016: 1-12.
10. Ibrahim M El-Sherbiny, Amr Hefnawy, **Ehab Salih**, *New Core-Shell Hyperbranched Chitosan-Based Nanoparticles as Optical Sensor for Ammonia Detection*, **International Journal of Biological Macromolecules**, 2016, 86:782-788.
11. Ibrahim M El-Sherbiny, **Ehab Salih**, Abdelrahman M. Yassin, Elsayed E. Hafez, *Newly Developed Chitosan-Silver Hybrid Nanoparticles: Biosafety and Apoptosis Induction in HepG2 Cells*. **Journal of Nanoparticle research**, (2016) 18:172
12. Ibrahim M El-Sherbiny, Ayman El-Shebiny, **Ehab Salih**, *Photo-induced Green Synthesis and Antimicrobial Efficacy of Poly (ϵ -caprolactone)/Curcumin/Grape Leaves Extract-Silver Hybrid Nanoparticles*, **Journal of Photochemistry & Photobiology B: Biology**, 2016, 160: 355-63.
13. Ibrahim M El-Sherbiny, **Ehab Salih**, Fikry M Reicha, *New Trimethyl Chitosan-Based Composite Nanoparticles as Promising Antibacterial Agents*, **Drug Development and Industrial Pharmacy**, 2015:1-10.
14. Ibrahim M El-Sherbiny, **Ehab Salih**, Fikry M Reicha, *Green synthesis of densely dispersed and stable silver nanoparticles using myrrh extract and evaluation of their antibacterial activity*, **Journal of Nanostructure in Chemistry**, 2013, 3:8.

International Conference Proceedings

1. **Ehab Salih**, Fikry M. Reicha, Ibrahim M. El-Sherbiny, *In Situ Formation of Ag Nanoparticles on the Surface of Functionalized Polymeric Nanoparticles*, The XXXI International Conference On Materials Science and Applications, Hurghada, Egypt, 6-9 January 2015, **Poster**.
2. **Ehab Salih**, Fikry M. Reicha, Ibrahim M. El-Sherbiny, *Antimicrobial Properties and Characterization of Electrochemically Produced Hybrid Nanoparticles*, The XXXI International Conference On Materials Science and Applications, Hurghada, Egypt, 6-9 January 2015, **Poster**.

3. **Ehab Salih**, Fikry M. Reicha, Ibrahim M. El-Sherbiny, Phytosynthesis of stable silver nanoparticles using different reducing and capping agents, 11th international conference on chemistry and its role in development, Mansoura-Sharm El-Sheikh, march 2013, **Poster**.
4. **Ehab Salih**, Fikry M. Reicha, Ibrahim M. El-Sherbiny, Instantaneous biosynthesis and bactericidal activity of silver nanoparticles, 11th international conference on chemistry and its role in development, Mansoura-Sharm El-Sheikh, march 2013, **Poster**.

Seminars, workshops

1. Attending a seminar under title *“Linking Your Research Questions to Data Analysis Methods”* during the academic year 2021, Qatar University, Qatar.
2. Attending a seminar under title *“Understanding and Integrating Bloom’s Taxonomy of Educational Objectives”* during the academic year 2020, Qatar University, Qatar.
3. Attending a seminar under title *“Creating Classroom Mythologies: Using Narrative (Storytelling) Teaching Techniques to Enhance Student Engagement”* during the academic year 2019, Qatar University, Qatar.
4. Attending a seminar under title *“PowerPointlessness: How to Use PowerPoint Effectively in Teaching”* during the academic year 2019, Qatar University, Qatar.
5. Attending a seminar under title *“Avoiding the perils of “Profsplaining”* during the academic year 2019, Qatar University, Qatar.
6. Attending a seminar under title *“Using “Nudging” Techniques to Positively Influence Student Interest and Learning”* during the academic year 2018, Qatar University, Qatar.
7. Attending a seminar under title *“Self-Regulated Learning: From Theory to Practical Applications”* during the academic year 2018, Qatar University, Qatar.
8. Attending a seminar under title *“Developing and Implementing “Cognitive Closure” Activities to Maximize Educational Effectiveness”* during the academic year 2018, Qatar University, Qatar.
9. Attending a seminar under title *“Why Everyone Should Teach a Class on Multitasking and Mindfulness (and a Complete Lesson Plan for How/What to Teach It)”* during the academic year 2018, Qatar University, Qatar.
10. Attending a seminar under title *“Qatar University Teaching Circles: A professional development concept enabling diverse faculty to work together towards common goals of importance to the departments and programs”* during the academic year 2018, Qatar University, Qatar.

11. Attending a seminar under title “*Implementing Problem and Project Based Learning in QU aligning alternative assessment methods*” during the academic year 2018, Qatar University, Qatar.
12. Attending a seminar under title “*Starting the semester strongly: techniques to maximize your teaching effectiveness*” during the academic year 2017, Qatar University, Qatar.
13. Attending a seminar under title “*Maximizing Motivation (Thiers and Yours)*” during the academic year 2017, Qatar University, Qatar.
14. Attending a seminar under title “*Addressing different learning styles*” during the academic year 2017, Qatar University, Qatar
15. Attending a seminar under title “*Effective Teaching Strategies for Teaching First Year Courses*” during the academic year 2016, Qatar University, Qatar.
16. Attending a seminar under title “*Outcome Based Education*” during the academic year 2016, Qatar University, Qatar.
17. Attending a seminar under title “*Academic Integrity*” during the academic year 2016, Qatar University, Qatar.
18. Attending some workshops about “*Blackboard 9.1 learning management system*” Qatar University, Qatar.

Committees at the department level at Qatar University

1. Schedules and Teaching Load
2. Planning, Facilities and Budget
3. Outreach

Other skills and competences

4. Experience with Atomistic ToolKit Virtual NanoLab (ATK-VNL).
5. Experience with (FTIR, UV-vis, DSC, and TGA) analysis tools and ability to interpret the results.
6. Experience with potentiostat and ability to interpret the results.
7. Experience with Electrosprayer and Nanospraydrier.
8. Proficient user of Blackboard 9.1 learning management system.
9. Experience with Origin Pro software.