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## Oday Hadi Raoof

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### Personal information

Contact Address: College of Science  
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Date of Birth: 1978

Nationality: Iraqi

### Scientific Certification

1996 - 2002 BSc in Chemistry, College of Science, Baghdad University

2003–2006 MSc in Chemistry, College of Science, Baghdad University

#### ▪ Synthesis of New Phenoxathiin Derivatives

2009-2013 PhD in Chemistry, College of Science, Baghdad University

#### ▪ Synthesis of some organic compounds as corrosion inhibitors in petroleum industry

### Research Interest

- Synthesis of Advanced Organic compounds.
- Corrosion rate measurement and control.
- Analytical Instrumental techniques (Thermal, spectroscopy).
- Mechanical testing for organic materials.

### Career

- 2018-current, Assistant Professor, Chemistry Department, College of Science, Baghdad University.
- 2013-2017, Instructor, Chemistry Department, College of Science, Baghdad University.
- 2006-2013, Assistant Instructor, Chemistry Department, Baghdad University.
- 2005-2006, Chemical assistant, Chemistry Department, College of

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|--------------------|---|
| <b>Teaching</b>    | <ul style="list-style-type: none"><li>▪ General chemistry, Theoretical organic chemistry, Practical organic chemistry, Practical Identification of organic chemistry, Identification spectroscopy of organic chemistry, Practical analytical chemistry, Practical inorganic chemistry.</li></ul>  |
| <b>Patent</b>      | <ul style="list-style-type: none"><li>▪ Synthesis, Characterization and Investigation for some New 2-Aroyl Sulphonyl-1H-Benzimidazole derivatives as Inhibitors for carbon steel Corrosion in Sulfuric Acid Derivatives, No. of patent 4081, International classification C23F11/04, 2014.</li></ul>  |
| <b>conferences</b> | <ul style="list-style-type: none"><li>▪ 3<sup>rd</sup> scientific conference of the College of science in College of science/ university of Baghdad, 2009.</li><li>▪ 1<sup>nd</sup>. International Conference on Iraqi Oil Studies in College of science/ university of Baghdad, Baghdad 20-22 Dec 2011.</li><li>▪ 2<sup>nd</sup>. International Conference on Iraqi Oil Studies in College of science/ university of Baghdad, 2013.</li><li>▪ The 2<sup>nd</sup> International Conference of Chemistry, Department of Chemistry College of science/University of Basrah, 2014.</li></ul> |

## Publications

1. Synthesis and characterized of 2,8-(di-phenyl-1,2,5-triazine-6-thiol)phenoxathiin and 2,8-(di-phenyl-1,2,5-triazine-6-ol)phenoxathiin, ***proceeding of 3rd scientific conference of the collage of science***, University of Baghdad, 24-26 March 2009.
2. Synthesis of new phenoxathiin derivatives and evaluation the biological activity for some of the prepared derivatives, ***Al-mustansiriyah journal of science***, Vol.21, No.2, 2010.
3. Synthesis and characterization of some 2-sulphanyl benzimidazole derivatives and study of effect as corrosion inhibitors for carbon steel in sulfuric acid solution, ***Iraqi Journal of Science***, Vol. 54, No.4, pp:789-802, 2013.
4. Corrosion Inhibition Effects of Some New Synthesized N-Aroyl-N\Aryl thiourea Derivatives for Carbon Steel in Sulfuric Acid Media, ***Journal of Al-Nahrain University***, Vol.16 (4), December, pp.80-93, 2013.
5. Synthesis, Characterization and Evaluation the Corrosion Inhibition for Carbon Steel in H<sub>2</sub>SO<sub>4</sub> Solution of Several new Thiourea Derivatives, ***university of Thi-Qar A scientific and Refereed Journal***, Vol.8, No.52, 2013.
6. Synthesis, Characterization and quantum mechanical study of some new 2-benzylidenehydrazinecarbothioamide derivatives as Corrosion Inhibitors for Carbon/mild Steel in in acidic medium, ***Iraqi Journal of Science***, Vol 56, No.1A, pp:1-11, 2015.
7. Synthesis and Characterization of Some New Substituted 5-Bromo Isatin and Their Antimicrobial Activity, ***Zanco Journal of Pure and Applied Sciences***, Vol 27, No.2, pp:37-52, 2015.
8. Synthesis, Identification and Evaluation Biological Activity for Some New Triazole, Triazoline and Tetrazoline Derivatives From 2-Mercapto-3-phenyl-4(3H)Quinazolinone, ***Iraqi Journal of Science***, Vol 57, No.1B, pp:295-308, 2016.
9. Corrosion Inhibition for Carbon Steel of Benzimidazole Derivatives Synthesized in Sulfuric Acid Solution, ***International Journal of Science and Research (IJSR)***, Volume 6 Issue 3, March 2017.
10. Experimental and theoretical study of 3-benzyl -2-mercaptoquinoxaline-4(3h)-one (BMQ) as an inhibitor of carbon steel corrosion in acidic media, ***International journal of science and nature***, VOL.9 (1) 2018.
11. Synthesis, Characterization of Organic Derivatives Containing Heterocyclic Rings and Evaluation Their Antibacterial Activity, ***IOSR Journal of Pharmacy and Biological Sciences (IOSR-JPBS)***, Volume 13, Issue 1 Ver. II (Jan. – Feb. 2018), PP 18-22.
12. HOMO-LUMO Energies and Geometrical Structures Effecton

Corrosion Inhibition for Organic Compounds Predict by DFT and PM3 Methods, **NeuroQuantology**, Volume 18, Issue 1, Page 37-45, January 2020. doi: [10.14704/nq.2020.18.1.NQ20105](https://doi.org/10.14704/nq.2020.18.1.NQ20105).

13. Antimicrobial Evaluation of Some New Synthesized N-Hydroxy Phthalimide Derivatives, **International Journal of Pharmaceutical Research**, Vol 13, Issue 2, PP 1594-1604, Apr - Jun 2021. <https://doi.org/10.31838/ijpr/2021.13.02.212>.
14. Sensitive and simple colorimetric methods for visual detection and quantitative determination of semicarbazide in flour products using colorimetric reagents, **Sensors and Actuators: B. Chemical**, 341, 2021, 130009. <https://doi.org/10.1016/j.snb.2021.130009>.
15. Novel Synthesis of Some N-Hydroxy Phthalimide Derivatives with Investigation of Its Corrosion Inhibition for Carbon Steel in HCl Solution, **Chemical Methodologies**, 5, PP:331-340, 2021. DOI: [10.22034/chemm.2021.131305](https://doi.org/10.22034/chemm.2021.131305).