

# DINA SAADI AHMED



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## EXPERIENCE

Nov. 2018-till May 2020 Lecturer of Medical Chemistry, Department of Medical Engineering Techniques, Al-Mansour University College, Baghdad, Iraq.

2018- till May 2020 Lecturer of English, Department of Medical Engineering Techniques, Al-Mansour University College, Baghdad, Iraq.

2019-till now Lecturer of Clinical Chemistry - Instrumentation & Technology, Department of Medical Engineering Techniques, Al-Mansour University College, Baghdad, Iraq.

## EDUCATION

Ph.D., Industrial Chemistry, College of Science, Tikrit University, Iraq. (2018).  
Thesis Title: "Synthesis of New Materials and Polymeric Schiff Bases and Study Their Applications as Photostabilizers and Gas Storage"

## PUBLICATIONS

### JOURNALS

2022

1. Mahdi, S. A., Ahmed, A. A., Yousif, E., Ahmed, D., Al-Mashhadani, M. H., & Bufaroosha, M. (2022). Comarine derivatives designed as carbon dioxide and hydrogen storage. *Materials Science for Energy Technologies*, 5, 197-207.
2. Graisa, A. M., Husain, A. A., Al-Ani, A., Ahmed, D. S., Al-Mashhadani, M. H., & Yousif, E. (2022). The Organotin Spectroscopic Studies of Hydroxamic as a Ligand: A Systematic Review. *Al-Nahrain Journal of Science*, 25(1), 14-23.
3. Graisa, A. M., Husain, A. A., Al-Ani, A., Thamer, H., Mahdi, S., Ahmed, D. S., ... & Yousif, E. (2022). Hydroxamic Acids Interactions with Tin: An Overview. *Jurnal Serambi Engineering*, 7(2).
4. Al-Tikrity, E. T., Yaseen, A. A., Yousif, E., Ahmed, D. S., & Al-Mashhadani, M. H. (2022). Impact on Poly (Vinyl chloride) of trimethoprim schiff bases as stabilizers. *Polymers and Polymer Composites*, 30, 09673911221094020.
5. Dawood, M. A., Alasady, Z. M. K., Abdulazeez, M. S., Ahmed, D. S., Sulaiman, G. M., Kadhum, A. A. H., ... & Alamiery, A. A. (2021). The corrosion inhibition effect of a pyridine derivative for low carbon steel in 1 M HCl medium: Complemented with antibacterial studies. *Int. J. Corros. Scale Inhib*, 10(4), 1766-1782.
6. Saleh, T. A., Al-Tikrity, E. T., Ahmed, D. S., El-Hiti, G. A., Kariuki, B. M., Yaseen, A. A., ... & Yousif, E. (2022). Monitoring physicochemical properties of transparent PVC films containing captopril and metal oxide nanoparticles to assess UV blocking. *Journal of Polymer Research*, 29(6), 1-10.
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8. Yousif, E., Ahmed, D., Zainulabdeen, K., & Jawad, A. (2023). Photo-physical and Morphological Study of Polymers: A Review. *Physical Chemistry Research*, 11(2), 409-424.
9. Yaseen, A. A., Yousif, E., Al-Tikrity, E. T., Kadhom, M., Yusop, M. R., & Ahmed, D. S. (2022). Environmental Performance of Alternative Schiff Bases Synthesis Routes: A Proposal for CO<sub>2</sub> Storages. *Pollution*, 8(1), 239-248.
10. El-Hiti, G. A., Ahmed, D. S., Yousif, E., Al-Khazrajy, O. S., Abdallah, M., & Alanazi, S. A. (2021). Modifications of polymers through the addition of ultraviolet absorbers to reduce the aging effect of accelerated and natural irradiation. *Polymers*, 14(1), 20.

11. Ahmed, D. S., Mohammed, A., Husain, A. A., El-Hiti, G. A., Kadhom, M., Kariuki, B. M., & Yousif, E. (2022). Fabrication of highly photostable polystyrene films embedded with organometallic complexes. *Polymers*, 14(5), 1024.
12. Fadhil, M., Yousif, E., Ahmed, D. S., Mohammed, A., Hashim, H., Ahmed, A., ... & El-Hiti, G. A. (2022). Synthesis of New Norfloxacin–Tin Complexes to Mitigate the Effect of Ultraviolet-Visible Irradiation in Polyvinyl Chloride Films. *Polymers*, 14(14), 2812.
13. Hadi, A. G., Saddam, N. S., Ahmed, D. S., & Yousif, E. (2022, January). Extraction and characterization of Chitosan gained from oyster and fish shells and evaluation its application as antioxidant. In *AIP Conference Proceedings* (Vol. 2386, No. 1, p. 030016). AIP Publishing LLC.
14. Graisa, A. M., Husain, A. A., Al-Mashhadani, M. H., Ahmed, D. S., Adil, H., & Yousif, E. (2022). The Organotin Applications in Biological, Industrial and Agricultural Sectors: A Systematic Review. *Jurnal Serambi Engineering*, 7(1).

#### 2021

1. Ahmed, Dina S., Farah M. Ibrahim, Muna Bufaroosha, Mohammed H. Al-Mashhadani, Ali H. Jawad, Rahimi M. Yusop, Nadia Salih, Salam A. Mohammed, and Emad Yousif. "Polyphosphates as thermal stabilizers for poly (vinyl chloride)." *Materials Today: Proceedings* 42 (2021): 2680-2685.
2. Al-Mashhadani, Mohammed H., Dina S. Ahmed, Hadeel Adil, Ahmed Ahmed, Hamsa Thamer, Basheer A. Hamad, Mustafa Abdallh et al. "A quantitative spectroscopic study of the bleaching phenomena in photo-stabilized formulations containing PVC exposed to outdoor conditions." *Materials Today: Proceedings* 42 (2021): 2686-2692.
3. Al-Mashhadani, Mohammed H., Hamsa Thamer, Hadeel Adil, Ahmed Ahmed, Dina S. Ahmed, Muna Bufaroosha, Ali H. Jawad, and Emad Yousif. "Environmental and morphological behavior of polystyrene films containing Schiff base moiety." *Materials Today: Proceedings* 42 (2021): 2693-2699.
4. Alhaydari, E., Yousif, E., Al-Mashhadani, M. H., Ahmed, D. S., Jawad, A. H., Bufaroosha, M., & Ahmed, A. A. (2021). Sulfamethoxazole as a ligand to synthesize di- and tri-alkyltin (IV) complexes and using as excellent photo-stabilizers for PVC. *Journal of Polymer Research*, 28(12), 1-19.
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coordination complexes as PVC photostabilizers." *Materials Today: Proceedings* 42 (2021): 2849-2852.

7. Al-Doori, Ahmed Nadhmi, and Dina S. Ahmed. "Describing a COVID-19 Case and Presenting the Proposed Plan to Recovery." *Al-Nahrain Journal of Science* 5 (2021): 17-20.
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9. Ahmed, Ahmed, Mustafa Abdallah, Mohammed H. Al-Mashhadani, Dina S. Ahmed, Muna Bufaroosha, Ali H. Jawad, and Emad Yousif. "Environmental Stability of Poly (Vinyl Chloride) Modified by Schiff's Base under Exposure to UV." (2021).
10. Ahmed, Ahmed, Mohammed H. Al-Mashhadani, Dina S. Ahmed, Ahmed A. Ahmed, Emad Yousif, and Rahimi M. Yusop. "Preparation of Polymeric films containing Schiff base as UV-Absorber with Good Resistance against UV-Photoaging." (2021).
11. Ahmed, Dina S., Mohammed Kadhom, Angham G. Hadi, Muna Bufaroosha, Nadia Salih, Wedad H. Al-Dahhan, and Emad Yousif. "Tetra Schiff Bases as Polyvinyl Chloride Thermal Stabilizers." *Chemistry* 3, no. 1 (2021): 288-296.
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  20. Omer, R. M., E. T. B. Al-Tikrity, E. Yousif, G. A. El-Hiti, D. S. Ahmed, and A. A. Ahmed. "Spectroscopic and Morphological Study of Irradiated PVC Films Doped with Polyphosphates Containing 4, 4'-Methylenedianiline." *Russian Journal of Applied Chemistry* 93, no. 12 (2020): 1888-1898.
  21. Ghani, H., Yousif, E., Ahmed, D. S., Kariuki, B. M., & El-Hiti, G. A. (2021). Tin complexes of 4-(benzylideneamino) benzenesulfonamide: Synthesis, structure elucidation and their efficiency as PVC photostabilizers. *Polymers*, 13(15), 2434.
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  23. Yaseen, A. A., Yousif, E., Al-Tikrity, E. T., El-Hiti, G. A., Kariuki, B. M., Ahmed, D. S., & Bufaroosha, M. (2021). FTIR, weight, and surface morphology of poly (vinyl chloride) doped with tin complexes containing aromatic and heterocyclic moieties. *Polymers*, 13(19), 3264.
  24. Hadi, A. G., Baqir, S. J., Ahmed, D. S., El-Hiti, G. A., Hashim, H., Ahmed, A., ... & Yousif, E. (2021). Substituted organotin complexes of 4-methoxybenzoic acid for reduction of poly (vinyl chloride) photodegradation. *Polymers*, 13(22), 3946.
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4. Mousa, O.G., Yousif, E., Ahmed, A.A. *et al.* Synthesis and use of carvedilol metal complexes as carbon dioxide storage media. *Appl Petrochem Res* 10, 157–164 (2020). <https://doi.org/10.1007/s13203-020-00255-7>.
5. Watheq, B.; Yousif, E.; Al-Mashhadani, M.H.; Mohammed, A.; Ahmed, D.S.; Kadhom, M.; Jawad, A.H. A Surface Morphological Study, Poly(Vinyl Chloride) Photo-Stabilizers Utilizing Ibuprofen Tin Complexes against Ultraviolet Radiation. *Surfaces* 2020, 3, 579-593.
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9. Rasheed N. Abed, Mohammed Kadhom, D. S. Ahmed, A. Hadaway, Emad Yousif, Enhancing Optical Properties of Modified PVC and Cr2O3 Nanocomposite, <https://doi.org/10.1007/s42341-020-00242-8>
10. Zinah N. Mahmood, Emad Yousif, Mahasin Alias, Gamal A. El-Hiti, Dina S. Ahmed. Synthesis, characterization, properties, and use of new fusidate organotin complexes as additives to inhibit poly(vinyl chloride) Photodegradation. *Journal of Polymer Research* (2020) 27:267

11. Emad Yousif, Ahmed Ahmed, Dina S. Ahmed, Hassan Hashim, Salam A. Mohammed. Ice rock-resembling PHB thin films doped with TiO<sub>2</sub> NPs as photocatalyst. *SN Applied Sciences* (2020) 2:1401 | <https://doi.org/10.1007/s42452-020-2588-4>.
12. Najim, L. H., El-Hiti, G. A., Ahmed, D. S., Mohammed, A., Alotaibi, M. H., & Yousif, E. Valsartan metal complexes as capture and reversible storage media for methane.
13. Majeed, A., Yousif, E., El-Hiti, G. A., Ahmed, D. S., & Ahmed, A. A. (2020). Stabilization of Poly (vinyl chloride) containing captopril tin complexes against degradation upon exposure to ultraviolet light. *Journal of Vinyl and Additive Technology*.
14. Mohammed, A., El-Hiti, G. A., Yousif, E., Ahmed, A. A., Ahmed, D. S., & Alotaibi, M. H. (2020). Protection of Poly (Vinyl Chloride) Films against Photodegradation Using Various Valsartan Tin Complexes. *Polymers*, 12(4), 969.
15. Ahmed, D. S., Abdallah, M., Alsayed, R., Ahmed, A., & Yousif, E. (2020, March). Graft modification of PVC with 1, 2, 4-triazole ring system for preparing flexible PVC materials. In *AIP Conference Proceedings* (Vol. 2213, No. 1, p. 020129). AIP Publishing LLC.
16. Bufaroosha, M., Salih, N., Hadi, A. G., Ahmed, D. S., Al-mashhadani, M. H., & Yousif, E. (2020). The Effect of UV Aging on the Structure of PVC in the Presence of Organotin (IV) Compounds. *Al-Nahrain Journal of Science*, 23(1), 57-61.
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19. Gamal A. El-Hiti, Dina S. Ahmed, Emad Yousif, Mohammad Hayal Alotaibi, Hind A. Satar and Ahmed A. Ahmed. Influence of Polyphosphates on the Physicochemical Properties of Poly (Vinyl Chloride) after Irradiation with Ultraviolet Light. *Polymers* 2020, 12, 193; doi:10.3390/polym12010193
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3. Emad Yousif, Mustafa Abdalh, Hassan Hashim, Ahmed Ahmed, Dina S. Ahmed, Rahimi M. Yusop, Ahmed A. Ahmed, Enhancement of the photo-chemical properties and efficacy of the mixing technique in the preparation of Schiff base-Cu(II)/poly(vinyl chloride) compounds, *Emergent Materials*, <https://doi.org/10.1007/s42247-019-00059-z>
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5. Hind A. Satar, Ahmed A. Ahmed, Emad Yousif, Dina S. Ahmed, Mohammed F. Alotibi, Gamal A. El-Hiti, Synthesis of Novel Heteroatom-Doped Porous- Organic Polymers as Environmentally Efficient Media for Carbon Dioxide Storage, *Appl. Sci.* 2019, 9, 4314; doi:10.3390/app9204314
6. Ahmed A. Ahmed, Dina S. Ahmed, Gamal A. El-Hiti, Mohammad Hayal Alotaibi, Hassan Hashim, Emad Yousif. SEM morphological analysis of irradiated polystyrene film doped by a Schiff base containing a 1,2,4-triazole ring system. *Applied Petrochemical Research*. <https://doi.org/10.1007/s13203-019-00235-6>.
7. Angham G. Hadi, Khudheyer Jawad, Gamal A. El-Hiti, Mohammad Hayal Alotaibi, Ahmed A. Ahmed, Dina S. Ahmed and Emad Yousif. Photostabilization of Poly(vinyl chloride) by Organotin(IV) Compounds against Photodegradation. *Molecules* 2019, 24, 3557; doi:10.3390/molecules24193557
8. Emad Yousif, Dina S. Ahmed. Poly(vinyl chloride) reinforced Schiff base as an eco-friendly alternative to conventional PVC. *SN Applied Sciences* (2019) 1:955.
9. ALI HASSAN, DINA S. AHMED, RIYADH NOAMAN and EMAD YOUSIF. Monitoring the Photodegradation of PVC Thin Films Containing Schiff Base Using



**FTIR Spectroscopy. Oriental Journal of Physical Sciences. Vol.04, No.(1) 2019, Pg. 12-17.**

- 10. Dina S. Ahmed, Teeba Hashim Mohammed, Mohsen Hashim Risan, Liqaa H. Najim, Salam A. Mohammed, Rahimi M. Yusop, Emad Yousif. GREEN SYNTHESIS OF SILVER NANOPARTICLES BY PLANTS EXTRACT, International Journal of Chemical and Process Engineering Research. 2019 Vol. 6, No. 1, pp. 1-6.**
  - 11. Emad Yousif, Rahimi M. Yusop, Dina S. Ahmed, Photostability of PVC Films by using Safety Synthetic Bio-lubricant as Additives, Malaysian Journal of Chemistry, 2019, Vol. 21 (2), 36-42.**
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  - 13. Evon Akram, Gamal A. El-Hiti, Dina S. Ahmed, Alaa Adnan Rashad, Wedad H. Al Dahhan, Emad Yousif. Morphological, Liquid Crystal and Optical Band Energy Properties of Polyphosphates. Al-Nahrain Journal of Science. Vol.22 (2), 2019, pp.19-26.**
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  - 16. Hind A. Satar, Dina S. Ahmed, Ahmed A. Ahmed, Omar Al-Khazraji, Emad Yousif, Gas Storage and Separation in Metal Organic Frameworks, Open Access Journal of Chemistry, Volume 3, Issue 2, 2019, PP 6-9.**
  - 17. Emad Yousif, Dina S. Ahmed, Ahmed A. Ahmed, Ayad S. Hameed, Safaa H. Muhamed, Rahimi M. Yusop, Amamer Redwan, Salam A. Mohammed, The effect of high UV radiation exposure environment on the novel PVC polymers, Environmental Science and Pollution Research 2019, <https://doi.org/10.1007/s11356-019-04323-x>.**
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2. Dina S Ahmed, Hadeel Adil, Emad Yousif, Recent Development Issues in Nanotechnology for Gas Storage, Arch Nano Op Acc J, 2018, 1(5).
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#### **AWARDS, THANKS & APPRECIATION, AND PATENTS IF ANY PATENTS**

- New Organotin(IV) Complexes as CO<sub>2</sub> Storage Media-2020.
- Organotin(IV) as New PVC Photostabilizers
- Schiff Bases as PVC Photodegradation Inhibitors. 22/7/2019
- Polymeric Schiff Bases as CO<sub>2</sub> Capture. 10/1/2019.

#### **BOOKS**

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