



**الجامعة التقنية الشمالية**  
**الكلية التقنية الهندسية/الموصل**  
**قسم هندسة تقنيات الصناعات الكيماوية والنفطية**



**بحوث التدريسيين/ قسم الصناعات الكيماوية والنفطية**

ت	الاسم	البحث	الرابط
1.	د. حيدر اسماعيل ابراهيم	Investigation of the corrosion of heating treatment medium carbon steel in sulfur aqueous solution.	<a href="http://creativecommons.org/licenses/by/4.0/">http://creativecommons.org/licenses/by/4.0/</a>
		Effect of change in sulfuric acid concentrations and different temperature on corrosion of heat-treated moderate carbon steel	<a href="https://doi.org/10.37934/arfmts.124.1.2127">https://doi.org/10.37934/arfmts.124.1.2127</a>
2.	د. علي يونس حامد	Thermodynamic Study on Ionization Constant (Ka) Values for Some Imines derived from p,o-Aminobenzaldehydes and Cinnaldehyde by Conductance Method supported by Theoretical Studies	<a href="http://worldresearchersassociations.com/Archives/RJCE/Vol(26)2022/December2022/ThermodynamicStudyonIonizationConstant(Ka)ValuesforSomeIminesderivedfrom.aspx">worldresearchersassociations.com/Archives/RJCE/Vol(26)2022/December2022/ThermodynamicStudyonIonizationConstant(Ka)ValuesforSomeIminesderivedfrom.aspx</a>
		QSAR of antioxidant activity of some novel sulfonamide derivatives.	<a href="http://ekb.eg/QSARofantioxidantactivityofsomenovelsulfonamidederivatives.">QSAR of antioxidant activity of some novel sulfonamide derivatives. (ekb.eg)</a>
		PRIMARY IDENTIFICATION OF EUCALYPTUS ( <i>Eucalyptus camaldulensis</i> ) WOOD LIGNIN MONOMERS BY FT-IR SPECTROSCOPY	<a href="https://iasj.rdd.edu.iq/journals/uploads/2024/12/19/3125d2acd0c265f22b0727fb1359aa4b.pdf">https://iasj.rdd.edu.iq/journals/uploads/2024/12/19/3125d2acd0c265f22b0727fb1359aa4b.pdf</a>
		Theoretical investigation using DFT for predicting the factors affecting the melting point of series of alkylammoniumformates ionic liquids	<a href="https://www.researchgate.net/publication/274917977_Theoretical_investigation_using_DFT_for_predicting_the_factors_affecting_the_melting_point_of_series_of_alkylammoniumformates_ionic_liquids">https://www.researchgate.net/publication/274917977_Theoretical_investigation_using_DFT_for_predicting_the_factors_affecting_the_melting_point_of_series_of_alkylammoniumformates_ionic_liquids</a>

3.	د. رافع رشدي محمد	Active Carbon from Microwave Date Stones for Toxic Dye Removal: Setting the Design Capacity	<a href="https://doi.org/10.1002/ceat.202000059">https://doi.org/10.1002/ceat.202000059</a>
		Adsorption of Phenol from Aqueous Solution Using Granular Activated Carbon from Walnut Shell	<a href="https://doi.org/10.1063/5.0161507">https://doi.org/10.1063/5.0161507</a>
		Combined magnetic field and adsorption process for treatment of biologically treated palm oil mill effluent (POME)	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1385894713016653?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S1385894713016653?via%3Dihub</a>
		Treatment and decolorization of biologically treated Palm Oil Mill Effluent (POME) using banana peel as novel biosorbent	<a href="https://www.sciencedirect.com/science/article/abs/pii/S030147971300724X?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S030147971300724X?via%3Dihub</a>
		Waste lubricating oil treatment by extraction and adsorption	<a href="https://www.sciencedirect.com/science/article/abs/pii/S1385894713000144?via%3Dihub">https://www.sciencedirect.com/science/article/abs/pii/S1385894713000144?via%3Dihub</a>
		Removal of Heavy Metals from Waste Water Using Black Teawaste	<a href="https://link.springer.com/article/10.1007/s13369-012-0264-8">https://link.springer.com/article/10.1007/s13369-012-0264-8</a>
4.	د. هدى عبد الرزاق يونس	The effect of the double doping on the electrical properties of polyaniline	<a href="https://ejchem.journals.ekb.eg/article_185438.html">https://ejchem.journals.ekb.eg/article_185438.html</a>
		Basic Decomposition For Sunflower Seed Peels And Study Of Carbonation Products And Their Effect On The Specifications Of The Prepared Carbon	<a href="https://theaspd.com/index.php/ijes/article/view/3237/2459">https://theaspd.com/index.php/ijes/article/view/3237/2459</a>

5.	د. أسماء بكر نايف	Determination The Structure of New Some Imines by Physical and Chemical Methods	<a href="#">Determination The Structure of New Some Imines by Physical and Chemical Methods</a>
		A theoretical and practical inclusive study of the effect of some factors on the ionization constants of some aromatic imines by potentiometric titration	<a href="https://pubs.aip.org/aip/acp/article-abstract/2660/1/020056/2832509/A-theoretical-and-practical-inclusive-study-of-the?redirectedFrom=PDF">https://pubs.aip.org/aip/acp/article-abstract/2660/1/020056/2832509/A-theoretical-and-practical-inclusive-study-of-the?redirectedFrom=PDF</a>
		An Electrochemical Study by using Conductivity Measurement for Two Oximes at Different Temperatures supported with DFT Analysis	<a href="https://worldresearchersassociations.com/Archives/RJCE/Vol(26)2022/November%202022/Content%20of%20November%2022%20issue.pdf">https://worldresearchersassociations.com/Archives/RJCE/Vol(26)2022/November%202022/Content%20of%20November%2022%20issue.pdf</a>
		Study on Thermodynamic Ionization Constant (Ka) Values for Some Imines derived from p, Aminobenzaldehydes and o Cinnaldehyde by Conductance Method supported by Theoretical Studies	<a href="https://worldresearchersassociations.com/Archives/RJCE/Vol(26)2022/December%202022/Content%20of%20December%2022%20issue.pdf">https://worldresearchersassociations.com/Archives/RJCE/Vol(26)2022/December%202022/Content%20of%20December%2022%20issue.pdf</a>
6.	د. صفا سنان محمود	Enhancing biohydrogen efficiency via gel immobilisation with assessment of anaerobic bacteria in system and process stimulation	<a href="https://doi.org/10.1016/j.biombiome.2025.108286">https://doi.org/10.1016/j.biombiome.2025.108286</a>
		Innovative approaches for decolorization of malachite green-contaminated wastewater using sustainable composites: an overview	<a href="https://doi.org/10.1080/00986445.2025.2532511">https://doi.org/10.1080/00986445.2025.2532511</a>
		Hydrophilic/underwater oleophobic composite hydrogel for efficient oil/water separation in environmental remediation	DOI 10.1088/1402-4896/adde23
		Synthesis and Characterization of Crosslinked Hydrogel with Rice Straw-Based Cellulose	<a href="https://doi.org/10.1007/978-981-96-3785-0_17">https://doi.org/10.1007/978-981-96-3785-0_17</a>

	Microalgae biomass: A multi-product biorefinery solution for sustainable energy, environmental remediation, and industrial symbiosis	<a href="https://doi.org/10.1016/j.algal.2024.103839">https://doi.org/10.1016/j.algal.2024.103839</a>
	Investigation of the antimicrobial properties of temperature-sensitive hydrogel containing silver sulfadiazine against various bacterial strains	<a href="https://doi.org/10.58915/ijneam.v18i1.1700">https://doi.org/10.58915/ijneam.v18i1.1700</a>
	Enhancing biohydrogen gas production in anaerobic system via comparative chemical pre-treatment on palm oil mill effluent (POME)	<a href="https://doi.org/10.1016/j.jenvma.2022.115892">https://doi.org/10.1016/j.jenvma.2022.115892</a>
	Enhancement of biohydrogen production from palm oil mill effluent (POME): A review	<a href="https://doi.org/10.1016/j.ijhyden.2021.07.225">https://doi.org/10.1016/j.ijhyden.2021.07.225</a>
	ECONOMICAL STUDY OF BIO-BASED POLYBUTYLENE SUCCINATE PRODUCTION FROM OIL PALM BIOMASS	DOI: <a href="https://doi.org/10.21894/jopr.2023.0001">https://doi.org/10.21894/jopr.2023.0001</a>
	Water reclamation from palm oil mill effluent (POME): Recent technologies, by-product recovery, and challenges	<a href="https://doi.org/10.1016/j.jwpe.2023.103488">https://doi.org/10.1016/j.jwpe.2023.103488</a>
	Impact of light spectra on photo-fermentative biohydrogen production by Rhodobacter sphaeroides KKU-PS1	<a href="https://doi.org/10.1016/j.biortech.2023.130222">https://doi.org/10.1016/j.biortech.2023.130222</a>
	Evaluation of biohydrogen production from rice straw hydrolysate via Clostridium sp. YM1: In-lab fermentation and techno-economic study	<a href="https://doi.org/10.1016/j.ijhyden.2024.07.293">https://doi.org/10.1016/j.ijhyden.2024.07.293</a>
	Effect of nano zero-valent iron (nZVI) on biohydrogen production in anaerobic fermentation of oil palm frond juice using Clostridium butyricum JKT37	<a href="https://doi.org/10.1016/j.biombi.2021.106270">https://doi.org/10.1016/j.biombi.2021.106270</a>

7.	محمود خليل سليم	Shock: Injury, Inflammation, and Sepsis: Laboratory and Clinical Approaches Hydrogen Sulfide Inhalation a Promising treatment for COVID-19	<a href="https://www.researchgate.net/publication/357913803_Shock_Injury_Inflammation_and_Sepsis_Laboratory_and_Clinical_Approaches_Hydrogen_Sulfide_Inhalation_a_Promising_treatment_for_COVID-19_A_Clinical_Trial_-_Manuscript_Draft--">https://www.researchgate.net/publication/357913803_Shock_Injury_Inflammation_and_Sepsis_Laboratory_and_Clinical_Approaches_Hydrogen_Sulfide_Inhalation_a_Promising_treatment_for_COVID-19_A_Clinical_Trial_-_Manuscript_Draft--</a> Manuscript Number Full Titl
		Assessment of Inhaled Hydrogen Sulfide in Suppressing Deterioration in Patients With COVID-19	<a href="https://www.researchgate.net/publication/348485951_Assessment_of_Inhaled_Hydrogen_Sulfide_in_Suppressing_Deterioration_in_Patients_With_COVID-19">https://www.researchgate.net/publication/348485951_Assessment_of_Inhaled_Hydrogen_Sulfide_in_Suppressing_Deterioration_in_Patients_With_COVID-19</a>
		A new approach to enhance the reclaimed asphalt pavement features: role of maltene as a rejuvenator	<a href="https://www.researchgate.net/publication/355210080_A_new_approach_to_enhance_the_reclaimed_asphalt_pavement_features_role_of_maltene_as_a_rejuvenator">https://www.researchgate.net/publication/355210080_A_new_approach_to_enhance_the_reclaimed_asphalt_pavement_features_role_of_maltene_as_a_rejuvenator</a>
		Effects of maltene on the attributes of reclaimed asphalt pavement: Performance optimisation	<a href="https://www.researchgate.net/publication/353316498_Effects_of_maltene_on_the_attributes_of_reclaimed_asphalt_pavement_Performance_optimisation">https://www.researchgate.net/publication/353316498_Effects_of_maltene_on_the_attributes_of_reclaimed_asphalt_pavement_Performance_optimisation</a>
		Evaluating the Chemical and Rheological Attributes of Aged Asphalt: Synergistic Effects of Maltene and Waste Engine Oil Rejuvenators	<a href="https://www.researchgate.net/publication/343546224_Evaluating_the_Chemical_and_Rheological_Attributes_of_Aged_Asphalt_Synergistic_Effects_of_Maltene_and_Waste_Engine_Oil_Rejuvenators">https://www.researchgate.net/publication/343546224_Evaluating_the_Chemical_and_Rheological_Attributes_of_Aged_Asphalt_Synergistic_Effects_of_Maltene_and_Waste_Engine_Oil_Rejuvenators</a>
		A review on rejuvenating materials used with reclaimed hot mix asphalt	<a href="https://www.researchgate.net/publication/339185348_A_review_on_rejuvenating_materials_used_with_reclaimed_hot_mix_asphalt">https://www.researchgate.net/publication/339185348_A_review_on_rejuvenating_materials_used_with_reclaimed_hot_mix_asphalt</a>
		Evaluating the Chemical and Rheological Attributes of Aged Asphalt: Synergistic Effects of Maltene and Waste Engine Oil Rejuvenators	<a href="https://www.researchgate.net/publication/348656074_Evaluating_the_Chemical_and_Rheological_Attributes_of_Aged_Asphalt_Synergistic_Effects_of_Maltene_and_Waste_Engine_Oil_Rejuvenators">https://www.researchgate.net/publication/348656074_Evaluating_the_Chemical_and_Rheological_Attributes_of_Aged_Asphalt_Synergistic_Effects_of_Maltene_and_Waste_Engine_Oil_Rejuvenators</a>

8.	هبة عبد الكريم صالح	Performance Optimization of BLDC Motor Control Using Sand Cat Swarm Algorithm and Linear Quadratic Regulator	<a href="#">Performance Optimization of BLDC Motor Control Using Sand Cat Swarm Algorithm and Linear Quadratic Regulator   Journal of Robotics and Control (JRC)</a>
		Adaptive control of a DC servo motor using particle swarm and gray wolf optimization algorithms	<a href="https://doi.org/10.1063/5.0260224">https://doi.org/10.1063/5.0260224</a>
		Diagnosing Gingiva Disease Using Artificial Intelligence Techniques	<a href="#">Diagnosing Gingiva Disease Using Artificial Intelligence Techniques   Diyala Journal of Engineering Sciences</a>
		Design and implementation of model predictive controller	<a href="https://www.researchgate.net/publication/390516261_Design_and_Implementation_of_Model_Predictive_Controller">https://www.researchgate.net/publication/390516261_Design_and_Implementation_of_Model_Predictive_Controller</a>
		Investment Green Internet of Things for Sustainable and Eco-Friendly Smart Cities: Prospects and Future Challenges	<a href="https://uomosul.edu.iq/en/environmentalscience/wp-content/uploads/sites/12/2025/07/%D8%A7%D9%84%D9%85%D8%AC%D9%84%D8%AF-3-%D8%A7%D9%84%D8%B9%D8%AF%D8%AF-2-%D9%84%D8%B3%D9%86%D8%A9-2025_compressed.pdf">https://uomosul.edu.iq/en/environmentalscience/wp-content/uploads/sites/12/2025/07/%D8%A7%D9%84%D9%85%D8%AC%D9%84%D8%AF-3-%D8%A7%D9%84%D8%B9%D8%AF%D8%AF-2-%D9%84%D8%B3%D9%86%D8%A9-2025_compressed.pdf</a>

9.	عزام عصام عبد الكريم	Design and Comparative Analysis of a Microstrip Patch Antenna With Different Feed Technique at 2.4 GHz for Wireless Applications	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ar&amp;user=o9-95RUAAAAJ&amp;citation_for_view=o9-95RUAAAAJ:2osOgNQ5qMEC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ar&amp;user=o9-95RUAAAAJ&amp;citation_for_view=o9-95RUAAAAJ:2osOgNQ5qMEC</a>
		Hybrid VLC-RF Channel Estimation for GFDM Wireless Sensor Networks Using Tree-Based Regresso	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ar&amp;user=o9-95RUAAAAJ&amp;citation_for_view=o9-95RUAAAAJ:qjMakFHDy7sC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ar&amp;user=o9-95RUAAAAJ&amp;citation_for_view=o9-95RUAAAAJ:qjMakFHDy7sC</a>
		Energy Efficient by Reducing Interference in the Wireless Sensor Networks using the OFDM Modulation Technology with 2.4GHz and 5.8GHz Frequencies	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ar&amp;user=o9-95RUAAAAJ&amp;citation_for_view=o9-95RUAAAAJ:9yKSN-GCB0IC">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ar&amp;user=o9-95RUAAAAJ&amp;citation_for_view=o9-95RUAAAAJ:9yKSN-GCB0IC</a>
		Measurement and Node Placement for Interference Reduction in a Smart Home IoT Network	<a href="https://scholar.google.com/citations?view_op=view_citation&amp;hl=ar&amp;user=o9-95RUAAAAJ&amp;citation_for_view=o9-95RUAAAAJ:d1gkVwhDpl0C">https://scholar.google.com/citations?view_op=view_citation&amp;hl=ar&amp;user=o9-95RUAAAAJ&amp;citation_for_view=o9-95RUAAAAJ:d1gkVwhDpl0C</a>
	كرم صلاح الدين شريف	Green Alternative Solvents and Artificial Intelligence: For a Greener and More Sustainable Future	<a href="https://ntu.edu.iq/icsdt2025/">https://ntu.edu.iq/icsdt2025/</a>