



Published Researches of Chemistry Department for the year 2025-2026

No.	Title	Name of researcher	Journal Title	Journal Type	Publication date
1	Kinetics study of the formation of azo dye derived from a drug (17-(cyclopropylmethyl)-4,5 α -epoxy-3,14-dihydroxymorphinan-6-one)	Assist.Lec. Ahmed Hussein Ali	Bani Waleed University Journal of Humanities and Applied Sciences	International	2025/10/5
2	Spectrophotometric Approach for the Determination of Dobutamine Hydrochloride Using Diazotization-Coupling Reaction	Asstt. Prof. Dr. Omar Abdul-Hay Mohammed	Bani Waleed University Journal of Humanities and Applied Sciences	International	2025/10/5
3	Synthesis of Novel Heterocyclic Derivatives from α -Lipoic Acid as Antibacterial Substances	Assit.Prof.Dr. Intsar Mahmood Kahtan	Bani Waleed University Journal of Humanities and Applied Sciences	International	2025/10/5
4	Qualitative analysis, antioxidant properties of azolla and duckweed against chemo-stress in carp fish exposed to CuSO ₄	Asstt.Prof. Dr.Rana Talib	Iraqi Journal of Veterinary Sciences	Scopus	2025/10/1
5	INDIRECT SPECTROPHOTOMETRIC DETERMINATION OF THE ATENOLOL BY USING TOLUIDINE BLUE DYE	Assit.Prof.Dr. Zeena Zuhir Salih	CHEMICAL PROBLEMS	scopus	22/11/2025



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6	THE METHIONINE SULFONE OXIDATION BY PERMANGANATE ION (AUTOCATALYSIS): KINETIC STUDY	Dr. Ibrahim Younis Mohammed	CHEMICAL PROBLEMS	Scopus	22/11/2025
7	Modification of the Thermal and Mechanical Properties of Asphaltic Materials Using Biopolymers Derived from Nanochitosan	Prof.Dr. Ammar A.Hamdoon	Iranian journal of chemistry and chemical engineering	Scopus	2025/12/1
8	Chemical analysis of the effect of dual-polymer additives on the thermal and mechanical performance of Iraqi asphalt mixtures	Dr. Aws Nazar , Prof.Dr. Ammar A. Hamdoon	International Journal of Applied Sciences and Technology	International	2025/12/1
9	Effect of opuntia ficus-indica fruit nano and alcoholic extracts in induced-atherosclerotic rats	Prof.Dr. Nashwan I. Abo	Biol. Stud.	Scopus	2025/12/15
10	Indirect Spectrophotometric Estimation of Phenylephrine Hydrochloride and Isoniazid Using Ponceau 4R Dye	Maysam H. Al-Fakhrya, Theia'a N. Al-Sabhaa, and Emad A. S. Al-Hyalia	Journal of Analytical Chemistry	Scopus	2026/2/26



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11	Synthesis, characterization, and biological evaluation of new metal(ii) complexes with mixed ligand of azo dye derived from sulfmethoxazole and nitrogen bases	Mohammad M.H. A-Niemi and Jassim M. Alyass	Bull. Chem. Soc. Ethiopia	Scopus	2026/2/1
12	Thermodynamic and Kinetic Studies of Photochemically Produced Co3O4 NPs for the Adsorption of Pentachlorophenol Pesticide From Irrigation Water	Younis Turki Mahmood	Journal of Nanotechnology	Scopus	2026/2/4
13	Study of the Rheological Properties of Asphalt Modified with Polymer Additives	Qaidar Salim Jarjees	J Nanostruct	Scopus	2026/2/8
14	Chemical analysis of the effect of dual-polymer additives on The thermal and mechanical performance of iraqi asphalt Mixtures	Aws Nazar Abdlaziz, Ammar Ahmed Hamdoon	International Journal of Applied Sciences and Technology	International	2026/1/8
15	SYNTHESIS, DIAGNOSIS, BIOLOGICAL ACTIVITY FOR SOME SUBSTITUTED TETRAZOLE DERIVED FROM METHYL 2-(p-TOLYL) BENZOATE	Aws Nazar Abdlaziz	Chemical Problems	Scopus	2026/3/2



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16	Apoptosis induction by Cassia angustifolia leaf extract in breast cancer cell line and intracellular expression of inflammatory cytokine	Hamza N Hameed Nashwan Ibrahim Al-Lehebe	PLANT SCIENCE TODAY	Scopus	2026/2/5
17	The effect of adding petroleum resins C9 and C5 on the	Prof.Dr. Ammar A. Hamdoon, Prof. Dr. Khalid A. Awaid	NTU Journal of Pure Sciences	Scopus	4/4/2026
18	Application of Partition Theory to Calculate the Chemical Displacement of the Nuclei of the Carbon 13 Atom of Cyclohexane Derivatives	Dr. Emad Abdulilah	AIP/The International Conference of Nanotechnology	copus	10/4/2026
19	Current Insights into the biochemical and antimicrobial properties of Prosopis farcta plant extract in rats with induced diarrhea	Prof.Dr. Luma A. Baker	Iraqi Journal of Science,	Scopus	15/4/2026
20	Modelling and optimization of line-shape experimental data of emission and absorption spectra of the quantum dot laser	Dr. Ahmed G. Al- Azawy	Journal of Optics	Scopus+ Claravate	3/4/2026
21	Spectrophotometric determination of doxorubicin hydrochloride Using charge transfer complexes reaction	Assist.Prof.Dr. Omar A. Mohammed	Chemical Problems	Scopus	2026/6/13



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22	Green Synthesis of Novel Chalcone-Derived Pyrimidine-2-thiol Derivatives Using a Reusable Magnetic Nanocatalyst ($\text{Fe}_3\text{O}_4@\text{ZrO}_2/\text{SO}_4$): Structural Characterization, Antibacterial Evaluation, Molecular Docking Studies, and ADMET Properties	Mohannad Y.Saleh	Journal of Synthetic Chemistry	International	2026/7/2
23	Salt stress-driven bioorganic biorefinery of Monoraphidium contortum algae: Lipid transformation and starch valorization for integrated biodiesel and bioplastic production	Mohannad Y.Saleh	International Journal of Aquatic Biology	Scopus	2026/7/3
24	$\text{Fe}_3\text{O}_4@\text{SiO}_2@\text{S}_2\text{thio}@\text{Ni}$ as a novel and cost-effective magnetic nanocatalyst for Sonogashira and Heck cross-coupling reactions	Mohannad Y.Saleh	International Journal of Aquatic Biology	Scopus	
25	SYNTHESIS, CHARACTERIZATION AND BIOLOGICAL EVALUATION OF Co(II) AND Ni(II) COMPLEXES OF SCHIFF BASES DERIVED FROM SUBSTITUTED 2-AMINOTHIAZOLE: AN EXPERIMENTAL AND MOLECULAR DOCKING STUDY	Prof.Dr. Yasir Shakeeb Mohammed, Prof.Dr. Amal Younis Redha	Bull. Chem. Soc. Ethiop	Scopus	2026/7/03



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26	Thermodynamic Study of the Adsorption of Amaranth Dye on the Surface of a New Activated Nano carbon Prepared From Petroleum Sources	Prof. Dr. Ammar A. Hamdoon	Nanosystems, Nanomaterials, Nanotechnologies	Scopus	2026/8/13
27	Effect of polyphosphoric acid and sulfur waste from Mishraq mine on asphalt properties	Prof. Dr. Ammar A. Hamdoon	New Materials, Compounds and Applications	Scopus	2026/8/5