Professor Doctor

Prof. Dr. Nadhir Najim Abdullah Jafar

Faculty member

Radiology Technology Department - Health and Medical Technologies

nather.najim@alzahraa.edu.iq

Academic Degree

Academic Degree: PhD

Granting University: Babylon University

General Specialization: Chemistry

Exact Specialization: Organic Chemistry (Chemistry of organic Heterocyclic Compoundss)

Faculty Academic Experience

Department	College	Level	Subject
Chemistry	College of Science – University of Babylon	All stages of Colleges of Science	Organic Chemistry
Chemistry	College of Science – University of Babylon	Postgraduate students (Master's & PhD)	Advanced Organic Chemistry and Applied Organic Analysis
Pharmaceutical Chemistry	University Al-Mustaqbal University , Al-Zahraa for Women, Al-Bayan University	First and Second Year – Colleges of Pharmacy	Organic Chemistry

---

Scientific Research, Books & Publications

تفاصيل البحوث جميعها منشورة في مستوعبات Scopus

1. Innovative pathways in Zn-based metal-organic frameworks: Synthesis, characterization, and photocatalytic efficiency for organic dye degradation
2. Design and development of green electrode using graphene oxide modified with L-hypip coated with iron NPs for enantioselective electro-organic cyanation in the presence of NaCl electrolyte
3. Generation of Surface Plasmon Polaritons (SPPs) at Chiroplasma-Metal Interface
4. Universal data-driven models to estimate the solubility of anti-cancer drugs in supercritical carbon dioxide: Correlation development and machine learning modeling
5. Metabolic Targets in CRC: The Emerging Role of Cytochrome P450 Inhibitors
6. Novel Eco-Friendly Electrode: Copper Nanoparticle-Doped MWCNTs for Green Electro-Organic Synthesis of 1,2,3-Triazoles With ChCl/Urea as a Solvent and Cocatalyst
7. Gadolinium (Gd)-based nanostructures as dual-armoured materials for microbial therapy and cancer theranostics
8. Mathematical modeling of ions adsorption from water/wastewater sources via porous materials: A machine learning-based approach
9. Simulation study of a practical approach to enhance cadmium removal via biological treatment by controlling the concentration of MLSS
10. Synthesis of innovative Daphne mucronata extract/Cu-MOF/PVA-PVP nanofiber as high-performance anticancer and antimicrobial agent
11. A theoretical investigation for improving the performance of non-fullerene organic solar cells through side-chain engineering of BTR non-fused-ring electron acceptors
12. Recent progress in ZnO-based heterostructured photocatalysts: A review
13. Microwave-assisted synthesis, characterization, and in vitro biological evaluation of a novel nanocomposite using molybdenum and [2,2'-bipyridine]-4,4'-dicarboxylic acid
14. Highly efficient electrocatalytic oxidation of levodopa as a Parkinson therapeutic drug based on modified screen-printed electrode
15. Synthesis and characterization of Cu-modified ox-g-C3N4 nanosheets as an electrode for green synthesis of phenyl Benzofuran derivatives via C–H functionalization to C–O and C–C bond formation with an electrochemical oxidation system
16. Utilizing a copper foam electrode as the catalyst in Sonogashira C-H activation coupling reactions for the electro-oxidation synthesis of diphenylethyne derivatives
17. Elucidating the Mechanism of Tetrahydrofuran-Diol Formation through Os(VI)-Catalyzed Oxidative Cyclization of 5,6-Dihydroxyalkenes Ligated by Citric Acid
18. Pyrimidine Derivatives as Promising Candidates for Potent Antiangiogenic: A silico Study
20. Suzuki reaction for the synthesis of new derivatives of 4-Chloro-3,5-dimethyl phenol and there in vitro antibacterial screening
21. Synthesis and spectral studies of novel Palladium (0) complex with ciprofloxacin antibiotic
22. The antifungal effect of some 4-chloro-6-methoxy-N, N-dimethylpyrimidin-2-amine derivatives containing a heterocyclic compound on the important types of fungi
23. Study the effect verifies of the number of moles of acrylic acid monomer on swelling of the new prepared modified co-polymer
24. Microwave assisted synthesis of amide derivatives of the drug ciprofloxacin and screening the biological properties
25. Synthesis of new analogues of drug 'Monastrol' via Biginelli reaction
26. Exploration of the in vitro antiviral activity of a series of new pyrimidine analogues on the replication of HIV and HCV
27. Synthesis and biological activity of new derivatives of 6-chloro-5-((4-chlorophenyl)diazenyl)pyrimidine-2,4-diamine and 4-chloro-6-methoxy-N,N-dimethylpyrimidin-2-amine
28. Synthesis and anti-HIV activity of new benzimidazole, benzothiazole and carbohyrazide derivatives of the anti-
inflammatory drug indomethacin
A sensitive guanine-based DNA-biosensor to monitor Cabozantinib anticancer in biological samples.**29.**