



WASIT University
College of Science

Mahdi Ahmed Mohammed

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Scientific Profile Links

Google Scholar:

https://scholar.google.com/citations?hl=en&view_op=list_works&gmla=AP6z3OaFYgueX65Dik8KjyKJqp4fAmY94EE7daXPAH3MXVqEqL-

[XPO_ppsOc_y3tRtiX3YYppTb1cuxtZx6Vf_Ej0L_D4NGYIOFGQHbznH8&user=98p6nfcAAAAJ](https://scholar.google.com/citations?hl=en&view_op=list_works&gmla=AP6z3OaFYgueX65Dik8KjyKJqp4fAmY94EE7daXPAH3MXVqEqL-XPO_ppsOc_y3tRtiX3YYppTb1cuxtZx6Vf_Ej0L_D4NGYIOFGQHbznH8&user=98p6nfcAAAAJ)

Scopus: <https://www.scopus.com/authid/detail.uri?authorId=57211891274>

Web of Science: <https://www.webofscience.com/wos/author/record/AAH-6821-2020>

Research Gate: <https://www.researchgate.net/profile/Mahdi-Mohammed-3>

Publons: <https://publons.com/dashboard/summary/>

Orcid: <https://orcid.org/my-orcid?orcid=0000-0003-4752-3290>

Academic Qualifications

- | | |
|--------------------------|---|
| 01/2014 – 07/2018 | PhD
Department of Materials
University of Manchester, Manchester, UK
Doctoral Thesis: "The use of Raman spectroscopy to study carbon nanotubes" |
| 09/2005 – 02/2008 | Master of Physics
Department of Physics
Al-Nahrain University, Baghdad, Iraq
Master's Thesis: "Computer-aided design electrostatic deflection using charge density method" |
| 09/2002- 07/2005 | Bachelor of Physics
Department of Physics
Al-Nahrain University, Baghdad, Iraq |

Scholarships and Awards

03/2013 Ph.D. scholarship, Iraqi Ministry of Higher Education and Scientific Research

Professional Profile

- Classroom management
- Classroom lecturing
- Research and analysis
- Innovative
- Academic research

Academic Employment – Teaching and Research

06/2008 – present **Lecturer**
Department of Physics, Wasit University

Responsibilities

- Taught 20 hours per week in a classroom setting while developing flexible and creative methods of teaching
- Attended training seminars and meetings to develop new skills and stay current in a specialized field

Achievements

- Record the lectures to help students who cannot attend the classroom
- Support student ideas and supervise their projects

10/2020 – present **Professor Assistant**
Department of Physics, Wasit University

Responsibilities

- Supervised undergraduate and postgraduate students throughout the completion of research projects
- Wrote research papers, reports, reviews, and summaries regarding studying nanomaterials, nanocomposites, and their application in biotechnology, electrical, and mechanical properties

Extra Curricular Activities

06/2008 –present **Volunteer**

- Provide financial support for charities.
- Participate with other people in transplanting trees in streets and parks

Interests

Reading, research, traveling, and some handicrafts

- 1- Two-step electrochemical intercalation and oxidation of graphite for the mass production of graphene oxide
- 2- IMPACT OF THE HYDROGENATED ON CHARACTERIZATIONS OF ZnSe WURTZIODS BASE ON DFT
- 3- Synthesis of silver nanoparticles by UV-irradiation technique for antibacterial application
- 4- Inhibition Effect of Silver-Calcium Nanocomposite on Alanine Transaminase (ALT) Enzyme Activity in Human Serum of Iraqi Patients with Chronic Liver Disease
- 5- The removal of zinc ions from their aqueous solutions by Cr₂O₃ nanoparticles synthesized via the UV-irradiation method
- 6- Adsorption of Selenium (Se⁺⁴) ions pollution by pure rutile Titanium dioxide nanosheets electrochemically synthesized
- 7- A Universal Electrolyte Formulation for the Electrodeposition of Pristine Carbon and Polypyrrole Composites for Supercapacitors
- 8- EFFECT OF THE CHLOROFORM AS A CHEMICAL TREATMENT ON GAS SENSING FOR CuPcTs/Alq₃ THIN FILMS
- 9- RAMAN SPECTRA AND ELECTRONIC FEATURES FOR NANOTUBES OF ZnSe WURTZIOD: AB-INITIO
- 10- Localized surface plasmon resonance based photonic crystal fiber for cadmium detection
- 11- Heavy Metal Detection based on Coreless Fibers Using the LSPR Technique
- 12- Preparation of Fe₃O₄-Au@ Fe₃O₄-Ag Composite Nanoparticles and Cytotoxicity Study of kidney parameters in mice
- 13- Preparation of ZincOxide Nanoparticles by UV-IrradiationMethod in Two Different Media
- 14- Fe₃O₄/Au SUPERPARAMAGNETIC NANOPARTICLES COMBINED WITH NIR LASER AND ALTERNATING MAGNETIC FIELD FOR TREATMENT OF LIVER CANCER CELLS
- 15- A novel method in Effects of Fe₃O₄-Ag nanoparticles on liver cancer cells by the used alternating magnetic field and NIR laser ablation
- 16- Study of dielectric properties of nanocrystalline material BaTiO₃-SiO₂
- 17- Influence of annealing temperature on structure and optical properties of CdSe films using radio frequency sputtering
- 18- Superparamagnetic Fe₃O₄ nanoparticles capped with silver induce apoptosis of colon cancer cells via damaging DNA@ increasing ROS
- 19- Gold-capped Fe₃O₄ nanoparticles with a magnetic field by damaging their DNA and generating more oxygen radicals, colon cancer cells can be made to die
- 20- Magnetically enhanced ZnFe₂O₄ nanocomposite: a promising antibacterial, and antioxidant strategies
- 21- Fabrication of Dye-Sensitized Solar Cell Using CuO Nanoparticles as a Photo anode
- 22- Experimental investigation of the dielectric properties of nanocomposite materials containing graphene oxide and barium titanate in a polyester matrix

Referees