Name: Mustafa Abdul Majeed Hameed

Date of birth: 1/2/1978

Marital status: Married

Number of children: 3 children

Religion: Muslim

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Academic degree: Professor Doctor.

Work Address: Department of Biology, College of Education for Pure Science, University of Diyala, Iraq

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Master's degree in applied Sciences / University of Technology-Iraq2005

Master Thesis title: Determination the Level of Some Antioxidants in Patients with Bladder Cancer

PhD Degree of Doctor of Inorganic chemistry/Nanotechnology/ Saint Petersburg State University/Russia 2015

PhD Dissertation title: Method of Modification of Cement Concretes by Nanosolution

Administrative positions

1. **Chemistry Department rapporteur**
2. **Head of Chemistry Department**
3. **Assistant Dean for Administrative Affairs**
4. **Director of the Scientific Advisory Office**

Scopus Author ID:

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Google Scholar Profiles

https://scholar.google.com/citations?user=eWfh9V0AAAAJ&hl=ar

ResearchGate

https://www.researchgate.net/profile/Mustafa-Hammadi

A-Scientific activities

1.Member of the Iraqi Center for Innovation and Creativity / General Secretariat of the Council of Ministers

B- Published research

1. Development of a method for the determination of ephedrine hydrochloride Using the Uv-vis molecular absorption method.
2. Determination the level of some antioxidants in sera of patients with bladder cancer.
3. Study of the effect of some Schiff bases on the activity of alkaline phosphatase enzyme in male bone cancer patients.
4. Measurement of some antioxidants in patients with rheumatoid arthritis.
5. The improvement of quality of non- autoclaved heat-insulating foamed concrete of medium density D200, used in construction, based on silica sol stabilized foam.
6. The improvement of quality of foamed concrete by working a surface of ready products with sol solutions.
7. On using multilayer nanocoating of various origins.
8. The enhancement of energy-saving properties of construction materials by using admixtures with nanostructural elements.
9. Thermodynamic and instrumental analysis of processes in cement products during capillary inflow of nano-SiO2.

10. The improvement of constructional and geo-eco-protective properties of mineral raw materials and products in transport construction.
11. Control over quality and heat-resistant properties of foamed concrete products for geo-eco-protection purposes in transport construction.
12. The use of the method nano- solution capillary inflow for development of geo-eco-protective constructional technologies in construction transport.
13. Some geo-ecological aspects of construction activities on technical and chemical basis.
14. The properties of cement products absorbing nano-SiO2 by means of capillary inflow.
15. The contemporary economic situation in Iraq.
16. Special aspects of technology of obtaining and the properties of hardening cement products absorbing nano-SiO2 solution.
17. The method of nano-SiO2 absorption by hardening cement products as means of enhancement the usage safety of construction products.
18. The technology of strength enhancement of concrete building structures through the use of nano-solutions.
19. Innovative solution to improve the mechanical and physical properties of cement products.
20. Thermodynamical parameters of solid hydrated phases and quality of building composite material.
21. Obtaining foam concrete by means of the nanosolution absorption hardening.
22. Potential Role of Sulfur Nanoparticles as Antitumor and Antioxidant in Mice.
23. Synthesis of Nano Sulfur Particles and their Antitumor Activity.
24. The effect of adding zinc oxide sol-gel Nano on the chemical characteristics of growing Capsicum frutescens plant in hydroponic system.

25. Study the effect of addition nano zinc oxide on the vegetative, flowering and fruiting characteristics of growing capsicum frutescens plant in closed hydroponics system.
26. Anti-cancer activity of ZnO nanoparticles on hep-g2 and hct-116 cells.
27. The Effect of Some Nanoparticles Fertilizers on the Chemical Characteristics of Growing Ruta graveolens L. Plant in in vivo.
28. Anticancer Activity and Cytotoxicity of ZnS Nanoparticles on MCF-7 Human Breast Cancer Cells.
29. synthesis, characterization and study the antibacterial activity of Fe_3O_4 nanoparticles on E. coli and cytotoxicity on huvecs.
30. Synthesis of CuS Nanoparticle and Characterization, as well as Investigation of their Anticancer Activity Against a Human Breast Cancer Cell Line.
31. Effect of ZnO Nanoparticles on the Content of Sulforaphane in Broccoli Plant.
32. $ZnCO_3$ nanoparticles synthesis, characterization, and cytotoxicity on the SK-OV-3 human ovarian cancer cells.
33. Effect of Spraying with different Concentrations of Methyl Jasmonate on the Sulforaphane Content of Broccoli Plant.
34. Synthesis, characterization, and cytotoxicity of Zinc phosphate nanoparticles on the HL-60 human leukemia cell line.
35. Synergistic Activities of Tetracycline with CuO Nanoparticles Study of its Activity on Antibiotic-Resistant Bacteria.
36. Effect of Nano Fertilizers on Vegetative Growth Characteristics of Rafe gravedlensL.

C- Patented

1. Developing a simple method to infer cases of crystal and tramadol abuse.
2. The use of sulfur nanoparticles in cancer treatment.

D- Supervising diploma, master's and doctoral theses

1. Antitumor activity for nanosulphur compounds.
2. The effect of using an inert medium (perlite) and adding nano-zinc oxide on the growth of hot pepper plants Capsicum frutescens L.
3. Preparing and characterizing some nano-metal oxides and studying their biological activity.
4. Preparation of new complexes of 1,4,3-thiadiazole derivatives and study of the photostability of polyvinyl chloride.
5. The effect of zinc oxide and copper oxide nanoparticles on the growth of Ruta graveolens L. and its coumarin content inside and outside the body.
6. Preparation and identification of some nano sulphide minerals and study of their anti-breast cancer activity.
7. Preparing and characterizing some zinc nanocomposites and studying their anti-cancer activity.
8. Preparing and characterizing some spinel nanocomposites and studying their biological effectiveness.
9. The effect of adding some nanoparticles of zinc oxide and sulfide and spraying with methyl jasmonate on the growth and yield of broccoli plants, Brassica oleracea L., and its content of sulforaphane.
10. Green synthesis of metal oxide nanoparticles and their biological applications.

11. Developing some antibiotics using nanotechnology and testing their inhibition effectiveness on different types of pathogenic bacteria.
12. Preparation and characterization of nanoparticles of some nanometal carbonates and study of their anti-cancer effectiveness.
13. Preparation and characterization of metal phosphate nanoparticles and study of their effectiveness as anti-cancer.
14. Developing first-generation antibiotics using nanotechnology and studying their effectiveness on some types of resistant bacteria.
15. Preparing and characterizing nanoxides and studying their cytotoxicity