السيرة الذاتية

بيانات عامة

الاسم	ضياء هادي حسين احمد الغفاري
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البيانات الاكاديمية

موقع العمل	قسم الكيمياء / كلية العلوم / الجامعة المستنصرية	
الدرجة العلمية	استاذ	
التخصص الاكاديمي	العام: الكيمياء	الدقيق: الكيمياء الفيزيائية
سنوات الخبرة	الأكاديمية: (منذ 2006)	الوظيفية: (منذ 1979)

الشهادات الرئيسية

الدرجة العلمية	التخصص	سنة الحصول عليها	الجامعة المانحة للشهادة
دكنوراه	كيمياء فيزيائية	2005	بغداد
ماجستير	كيمياء فيزيائية	1984	بغداد

PhD. Thesis title: ***Synthesis of nematic liquid crystal mixtures and study of their electro-optical properties.***

MSc. Thesis Title: ***Theoretical study of the heats of formation and molecular geometries of sulphur fluorides using MINDO/3-FORCES program.***

المناصب الادارية والعلمية

المنصب	الفترة
استاذ في قسم الكيمياء / كلية العلوم/ الجامعة المستنصرية	2021 – لحد الان
رئيس قسم الكيمياء / كلية العلوم / الجامعة المستنصرية	2019 - 2013
أمين مجلس كلية العلوم / الجامعة المستنصرية	2013 - 2011
استاذ مساعد / قسم الكيمياء / كلية العلوم / المستنصرية	2021 – 2011
مدرس / قسم الكيمياء / كلية العلوم / المستنصرية	2011 - 2006
رئيس مجموعة بحثية / وزارة العلوم والتكنولوجيا	2006 - 2005
استشاري / جمعية الكيميائيين العراقيين	2003 - 1998
رئيس قسم الليزرات الكيميائية / هيئة التصنيع العسكري	1999 - 1993
رئيس قسم تطبيقات الليزر / منظمة الطاقة الذرية	1993- 1990
رئيس مجموعة بحثية / منظمة الطاقة الذرية	1990 - 1987
محاضر / قسم الكيمياء كلية العلوم / جامعة بغداد	1989 - 1987
باحث علمي / منظمة الطاقة الذرية	1987 - 1985
معاون كيميائي / منظمة الطاقة الذرية	2001 - 1979

النشاطات العلمية

النشاط	العدد
اشراف على طلبة الدكتوراه	7
اشراف على طلبة الماجستير	8
مناقشة اطاريح دكتوراه	30
مناقشة رسائل ماجستير	45
تقويم اطاريح دكتوراه	22
تقويم رسائل ماجستير	28

البحوث المنشورة في الدوار السنوي لمنظمة الطاقة الذرية

1- **Dissociation of UF_6 using NH_3 laser.**
2- **Spectroscopic study of $U(OCH_3)_6$.**
3- **Study of molecular enrichment using 12μ laser.**
4- **Dissociation of $U(OCH_3)_6$ using CO_2 laser.**
5- **Study of UF_6 molecule.**
6- **Enrichment of Uranium using CO_2 laser.**
7- **Preparation of volatile Uranium compounds.**
8- **Spectroscopic study of Ammonia and some Alcohols.**
9- **Dissociation of some volatile Uranium compounds.**
10- **Dissociation of NH_3 and some Alcohols using CO_2 laser.**
11- **Activation of chemical reactions using CO_2 laser.**
12- **Uranium enrichment using U(HFAcAc)THF and CO_2 laser.**
13- **Decreasing of Sulphur compounds in petroleum products.**
14- **Activation of the reactions of NH_3 and Alkenes.**
15- **Dissociation of Alkenes using CO_2 laser.**

البحوث المنشورة بعد (2006) 24 بحوث منشورة في مجلات عالمية ومحلية.

Circumstance Vitae

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Career Summary

1. University Of Mustansiriyah

- Professor in Department of Chemistry, 2021 – till now
- The Head of the Department of Chemistry, 2013- 2019
- The Secretary of the Faculty of Science Council, 2010- 2013
- Assistant Professor in Department of Chemistry, 2011- 2021
- Lecturer in Department of Chemistry, 2006- 2011

2. Ministry of Science and Technology

- The Head of Lasers Research Group 2005- 2006

3. Military Industries Authority

- The Head of Department of Chemical Lasers 1993- 1999

4. Iraqi Atomic Energy Commission

- The Head of Department of Laser Applications 1990- 1993
- The Head of Laser Research Group 1987-1993
- Researcher in laser field 1985- 1987
- Chemist in Mass Spectrometer Laboratory 1979-1981

5. Other

- Consultative in Iraqi Chemical Society 1998- till now
- Lecturer at Univ. of Baghdad/ College of Science Dep. of Chem. 1987- 1989.

Education and Qualifications

- PhD. In Physical Chemistry 2005 / University of Baghdad / College of Science / Title of PhD. Dissertation "***Synthesis Of Nematic Liquid Crystal Mixtures And Study Of Their Electro-Optical Properties***"
- MSc. In Physical Chemistry 1984 / University of Baghdad / College of Science / Title of MSc. Thesis "***Theoretical Study Of The Heats Of Formation And Molecular Geometries Of Sulfur Fluorides Using MINDO/3-FORCES Program***"

- BSc. In Industrial Chemistry 1979 University of Baghdad / College of Science

Published Research Articles

1) Atheer Ali, Rehab Al-Hassani, Dhia H. Hussain, Majid Jabir, Hamid Meteab, "Anti-Proliferative Activity and Tubulin Targeting of Novel Micro and Nanoparticles Complexes of 4-Amino-3-Thion-1,2,4-Triazole Derivatives", (2020) Nano Biomed. Eng. 12(1) pp. 75-89.
1) Rasha Bashar Rashid, Dhia Hadi Hussain and Rasha Shakir Mahmood, "Water Treatment Ability Of Cuo-Zno Nanocomposites Synthesized By Laser Ablation And Anodization Techniques", (2020) Journal Of Southwest Jiaotong University, 55(1) pp.(under publishing process).
2) Atheer A. Ali, Rehab M. Al-Hassani, Dhia H. Hussain , Ahmed Mahdi Rheima, Hamid S. Meteab," Synthesis, Spectroscopic, Characterization, Pharmacological Evaluation, And Cytotoxicity Assays Of Novel Nano And Micro Scale Of Copper (II) Complexes Against Human Breast Cancer Cells", (2020) Drug Invention Today, 14(1) pp. 31-39.
3) Dhia H. Hussain, Ahmed M. Rheima, Shaimaa H. Jaber, Mustafa M. kadhim, "Cadmium Ions Pollution Treatments in Aqueous Solution Using Electrochemically Synthesized Gamma Aluminum Oxide Nanoparticles with DFT study", (2020) Egypt. J. Chem., 63(2). pp.417-424.
4) Nada N. Ahmed, Dhia H. Hussain, Sura A. Abdulsattar, "Myeloperoxidase and gamma-glutamyl transferase as oxidative stress marker Sera of myocardial infarction patient", (2019) Biochemical and Cellular Archives, 19(1) pp. 2655-2659.
5) Ahmed Mahdi Rheima, Dhia Hadi Hussain, Muntadher M. Alwan Almijbilee. "Graphene-Silver Nanocomposite: Synthesis, And Adsorption Study Of Cibacron Blue Dye From Their Aqueous Solution", (2019) Journal Of Southwest Jiaotong University, 54(6) pp.
6) Atheer A. Ali, Rehab M. Al-Hassani, Dhia H. Hussain, Ahmed Mahdi Rheima, Ahmed N. Abd, Hamid S. Meteab." Fabrication Of Solar Cells Using Novel Micro- And Nanocomplexes Of Triazole Schiff Base Derivatives", (2019) Journal Of Southwest Jiaotong University, 54(6) pp.
7) Shaimaa H. Jabber, Dhia H. Hussain, Ahmed M. Rheima, Mohamad Faraj, "Comparing Study of CuO Synthesized by Biological and Electrochemical Methods for Biological Activity", (2019) Al-Mustansiriyah Journal of Science, 30(1) pp. 94-98.
8) Dhia H Hussain, Zahraa A Khadam, Mohammed F Marjani, Maha M Khadim, Dunya J Ridha, Laith B Ali, Batool K Al-Mousawi, "Effect of ZnO nanoparticles, fullerene (C60) and pyocyanin on imipenem resistant gram negative bacteria isolated from hospital environment", (2018) Indian Journal of Public Health Research & Development, 9(12) pp. 779-783.
9) Dhia H Hussain, Noora B Rashid, Sura A AbdulSattar, "Thermodynamic and Kinetic Studies of Tiopronin Gold Nanoparticles Binding With Extracted DNA of Rheumatoid Arthritis", (2018) Al-Mustansiriyah Journal of Science, 29(1) pp. 97-106.
10) Anwar H Ali Al-Fouadi, Dhia H Hussain, Hasien Ali Rahim, "Surface topography study of CdS thin film nanostructure synthesized by CBD", (2017) Optik, vol.131 pp. 932-940.

11) Ali A. Jabbar, Dhia H. Hussain, Mohammed D. Majeed, Yasir A. Hamad, "Fabrication of thin uranium source for alpha spectrometry using one shape of Pt-anode", (2017) Journal of Chemical and Pharmaceutical Sciences, 10(4) pp. 150-153.
12) Dhia H Hussain, Hussain I Abdulah, Ahmed M Rheima, "Synthesis and Characterization of ɣ-Fe2O3 Nanoparticles Photo Anode by Novel Method for Dye Sensitized Solar Cell", (2016) International Journal of Scientific and Research Publications, 6(10) pp. 26-31.
13) Sura Ahmed Abdul sattar, Dhia Hadi Hussain, Hasan Hadi Algam, "Biochemical Characterization of Protease and Its Impact By Nano Particles in Sera of Iraqi Patients with Burns", (2015) Medical Journal of Babylon 12(4) pp. 870-881.
14) Mahmood M. Kareem, Anwar H. Ali Al-Fouadi, Dhia H. Hussain, "Preparation and study of Cu2O thin film at low temperature by Chemical vapor deposition (CVD) route", (2015) International Journal of Application or Innovation in Engineering & Management, 4(12) pp. 63-66.
15) Mahmood M. Kareem, Anwar H. Ali Al-Fouadi, Dhia H. Hussain, "Growth of CuO Thin Films on Glass Substrate by Chemical Vapour Deposition (CVD) Process From Cu(AcAc)2 Precursor", (2015) Journal of Garmian University, vol.2 pp. 1011-1020.
16) Anwar H Al-Fouadi, Dhia H Hussain, Hasien Ali Rahim, "Study of Concentration Effect on Synthesis ZnO Nanostructures" (2015) 4(10) pp. 1861-1865.
17) Abdul-Jabbar I. Rasheed, Dhia H. Hussain, Huda A.Khalaf, "Synthesis And Statistical Study Of Multi Wall Carbon Nanotubes On Cu Substrate Using Electrochemical Cell", (2011) Iraqi Journal of Science, 52(4) pp.408-414.
18) Dhia H. Hussain, Abdul-jabbar I. Rasheed, Abdul Qader D. Faisal, "Synthesis Of Carbon Nanotubes By Electrochemical Deposition using Aluminum Substrate" (2010) AL- Mustansiriya J. Sci., 21(5) pp. 168-174.

In Addition To About ***Fifteen*** Researche Articles Published in Annual Report of Iraqi Atomic Energy Commission.

Patents

1) Ahmed M. Rheima, Dhia H. Hussain, Riyam L. Khalaf, Zainab S. Abas, Deyana K. Kareem, Mahdi B. najim, Furqan M. Muhsen, "Synthesis Of A New Quadruple Nanocomposite Of CoO/SrO/NiO/Fe_3O_4 Using New Method, And Applied As Anode Electrod In Solar Cells Fabrication", Central Organization For Standardization And Quality Control / Iraq, Patent Number (5890) 2/9/2019.
2) Ahmed M. Rheima, Hussein I. Abdullah, Dhia H. Hussain, "synthesis of different phases of iron oxide nanoparticles and applied in dye solar cell fabrication", Central Organization For Standardization And Quality Control / Iraq, Patent Number (5368) 14/5/2018.

Supervising Graduate Students

PhD. (Six Students).
MSc. (Five Students).