

CURRICULUM VITAE

A. PERSONAL INFORMATION

1. Name:

Surname: **Mohammed**

Forenames: **Raghad Yousif**

2. Nationality: **Iraqi**

3. Native Language: **Arabic**

4. Foreign languages: **English, Kurdish**



5. Date of Birth: **10-2-1973**

6. Place of Birth: **Baghdad/Iraq**

7. Address: **Dept. of Physics**

College of Science

University of Duhok

Duhok, Kurdistan Region, Iraq

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B. QUALIFICATIONS

UNIVERSITY	COLLEGE	DATE OF ATTENDANCE	DEGREE AWARDED	DATE OF AWARD	MAIN SUBJECT
Technology	Applied Physics	1991	B.Sc.	1995	Applied Physics
Technology	Applied Physics	1995	M.Sc.	1997	Laser Physics
Duhok	Science	2006	Ph.D	2010	Solid State Physics

C. CURRENT POSITION : Lecture in physics (1999 - So Far)

D. TEACHING EXPERIENCE

SUBJECT	DEPARTMENT	COLLEGE	PERIOD
Electrical circuit Analysis	Physics	Science	1999-
Electronics	Physics	Science	1999-2005
Semiconductor	Physics	Science	2001-2005
Laser Physics	Physics	Science	2008-2009
Molecular Spectroscopy	Physics	Science	2010-2011
Thin Film Technology	Physics/MSc	Science	2014-2015
DC Circuits	Physics	Science	2019-so far
AC Circuits	Physics	Science	2019-so far
Electric Circuits	Basic Education	Science	2019-so far
Semiconductor Optoelectronics	Physics/PhD	Science	2018-2019
Thin Film Technology	Physics/PhD	Science	2018-2019
Semiconductor Physics	Physics	Science	2020-2021
Advanced Solid State Physics	Physics/MSc	Science	2020-2021
Thin Film Technology	Physics/MSc	Science	2020-2021

E. MEMBERSHIPS:

1. Iraqi Physics and Mathematics society.
2. Kurdistan syndicate of physics

F. PRESENT RESEARCH ACTIVITIES

- 1- Solid State Physics.
- 2- Laser physics.

G. RESEARCHES AND PUBLICATIONS

1. Measurment of soft X-ray emitted from laser produced plasma using a range of pumping laser,1997.
2. Opacity measurments and calculation for spectral lines produced by KrF laser plasma,1997.
3. Laser plasma target material characterization using Non-LTE ionized material package simulation, Third symposium on computational condensed matter physics,1997.
4. Sabah I. Wais,Raghad Yousif Mohammed"Reabsorption Effect Considerationof the Energy Transfer Dye laser",J. Dohuk University, 3 (2), 99-101 ,(2000).
5. Mass abalation rate,abalation velocity,and abalation pressure measurments,2001.
6. Measurment of energy transport of X-ray laser gain media,2002.
7. 5. Raghad Y. Mohammed, Sabah I. Wais, sedki O. Yoysif,"Measurements of Energy Transport of x-ray Laser Gain Media", J. Dohuk University, 5 (2), 115-117 ,(2002).
8. Sabah I. Wais, Raghad Y. Mohammed, Sedki O. Yousif," Influence of Axial Magnetic Field on the Electrical Breakdown and Secondary Electron Emission in Plane-Parallel Plasma Discharge", International Journal of Engineering and Applied Sciences 7:2 ,2011.
9. Effect of deposition temperature on the optical properties of CdS thin film obtained by CBD technique, Journal of Duhok University, Vol.15, No.2,2012.
10. Correlation between Optical and Structural Properties of Chemically deposited CdS Thin Films, Raghad Y. Mohammed, S. Abduol, Ali M. Mousa, International Letters of Chemistry, Physics and Astronomy, Vol. 30, pp 146-158,2014.
11. Structural and Optical properties of Chemically Deposited CdS Thin Films, Raghad Y. Mohammed, S. Abduol, Ali M. Mousa, International Letters of Chemistry, Physics and Astronomy, Vol. 29, pp 91-104,2014.
12. Investigation the effect of annealing temperature on the optical properties of CdSe thin films, REVISTA INNOVACIENCIA Journal Innovaciencia, 6(1),2018.
13. Comparative Study of Chemically Deposited CdS Thin Films and of the non-synthesized CdSO₄, under pressure and Temperature within First principles, Raghad Y. Mohammed, Bahaa M. Ilyas, Materials Today Communications 25, 10151814. Investigation of Structure, Optical, and Electrical Properties of CuS Thin Films by CBD technique, Khozik Ahmed Mohammed, Sabah M. Ahmed, Raghad Y. Mohammed, Crystals2020,10, 684.
14. Synthesis and characterization of lead oxide nanostructures for radiation attenuation application ,Sabah M. Ahmed, Raghad Y. Mohammed , Ahmed Fattah Abdulrahman , Furman Kasseem Ahmed , Samir Mustafa Hamad , Materials Science in Semiconductor Processing , Volume 130 , 2021.
15. Synthesis of lead oxide thin films by using physical vapor deposition technique Ahmed F. Abdulrahman, Raghad Y. Mohammed, Sabah M. Ahmed, Samir M. Hamad, Materials Today: Proceedings 42, Part 5, P.1773-3108 (2021).
16. Synthesis and Characterizations of ZnO Thin Films Grown by Physical Vapor Deposition Technique, R Mohammed, S Ahmed, A Abdulrahman, S Hamad, Journal of Applied Science and Technology Trends 1 (4), 135-139.
17. The Influence of CBD Parameters on the Energy Gap of ZnS Narcissus-Like Nanostructured Thin Films, Mohammed Hussein Khalil, Raghad Y. Mohammed, and Mohammed Aziz Ibrahim, Coatings 2021, 11, 1131.
18. Annealing Effect on the Structure and Optical Properties of CBD-ZnS Thin Films for Windscreen Coating, Raghad Y. Mohammed, Materials, 2021, 14, 6748.
19. The Effect of Deposition Parameters on Morphological and Optical Properties of Cu₂S Thin Films Grown by Chemical Bath Deposition Technique, Raghad Y. Mohammed, Photonics 2022, 9, 161.
20. EFFECTS OF DEPOSITION TIME AND PH ON THE CHARACTERIZATION OF CHEMICALLY SYNTHESIZED COMPOSITE NANO-WIRES OF CU₂S THIN FILMS, Raghad Y. Mohammed, sjuoz 2021, 9, 4, 184.
21. Influence of Post Annealing on CBD Deposited ZnS Thin Films, Mohammed Hussein Khalil1, Raghad Yousif Mohammed1, and Mohammed Aziz Ibrahim, 4th International Conference on Materials Engineering and Science (IConMEAS 2021) October 06-07, 2021, University of Duhok – Kurdistan Iraq.

H.Conference

1. Third symposium on computational condensed matter physics,1997.
2. International Conference on Advanced Science and Engineering (2018) (ICOASE2018)
3. The 5th Kurdistan International Conference on Science and Technology-ICST-2019.
4. 3rd International Conference on Materials Engineering & Science - (IConMEAS 2020).
5. 4th International Conference on Materials Engineering and Science (IConMEAS 2021) .
6. 2022,المؤامرنقاشي الاول للامراض المشتركة. كلية الطب البيطري,جامعةبغداد.
7. 1st Scientific Conference of College of Health Sciences, Hawler Medical University,2021.
8. 2nd international conference of computer science and software technology(2022 CSASE).

I.Workshops

1. 2nd National Nanotechnology Workshop (NW-2 2018), Ishik University,Erbil, KRG-Iraq, 2018.
2. Towards Developing Research Laboratories in physics Department, University of Duhok,Duhok, KRG, Iraq,2019.
3. Nanostructure Preparation Workshop, Zakho University,Zakho, KRG-Iraq,2019.
4. 2021,التمكين القيادي والاداري للمرأة العراقية بين الواقع والطموح,مركز شباب العراق للدراسات والتطوير.
5. 2021,تأثير المواد الكيماوية في مستحضرات التجميل,دائرة الرعاية العلمية.

- 6.2021. مقومات النجاح, فريق كن مبادرا التطوعي,
7. 2021. الاقتصاد الزرق : المضامين والتطبيقات , كلية شط العرب الجامعة,
8. Drug Delivery Systems, Institute of Nanoscience and Nanotechnology, University of Kashan, 2021.
9. 2021. التوعية لمرض فقر الدم المنجلي, قسم تقنيات المختبرات الطبية,
10. 2021. النشر العلمي في المستوعبات العالمية, جامعة ديالى,
11. 5th International Nanotechnology Workshop (NW – 5, 2022), Tishk International University, 2022.
12. 2021. تصميم المواقع الالكترونية, جامعة ديالى,
13. 2021. برنامج اكسل, جامعة ديالى,
14. The Outcome of the UoD PEER Project to Open the Door of Nanotechnology Field, University of Duhok, 2022.
15. University of Duhok Learning and Teaching Reforms in Light of Bologna Process For Scientific Specializations, University of Duhok, 2022.

J. Training courses

1. Implementing entrepreneurship competency in curriculum Training, University of Duhok, Duhok, KRG, Iraq, 2019.

K. Supervision

1. Structural And Optical Properties Of Zns Thin Films Prepared By Chemical Bath Deposition Technique, MSc Thesis, University of Duhok, Duhok, KRG, Iraq, 2016.
2. Investigation of physical properties of CuS thin films deposition by chemical and physical methods, MSc Thesis, University of Duhok, Duhok, KRG, Iraq, 2020.
3. II-IV Semiconductors Nanostructures for Optoelectronic Applications, Ph.D. Thesis, 2019, ongoing work.
4. Biosynthesis and Characterization of CuO nanoparticles using Plant Extract, MSc Thesis, University of Duhok, Duhok, KRG, Iraq, 2021, ongoing work.
5. Structural and optical properties of CdO thin films synthesized by chemical bath deposition technique, MSc Thesis, University of Duhok, Duhok, KRG, Iraq, 2021, ongoing work.