

C.V



Name: Dr.Salah Abdulla Hasoon

Date of Birth: 1/7/1955

Religion: Muslim

Martial statues: Married

No. of children: 6

Specialization: physics /dense media and material/ Conducting Polymers

Position: Teaching

Scientific Degree: Professor

Work Address:college of science for women

Work Phone:

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First, Scientific Certification:

Degree science	University	College	Date
B.Sc.	University of Baghdad	College of education	79-78
M.Sc.	Montpellier II	Science	1985
Ph.D.	Montpellier II	Science	1988
Any other			

■ **Second, Career:**

No.	Career	Workplace	From -To
1	Physics teacher for secondary school	Karkh directorate of education /Baghdad	1978/ 10 - 1982/ 8
2	Physics teacher for secondary school	Karkh directorate of education /Baghdad	1990/ 4 - 1990/ 11

■ **Third, University Teaching.**

No.	University	The (Institute / College)	From -To
1	Baghdad	College of Science / College of Science for Women/university of Baghdad	- Still 11 / 1990 now

■ **Fourth, Courses Which You Teach:**

No.	Department	Subject	Year
1	Physics	Solid State Physics for under graduate study	1990-1991
2	Physics	Solid State Physics for graduate study	1994-1995
3	Physics	Material Physics for graduate study (M.Sc courses)	1994-1995
4	Physics	Material Physics for graduate study (Ph.D courses)	2009-2010

5	Physics	Astronomy and Astrophysics for under graduate study	1998-1999
6	Physics	Physics of sound and wave motion for under graduate study	1996-1997
7	Physics	Mechanics For under graduated study	1990-1991
8	Physics	Computer science for under graduate study	1996-1997
9	Physics	Properties of nanomaterials and fabrication methods	2009-2010

■ **Fifth, Thesis which was supervised by :**

No.	Thesis Title	Department	Year
1	Study The Influence of Thickness and Difference Electrical and Photo- Temperature on The Electronic Properties for ZnSe Thin Film		(2002).
2	Fabrication of Near Infra-Red Detector		(2003)
3	Study of The Electrical Characteristics For The Current of CuBr Direct and Alternative Thin Films Prepared by Evaporation		(2001)
4	A Study of The Structure and Optical Properties of Prepared by Thermal the ZnSe Thin Films Evaporation		(2000)
5	A Study to Determine The Effect of Ultra-Violet Radiation on The Red Blood Cells Sedimentation Rat		(2007)
6			
7			

■ **Sixth, Conferences which you participated:**

No.	Conferences Title	Year	Place	Type of Participation
1	The first conference for Women(Women and Science in Iraq)	2010	College of Science for Women - Baghdad	Presence

2	Nanotechnology Symposium	2009	College of Science for Women - Baghdad	Committee member
3	Symposium In (The Pollution of environment)	2010	College of Science for Women -	Presence
4	Workshop in Plasma	2010	College of Science for Women	Presence
5	Symposium in (The environmental map of Iraq)	2010	College of Science for Women	Presence
6	The Scientific conference of (Remote sensing)	2005	K.S.A	Presence
7	The fourth technical conference	2006	K.S.A	Bulletin and posters

■ **Seventh, Scientific Activities:**

Within the College	Outside the College
Supervision of the student research (the fourth phase)	
The committee of graduate studies	
Scientific committee	

■ **Eighth, Research Projects in The Felid of Specialization to**

The Environment and Society or the Development of Education:

No.	Research Title	Place of Publication	Year
1	Etude du Polythiophene Par Spectrometrie Raman.	Molecular Crystals and Liquid Crystals	Vol.161,223,1988
2	Vibration Modes of Polythiophene and Polyselenophene	Synthetic Metals	Vol.28,C317,1989

3	.Photoluminescence in Polythiophene and Polyselenophene	Synthetic Metals	Vol,29,C293,1989.
4	Resonance Raman Spectroscopy and Photoluminescence of Electrochemically Prepared Polyselenophene Films	International Conference in Raman,London	Wiley,1988
5	Photoelectron Spectroscopy of Films of Polythiophene	J.Coll.Educ.For Women Uni.Baghdad,	Vol 10(1)1999.
6	The Optical Absorption Edge in Thin Amorphous Oxide Films of Gallium Oxide.	J.Coll.Educ For Women,Univ.Baghdad	Vol 10(1)1999.
7	The Optical Absorption Edge in Thin Films of Barium Oxide	J.Coll.Educ,Al-Mustnsiriyah,Univ	Vol 2,1999.
8	Study of the effect of radiation of gamma rays and neutrons on efficiency of a single crystal silicon solar cells	Journal of College of Education for Women. (in Arabic) .	Vol 11,No.3 (2000)
9	Ani,Development of a single crystal silicon solar cells	Journal of the College of Education ,Al-Mustansiriyah University.(in Arabic).	Vol.No./4 (1999)
10	Study the influence of Annealing upon electrical properties of the prepared films ZnSe by thermal evaporation in vacuum,	Journal of Om Salama for Science. (in Arabic)	Vol 1,No.2(2004)
11	Study the effect of annealing on Structural and Optical properties of ZnSe thin films prepared by thermal evaporation	Journal of College of Education for Women. (in Arabic)	Vol.12,No.3 (2001)
12	Design of CdTe Photoconductor detector and Study of some electrical properties of CdTe Crystal	Journal of Om Salama for Science. (in Arabic) .	Vol 2,No.2,(2005),
13	Preparation and Study some of electrical properties of conducting Polymer Polypyrrole	Journal of Om Salama for Science. (in Arabic)	Vol 2,No.4(2005)
14	Evaluation of the one electron expectation values for different wave function of Be atom	Journal of Om Salama for Science. (in Arabic)	Vol 4,No.3(2007)
15	Evaluation of the electron correlation for Lithium atom (Li) in ground State	Journal of Om Salama for Science (in Arabic).	Vol 6,No.1(2009).
16	, Electrochemical polymerization and study the modes of vibration of polypyrrole	Journal of materials science and Engineering,USA	Vol 4,No,10(2010).

	Polyaniline Films	Engineering and Technology	
18	Electrochemical polymerization and Raman study of polypyrrole and polyaniline thin films	International Journal of Physical Sciences	Vol. 7(38), pp. 5468-5476, 9 October, 2012
19	Optical and Electrical Properties of Thin Films of Polyaniline and Polypyrrole	<i>Int. J. Electrochem. Sci</i>	Vol 7 (2012), pp 10666 - 10678
20	Electrochemical Synthesis and Vibrational Mode Analysis of poly (3-methelthiophene)	<i>Int. J. Electrochem. Sci</i>	Vol 8 (2013), pp 11782 - 11790
21	Flash Evaporation of CdS Thin Film	International Review of Physics (IREPHY)	Vol 7 No 1 February 2013, pp59-64
22	Electrochemical polymerization and Optical Vibrations of Polyaniline Films	International Journal of Innovative Research in Science, Engineering and Technology	Vol. 3, Issue 2, February 2014, pp 9763- 9772
23	Fabrication of Nanostructure CdS Thin Film on Nanocrystalline Porous Silicon	International Journal of Current Engineering and Technology	Vol.4, No.2 (April 2014), pp 594- 601
24	Optical and Electrical Properties of Organic Conducting Polymers	Journal of Advances in Chemistry	Vol. 8, No. 1 M a r c h 0 5 , 2 0 1 4, pp 1457-1463

✓ **Ninth, languages:** French, English

Tenth, **Research activities**

We work on conducting polymers films

Fabrication of films of polythiophen, polypyrrole and polyaniline

We used electrochemical oxidation of some of aromatic heterocyclic benzenoid, or nonbenzenoid molecules frequently leads to the formation of an electrically conducting organic polymer film at the surface of platinum or gold electrodes. These films can be also electrochemically cycled between the oxidized, conducting state, and the neutral, insulating state films can be produced in the oxidized, conducting state (conductivity about $100 \Omega\text{cm}^{-1}$) and can be peeled off from the electrode surface.

These films have a strong stability in air. The experimental methods used to investigate vibrational properties are I.R absorption and Raman back scattering

We have for undoped polymer, the different frequencies have been assigned to

Normal modes of perfect chain

Chain termination effects

Defects resulting from the polymerization