

## Curriculum Vitae

2019



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**Date of Birth:** 17-4-1959

**Specialization:** Physical Chemistry

**Position:** Faculty Staff

**Scientific Degree:** assist. Prof.

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### ■ **First, Scientific Certification:**

Degree science	University	College	Date
B.Sc.	Baghdad	science	1981
M.Sc.	Baghdad	science	1986
Ph.D.	Baghdad	science	2002

### ■ **Second, Career:**

No.	Career	Workplace	From -To
1	Scientific Researcher	Iraqi Atomic Energy Commission	1987-1991
2	Post Scientific Researcher	Military Industry Consul	1992-2003
3	Chief Scientific Researcher	Ministry of science & Technology	2003-2010

4	Faculty staff	Ministry of High Education & scientific Researches	2010 - now
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### **Third, University Teaching.**

No.	University	The (Institute / College)	From -To
1	University of Baghdad	College of Science	2010 - now



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

No.	Department	Subject	Year
1	Chemistry	Nanochemistry 3 <sup>rd</sup> undergraduate	2010-2019
2	Chemistry	Nanochemistry 4 <sup>th</sup> undergraduate	2010-2019
3	Chemistry	Nanomaterials identification techniques/ MSc course	2013-2019
4	Chemistry	Advanced nanochemistry /PhD course	2013-2019



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

No.	Thesis Title	Department	Year
1	Physical investigation of corrosion protection of polymer coated steel in concrete	Physics/PhD Unv.baqghdad	2010
2	Anodic oxide template synthesis & characterization of nanostructure by electrodeposition	Engineering/MsC	2011

3	Corrosion Protection Evolution by using Nanoparticles For Some Metals and its Alloys	chemistry Science for women	2012
4	Synthesis and identification of Ag,Au,Pt,and Cu nanoparticles using AAO 'nanotemplate	chemistry Science for women	2012
5	Fabrication of TiO <sub>2</sub> nanotubes in nonaqueous electrolyte	Physics/MSc Unv.baqghdad	2012
6	Improving the protection efficiency of Ti implants in artificial body fluid	Materials and production Unv.of technology	2012
7	A Study in Protection of Corrosion by Using Nanoparticles (AL <sub>2</sub> O <sub>3</sub> ,ZnO) for Some Metals and Alloys	chemistry Science for women	2013
8	Design and fabrication of honeycomb nanofilter	Mechanical engn. Univers.baqghdad	2014
9	Preparation and Identification of TiO <sub>2</sub> Nanotubes (TNT's)For Solar cell	/Msc/ Physic Unv.baqghdad	2014
10	Study the efficiencies and fabrication of dye sensitive solar cell using nanomaterials	chemistry Unv.baqghdad	2014
11	Corrosion Protection Enhancement Of;Zn, Cu, Al, Carbon steel andStainless steel 316 in Artificial SeaWater by Coating with Nanomaterials	chemistry Unv.baqghdad	2014
12	An investigation into the Electropolymerization and Corrosion Protection Properties of Nanostructured Polypyrrole on some metals and alloys	chemistry Unv.baqghdad	2014

**Sixth, Conferences which you participated:**

No.	Conferences Title	Year	Place	Type of Participation
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1	Arab science & technology Foundation work-shop	2007	Jordan	Research contract
2	Arab science & technology Foundation work-shop	2008	UAE-Dubai	Research contract
3	Proceeding of The 3 <sup>rd</sup> Scientific Conference of the college of science of Baghdad University	2009	Baghdad	Research
4	Arab science & technology Foundation work-shop	2010	Jordan	Research contract
5	The Iraq National Scientific conference for physics	2010	Baghdad	Research
6	The 2 <sup>nd</sup> regional conf. for eng.sci/Alnahrain university	2010	Baghdad	Research speaker
7	Proceeding of The 4 <sup>th</sup> International Scientific Conference of Salahaddin University-Erbil	2011	Erbil	Research speaker
8	Proceeding of The International Conference on Iraqi oil Baghdad university-Ministry of Oil	2011	Baghdad	Research

■ **Seventh, Scientific Activities:**

Within the College	Outside the College
Papers reviewing (more than10)	Papers reviewing(more than30)
Dual use chemicals (meeting)	Lecture presentation (corrosion)
Examination Comitties of Theses (more than3)	Examination Comitties of Theses (more than15)
Lecture presentation (Nano)	

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

## **■ The Environment and Society or the Development of Education:**

<b>No.</b>	<b>Research Title</b>	<b>Place of Publication</b>	<b>Year</b>
1	Adsorption Decomposition and Reaction of Methyl Chloride on Metal Films of Iron, Nickel, Palladium, Lead, Gold and Copper	J. Chem. Soc., Faraday Trans. ,1, 1987, 83(8), 2391-2406,(LONDON, UK).	1986
2	Preparation of Sulphamic Acid	J. Eng. & Tech., 2004, 23(11), 463-469	2004
3	Preparation of Nanocrystalline PbS thin films by chemical bath deposition	Material science & Technology 2009 ASM International(#05274A),2637.	2009
4	Effect of sodium dodecyle sulfate (SDS) on the corrosion of Al(6061)	proceeding of 3 <sup>rd</sup> sci conf of the collage of science ,univ. of Baghdad 24to26march 2009 p1517-1524	2009
5	Effect of Hydroxyapatite layer coating on corrosion behavior of Ti-20%Co	J of univ of anbar for pure science ,v3,n2,2009,p41-48	2009
6	Effect of tannin on corrosion behavior of Ti- 20%Co alloy	proceeding of 1st sci conf for pure science of the collage of science ,univ. of Kirkuk 24to25feb 2009.	2009
7	Evaluation of polyurethane & polyurethane/PVC ble4nd coatings on steel as corrosion protection using EIS technique	Iraqi journal of physics,v18,No.11,2010pp.59-66	2010
8	The effect of ozonated water on the corrosion protection of stainless steel alloys 304 and 316.	The 2 <sup>nd</sup> regional conf. for eng.scilalnahrain university1-2/12/2010p392-404.	2010
9	The effect of zinc ,tin,and lead on corrosion protective effectiveness of steel reinforcement in concrete.	American journal of science & industrial research,2(1),2011,89-98.	2011
10	Effect of temperature and deposition time on the optical properties on chemically deposited nanostructured PbS thin films.	Elsevier Thin solid film 519 (2011) 4917–4922	2011
11	Effect of Deposition Time on the Optical Characteristics of Chemically Deposited Nanostructure PbS Thin Films	Energy Procedia, 6,2011,p 241–250	2011
12	Electrochemical formation of Titania Nanotubes in non-aqueous electrolyte	Proceeding of The 4 <sup>th</sup> International Scientific Conference of Salahaddin University-Erbil Volume(3)-October 18-20p861- 865	2011

13	Synthesis & Characterization of Some Corrosion Inhibitors for Iraqi Oil Industries Applications	Proceeding of The International Conference on Iraqi oil Baghdad university-Ministry of Oil20-22 dec. 2011p32-33	2011
14	Fabrication of carbon nanoparticles using arc discharge technique	Third physical conference for nanoresearches,28-30dec,	2011
15	Synthesis & Characterization of Some Corrosion Inhibitors for Iraqi Oil Industries Applications	المؤتمر العلمي العالمي لنتف العراق 20-22 dec. 2011p32-33	2011
16	Fabrication of carbon nanoparticles by arc discharge technique	مؤتمر النانو الثالث للفيزياء 3 <sup>rd</sup> SCNAMA 28-29dec 2011	2011
17	Electrochemical impedance spectroscopic evaluation of corrosion protection properties of polyurethane /polyvinyl chloride blend coatings on steel	Am. J. Sci. Ind. Res., 2011, 2(5): 761-768	2011
18	STUDY OF THE EFFECT OF NH <sub>4</sub> F CONCENTRATION ON THE STRUCTURE OF ELECTROCHEMICALLY PREPARED TiO <sub>2</sub> NANOTUBES	Iraqi Journal of Science. Vol 53.No 2.2012.Pp 827-831	2012
19	Inhibitive Action of Ellagic Acid on Corrosion Behavior of ( 316 L SS ) in Simulated Body Fluid	The Iraqi Journal For Mechanical And Material Engineering, Vol.12, No.2, 2012	2012
20	Fabrication of polyaniline –carbon nanofibers for HCl acid and NH <sub>3</sub> sensing at R.T.	مؤتمر النانو الثالث للفيزياء 4 <sup>th</sup> SCNAMA nov 2013	2013
21	Fabrication of nanowires via electrodeposition of Pt-phenothiozine complex in freshly prepared anodic in freshly prepared AAO temlate	Asian journal of chemistry,2013,25(7),4035-4038	2013
22	Synthesis and growth mechanism of thin film TiO <sub>2</sub> On focused ion beam micro pattered 3D isolated regions of titanium on silicon	ACS applied materials and interfaces 2013,5,9026-9033	2013
23	Corrosion protection study of carbon steel and ss316 alloy coated by nanomaterials	J.Baghdad for sci 2014,11(1),116	2014
24	The role of anodizing potentials in making TiO <sub>2</sub> nanotubes in ethylene glycol –NH <sub>4</sub> F-water electrolyte	Archives of Applied science research 2014,6(2),115-121	2014
25	Titanium oxide nanotube arrays used in implant materials	U.P.B. Sci. Bull., Series B, Vol. 76, Iss. 2, 2014	2014

26	Comparison Study on Making Dye Sensitive Solar Cell Using Nanomaterials	Archives of Applied science research 2014,6(2),115-121	2014
27	Nano rods and flowerlike synthesis by hydrothermal growth method without catalysts	Eng. &Tech.Journal, Vol.33, Part (B), No.6, 2015	2015
28	Study the Effect of Annealing Temperature on Optical properties For CIGS Films	International Journal of Basic and Applied ,Science Vol. 04, No. 01, July 2015, pp. 54-61	2015
29	Effect of Annealing Temperature on UV-Visible Spectra of CIGS Films Prepared by Drop Coating Method	.J. Chem. Eng. Chem. Res Vol. 2, No. 12, 2015, pp. 924-931	2015
30	Preparation, structure and adsorption properties of synthesized multiwall carbon nanotubes for highly effective removal of maxilon blue dye	Korean J. Chem. Eng., 32(12), 2456-2462 (2015)	2015
31	Synthesis and Characterization of Benzothiazol Derivative as a Corrosion Inhibitor for Carbon Steel in Seawater	Materials Sciences and Applications, 2015, 6, 681-693	2015
32	Influence of Succinonitrile and Potassium iodide concentration on ionic conductivity and performance of DSSCs based PMMA-PVA polymer blend electrolyte	Asian journal of chemistry,2016,28(8),1807-1810	2016
33	Anticorrosion behavior of deposited nanostructured polythiophene on stainless steel, carbon steel, and aluminum in sea water	International Journal of Engineering Research & Science (IJOER) [Vol-2, Issue-2, February- 2016]	2016
34	NEW CHEMICALLY PREPARED - WASTE COOKED TEA BASED ACTIVATED CARBON: FTIR, XRD, AFM, AND SEM SPECTROSCOPIC STUDIES	IJRPC 2016, 6(2), 220-229	2016
35	FTIR, XRD, AFM, AND SEM SPECTROSCOPIC STUDIES OF CHEMICALLY MW- WASTE COOKED TEA ACTIVATED CARBON	IJRPC 2016, 6(3), 543-555	2016
36	Experimental Studies for Carbon Steel Corrosion Inhibition in 3.5% NaCl Solution by Two New N-Benzyl- 5-Bromo Isatin Derivatives	IJAIEM Volume 5, Issue 8, August 2016 ,28-44	2016
37	Investigate of SCC of Low Carbon Steel in 0.1M Sulfuric Acid Solution Using Tension Test Method	Imperial Journal of Interdisciplinary Research (IJIR) Vol-2, Issue-9, 2016 ISSN: 2454-1362, <a href="http://www.onlinejournal.in">http://www.onlinejournal.in</a>	2016
38	Cr-Gd co-doped TiO <sub>2</sub> Nanoribbons as Photoanode in Making Dye Sensitized Solar Cell	Nanoscience and Nanometrology 2017; 3(1): 27-33 doi:10.11648/j.nsnm.20170301.15 ISSN: 2472-3630 (Online)	2017
39	Electrodeposited Reduced Graphene Oxide Films on Stainless Steel, Copper, and Aluminum for Corrosion Protection Enhancement	Hindawi International Journal of Corrosion Volume 2017, Article ID 6939354, 8 p. <a href="https://doi.org/10.1155/2017/6939354">https://doi.org/10.1155/2017/6939354</a>	2017

40	Fabrication Dye Sensitized Solar Cells by Using Natural Dye Beet Root (Beta Vulgaris) as Photosensitizer and Nano Electrodes	Diyala Journal for Pure Science Vol: 13 No:3 , July 2017,pp179 <a href="http://dx.doi.org/10.24237/djps.1303.303C">http://dx.doi.org/10.24237/djps.1303.303C</a>	2017
41	Fabrication of dye sensitive solar cell using pomegranate dye as photocatalyst and nanoelectrode	Diyala Journal for Pure Science Vol: 13 No:3 , July 2017,pp54-76 <a href="http://dx.doi.org/10.24237/djps.1303.245C">http://dx.doi.org/10.24237/djps.1303.245C</a>	2017
42	Effect of High pH Variation on the Structural and Optical Properties of ZnS Nanoparticles Prepared by Chemical Route	Australian Journal of Basic and Applied Sciences, 11(7) May 2017, Pages: 29-36	2017
43	Comparison of Aggressiveness Behavior of Chloride and Iodide Solutions on 304 and 304L	Materials Sciences and Applications, 2017, 8, 889-898 <a href="http://www.scirp.org/journal/msa">http://www.scirp.org/journal/msa</a>	2017
43	Corrosion Protection of Carbon Steel By Voltaren Drug in Acid Media and Theoretical Studies.	Research Journal of Pharmaceutical, Biological and Chemical Sciences March–April 2018 RJPBCS 9(2) Page No. 705	2018
44	Hydrothermal synthesis of $\gamma$ -MnO <sub>2</sub> star shape nanostructures and the effect of doping with (Fe and Cu) on their electrochemical performance in zinc-MnO <sub>2</sub>	Research Journal of Pharmaceutical, Biological and Chemical Sciences November–December 2018 RJPBCS 9(6) Page No. 1450	2018
45	Specific NH <sub>3</sub> Gas Sensor Worked at Room Temperature Based on MWCNTs-OH Network	Nano Hybrids and Composites ISSN: 2297-3400, Vol. 23, pp 8-16 doi:10.4028/www.scientific.net/NHC.23.8 Switzerland	2018
46	Efficiency enhancement of flexible dye sensitive solar cell using TiO <sub>2</sub> /ZnS nanoparticles photoanode	Asian J. of Chemistry 2018, 30(6), pp1374-1382	2018
47	Investigate the Conductivity and Dielectric Properties of Polymer Electrolytes	Indian Journal of Natural Sciences <a href="http://www.tnsroindia.org.in">www.tnsroindia.org.in</a> ©IJONS Vol. 9 / Issue 50 /October 2018	2018
48	The Roles of Acidity on Sono-Electrodeposition of Silver Nanoparticles	Materials Sciences and Applications, 2018, 9, 671-678 <a href="http://www.scirp.org/journal/msa">http://www.scirp.org/journal/msa</a>	2018
49	Synthesized copper nanoparticles by sono-electrodeposition for gas filter applications	Iraqi Journal of Physics, 2018 Vol.16, No.38, PP. 132-138	2018
50	The effect of chemical treatment for reduced graphene oxide on NO <sub>2</sub> gas sensing	JEAS, 2018, 13(18), pp721-628	2018
51	Pitting Corrosion Behavior of 304 SS and 316 SS Alloys in Aqueous Chloride and Bromide Solutions	Journal of Engineering Number 1 Volume 24 January 2018	2018



■ **Ninth, Membership:**

*Member of The American Chemical Society*

■ **Tenth, Awards and Certificates of Appreciation:**

No.	Name of Awards and Certificates	Donor	Year
1	Certificate	Dean of the College	2009
2	Certificate	ASTF-Sandia N.L.	2009
3	Certificate educational. course	President of Baghdad university	2010
4	Certificate of Appreciation	President of Nahrain university	2010
5	Gratitude and Appreciation	Dean of the College	2011
6	Gratitude and Appreciation	Dean of the College	2011
7	Gratitude and Appreciation	President of Baghdad	2012
8	Gratitude and Appreciation	Dean of the College Kufa	2013
9	Gratitude and Appreciation	Dean of the College Babel	2013
10	Gratitude and Appreciation	Dean of the College MEI	2013
11	Gratitude and Appreciation	Dean of the College	2013
12	Gratitude and Appreciation	President of Baghdad	2013
13	Gratitude and Appreciation	Dean of the College	2014
14	The best thesis prize	Dean of the College	2014
15	Gratitude and Appreciation	Dean of the College	2014
16	Gratitude and Appreciation	Minister of HESR	2014

17	Gratitude and Appreciation	President of Baghdad	2014
18	Gratitude and Appreciation	President of Baghdad	2014

■ **Eleventh, Scientific literature:**

No.	Scientific Literature Title	Year of The
1	Highly Ordered Metallic Nanowire Arrays	2013
2	Fabrication of TiO <sub>2</sub> nanotubes by chemical	2014

■ **Twelfth, languages:**

- ✓ **Arabic**
- ✓ **English**

