

# Ahmed A. Al-Amiery Curriculum Vitae

## A. PERSONAL DETAILS:

Surname: AL-AMIERY

Other names: AHMED ABDULAMIER HUSSAIN

Birthday: 9th November 1975

Present position: Professor of Organic Chemistry since 2013

Emails: dr.ahmed1975@gmail.com;  
100173@uotechnology.edu.iq

Mobile: 00964-7700-671115

Passport No. A 9994120



*Google Author Evaluator; h Index 19*

*Number of Citations: 1300 Cited paper Since 2012*

## B. ACADEMIC RECORD:

### 1. Post Doctorate

**Post Doctorate:** Department of Chemical and Process Engineering, University Kebangsaan Malaysia (UKM)

### 2. Doctorate degree:

PhD. in Organic Chemistry, College of science, Al-Mustansiriya University in Iraq, awarded on 9th

October 2007. The degree was taken by:

©A one-year course involving Lectures and Examinations.

©Followed three years' research with writing thesis. Thesis title is Synthesis of Novel Coumarin Derivatives (work under the supervision of Prof. Abdul-Hussain K. Sharba & Prof. Redha I. Al- Bayati). Ph. D. Thesis (summary): Ethylacetoacetate & Acetylacetone has been used for the production of wide variety of novel coumarins, and azo coumarins that contain 1,3,4- thiadiazol derivatives and study the antimicrobial activity of it.

### 3. Master degree:

M. Sc. in Organic chemistry, College of science, University of Baghdad in Iraq, awarded on the 24th February

2001. The degree was taken by:

©1st year, theoretical courses were taken, which involved Lectures and Examinations.

©2nd year, Project Thesis on "Preparation and Characterization of Some Coumarin Derivatives and Attempt to Study the Biological activity of these Compounds", under the supervision of Professor Jeannette Kassir.

#### 4. **Bachelor degree:**

B. Sc. in General chemistry, College of science, Al-Mustansiriyah University in Iraq, awarded on the

20th June, 1998, with the classification good.

#### C. **EMPLOYMENT RECORD:**

FROM	TO	TITLE OF POST	EMPLOYER
2008	Till now	Assistant Professor	University of Technology
2005	2008	Senior lecturer	University of Technology
2002	2005	Assistant lecturer	University of Technology

#### D. **Posts Held:**

⊙ I had started my job at the University of Technology (Iraq) on the 9 of March 2002 as assistant lecturer, and then up 2004, I was teaching practical industrial and organic chemistry for undergraduate students. Since 2005, up to know, I am teaching: a) Organic chemistry & identification of organic compounds for undergraduate students. b) Industrial Chemistry for undergraduate students.

#### E. **Research fellow:**

- ⊙ Visitor professor at National University of Malaysia- UKM (2011)
- ⊙ Post-doctoral from National University of Malaysia- UKM (2012)

#### F. **Thankful and Appreciation:**

- ⊙ Thankful and Appreciation letters from Ministry of Higher Education and Scientific Research- Iraq
- ⊙ Thankful and Appreciation letters from Applied Science department at University of Technology- Iraq
- ⊙ Thankful and Appreciation letter from Department of Chemical and Process Engineering from National University of Malaysia- UKM
- ⊙ Thankful and Appreciation letters from University of Technology- Iraq

#### G. **Awards**

- ⊙ Holds Science Day Award from the Ministry of Higher Education and Scientific Research for two consecutive years (2010-2011, 2011-2012, 2012-2013 and 2013-2014).
- ⊙ Medal For Scientific Excellence (2014).
- ⊙ TWAS (the world academy of sciences ) Young Affiliates 2014-Young Arab scientist.
- ⊙ Member of the Who,s Who for International Executives.

#### H. **A short Essay about my research:**

⊙ My present interest in research is directed on one part on the synthesis of heterocyclic compounds e.g. thiazoles, 2H-benzopyran-2-ones and use the synthesized novel compounds as corrosion inhibitors or anti-microbes.

⊙ My research is also directed on the synthesis of novel Corrosion Inhibitors.

⊙ My research is also directed on the synthesis and Determination of various metal complexes with Drugs.

⊙ My research is also directed on the extraction of organic compounds from various plants.

⊙ My research is also directed on the synthesis of novel steroids hormones & studies biological activity of it.

## **I. Conferences**

⊙ Eight local conferences Local

⊙ Ten international conferences.

## **J. Workshops: Five international workshops and three local**

⊙ Nanomaterial Synthesis and Characterization.

⊙ NMR For Intermediates.

⊙ NMR For Metabolomics.

⊙ Water Analysis.

## **K. Summary of courses and obtained certificates**

⊙ Course of Advanced learning English.

⊙ Course of teaching methods.

⊙ Course of Research way.

⊙ International courses in Corrosion

## **L. Editor in many international journals**

⊙ The 7th International Conference on Bioinformatics and Biomedical Engineering

⊙ Trends in Materials Sciences

⊙ Journal of Environmental and Engineering Technology

⊙ Journal of Brewing and Distilling

⊙ Graphene

⊙ New Century Publishing Group

⊙ Pelagia Research Library

⊙ Journal of Basic and Applied Chemistry

⊙ Research Journal of Applied Science, Engineering and Technology

⊙ International Journal of Chemistry

⊙ Academic and Scientific Publishing/International Journal of Applied Chemistry Research

⊙ American Journal of Scientific and Industrial Research

⊙ World Academy of Science, Engineering and Technology membership

## **M. Patents**

⊙ **International patent....**No.: 2012700803" entitled "4-hydroxycoumarin based Corrosion Inhibitor"; you could log on to <https://iponline.myipo.gov.my/ipo/main/search.cfm>

⊙ **Local (IRAQI) patent....** No. 4234: New Corrosion Inhibitor.

⊙ **Local (IRAQI) patent....** No. 183/2015: Novel Corrosion Inhibitor derived from Iminobenzlidine.

© **Local (IRAQI) patent....** No. 232/2015: New Complexes as Photo-stabilization.

**N. I have published more than 100 papers (Published in High Impact Factor).**

**O. Publications for 2016**

No.	Research Title	DOI	Journal	Publisher	Impact Factor
1	Synthesis and characterization of a novel eco-friendly corrosion inhibition for mild steel in 1 M hydrochloric acid	10.1038/srep19890	Scientific Reports	Nature	5.5
2	Coumarins as Potential Antioxidant Agents Complemented with Suggested Mechanisms and Approved by Molecular Modeling Studies	10.3390/molecules21020135	Molecules	MDPI	2.4
3	Green Antioxidants: Synthesis and Scavenging Activity of Coumarin-Thiadiazoles as Potential Antioxidants Complemented by Molecular Modeling Studies	10.5530/fra.2016.2.7	Journal of Phcog/ Free Radicals and Antioxidants	Phcog.Net	1.2

**P. Publications for 2015**

No.	Research Title	DOI	Journal	Publisher	Impact Factor
1	Novel macromolecules derived from coumarin: synthesis and antioxidant activity	10.1038/srep11825	Scientific Reports	Nature	5.5
2	Hydrogen Peroxide Scavenging Activity of Novel Coumarins Synthesized Using Different Approaches	10.1371/journal.pone.0132175	PloS one	Public Library of Science	3.2
3	New Coumarin Derivative as an Eco-Friendly Inhibitor	10.3390/molecules20010366	Molecules	MDPI	2.4
4	Photostabilizing Efficiency of PVC in the Presence of Schiff Bases as Photostabilizers	doi:10.3390/molecules201119665	Molecules	MDPI	2.4
5	Properties and Applications of Polyvinyl Alcohol, Halloysite Nanotubes and Their Nanocomposites	doi:10.3390/molecules201219884	Molecules	MDPI	2.4
6	Synthesis of new coumarins complemented by quantum chemical studies	10.1007/s11164-015-2252-6	Res Chem Intermed	Springer	1.3
7	Selective Ozonolysis of Cis-Crotamiton: Free Catalyzed Oxidative Synthesis of N-ethyl-N-(o-tolyl)formamide as a New Compound	0.1080/01919512.2014.998757	Ozone: Science & Engineering: The Journal of the International Ozone Association	Taylor & Francis	0.95
8	Chemical and Physical Properties Investigation as Indicators for the Ozonation Reaction Completion of Palm Olein	10.1080/01919512.2015.1053013	Ozone: Science & Engineering: The Journal of the International Ozone Association	Taylor & Francis	0.95
9	Synthesis and characterization of polyesters derived from glycerol, azelaic acid, and succinic acid	10.1080/17518253.2014.991810	Green Chemistry Letters and Reviews	Taylor & Francis	1.2
10	Hypothetical Design of Carbon Nanotube Materials Based on [8]Circulene	10.1166/jno.2015.1816	J. Nanoelectron. Optoelectron.	American Scientific Publishers	0.6
11	Microwave-assisted solvent-free synthesis of new polyimine	10.1080/23312009.2015.1075853	Cogent Chemistry	Taylor & Francis	-
12	Molecular simulation for novel carbon buckyball materials	10.1080/23312009.2015.1026638	Cogent Chemistry	Taylor & Francis	-

13	Furosemide as an Environmental-Friendly Inhibitor of Corrosion of Zinc metal in Acid Medium: Experimental and Theoretical studies	10 (2015) 1708 - 1715	Int. J. Electrochem. Sci.,		1.5
14	Cheery Sticks Plant Extract as a Green Corrosion Inhibitor Complemented with LC-EIS/ MS Spectroscopy	10 (2015) 8200 - 8209	Int. J. Electrochem. Sci.,		1.5
15	Eco-Friendly Corrosion Inhibitor: Experimental Studies on the Corrosion Inhibition Performance of Creatinine for Mild Steel in HCl Complemented with Quantum Chemical Calculations	10 (2015) 3961 - 3972	Int. J. Electrochem. Sci.,		1.5

## List of publications

1	Coumarins as Potential Antioxidant Agents Complemented with Suggested Mechanisms and Approved by Molecular Modeling Studies Molecules 21 (2), 135	2016
2	Synthesis and characterization of a novel eco-friendly corrosion inhibition for mild steel in 1 M hydrochloric acid Scientific Reports 6, 19890	2016
3	Green Antioxidants: Synthesis and Scavenging Activity of Coumarin-Thiadiazoles as Potential Antioxidants Complemented by Molecular Modeling Studies	2016
4	Synthesis of Aluminum and Titanium Oxides Nanoparticles via Sol-Gel Method: Optimization for the Minimum Size Journal of Nanoscience and Technology 2 (1), 37–39	2016
5	Microwave-assisted solvent-free synthesis of new polyimine Cogent Chemistry 1 (1), 1075853	2015
6	Molecular simulation for novel carbon buckyball materials Cogent Chemistry 1 (1), 1026638	2015
7	Synthesis of vanadium pentoxide nanoparticles as catalysts for the ozonation of palm oil Ozone: Science & Engineering, 1-6	2015
8	Synthesis of new coumarins complemented by quantum chemical studies Research on Chemical Intermediates, 1-14	2015
9	Hydrogen Peroxide Scavenging Activity of Novel Coumarins Synthesized Using Different Approaches PLoS ONE 10 (7), e0132175	2015
10	Selective Ozonolysis of Cis-Crotamiton: Free Catalyzed Oxidative Synthesis of N-ethyl-N-(o-tolyl) formamide as a New Compound Ozone: Science & Engineering 37 (4), 385-390	2015
11	Novel macromolecules derived from coumarin: synthesis and antioxidant activity Scientific reports 5	2015
12	Chemical and Physical Properties Investigation as Indicators for the Ozonation Reaction Completion of Palm Olein Ozone: Science & Engineering 37	2015
13	Eco-Friendly Corrosion Inhibitor: Experimental Studies on the Corrosion Inhibition Performance of Creatinine for Mild Steel in HCl Complemented with Quantum Chemical Calculations Int. J. Electrochem. Sci 10, 3961-3972	2015
14	Furosemide as an Environmental-Friendly Inhibitor of Corrosion of Zinc metal in Acid Medium: Experimental and Theoretical studies Int. J. Electrochem. Sci 10, 1708-1715	2015
15	Synthesis and characterization of polyesters derived from glycerol, azelaic acid, and succinic acid Green Chemistry Letters and Reviews 8 (1), 31-38	2015
16	Properties and Applications of Polyvinyl Alcohol, Halloysite Nanotubes and Their Nanocomposites Molecules 20 (12), 22833-22847	2015
17	4-Hydroxycoumarins as New Fluorescent Compounds: Synthesis and	2015

	<b>Characterization</b> American Journal of Chemistry 5 (3A), 48-51	
18	<b>Photostabilizing Efficiency of PVC in the Presence of Schiff Bases as Photostabilizers</b> Molecules 20 (11), 19886-19899	2015
19	<b>Cheery Sticks Plant Extract as a Green Corrosion Inhibitor Complemented with LC-EIS/ MS Spectroscopy</b> Int. J. Electrochem. Sci., 10 (9), 8200 - 8209	2015
20	<b>Enhancement of physical and chemical properties of halloysite nanotubes using sulfuric acid</b> Wulfenia 22 (8), 264-284	2015
21	<b>Hypothetical Design of Carbon Nanotube Materials Based on [8]Circulene</b> J. Nanoelectron. Optoelectron 10, 711-716	2015
22	<b>New Coumarin Derivative as an Eco-Friendly Inhibitor of Corrosion of Mild Steel in Acid Medium</b> Molecules 20 (1), 366-383	2015
23	<b>Synthesis and Characterization of Some New 4-Hydroxy-coumarin Derivatives</b> Molecules 19 (8), 11791-11799	2014
24	<b>Enhancement of the Wear Resistance and Microhardness of Aluminum Alloy by Nd: Yag Laser Treatment</b> The Scientific World Journal 2014	2014
25	<b>Inhibition of mild steel corrosion in hydrochloric acid solution by new coumarin</b> Materials 7 (6), 4335-4348	2014
26	<b>Synergistic of a coumarin derivative with potassium iodide on the corrosion inhibition of aluminum alloy in 1.0 M H<sub>2</sub>SO<sub>4</sub></b> AB Mohamad, AAH Kadhum, AA Al-Amiery, LC Ying, AY Musa Metals and materials international 20 (3), 459-467	2014
27	<b>Quantum chemical assessment of benzimidazole derivatives as corrosion inhibitors</b> Chemistry Central Journal 8 (1), 21	2014
28	<b>Effect of multipath laser shock processing on microhardness, surface roughness, and wear resistance of 2024-t3 Al alloy</b> The Scientific World Journal 2014	2014
29	<b>Theoretical, antioxidant and cytotoxic activities of caffeic acid phenethyl ester and chrysin</b> International journal of food sciences and nutrition 65 (1), 101-105	2014
30	<b>Inhibition of mild steel corrosion in sulfuric acid solution by new Schiff base</b> Materials 7 (2), 787-804	2014
31	<b>Novel corrosion inhibitor for mild steel in HCl</b> Materials 7 (2), 662-672	2014
32	<b>Wear in Progress View</b> LAP LAMBERT Academic Publishing , ISBN-10: 3844353313 and ISBN-13: 978 ...	2014
33	<b>Eco-friendly corrosion inhibitor</b> International Journal of Electrochemical Science 10 (5), 3961-3972	2014
34	<b>Novel approach: tungsten oxide nanoparticle as a catalyst for malonic acid ester synthesis via ozonolysis</b> Journal of Nanomaterials 2014, 2	2014
35	<b>Antioxidant and antimicrobial activities of novel quinazolinones</b> Medicinal Chemistry Research 23 (1), 236-242	2014
36	<b>Synthesis and Theoretical Studies of Methyl 2-[(2-oxo-2H-chromen-4-yl) oxy] acetate</b> Asian Journal of Chemistry 25 (18), 10357	2013
37	<b>Electrochemical study on newly synthesized chlorocurcumin as an inhibitor for mild steel corrosion in hydrochloric acid</b> Materials 6 (12), 5466-5477	2013
38	<b>Curcuminoids as antioxidants and theoretical study of stability of curcumin isomers in gaseous state</b> Research on Chemical Intermediates 39 (9), 4047-4059	2013
39	<b>Theoretical study for the preparation of sub-carbon nano tubes from the cyclic polymerization reaction of two molecules from corannulene, coronene and circulene</b>	2013

	<b>aromatic compounds</b> Journal of Computational and Theoretical Nanoscience 10 (10), 2453-2457	
40	<b>Synthesis and antioxidant activities of novel 5-chlorocurcumin, complemented by semiempirical calculations</b> Bioinorganic chemistry and applications 2013	2013
41	<b>Heavy metal biosorption efficiencies of expanded bed biofilm reactor and sequencing batch biofilm reactor</b> Asian Journal of Chemistry 25 (13), 7193	2013
42	<b>Co-crystal structure of mixed molecules of methyl 2-(3-chloro-4-methyl-2-oxo-2H-chromen-7-yloxy) acetate and 2-(2-aminophenyl) benzothiazole</b> Journal of Structural Chemistry 54 (3), 648-649	2013
43	<b>A novel hydrazinecarbothioamide as a potential corrosion inhibitor for mild steel in HCl</b> Materials 6 (4), 1420-1431	2013
44	<b>Corrosion of Nickel-Aluminum-Bronze alloy in aerated 0.1 M sodium chloride solutions under hydrodynamic condition</b> Int. J. Electrochem. Sci 8, 4571-4582	2013
45	<b>Extraction, Identification, Antibacterial and Antifungal activities of Alcadifa (Tagets plitula L. Marigold) growing in Iraq</b> Kufa Journal for Chemistry	2013
46	<b>Quantum chemical calculation for the inhibitory effect of compounds</b> Journal of Structural Chemistry 54 (2), 301-308	2013
47	<b>The legend of 4-aminocoumarin: use of the Delépine reaction for synthesis of 4-iminocoumarin</b> Research on Chemical Intermediates 39 (3), 1385-1391	2013
48	<b>Coumarin Synthesis, Reactions and Pharmacological activities</b> AP LAMBERT Academic Publishing; ISBN-13: 978-3659503603	2013
49	<b>Green synthesis, antimicrobial and cytotoxic effects of silver nanoparticles using Eucalyptus chapmaniana leaves extract</b> Asian Pacific journal of tropical biomedicine 3, 58	2013
50	<b>Thermodynamic and Theoretical Study of the Preparation of New Buckyballs from Corannulene, Coronene, and Circulene</b> Journal of nanomaterials 2013, 1-9	2013
51	<b>Inhibition Effects of a Synthesized Novel 4-Aminoantipyrine Derivative on the Corrosion of Mild Steel in Hydrochloric Acid Solution together with Quantum Chemical Studies</b> International Journal of Molecular Sciences 14 (6), 11915-11928	2013
52	<b>Synthesis, antimicrobial and antioxidant activities of 5-((2-oxo-2 H-chromen-7-yloxy) methyl)-1, 3, 4-thiadiazol-2 (3 H)-one derived from umbelliferone.</b> Chemistry of Natural Compounds 48 (6)	2013
53	<b>The effect of cherry sticks extract on the levels of glycoproteins in alloxan-induced experimental diabetic mice</b> Annals of Clinical & Laboratory Science 42 (1), 34-41	2012
54	<b>Antimicrobial and antioxidant activities of new metal complexes derived from (E)-3-((5-phenyl-1, 3, 4-oxadiazol-2-ylimino) methyl) naphthalen-2-ol</b> Medicinal Chemistry Research 21 (10), 3204-3213	2012
55	<b>Thermodynamic studies on 4-aminocoumarin tautomers</b> Int J Electrochem. Sci 7, 8468-8472	2012
56	<b>Novel pyranopyrazoles: Synthesis and theoretical studies</b> Molecules 17 (9), 10377-10389	2012
57	<b>Solvent-Free Synthesis of New Coumarins</b> Organic Chemistry International 2012	2012
58	<b>2-(2-Imino-1-methylimidazolidin-4-ylidene) hydrazinecarbothioamide</b> Molbank 2012 (3), M763	2012
59	<b>Galvanic corrosion of aluminum alloy (Al2024) and copper in 1.0 M hydrochloric acid solution</b> Korean Journal of Chemical Engineering 29 (6), 818-822	2012
60	<b>Antifungal activities of new coumarins</b> Molecules 17 (5), 5713-5723	2012

61	Synthesis and characterization of novel corrosion inhibitor derived from oleic acid: 2-Amino 5-Oleyl-1, 3, 4-Thiadiazol (AOT) Int. J. Electrochem. Sci 7, 3543-3554	2012
62	Co-crystal structure of mixed molecules International Journal of Physical Sciences 7 (10), 1564-1570	2012
63	Synthesis and antioxidant, antimicrobial evaluation, DFT studies of novel metal complexes derivate from Schiff base Research on Chemical Intermediates 38 (3-5), 745-759	2012
64	Antioxidant, antimicrobial, and theoretical studies of the thiosemicarbazone derivative Schiff base 2-(2-imino-1-methylimidazolidin-4-ylidene) hydrazinecarbothioamide (IMHC) Organic and medicinal chemistry letters 2 (1), 1	2012
65	Antifungal and antioxidant activities of pyrrolidone thiosemicarbazone complexes Bioinorganic chemistry and applications 2012	2012
66	Preparation, characterization, and theoretical studies of azelaic acid derived from oleic acid by use of a novel ozonolysis method Research on Chemical Intermediates 38 (2), 659-668	2012
67	Cytotoxicity, antioxidant, and antimicrobial activities of novel 2-quinolone derivatives derived from coumarin Research on Chemical Intermediates 38 (2), 559-569	2012
68	The reduction of perchlorate anions in tap water using a fluidized bed bioreactor International Journal of Physical Sciences 7 (5), 730-734	2012
69	Toxicity evaluation for low concentration of chlorophenols under solar radiation using zinc oxide (ZnO) nanoparticles Int. J. Phys. Sci 7 (1), 48-52	2012
70	Synthesis, structure elucidation and DFT studies of new thiadiazoles Int. J. Phys. Sci 6, 6692-6697	2012
71	The use of umbelliferone in the synthesis of new heterocyclic compounds Molecules 16 (8), 6833-6843	2011
72	Synthesis, characterization, theoretical crystal structure, and antibacterial activities of some transition metal complexes of the thiosemicarbazone (Z)-2-(pyrrolidin-2-ylidene) hydrazinecarbothioamide Bioinorganic Chemistry and Applications 2011	2011
73	Optimization of cellulase production by Aspergillus niger and Trichoderma viride using sugar cane waste Journal of yeast and fungal research 2 (2), 19-23	2011
74	Antimicrobial and antioxidant activities of new metal complexes derived from 3-aminocoumarin Molecules 16, 6969	2011
75	The antioxidant activity of new coumarin derivatives International journal of molecular sciences 12, 5747	2011
76	Novel in vivo studies on the effect of ethanolic stick cherries extract in diabetes management J Appl Sci Res 7 (1), 476-8	2011
77	Production cellulase by different co-culture of Aspergillus niger and Trichoderma viride from waste paper Journal of Yeast and Fungal Research 1 (6), 108-111	2010
78	Design, synthesis and bioassay of novel coumarins Afr. J. Pure Appl. Chem 4 (6-P), 74-76	2010
79	Study the anticancer activities of ethanolic curcumin extract Afr J Pure Appl Chem 4 (5), 68-73	2010
80	Study the biological activities of Avena sativa extracts African Journal of Pure and Applied Chemistry 4 (3), 031-034	2010
81	In vivo study of cherry stick effect on concentration of serum total cholesterol, triglyceride and total protein in white albino male mice J Fac Med Baghdad 52 (3), 342	2010
82	Synthesis of Novel fuel additives Researcher 2 (5), 5-13	2010
83	Novel quinazolinone derivatives: Synthesis and Antimicrobial Activity	2010



	Researcher 2 (4), 82-88	
84	<b>Journal of Chemical and Pharmaceutical Research</b> J. Chem 2 (3), 394-399	2010
85	<b>Journal of Chemical and Pharmaceutical Research</b> J. Chem 2 (3), 120-126	2010
86	<b>Synthesis, spectroscopic and antimicrobial studies of transition metal complexes of N-amino quinolone derivatives</b> The 14th International Electronic Conference on Synthetic Organic Chemistry	2010
87	<b>Design, synthesis and bioassay of novel metal complexes of 3-amino-2-methylquinazolin-4 (3H)-one</b> African Journal of Pure and Applied Chemistry 3 (11), 218-227	2009
88	<b>Study the biological activities of tribulus terrestris extracts</b> World Academy of Science, Engineering and Technology 57, 433-435	2009