## **Curriculum Vita of Wael Arafa**

## Personal Data:

Name			Nationality	Place of Birth	Date of Birth	Gender	Marital Status	
Frist	Middle	Family	Egyptian	Egypt	14-12-1974	Male	Married	
Wael	Abdelgayed	Arafa						
<b>General Spec</b>	cialization	Chemistry						
Specialization	n	Organic chemistry						
<b>Current Posi</b>	tion	Professor Associate a	at chemistry department/Jouf university					
		Head of the Graduate Studies Unit						
		Chairman of the Stud	ent Forum Com	mittee				
Scientific Tit	le			Professor As	sociate			
Highest degr	ee/ Date		PHD					
ID Number				2350260	168			
College		Science	De	partment	C	hemistry		

### **Contact Data:**

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	university		
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(phone number		(personal)	
Home phone number		Personal site	
Mobile	0535617011	Fax	
Mailbox	Postal		
	code		

## **Education (Bachelor, Master, PhD, Other):**

No.	Qualification	Date	Родиоо	University	College	Scientific	Sı	pecialization
110.	Qualification	Date	Degree	Offiversity	Collage	Department	General	Specific
1.	Bachelor	1997	Bachelor	Cairo	Science	Chemistry	Chemistry	Chemistry
2.	Master	2003	Master	Cairo	Science	Chemistry	Chemistry	Organic chem.
3.	PhD	2008	PhD	Fayoum	Science	Chemistry	Chemistry	Organic chem.

**Employment Qualifications:** 

Job	Job Title	University	Workplace	Da	ite	Work duty	Years of
		Degree		From	To		Experience
Demonstrator	Demonstrator	Demonstrator	Cairo uni.	1998	2003	Teaching and research	5
Assistant Lecturer	Assistant Lecturer	Assistant Lecturer	Cairo uni.	2003	2008	Teaching and research	5
Assistant Professor	Assistant Professor	Assistant Professor	Fayoum uni.	2008	2016	Teaching and research	8
Associate Professor	Associate Professor	Associate Professor	Jouf uni.	2016	2021	Teaching and research	5
Professor	Professor	Professor	Fayoum uni.	2021	now	Teaching and research	2

# Participation in scientific conferences and symposiums

No.	Title of the conference or symposium	Held in	Year
1.	Pharmacy educational webinar series	KSA	2021
2.	Vision of solar energy in the KSA: applications and Challenges	KSA	2020
3.	Scientific Conference in Surface Science and Its Applications (CSSA-2017)	KSA	2017

4.	The 5 <sup>th</sup> international Conference of Chemical Industries, National Research Centre	Egypt	2008
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# **Supervision of undergraduate:**

No.	Thesis Title	Deg	ree	I Inivancity	Year	Collogo	Donoutmont
NO.	Thesis Tiue	M.Sc.	Ph.D.	University	rear	Collage	Department
1.	Synthesis and Reactions of Some New			Jouf	1442	Science	Chemistry
	Heterocyclic Compounds Bearing Pyridine Moiety with Potential Biological Activity						
2.	Design and green synthesis of some new heterocyclic compounds and their application in biological activities	V		Jouf	1442	Science	Chemistry
3.	An efficient and sustainable protocol for the synthesis of pyrimidines: Quantum-chemical calculations and biological evaluation	V		Jouf	1443	Science	Chemistry
4.	Green synthesis and biological studies of some new pyrimidine and thiazolidinone derivatives bearing quinazoline moiety	V		Jouf	1443	Science	Chemistry

## **Training courses and workshops:**

No.	courses / workshop	Specialization	Held in	Year
1.	Pharmacy educational webinar series	Chemistry	Online	April 20, 2021
2.	Managing scientific references	General	Online	March 17, 2021
3.	IEEE workshop	General	Online	March 8, 2021
4.	Vision of solar energy in the KSA: applications and Challenges	Chemistry	Online	December 9-10 2020
5.	Managing allergy symptoms in the Covid-19 times	Medical	Online	November 30, 2020

6.	Renewable Energy Workshop: Prospects and	Chemistry	March 26, 2019
	Challenges		

#### Awards and honors:

	No Award Award Pariod									
No.	Award	Awarded by	Specialization	Period						
1)	Scientific Visitor, Stockholm University, Sweden	Fayoum University, Egypt	Chemistry	2012 and 2015						
2)	University Award for International Publishing	Jouf University	Chemistry	2016 & 2018						
3)	University Award for Excellence, faculty members (men, 1st	Jouf University	Chemistry	2018						
4)	University Award for International Publishing	Fayoum University, Egypt	Chemistry	2009-2021						

#### Languages:

language	Speaking	Writing	Reading
English	Excellent	Excellent	Excellent

#### **Scientific Publications:**

1) AbdElAziz A Nayl, Wael AA Arafa, Ismail M Ahmed, Ahmed I Abd-Elhamid, Esmail M El-Fakharany, Mohamed A Abdelgawad, Sobhi M Gomha, Hamada M Ibrahim, Ashraf A Aly, Stefan Bräse, Asmaa K Mourad "Novel Pyridinium Based Ionic Liquid Promoter for Aqueous Knoevenagel Condensation: Green and Efficient Synthesis of New Derivatives with Their Anticancer Evaluation" *Molecules*, 2022, 27, 3716.

https://doi.org/10.3390/molecules27123716

- 2) Mohamed A Abdelgawad, Nadia AA Elkanzi, AA Nayl, Arafa Musa, Nasser Hadal Alotaibi, WAA Arafa, Sobhi M Gomha, Rania B Bakr "Targeting tumor cells with pyrazolo[3,4-d]pyrimidine scaffold: A literature review on synthetic approaches, structure activity relationship, structural and target-based mechanisms" *Arabian Journal of Chemistry*, 2022, **15**, 103781. https://doi.org/10.1016/j.arabjc.2022.103781
- 3) AbdElAziz A Nayl, Ashraf A Aly, Wael AA Arafa, Ismail M Ahmed, Ahmed I Abd-Elhamid, Esmail M El-Fakharany, Mohamed A Abdelgawad, Hendawy N Tawfeek, Stefan Bräse "Azides in the Synthesis of Various Heterocycles" *Molecules*, 2022, 27, 2940. <a href="https://doi.org/10.3390/molecules27092940">https://doi.org/10.3390/molecules27092940</a>
- **4)** Wael Abdelgayed Ahmed Arafa, Amira Atef Ghoneim, Asmaa K Mourad "N-Naphthoyl Thiourea Derivatives: An Efficient Ultrasonic-Assisted Synthesis, Reaction, and In Vitro Anticancer Evaluations" *ACS Omega*, 2022, 7, 6210–6222. https://doi.org/10.1021/acsomega.1c06718
- 5) Khairiah Nasser AL-Shammri, Nadia AA Elkanzi, Wael AA Arafa, Ibrahim O Althobaiti, Rania B Bakr, Shaima Mohamed Nabil Moustafa "Novel indan-1,3-dione derivatives: Design, green synthesis, effect against tomato damping-off disease caused by Fusarium oxysporum and in silico molecular docking study" *Arabian Journal of Chemistry*, 2022, **15**, 103731. <a href="https://doi.org/10.1016/j.arabjc.2022.103731">https://doi.org/10.1016/j.arabjc.2022.103731</a>
- 6) H Nady, Amr Elgendy, Wael Abdelgayed Ahmed Arafa, Ehab S Gad "Insight Into the Inhibition Performance of Thiosemicarbazones as Efficient Inhibitors for Copper in Acidic Environment: Combined Experimental and Computational Investigations" *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 2022, 647, 129208. https://doi.org/10.1016/j.colsurfa.2022.129208
- 7) Mariam Azzam Alanazi, Wael AA Arafa, Ibrahim O Althobaiti, Hamud A Altaleb, Rania B Bakr, Nadia AA Elkanzi "Green Design, Synthesis, and Molecular Docking Study of Novel Quinoxaline Derivatives with Insecticidal Potential against Aphis craccivora" *ACS Omega*, 2022, 31, 27674–27689. https://doi.org/10.1021/acsomega.2c03332
- 8) Amira Atef Ghoneim, Wael Abdelgayed Ahmed Arafa "Design, synthesis and antimicrobial evaluation of thioglycosides of a novel class of 2-mercaptonicotinonitriles" *Journal of Saudi Chemical Society*, 2020, 24(12), 1025-1033. https://doi.org/10.1016/j.jscs.2020.11.001
- 9) Wael Abdelgayed Ahmed Arafa "Ru-Based Complexes as Heterogeneous Potential Catalysts for the Amidation of Aldehydes and Nitriles in Neat Water" *Bulletin of the Chemical society of Japan*, Japan, 2020, 93(9), 1056-1064. https://doi.org/10.1246/bcsj.20200071
- **10**) Wael Abdelgayed Ahmed Arafa and Modather F. Hussein "Design, Sonosynthesis, Quantum-Chemical Calculations, and Evaluation of New Mono- and Bis-pyridine Dicarbonitriles as Antiproliferative Agents" *Chinese Journal of Chemistry*, 2020, 38(5), 501-508. https://doi.org/10.1002/cjoc.201900494
- **11)** Hamada Mohamed Ibrahim, Haider Behbehani and Wael Abdelgayed Ahmed Arafa "A facile, practical and metal-free microwave assisted protocol for mono- and bis [1,2,4]triazolo[1,5-a]pyridines synthesis utilizing 1-amino-2-imino-pyridine derivatives as versatile precursors" *RSC Advances*, 2020, *10*(26), 15554-15572. <a href="https://doi.org/10.1039/D0RA02256J">https://doi.org/10.1039/D0RA02256J</a>
- 12) Tarek Ahmed Seaf-Elnasr, Ibrahim Hotan Alsohaimi, Wael Abdelgayed Ahmed Arafa and Mutairah Shaker Alshammari "New spectrophotometric protocol using tetrathiosemicarbazone derivative chelating (TTSC) for the assessment of trace level of cadmium(II) in drinking water" *International Journal of Environmental Analytical Chemistry*, 2020, <a href="https://doi.org/10.1080/03067319.2020.1767093">https://doi.org/10.1080/03067319.2020.1767093</a>

- **13**) A. A. Nayl, Wael Abdelgayed Ahmed Arafa, A. I. Abd-Elhamid and R.A.Elkhash "Studying and spectral characterization for the separation of lanthanides from phosphate ore by organic and inorganic acids" *Journal of Materials Research and Technology*, 2020, 9(5), 10276-10290. https://doi.org/10.1016/j.jmrt.2020.07.007
- **14)** Wael Abdelgayed Ahmed Arafa and Abd El-Aziz Ahmed Nayl "Water as a solvent for Ru-catalyzed click reaction: Highly efficient recyclable catalytic system for triazolocoumarins synthesis" *Applied organometallic chemistry*, 2019, *33*(10), e5156. <a href="https://doi.org/10.1002/aoc.5156">https://doi.org/10.1002/aoc.5156</a>
- **15**) Wael Abdelgayed Ahmed Arafa "Deep eutectic solvent for an expeditious sono-synthesis of novel series of bis-quinazolin-4-one derivatives as potential anti-cancer agents" *Royal Society Open Science*, 2019, 6(3), 182046. <a href="https://doi.org/10.1098/rsos.182046">https://doi.org/10.1098/rsos.182046</a>
- **16**) Wael Abdelgayed Ahmed Arafa and Hamada Mohamed Ibrahim "Sustainable and scalable synthesis of polysubstituted bis-1,2,4-triazoles, bis-2-iminothiazolines and bis-thiobarbiturates using bis-*N*,*N*-disubstituted thioureas as versatile substrate" *Royal Society Open Science*, 2019, 6(6), 181963. <a href="https://doi.org/10.1098/rsos.181963">https://doi.org/10.1098/rsos.181963</a>
- **17**) Wael Abdelgayed Ahmed Arafa and Asmaa K. Mourad "New dicationic DABCO-based ionic liquids: a scalable metal-free one-pot synthesis of bis-2-amino-5-arylidenethiazol-4-ones" *Royal Society Open Science*, 2019, 6(7), 190997. https://doi.org/10.1098/rsos.190997
- **18**) Wael Abdelgayed Ahmed Arafa "Sonochemical Preparation of Dipicolinamide Mn-complexes and Their Application as Catalysts towards Sono-synthesis of Ketones" *Journal of Heterocyclic Chemistry*, 2019, *56*(4), 1403-1412. <a href="https://doi.org/10.1002/jhet.3518">https://doi.org/10.1002/jhet.3518</a>
- **19**) Wael Abdelgayed Ahmed Arafa and Hamada Mohamed Ibrahim "A sustainable strategy for the synthesis of bis-2-iminothiazolidin-4-ones utilizing novel series of asymmetrically substituted bis-thioureas as viable precursors" *RSC Advances*, 2018, 8(19), 10516-10521. <a href="https://doi.org/10.1039/C8RA01253A">https://doi.org/10.1039/C8RA01253A</a>
- **20**) Wael Abdelgayed Ahmed Arafa "An eco-compatible pathway to the synthesis of mono and bis-multisubstituted imidazoles over novel reusable ionic liquids: an efficient and green sonochemical process" *RSC Advances*, 2018, 8(29), 16392-16399. <a href="https://doi.org/10.1039/C8RA02755B">https://doi.org/10.1039/C8RA02755B</a>
- **21**) Hamada Mohamed Ibrahim, Wael Abdelgayed Ahmed Arafa and Haider Behbehani "L-Proline catalyzed one-pot synthesis of polysubstituted pyridine system incorporating benzothiazole moiety *via* sustainable sonochemical approach" *RSC Advances*, 2018, 8(66), 37606-37617. <a href="https://doi.org/10.1039/C8RA07013J">https://doi.org/10.1039/C8RA07013J</a>
- **22)** Wael Abdelgayed Ahmed Arafa, Rasha A. M. Faty and Asmaa K. Mourad "A New Sustainable Strategy for Synthesis of Novel Series of Bis-imidazole and Bis-1,3-thiazine Derivatives" *Journal of Heterocyclic Chemistry*, 2018, 55(8), 1886-1894. https://doi.org/10.1002/jhet.3221
- 23) Wael Abdelgayed Ahmed Arafa "Sustainable Catalytic Process with a High Eco-scale Score for the Synthesis of Novel Series of Bischalcones through Claisen–Schmidt Condensation" *Journal of Heterocyclic Chemistry*, 2018, 55(2), 456-464. <a href="https://doi.org/10.1002/jhet.3063">https://doi.org/10.1002/jhet.3063</a>
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- **30**) Ahmed F. Abdel-Magied, **Wael Abdelgayed Ahmed Arafa**, Tanja M. Laine, Andrey Shatskiy, Markus D. Kärkäs, Björn Åkermark and Eric V. Johnston "Substituent Effects in Molecular Ruthenium Water Oxidation Catalysts Based on Amide Ligands" *ChemCatChem*, **2017**, *9*(9), 1583-1587. <a href="https://doi.org/10.1002/cctc.201601382">https://doi.org/10.1002/cctc.201601382</a>
- **31**) Ahmed F. Abdel-Magied, Andrey Shatskiy, Rong-Zhen Liao, Tanja M. Laine, **Wael Abdelgayed Ahmed Arafa**, Per E. M. Siegbahn, Markus D. Kurkus, Bjçrn akermark and Eric V. Johnston "Chemical and Photochemical Water Oxidation Mediated by an Efficient Single-Site Ruthenium Catalyst" *ChemSusChem*, **2016**, *9*(24), 3448–3456. https://doi.org/10.1002/cssc.201601171
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- **33**) Ashery, G. Said, **Wael Abdelgayed Ahmed Arafa**, A.E.H. Gaballah and A.A.M. Farag "Structural and optical characteristics of PEDOT/n-Si heterojunction diode" *Synthetic Metals*, **2016**, 214, 92-99. https://doi.org/10.1016/j.synthmet.2016.01.008
- **34)** Sobhi M. Gomha, Mohamed G. Badrey and **Wael Abdelgayed Ahmed Arafa** "DABCO-catalyzed green synthesis of thiazole and 1,3-thiazine derivatives linked to benzofuran" *Heterocycles*, **2016**, 92(8), 1450-1461. DOI: 10.3987/COM-16-13470
- **35)** Wael Abdelgayed Ahmed Arafa, Mervat F. Fareed, Saleh A. Rabeh and Raafat M. Shaker "Ultrasound mediated green synthesis of rhodanine derivatives: Synthesis, chemical behavior, and antibacterial activity" *PHOSPHORUS*, *SULFUR*, *AND SILICON*, **2016**, 191(8), 1129-1136. https://doi.org/10.1080/10426507.2016.1146276
- **36)** Wael Abdelgayed Ahmed Arafa and Mohamed G. Badry "Facile synthesis of bis-thiosemicarbazone derivatives as key precursors for the preparation of functionalized bis-thiazoles" *Journal of Chemical Research*, **2016**, 40(7), 385-392. <a href="https://doi.org/10.3184/174751916X14639296902648">https://doi.org/10.3184/174751916X14639296902648</a>
- **37) Wael Abdelgayed Ahmed Arafa**, Raafat M. Shaker and Saleh A. Rabeh "Prospective Study Directed to the Synthesis of Symmetrical Linked Bis-Rhodanine Derivatives with their Antimicrobial Activity" *HETEROCYCLES*, **2016**, *92*(7), 1224-1243. DOI: 10.3987/COM-16-13479
- **38)** Wael Abdelgayed Ahmed Arafa and Raafat M. Shaker "Facile green chemistry approaches towards the synthesis of bis-Schiff bases using ultrasound versus microwave and conventional method without catalyst" *ARKIVOC*, **2016**, *iii*, 187-201. <a href="http://dx.doi.org/10.3998/ark.5550190.p009.464">http://dx.doi.org/10.3998/ark.5550190.p009.464</a>

- **39**) Ashraf M. Mohamed, Husam R. M. Al-Qalawi, Wael A. El-Sayed, **Wael Abdelgayed Ahmed Arafa**, Mosaed S. Alhumaimess and Amgad K. Hassan "Anticancer Activity of Newly Synthesized Triazolopyrimidine Derivatives and Their Nucleoside Analogs" *Acta Poloniae Pharmaceutica-Drug Research*, **2015**, 72, 307-318. <a href="https://www.ptfarm.pl/wydawnictwa/czasopisma/acta-poloniae-pharmaceutica/110/-/15574">https://www.ptfarm.pl/wydawnictwa/czasopisma/acta-poloniae-pharmaceutica/110/-/15574</a>
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- **43**) Ramadan M. Abdel-Motaleb, Hadeer M. Bakeer, Gammal H. Tamam and **Wael Abdelgayed Ahmed Arafa** " A Simple and Convenient Synthesis of 4-Ylidene-5(4*H* )oxazolone Derivatives: Oxazolone Ring Transformation Leading to Other Heterocyclic Structures" *Journal Heterocyclic Chemistry*, **2012**, *49*(5), 1071-1076. https://doi.org/10.1002/jhet.938
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- **45**) Sami M. Abdel Azeem, **Wael Abdelgayed Ahmed Arafa** and Mohamed F. El-Shahat "Synthesis and application of alizarin complexone functionalized polyurethane foam: Preconcentration/separation of metal ions from tap water and human urine" *Journal of Hazardous Materials*, **2010**, *182*, 286-294. <a href="https://doi.org/10.1016/j.jhazmat.2010.06.028">https://doi.org/10.1016/j.jhazmat.2010.06.028</a>
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#### **References:**

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	Björn Åkermark	Professor	Stockholm University, Sweden	bjorn.akermark@su.se	
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