europass Curriculum vitae

PERSONAL INFORMATION

Mona Abdel-Rahman Ali

Assiut Universilty, 71516 Assiut (Egypt)

(+2)01223958417

mona.ali1@aun.edu.eg

https://scholar.google.com.eg/citations?user=FLgn200AAAAJ&hl=en

Sex Female | Date of birth 13 Feb 1973 | Nationality Egyptian

JOB APPLIED FOR

Professor of Organic Chemistry (Polymer Chemistry)

EDUCATION AND TRAINING

Mar 2000

M. Sc.

Faculty of Science, Assiut University, Assiut (Egypt)

M.Sc. Thesis in Organic Chemistry " Organic Synthesis " under the title : **" Synthetic Studies on Quinones and Their Derivatives"**

1 Jul 2006

Ph. D.

Faculty of Science, Assiut University, Assiut (Egypt)

Ph.D. Thesis in Organic Chemistry " Polymer Synthesis and Polymer Characterization " under the title : **" Synthetic Studies on Some New Polymers Based on Diarylidenecyclopentanone "**

Dec 2007

Postdoctoral student in ETH Zürich (Swiss Federal Institute of Technology in Zürich)

ETH Zürich (Swiss Federal Institute of Technology in Zürich), Zürich (Switzerland)

http://www.polychem.mat.ethz.ch/people/Alumni/ETHZurich/A-F/MonaA.html

Organic Chemistry, Polymer Synthesis and Characterization

Aug 2009

Postdoctoral student in ETH Zürich (Swiss Federal Institute of Technology in Zürich)

ETH Zürich (Swiss Federal Institute of Technology in Zürich), Zürich (Switzerland)

http://www.polychem.mat.ethz.ch/people/Alumni/ETHZurich/A-F/MonaA.html

Organic Chemistry, Polymer Synthesis and Characterization

Jun 2010

Visiting Scientist in ETH Zürich (Swiss Federal Institute of Technology in Zürich)

ETH Zürich (Swiss Federal Institute of Technology in Zürich), Zürich (Egypt)

http://www.polychem.mat.ethz.ch/people/Alumni/ETHZurich/A-F/MonaA.html

Organic Chemistry, Polymer Synthesis and Characterization

Jul 2015

Visiting Scientist in ETH Zürich (Swiss Federal Institute of Technology in Zürich)

ETH Zürich (Swiss Federal Institute of Technology in Zürich), Zürich (Switzerland)

http://www.polychem.mat.ethz.ch/people/Alumni/ETHZurich/A-F/MonaA.html

Organic Chemistry, Polymer Synthesis and Characterization

Jun 2016

Visiting Scientist in Shanghai University.

Shanghai University, Shanghai (China)

Organic Chemistry, Polymer Synthesis and Characterization

Mar 2013–Apr 2019

Assistant Professor

Faculty of Science, Assiut University, Assiut (Egypt)

Assistant professor of Organic Chemistry (Polymer Chemistry)

Apr 2019–Present

Professor

Faculty of Science, Assiut University, Assiut (Egypt)

Professor of Organic Chemistry (Polymer Chemistry)

PERSONAL SKILLS

Mother tongue(s): Arabic

Foreign language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B2	B2
Deutsch	A2	B1	A2	A2	A2
	Deutsch Language, (G1, G2 and G3).				

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Communication skills: A member in different commeties (related to post graduate students) in Faculty of Science, Assiut University.

Organisational / managerial skills

Membership of Professional Organization and Societies

- The Egyptian Society for Polymer Science & Technology (ESPST).
- The Egyptian Society of Chemistry.

Job-related skills

Research Experiences

- Good theoretical background in general Chemistry “ Organic and Polymers”.
- IR Spectra.
- U.V. Spectrophotometry. .
- Mass Spectra.
- NMR Spectra.
- X-ray diffraction using the powder technique.
- X-ray single crystal (theoretical analysis)
- Thermal Analysis TGA, DTA and DSC.

- Scanning Electron Microscopy SEM.

Digital skills: Independent user, with a high quality in some chemistry programs

Other skills: Love to travel and getting experience from different cultures.

ADDITIONAL INFORMATION

Publications

List of Publications

1. Ahmed S. Hammam, Mohamed S. K. Youssef,* Shaban M. Radwan, **Mona A. Abdel-Rahman**. Synthesis of a New Diels-Alder Quinone Adduct and Its Use in Preparing Thiazolo- and Oxazoloquinolines. ***Bull. Korean Chem. Soc,*** 25, 779 - 785 (2004).
2. Ahmed. S. H ammam, Kamal. I. Aly*, Shaban. M. Radwan, **Mona A. Abdel-Rahman.** Liquid crystalline polymers VIII: thermotropic liquid crystalline poly(hydrazone–ether)s containing bis-thiophene linked to the main chain through spacers of various lengths. ***Journal of Sulfur Chemistry,*** 28, 547–561 (2007).
3. Kamal I. Aly*, **Mona A. Abdel Rahman**, Mahmoud A. Hussein. New Polymer Syntheses Part 53. Novel Polyamides of Diarylidenecycloalkanone Containing Azo Groups in the Polymer Backbone: Synthesis and Characterization. ***International J. of Polymeric Materials,*** 59, 553 – 569 (2010).
4. **Mona A. Abdel-Rahman**, Bernd W. Schweizer, Oleg Lukin, Afang Zhang, A. Dieter Schlüter*. Dendronized Polymers with Aromatic Sulfonimide Dendrons. ***Macromol. Chem. Phys.***, 211, 1538 – 1549 (2010).
5. Kamal I. Aly, Ahmed S. Hammam, Shaban M. Radwan, **Mona A. Abdel-Rahman***. New Unsaturated Copolyesters based on Diarylidenecyclopentanone. Optimum conditions of Synthesis, Characterization and Morphology. ***International Journal of Basic & Applied Sciences IJBAS-IJENS.*** 11, 15-35 (2011).
6. Mahmoud A. Hussein*, **Mona A. Abdel-Rahman**, Ahmed A. Geies. New Heteroaromatic Polyazomethines containing Naphthyridine Moieties: Synthesis, Characterization and Biological Screening. ***J. Applied Polymer Science***, 126, 2 – 12 (2012).
7. Mahmoud A. Hussein*, **Mona A. Abdel Rahman**, Kamal I. Aly. New Polymer Syntheses Part 56: Novel Friedel-Crafts Polyketones Containing Naphthalene Moiety: Synthesis, Characterization and Antimicrobial Activity. ***Journal of Macromolecular Science, Part A: Pure and Applied Chemistry***, A50, 99 – 109 (2013).
8. **Mona A. Abdel Rahman***, Mahmoud A. Hussein. Polyarylidene Containing Saturated Silicon Spacers in the Polymers Main Chain. ***Designed Monomers and Polymers***, 16, 377 – 388 (2013).
9. **Mona A. Abdel Rahman***, Mahmoud A. Hussein, Abd El-wareth A.O. Sarhan, Kamal I. Aly. New Polymer Syntheses Part 57: Thermally Stable New Ferrocene-Polyazomethines, Synthetic Methodology and Characterization. ***J. of Chemistry***, V 2013, 1 – 9 (2013).
10. Ahmed S. Hammam, **Mona A. Abdel-Rahman***, Abdel-Rahman A. Hassan, Osama M. Younis. Synthesis and characterization of pyrrolo[2,3-*f*]indole-3,7-dicarbonitriles. ***International Journal of Advance in Medical Science***, ***In Press, Corrected Proof,*** 1, 11-17 (2013).
11. Ahmed S. Hammam, **Mona A. Abdel-Rahman***, Abdel-Rahman A. Hassan, Osama M. Younis. Synthesis of New Indolizo-pyrido-indole-diones by a one pot three- component reaction. **The Third Scientific Conference for Young Researchers Basics Science & Technology (SCYR), 2011.**
12. Mahmoud A. Hussein, **Mona A. Abdel-Rahman**, Abdullah M. Asiri, Khalid A. Alamry, Kamal I. Aly Review on: liquid crystalline polyazomethines polymers. Basics, syntheses and characterization. ***Designed Monomers and Polymers*****,** 15**,** 431 – 463 (2012).
13. **Mona A. Abdel-Rahman***, Ahmed M. Al-Abd. Thermoresponsive dendrimers based on oligoethylene glycols: Design, synthesis and cytotoxic activity against MCF-7 breast cancer cells. ***European Journal of Medicinal Chemistry***, 69, 848 – 854 (2013).
14. Chiara Gstrein, Baozhong Zhang, **Mona A. Abdel-Rahman**, Oscar Bertran, Carlos Aleman, Gerhard Wegner, A. Dieter Schlüter*. Solvatochromism of dye-labeled dendronized polymers of generation numbers 1– 4: comparison to dendrimers. ***Chemical Science***, 7, 4644 – 4652 (2016).

15. **Mona A. Abdel-Rahman***, Essam M. Hussein, Mahmoud A. Hussein. Synthesis and characterization of novel anti-inflammatory poly(spiro thiazolidinone)s. ***Designed Monomers and Polymers***, 19, 650 – 670 (2016).
16. Chunhua Zhou, **Mona A. Abdel-Rahman**, Wen Li, Kun Liu, Afang Zhang*. Thermoresponsive dendronized copolymers for protein recognitions based on biotin– avidin interaction. ***Chinese Chemical Letters***, 28, 832 -838 (2017).
17. Leon F. Scherz, Engy A. Abdel-Rahman, Sameh S. Ali, A. Dieter Schlüter, **Mona A. Abdel-Rahman*.** Design, synthesis and cytotoxic activity of water-soluble quinones with dibromo-*p*-benzoquinone cores and amino oligo(ethylene glycol) side chains against MCF-7 breast cancer cells. ***MedChemComm***, 8, 662 – 672 (2017).
18. Kamal I. Aly*, **Mona A. Abdel-Rahman**, Amal H. Tolba. Liquid crystalline polymers XV. Synthesis, properties and cytotoxicity of photoresponsive thermotropic liquid crystalline copoly(arylidene-ether)s based on 4-tert-butylcyclohexanone and cyclohexanone moieties in the main chain. ***Liquid crystals***, 45, 187 – 203 (2018).
19. Kamal I. Aly, **Mona A. Abdel-Rahman***, Mona M. Qutai. Photoactive linear and hyperbranched polyesters based on 4-methylcyclohexanone and 4-*tert*-butylcyclohexanone moieties in the main chain: synthetic methodology, characterization and cytotoxicity. ***Journal of Polymer Research***, 2018, **25**, Article 185.
20. Mahmoud A. Hussein, Khalid A. Alamry, Samar J. Almehmadi, **Mona A. Abdel-Rahman**, Kamal I. Aly, Abdullah M. Asiri. History of arylidene polymers from chemistry point of view. MedCrave Group LLC April 25, 2018.
21. Kamal I. Aly*, Nayef S. Al-Muaikel, **Mona A. Abdel-Rahman**, Amal H. Tolba. Liquid crystalline polymers XVI*. Thermotropic liquid crystalline copoly(arylidene-ether)/TiO2 Nanocomposites: synthesis, characterisation and applications. ***Liquid crystals***, Published online: 09 Apr 2019.

Conferences

1. **Micro and Nano Science Platform Industry Day 2008, May 8th 2008, ETH, Zurich.**
2. **The second periodic scientific conference for young researchers - Faculty of Science - Assiut University, 18-19 October 2008.**
3. **The seventh conference for women, scientific research and development in south Egypt - Assiut University, 16-17 April 2009.**
4. **Assiut Univ. 8th International Pharmaceutical Sciences Conference; Assiut, March 14th&15th, 2012.**
5. **2nd International Advances in Applied Physics and Materials Science Congress. Antalya, Turkey.**
6. **The first International Conference on Multidisciplinary Research. Ain Sokhna, Egypt, 28-31 October 2015.**
7. **IBN SINA Conference on Heterocyclic Chemistry and it's Applications ISACHC 2018, Hurghada, Egypt. 30 March- 2 April 2018.**