



## Curriculum Vitae Prof-Dr. Reda Hassanien Professor of applied chemistry

### Personal Information:

**First name:** Reda    **Middle names:** Hassanien Mohamed    **Surname:** Hassanien

- **Date of birth (place):** 28.09.1974 (Assuit, Egypt)
- **Gender:** Male
- **Nationality:** Egyptian
- **Marital state:** Married, two kids (09.08.2002 and 11.11.2003).
- **Military service:** 1997-1998
- **Academic rank:** Professor of applied chemistry
- **Institution:** Department of Chemistry, Faculty of Science, New Valley University, El-Kharja, 72511, Egypt.

### Contact Details:

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### Electronic Identity:

- ResearchGate: [https://www.researchgate.net/profile/Reda\\_Hassanien3](https://www.researchgate.net/profile/Reda_Hassanien3)
- ORCID: <https://orcid.org/0000-0003-2752-435X?lang=en>
- GoogleScholar: [https://scholar.google.com/citations?view\\_op=list\\_works&hl=&user=QIL7FhsAAAAJ](https://scholar.google.com/citations?view_op=list_works&hl=&user=QIL7FhsAAAAJ)
- LinkedIn: [https://www.linkedin.com/feed/?trk=eml-network\\_updates\\_digest-header-1-header~seeAll](https://www.linkedin.com/feed/?trk=eml-network_updates_digest-header-1-header~seeAll)
- EKB: <http://www.ekb.eg/web/guest/login>
- ResearcherID: [F-4177-2019](https://orcid.org/0000-0003-2752-435X)      Scopus Author ID: [25936401100](https://orcid.org/0000-0003-2752-435X)

### Academic Qualifications:

Year	Degree	University	Specialization
2006	Ph. D.	Assiut University	Organic Chemistry
2003	M. Sc.	Assiut University	Organic Chemistry
1996	B. Sc.	Assiut University	Chemistry (very good)

### Academic Positions:

- **1998-2003: Demonstrator at** department of Science and Mathematics, Faculty of Education, Assiut University, New Valley Branch, El-Kharja. 72511, Egypt
- **2003-2006: Assistant Lecturer at** department of Science and Mathematics, Faculty of Education, Assiut University, New Valley Branch, El-Kharja. 72511, Egypt
- **2006-2013: Lecturer at** department of Science and Mathematics, Faculty of Education, Assiut University, New Valley Branch, El-Kharja. 72511, Egypt
- **1/10/2013-2013-16/7/2014: Lecturer at** department of Chemistry, Faculty of Science, Assiut University, New Valley Branch, El-Kharja, 72511, Egypt
- **17 July 2014 to 3 September 2018: Assistant professor at** department of Chemistry, Faculty of Science, Assiut University, New Valley Branch, El-Kharja, 72511, Egypt
- **4 September 2018 – 29 October 2019: Assistant professor at** department of Chemistry, Faculty of Science, New Valley University, El-Kharja, 72511, Egypt
- **30 October 2019 until now: Professor at** department of Chemistry, Faculty of Science, New Valley University, El-Kharja, 72511, Egypt

### Visiting:

- **2008-2011: Associate (Staff guest member):** Chemical Nanoscience Laboratories, School of Chemistry, Newcastle University, Newcastle upon Tyne, NE1 7RU, UK

### Awarded Degrees:

- **M. Sc**  
“Electrochemical reduction of some N-(arylidene)-2-aminopyridine compounds”
- **Ph. D**  
“Studies on the anodic oxidation of some Schiff base compounds”

### Fields of Interest:

- Applied chemistry
- DNA-templated nanowires
- Green chemistry: Plant-mediated nanoparticles
- Organic synthesis & spectroscopic analyses

## Experience:

- Research and Projects
  - E.g., DNA-templated nanowires:

In this project, we are using DNA as a template on which to deposit conductive materials (metals, semiconductors, polymers) to prepare nanometre-thickness wires (nanowires).

- Reviewer in
  - ✓ Applied Organometallic Chemistry
  - ✓ Current Nanomaterials
  - ✓ ChemistrySelect.
  - ✓ Journal of Nanoscience and Nanotechnology Applications (JNNA).
  - ✓ Natural Product Research.
  - ✓ Biotechnology progress.
  - ✓ Journal of Cluster Science.
  - ✓ Current Organic Chemistry.
  - ✓ Pharmaceutical Nanotechnology.
  - ✓ Aquaculture.

## Teaching Courses:

- General chemistry (2)
- Basic principles of organic chemistry
- Aromatic and aliphatic organic chemistry
- Organic reactions mechanism
- Heterocyclic chemistry
- Organic spectroscopy
- Advanced organic chemistry
- Stereochemistry
- Biochemistry
- Applied organic chemistry

## Skills:

### Information technology (IT)

- International Computer Driving License (ICDL) issued by the UNESCO Cairo office (June 2004)

### Training Programs:

- University teacher preparation: October 13-24, 2001
- Dutch: February - April 2004
- Faculty and Leadership Development Project (FLDP):

No.	Program	Period
1	Code of Ethics	June 16-19, 2004
2	Effective Communication Skills	May 9-12, 2005
3	Effective Presentation Skills	October 17-20, 2005
4	Effective Teaching	May 8-11, 2006
5	Use of Technology in Teaching	October 7-9, 2006
6	Recent trend in Teaching	May 28-30, 2007
7	Training for the Large and Mini-teaching	June 5-7, 2007
8	Academic Counselling	March, 2012
9	E-Learning	June 20-21, 2014
10	University Management	August 2-3, 2014
11	Use Technology in Teaching	
12	Legal Aspects in University Environment	August 7-8, 2018
13	Publication of Research in International Journals	August 12-13, 2018
14	Research Ethics	August 19-20, 2018
15	Analytical and Creative Thinking in Teaching	August 19-20, 2018
16		
17		

### Conferences/Seminars:

1. ICPEN 2014: 18<sup>th</sup> International Conference on Precision Engineering and Nanotechnology 2014, 1(12), 480-480. December 04-05, 2014, Penang, Malaysia
2. IEEE SENSORS 2011 CONFERENCE, October 28-31, 2011, Limerick, Ireland
3. The Fourth International Conference on Advances in Mesh Networks (MESH 2011) , August 21-27, 2011, Riviera, Nice/Saint Laurent du Var, France
4. Tenth International Conference on Materials, Chemistry (MC10), July 4-7, 2011 Manchester, UK
5. Chemical Nanoscience Symposium, March 30, 2011, Newcastle University, Newcastle-Upon-Tyne, UK
6. INSAT poster Conference, Hershel building, March 30, 2009, Newcastle University, Newcastle-Upon-Tyne, UK

7. International Conference on Nanotechnology: Opportunities and Challenges, June 17, 2008, King Abdulaziz University, Jeddah, KSA
8. 10<sup>th</sup> Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry (ISIC), February 17 – 20, 2007, Luxor, Egypt
9. 1<sup>st</sup> International Conference for Faculty of Education, New Valley "on Education and Development in New Societies". March 5-6, 2006, New Valley, Egypt
10. 9<sup>th</sup> Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, Egyptian Heterocyclic Chemical Society, December 11 – 14, 2004, Sharm el-Sheikh, Egypt

### Languages

- Mother tongue: Arabic
- Other languages: English

### Scientific Publications:

- [1] Templating Ag on DNA/polymer hybrid nanowires: Control of the metal growth morphology using functional monomers, S.A. Farha Al-Said, R. Hassanien, J. Hannant, M.A. Galindo, S. Pruneanu, A.R. Pike, A. Houlton, B.R. Horrocks, *Electrochemistry Communications*, 11 (2009) 550-553.
- [2] Preparation of 1D nanostructures using biomolecules, S. Pruneanu, L. Olenic, L.B. Tudoran, I. Kacso, S.A.F. Al-Said, R. Hassanien, A. Houlton, B.R. Horrocks, *Journal of Physics: Conference Series*, IOP Publishing, 2009, pp. 012014.
- [3] Preparation and Characterization of Conductive and Photoluminescent DNA-Templated Polyindole Nanowires, R. Hassanien, M. Al-Hinai, S.A. Farha Al-Said, R. Little, L. Šiller, N.G. Wright, A. Houlton, B.R. Horrocks, *ACS Nano*, 4 (2010) 2149-2159.
- [4] Ultra-sensitive hydrogen gas sensing using DNA-templated palladium nanowires, M.A. Hinai, N. Wright, A. Horsfall, R. Hassanien, B. Horrocks, A. Houlton, in: *SENSORS*, 2011 IEEE, 2011, pp. 1-4.
- [5] Smooth and conductive DNA-templated Cu<sub>2</sub>O nanowires: growth morphology, spectroscopic and electrical characterization, R. Hassanien, S.Š. AL-SAI, L. LITTLE, R. WRI HT, N. HO LTON, A. HORRO KS, *BR Nanotechnology*, 23 (2012) 1-12.

- [6] Networks of DNA-templated palladium nanowires: structural and electrical characterisation and their use as hydrogen gas sensors, M.N. Al-Hinai, R. Hassanien, N.G. Wright, A.B. Horsfall, A. Houlton, B.R. Horrocks, *Faraday Discussions*, 164 (2013) 71-91.
- [7] Preparation and electrical properties of a copper-conductive polymer hybrid nanostructure, R. Hassanien, M.M. Almaky, A. Houlton, B.R. Horrocks, *RSC Advances*, 6 (2016) 99422-99432.
- [8] Metal-conductive polymer hybrid nanostructures: preparation and electrical properties of palladium-polyimidazole nanowires, A.-H. Mariam, R. Hassanien, M.D.W. Scott, G.W. Nicholas, H. Andrew, R.H. Benjamin, *Nanotechnology*, 27 (2016) 095704.
- [9] SYNTHESIS OF SOME NEW HETEROCYCLIC COMPOUNDS CONTAINING INDOLE MOEITY, M. Sayed, A.M.K. Eldean, M.M. Ahmed, R. Hassanien, *European Chemical Bulletin*, 6 (2017) 171-176.
- [10] Synthesis and antimicrobial activity of some new thienopyrimidine derivatives, M.S. Tolba, A.M.K. El-Dean, M. Ahmed, R. Hassanien, M. Farouk, *Organic Chemistry*, (2017) 229-243.
- [11] Eco-friendly method to synthesize and characterize 2D nanostructured (1,2-bis(diphenyl-phosphino)ethyl tungsten tetracarbonyl methyl red/copper oxide di-layer thin films, A.F. Al-Hossainy, M.S. Zoromba, R. Hassanien, *Bulletin of Materials Science*, 41 (2018) 80.
- [12] Chemical Design and Toxicity Evaluation of New Pyrimidothienotetrahydro-isoquinolines as Potential Insecticidal Agents, A.M.K. El-Dean, A.A. Abd-Ella, R. Hassanien, M.E.A. El-Sayed, R.M. Zaki, S.A.A. Abdel-Raheem, *Toxicology Reports*, (2018).
- [13] Biosynthesis of copper nanoparticles using aqueous Tilia extract: antimicrobial and anticancer activities, R. Hassanien, D.Z. Husein, M.F. Al-Hakkani, *Heliyon*, 4 (2018) e01077.
- [14] Synthesis of some heterocyclic compounds derived from indole as antimicrobial agents, M. Sayed, A.M. Kamal El-Dean, M. Ahmed, R. Hassanien, *Synthetic Communications*, 48 (2018) 413-421.
- [15] Synthesis, Characterization, and Screening for Anti-inflammatory and Antimicrobial Activity of Novel Indolyl Chalcone Derivatives, M. Sayed, A.M. Kamal El-Dean, M. Ahmed, R. Hassanien, *Journal of Heterocyclic Chemistry*, 55 (2018) 1166-1175.

[16] Design, synthesis, and characterization of novel pyrimidines bearing indole as antimicrobial agents, M. Sayed, A.M. Kamal El-Dean, M. Ahmed, R. Hassanien, *J Chin Chem Soc.* 2019;66:218–225.

[17] Synthesis of New Fused Thienopyrimidines Derivatives as Anti-inflammatory Agents, M.S. Tolba, M. Ahmed, A.M. Kamal El-Dean, R. Hassanien, M. Farouk, *Journal of Heterocyclic Chemistry*, 55 (2018) 408-418.

[18] Synthesis, reactions, and biological study of some new thienopyrimidine derivatives as antimicrobial and anti-inflammatory agents, M.S. Tolba, A.M. Kamal El-Dean, M. Ahmed, R. Hassanien, *Journal of the Chinese Chemical Society*, 0 (2018).

[19] Photocatalytic Study and Anticancer activity of Green-Synthesized Ag Nanoparticles Using Drumstick Leaf Extract, R. Hassanien, A.A.I. Abed-Elmageed, D Z Husein, *Journal of Nanoscience and Nanotechnology Applications*, 3 (2019) 13.

[20] Design, Synthesis, Characterization, and Insecticidal Bioefficacy Screening of Some New Pyridine Derivatives, A.M.K. El-Dean, A.A. Abd-Ella, R. Hassanien, M.E.A. El-Sayed, S.A. A. Abdel-Raheem, *ACS Omega*, 4 (2019) 8406-8412.

[21] Metal-conductive polymer core-shell nanowires: electroless reduction of Pd and Cu on polypyrrole/DNA templates bearing 2-2'-bipyridyl groups, M. M. Almaky, R. Hassanien, W. Clegg, R. W. Harrington, A. Houlton, and B. R. Horrocks, submitted 2020

[22] Green-synthesized copper nano-adsorbents for the removal of pharmaceutical pollutants from real wastewater samples, D. Z. Husein, R. Hassanien, and M.F. Al-Hakkani, *Heliyon*, 5 (8), e02339, 2019.

[23] Multi-perspective CuO@C nanocomposites: Synthesis using drumstick peel as carbon source and its optimization using response surface methodology, T.V. Surendra, S.M. Roopan, D. Devipriya, M.M. Rahman Khan, R. Hassanien, *Composites Part B: Engineering*, 172 (2019) 690-703.

[24] Novel green route to synthesize cadmium oxide@graphene nanocomposite: optical properties and antimicrobial activity, R. Hassanien, D.Z. Husein, and M. Khamis, *Materials Research Express*, 2019. 6(8): p. 085094.

[25] Eco-friendly approach to synthesize selenium nanoparticles: Photocatalytic degradation of sunset yellow azo dye and anticancer activity, R. Hassanien, A.A.I. Abed-Elmageed, D. Z. Husein, *ChemistrySelect*, 4 (31), 9018-9026, 2019.

[26] Design and Synthesis of Novel Indole Derivatives with Antimicrobial Activity and Aggregation-Induced Emission, Mostafa Sayed, Osama Younis, R. Hassanien, Mostafa Ahmed, Ahmed A. K. Mohammed, Adel M. Kamal and Osamu Tsutsumi, *Journal of Photochemistry and Photobiology A: Chemistry*, 383 (2019) 111969.

[27] Dielectric behavior of spark plasma sintered BaTi<sub>0.7</sub>Zr<sub>0.3</sub>O<sub>3</sub> relaxor ferroelectrics, M.M. Ahmad, L. Alismail, A. Alshoaibi, A. Aljaafari, H. Mahfoz Kotb, R. Hassanien, *Results in Physics*, 15 (2019) 102799.

[28] Luminescent coatings: White-color luminescence from a simple and single chromophore with high anticorrosion efficiency, O. Younis, E.E. El-Katori, R. Hassanien, A.S. Abousalem, O. Tsutsumi, *Dyes and Pigments*, 175 (2020) 108146.

### **MSc PhD Research Supervisor**

- More than 8 theses are supervised. (Details can be provided on demand)

### **PhD Research Supervisor**

- Presently Four PhD research scholars supervise. (Details can be provided on demand).