TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO **ID CODE 6068**

I the undersigned asks to participate in the public selection, for qualifications and examinations, for the awarding of a type B fellowship at **Dipartimento di Chimica - Universita' Degli Studi Di Milano**

Scientist- in – charge: **Prof. Fabio Ragaini**

Doaa Reda Mohamed Ramadan

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	**Ramadan**
Name	**Doaa Reda Mohamed**

PRESENT OCCUPATION

Appointment	Structure
Lecturer of Organic Chemistry	**Faculty of Science, Alexandria University, Egypt**

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
Bachelor of Science (B.Sc.)	Chemistry	Alexandria University, Egypt	2013
Master	Chemistry	Alexandria University, Egypt	2017
PhD	Chemistry	Milan University, Italy	2021

REGISTRATION IN PROFESSIONAL ASSOCIATIONS

Date of registration	Association	City
December 2022	ACS: American Chemical Society (Membership No. 33495767)	**Washington D.C., District of Columbia, US**
October 2013	Member of The Syndicate of Scientific Professions	**Cairo, Egypt**

FOREIGN LANGUAGES

Languages	level of knowledge
Arabic	C2 (native speaker)
English	C1

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2017	PhD study grant at **Università degli Studi di Milano**
2013	**University Award for top graduates, Alexandria University, Egypt.**
2013	**Honorary Medal for Academic Excellence, Alexandria University, Egypt.**
2013	**Honorary Shield for graduating as the top student, The Syndicate of Scientific Professions in Alexandria, Egypt.**
2010	**Honorary Shield for Academic excellence, Faculty of Science, Alexandria University, Egypt.**

TRAINING OR RESEARCH ACTIVITY

1- Completed a training program at Alexandria Fertilizers Company, Egypt (2012).

2- Advisor for the ACS student chapter at Faculty of Science, Alexandria University, Egypt (2015-present).

3- Organized National Chemistry Week at Faculty of Science, Alexandria University entitled: Fast or Slow, Chemistry Makes It Go (17-23 October 2021) and presented a lecture entitled: How to speed up a chemical reaction?

4- Supervising the research of 3 PhD students and 3 Master students (2021-present).

a) Drug Discovery: Synthesis, Spectroscopic Studies, and Biological Evaluation of Nitrogenous Heterocycles. (**PhD Thesis**)

b) Rationale design, Synthesis, and Anticancer Evaluation of Novel Nitrogen-Based Heterocyclic Matrix Metalloproteinases Inhibitor. (**PhD Thesis**)

c) Design, synthesis, and biological evaluation of some 1,2,4-triazine derivatives of potential antineoplastic activity. (**PhD Thesis**)

d) Bioactive *N*-heterocyles; Synthesis, characterization, and evaluation. (**Master Thesis**)

e) Synthesis of New Compounds with Multiple Nitrogenous Heterocyclic Moieties and their Biological Assessment. (**Master Thesis**)

f) Pyrazolo(3,4-d)pyrimidines: design, synthesis, in silico studies and exploration of their potential antineoplastic activity. (**Master Thesis**)

5- Teaches the following undergraduate courses:

a) Fundamentals of Organic Chemistry I (course code: 03242)

b) Spectroscopic Techniques for Identification of Organic Compounds (course code: 03342)

6- Supervise the following undergraduate practical courses:

a) Practical Organic Chemistry I: Qualitative Identification of Organic Compounds (course code: 03245)

b) Practical Organic Chemistry II: Separation Techniques of Organic Compounds (course code: 03346)

7- reviewed the following STDF (Science, Technology & Innovation Funding Authority) projects:

a) Sunlight-sensitive enhanced photoactive materials for water purification (SSEPHOMA). STDF: STIFA grant (Egypt-Italy Cooperation Program for Scientific Research - Particular Relevance for Research Projects), January 2023 (Proposal ID: 47535)

b) Development of thin film materials for photo electrocatalytic reduction of CO_2 to fuel. STDF: : STIFA grant (Egypt-Italy Cooperation Program for Scientific Research - Particular Relevance for Research Projects), January 2023 (Proposal ID: 47500)

c) Synthesis of multivalent carbonic anhydrase inhibitors using oligonucleotide platform. STDF: STIFA grant (Egypt-France Cooperation Program (STDF - IFE), September 2023 (Proposal ID: 49296).

8-Supervised over 10 graduation projects of undergraduate students (2021-present).

PROJECT ACTIVITY

Year	Project
2022	**Hybrid Reporter Nanoconjugates as Next Generation Cancer Theranostics. Funded by STDF, Project ID: 46224 (Role: Research Team Member)**
2023	**Green Synthesis of Novel Ferroptosis Inducers Endowed with Enhanced Anticancer Potential via Interaction with Additional Targets. Funded by STDF, Project ID: 48085 (Role: PI)**

CONGRESSES AND SEMINARS

Date	Title	Place
13-16 Feberuary 2015	13th Ibn Sina Conference on Pure and Applied Heterocyclic Chemistry. **(attendance only)**	Hurghada (Egypt)
17-19 July 2018	The XIII Congress of the Interdivisional Group of Organometallic Chemistry of the Italian Chemical Society (Co.GICO 2018) held within the ICOMC 2018. **(poster: P-CO-04)**	Florence (Italy)
31August - 04 September 2019	12th International School of Organometallic Chemistry (ISOC 2019 summer school).**(Poster:36)**	Camerino (Italy)
01-06 September 2020	International School of Organometallic Chemistry (ISOC 2020 summer school), Web edition.**(Poster:11)**	Camerino (Italy)
04-06 May 2021	Cutting-Edge Homogeneous Catalysis (CEHC-1), Web edition. **(Poster:26)**	Toulouse (France)

PUBLICATIONS

Articles in reviews
Synthesis and characterization of novel dimeric *s*-triazine derivatives as potential anti-bacterial agents against MDR clinical isolates, *New Journal of Chemistry*, 2018, 42, 10676-10688. DOI: https://doi.org/10.1039/C8NJ01483C
Palladium/iodide catalyzed oxidative carbonylation of aniline to diphenylurea: Effect of ppm amounts of iron salts, *Journal of Catalysis*, 2019, 369, 257-266. DOI: https://doi.org/10.1016/j.jcat.2018.11.010

Transition Metal Catalyzed Reductive Cyclization Reactions of Nitroarenes and Nitroalkenes, *ChemcatChem*, 2019, 11, 4450-4488.

DOI: https://doi.org/10.1002/cctc.201901065

Electrochemical evaluation of synthesized *s*-triazine derivatives for improving 316L stainless steel for biomedical applications, *Monatsh Chem*, 2019, 150, 1761–177.

DOI: https://doi.org/10.1007/s00706-019-02499-z

Rebuttal to: Polemic against conclusions drawn in "Palladium/iodide catalyzed oxidative carbonylation of aniline to diphenylurea: Effect of ppm amounts of iron salts" J. Catal. 369 (2019) 257–266), *Journal of Catalysis*, 2019, 380, 391-395.

DOI: https://doi.org/10.1016/j.jcat.2019.03.030

Catalytic Reductive Cyclization of 2-Nitrobiphenyls Using Phenyl formate as CO Surrogate: a Robust Synthesis of 9*H*-Carbazoles, *Journal of Catalysis*, 2022, 409, 41-47.

DOI: https://doi.org/10.1016/j.jcat.2022.03.024

A tailored 4G *s*-triazine-based dendrimer vehicle for quercetin endowed with MMP-2/9 inhibition and VEGF downregulation for targeting breast cancer progression and liver metastasis, *currently under submission*.

Congress proceedings

Synthesis of Oxazines by Palladium Catalyzed Reductive Cyclization of Nitroarenes and Dienes Using Phenyl Formate as CO Surrogate, International Conference on Organometallic Chemistry (ICOMC), Florence (Italy), 2018.

Palladium Phenanthroline Complexes as Catalysts for the Synthesis of Oxazines by Reductive Cyclization of Nitroarenes and Dienes Using Phenyl Formate as CO Surrogate, 7th EuChemMS Conference on Nitrogen Ligands, Lisbon (Portugal), 2018.

Synthesis of Carbazoles: Use of Formate Esters as CO Surrogates in the Palladium Catalyzed Reductive Cyclization of 2-Nitrobiphenyls, 20th IUPAC International Symposium on Organometallic Chemistry Directed Towards Organic Synthesis (OMCOS20), Heidelberg (Germany), 2019.

Palladium Catalyzed Reductive Cyclization of Nitrobiphenyls Using Formate Esters as CO Surrogates, 12th International School of Organometallic Chemistry (ISOC), Camerino (Italy), 2019.

Pd/Phen Catalyzed Synthesis of Carbazoles by Reductive Cyclization of 2-Nitrobiaryls: Use of Formate Esters as CO Surrogates, International School of Organometallic Chemistry: Chemistry for Everyday Life (ISOC web edition), Camerino (Italy), 2020.

Synthesis of Carbazoles: Use of Formate Esters as CO Surrogates and Pd/Phen Complexes as Catalysts for Reductive Cyclization of 2-Nitrobiphenyls, Cutting-Edge Homogenous Catalysis (CEHC-1 web edition), Toulouse (France), 2021.

Heterocycles from nitro compounds: CO surrogates in the Pd-catalyzed synthesis of carbazoles, XXVII Congresso Nazionale della Società Chimica italiana (SCI web edition), held virtually, 2021.

The Mystery Behind the Reductive Cyclization Reaction of *o*-Nitrobiphenyls: A Mechanistic Study, 44th International Conference on Coordination Chemistry (ICCC), Remini (Italy), 2022.

Carbon Monoxide Surrogates in the Synthesis of Heterocycles: Reductive Cyclization of Nitrobiphenyls Catalyzed by Palladium/Phenanthroline Complexes, 44th International Conference on Coordination Chemistry (ICCC), Remini (Italy), 2022.

Palladium/Phenanthroline Synthesis of *N*-Heterocycles by Reduction of Nitro Compounds by CO Surrogates: Recent Progress and Mechanistic Studies, XLVIII Congresso Nazionale di Chimica Inorganica (NORG), Pisa (Italy), 2022.

OTHER INFORMATION

Scopus ID: 57204764723
ORCID: 0000-0001-6712-1307
h-index (Scopus): 5
91 *Citations* by 82 *documents*

Declarations given in the present curriculum must be considered released according to art. 46 and 47 of DPR n. 445/2000.

The present curriculum does not contain confidential and legal information according to art. 4, paragraph 1, points d) and e) of D.Lgs. 30.06.2003 n. 196.

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Place and date: Alexandria (Egypt), 01/12/2023