



TO MAGNIFICO RETTORE OF UNIVERSITA' DEGLI STUDI DI MILANO

ID CODE ___6347___

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_____

Scientist- in - charge: _____Prof.ssa Meroni Daniela_____

[Hady Ahmed Ibrahim Hamza]

CURRICULUM VITAE

PERSONAL INFORMATION

Surname	Hamza
Name	Hady Ahmed Ibrahim

PRESENT OCCUPATION

Appointment	Structure
lecturer	Chemistry department- faculty of science- Alexandria university- Egypt

EDUCATION AND TRAINING

Degree	Course of studies	University	year of achievement of the degree
PhD	Industrial chemistry	Milan (Unimi) - Italy	2021
Master	chemistry	Alexandria university - Egypt	2012
B.Sc.	Chemistry (Honor class)	Alexandria university - Egypt	2008

FOREIGN LANGUAGES

Languages	level of knowledge
English	excellent
Italian	Basic
Arabic	native

AWARDS, ACKNOWLEDGEMENTS, SCHOLARSHIPS

Year	Description of award
2017-2021	Ph.D. scholarship in the Chemistry Department at Milano University (UNIMI).
2011-2012	Center of Excellence in Nano-manufacturing Applications (CENA) Scholarship to study M.Sc., Joint supervision between Alexandria University, IMEC (KU-Leuven) Belgium, and King Abdel-Aziz City of Science



2008	Elly plolety Award, Awarded for 1st rank graduated student with distinction of honor
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TRAINING OR RESEARCH ACTIVITY

<ul style="list-style-type: none">▪ IMEC Training courses : Working with P-lines, E-learning: general safety, Wet bench and chemical training, Cleanroom behaviour, Safety care at Imec, Wet bench and chemical training, safely tidying up of chemical, Chemical lab, Contamination basic training, Guided tour of the cleanroom and supported area▪ Familiar with analysis and explanation data of cyclic voltammetry, HNMR, IR, C13, TGA, UV, DRUV, ESR, XRD, EDX, SEM, SIMS, AFM, FIB, and XPS.▪ good communication skills gained through my experience in IMEC (KU-Leuven) Belgium and Milano university in Italy.

PROJECT ACTIVITY

Year	Project
2022	enhancing the adsorption of heavy metal using a natural ligand modified nanocomposite
2017-2021	Pros and cons of nanomaterials: study of Halloysite-based nanocomposites for biomedical/catalytic purposes and evaluation of environmental aquatic toxicity of CeO ₂ nanoparticles
2014-2016	Organic -Inorganic hybrid systems for efficient Dye sensitized solar cell
2011-2013	Thin film Nickel plating for Nickel-based MEMS
2007-2008	Graduation Research Topic: Study different types of Dyes

CONGRESSES AND SEMINARS

Date	Title	Place
2023	A Novel Method of Preparing Dispersed Nano Silica Particles for Enhanced Pozzolanic Effect	International Conference on Recent Innovations in Engineering and Technology (ICRIET) held in London, UK
2019	Different approaches to load SPION inside lumen of halloysite nanotubes	M&Ns-19, Paris
2018	New synthetic strategy for Halloysite-SPION nanocomposites	4th Italian School of Magnetism , Torino
2017	Predicting Stress of Electroplated Nickel Film by Response Surface Method for MEMS Application	1st International Conference of Chemical, Energy and Environmental Engineering, Alexandria, Egypt
2015	Studies on Metal Complexes and Metal Capacity of Newly Synthesized Chelating Resin (2,2'-Ethylenedithio) Diethanol (dpvbs)	1st International Conference on Applied Chemistry (ICAC 2015), Jeddah, Saudi Arabia

PUBLICATIONS

<ul style="list-style-type: none">▪ Hamza, H.; Ferretti, A. M.; Innocenti, C.; Fidecka, K.; Licandro, E.; Sangregorio, C.; Maggioni, D. An Approach for Magnetic Halloysite Nanocomposite with Selective Loading of Superparamagnetic Magnetite Nanoparticles in the Lumen. <i>Inorg. Chem.</i> 2020. https://doi.org/10.1021/acs.inorgchem.0c01039▪ Villa, S.; Maggioni, D.; Hamza, H.; Di Nica, V.; Magni, S.; Morosetti, B.; Parenti, C. C.; Finizio, A.;



Binelli, A.; Della Torre, C. Natural Molecule Coatings Modify the Fate of Cerium Dioxide Nanoparticles in Water and Their Ecotoxicity to Daphnia Magna. <i>Environ. Pollut.</i> 2020, 257, 113597. https://doi.org/https://doi.org/10.1016/j.envpol.2019.113597 .
▪ Morosetti, B.; Freitas, R.; Pereira, E.; Hamza, H.; Andrade, M.; Coppola, F.; Maggioni, D.; Della Torre, C. Will Temperature Rise Change the Biochemical Alterations Induced in <i>Mytilus Galloprovincialis</i> by Cerium Oxide Nanoparticles and Mercury? <i>Environ. Res.</i> 2020, 188, 109778. https://doi.org/https://doi.org/10.1016/j.envres.2020.109778
▪ Della Torre, C.; Maggioni, D.; Nigro, L.; Farè, F.; Hamza, H.; Protano, G.; Magni, S.; Fontana, M.; Riccardi, N.; Chiara, M.; Caruso, D.; Binelli, A. Alginate Coating Modifies the Biological Effects of Cerium Oxide Nanoparticles to the Freshwater Bivalve <i>Dreissena Polymorpha</i> . <i>Sci. Total Environ.</i> 2021, 773, 145612. https://doi.org/https://doi.org/10.1016/j.scitotenv.2021.145612
▪ Nigro, L.; Freitas, R.; Maggioni, D.; Hamza, H.; Coppola, F.; Protano, G.; Della Torre, C. Coating with Polysaccharides Influences the Surface Charge of Cerium Oxide Nanoparticles and Their Effects to <i>Mytilus Galloprovincialis</i> . <i>NanoImpact</i> 2021, 24, 100362. https://doi.org/https://doi.org/10.1016/j.impact.2021.100362 .

OTHER INFORMATION

PERSONAL INFORMATION	<ul style="list-style-type: none">• Hady.hamza@alexu.edu.eg• https://orcid.org/0000-0002-7003-4439
References	<ul style="list-style-type: none">• Prof. Daniela Maggioni-Department of Chemistry- universita degli studi Milano- Italy- (+39) 0250314350- daniela.maggioni@unimi.it• Prof. Alberto Villa- Department of Chemistry- universita degli studi Milano- Italy- alberto.villa@unimi.it• Prof. Camilla Della Torre-Department of Biosciences- University of Milan- Italy- Camilla.dellatorre@unimi.it• Prof. Lucia Carlucci-Department of Chemistry- universita degli studi Milano- Italy- lucia.carlucci@unimi.it• Prof. Ali Eldessouky- Chemistry Department- Faculty of Science- Alexandria University-Egypt aliieldissouky@alexu.edu.eg

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_, __20/01/2024__