

C. V. for Researcher Dr.Moshera Samy





Personal Information

Name:	Moshera Samy Abd El-Aziz Youssef
Gender:	Female
Nationality:	Egyptian
Date of Birth:	29 -8-1984
place of Birth:	Cairo
Marital Status:	Married with three boys
Religion:	Moslem
Work Position:	Researcher
Place of Work:	Polymers and Pigments Department, Chemical Industries Research Institute
	National Research Centre (NRC), El-Behos Street, Dokki, Giza, Egypt.
E-mail Address:	moshera_samy1984@yahoo.com
Tel:	+201012294446/ +201019378886
Current Address:	12 Elemam Elhoseney st. Hadaek Elmaadi, Cairo, Egypt.
Postal address:	Polymers Department- National Research Centre (NRC),
	El-Behos Street 12311 Dokki, Giza, Egypt.

School and Undergraduate Education

1990 – 1996:	Primary School, Egypt.
1996 – 1999:	Preparation School, Egypt.
1999 – 2002:	Secondary School, Egypt.
2002 - 2006:	B.Sc. (Degree of Bachelor of Science): Chemistry & Physics, Faculty
	of Science, Cairo University, Egypt. Graduation Year: May 2006,
	Grade: Very Good.

Postgraduate Education and Academic Qualifications

October 2007:Graduate Courses as a partial fulfillment of the Master degree of
Science, Organic Chem., Department of Chemistry, Faculty of

October 2007: 2007 – 2009:	Science, Cairo University, Giza, Egypt. Passed Successfully Deutsch Course at Cairo University, Cairo, Egypt. Preparation of Cellulose Nanocrystals from Agricultural" Residues and their Use in Bio-nanocomposites": (Research Work in the laboratory of
2009-2011:	advanced Materials and nanotechnology, NRC, Dokki, Giza, Egypt. Preparation of some hyperbranched polymers/layered silicate nanocomposites for some industrial applications. Preparation of some epoxy/ layered silicate nanocomposites for some
2011-till now January 2013:	industrial applications. M.Sc. in Organic chemistry "Preparation and characterization of hyperbranched polymers/ layered silicate nanocomposites for some industrial applications" Faculty of Science, Helwan University, Cairo,
October 2019:	Egypt. Ph.D. in Chemistry "Polymeric Nano-particles: from Preparation to Biomedical Applications" Faculty of Science, Ain Shams University Cairo, Egypt

Position / appointments

2006 - 2008: Contract Specialist at Laboratory of advanced Materials and nanotechnology at centre ofexcellence, NRC, Giza, Egypt.

2006-2015: member of nanotechnology group at the centre of excellence at NRC, Giza, Egypt.

2011 – 2014: Research Assistant at Polymers & Pigments Department, NRC, Giza, Egypt.

2014 -2020: Assistant Researcher at Polymers & Pigments-NRC.

2020 till now: Researcher at Polymers & Pigments-NRC.

Methods and Techniques

1- Synthesis of literature reported or new chemical compounds such as confection compounds, dyes, detergents, perfumes, etc.

2- Trained on HPLC equipment (High Performance Liquid Chromatography equipment).

3- Trained in the centre of "Prevention of environmentally Dangers".

4- Trained in the centre of "Chemistry National Quality Assurance of Egypt".

5- Trained in the medical analysis and Chemical Pathology in "El-Kaser Elaainy Hospital", Cairo, Egypt.

6-Spectroscpic techniques such as FTIR, H-NMR, UV-Vis, XRD, TEM, SEM,

Elemental analysis, GPC, Mass Spectrophotometry, in NRC, Giza, Egypt.

7- Trained in National Research Centre (NRC) on "Occupation Safety and Health" in 2008.

8- (2007-2009). –experience in "Preparation of Cellulose Nanocrystals from Agricultural Residues and their Use in Bio-nanocomposites" (Research Work in the laboratory of advanced Materials and nanotechnology, NRC, Giza, Egypt.

9- Trained in preparation of some of water soluble hyperbranched polymer preparation of nanocomposite of clay and water soluble hyperbranched polymer in 2009. 10- Insertion of hyper branched polymer in clay & preparation of nanocomposite of clay and water soluble hyperbranched polymer and epoxy resin. 11- Trained in National Research Centre (NRC) "Writing Scientific theses" in 2012.

12 - Trained in Amideast Centre (NRC)" TOFEL" 2012.

13- Trained in Training and Capabilities Development Centre, NRC, Giza, Egypt." Photoshope" From 22/4/2012 to 7/5/2012.

14- Traing on all usese of Different Scientific Equipments in Pharmaceutical Technology, Pharmaceutical Division, National Research Center form 23/1/2013 to 23/5/2013.

15-Trained in National Research Centre (NRC) "Writing Scientific" from 16/10/2011 to 20/10/ 2011.

Conferences

1- I am attendant and participate with Speaker in The 2nd National Research Centre International Conference on Science & Sustainable Development 2021under the theme of Scientific Research, Technology, Innovation for Knowledge Creation October 25th-27th, 2021-Virtual Event.

2- I am attendant and participate with Speaker in the International Conference youth science forum , january 14-17, 2021

3-I am attendant and participate with a poster in The 1st NRC –Grenoble INP International Conference on Science and Sustainable Development Under the theme of "There is can never be sustainable development without science" which will be held in September16-18, 2019 at the National Research Centre in Dokki, Cairo, Egypt.

4-**I** am attendant and participate with aposter in 23rd International Symposium "Nanophysics and Nanoelectronics", Nizhny Novgorod, March 11–14, 2019.

5-**I am attendant and participate with aposter in** 4th Edition of International Conference and Exhibition on "Polymer Chemistry" March 28-29, 2019 Rome, Italy. Polym Sci 2019, Volume 5 - DOI: 10.4172/2471-9935-C2-021

6-I am attendant and participate in Second International Scientific Conference of Science Faculty of Science, Ain Shams univrsity "Scientific Innovation and Sustainable Development, SISD'18" Hurghada, October 25-26, 2018.

7-I am attendant and participate in "Women in science without borders initiative ,WISWB", conference organized by Academy of Scientific Research and Technology (ASRT) in collaboration with Scientists for Next Generation (SNG) and Egyptians Yang Academy of Science (EYAS) From 21/03/ 2017 to 23/03/2017.

8-**I am attendant and participate in** "First International Joint Conference on Materials Science, Nanotechnology and Biotechnology: "Future Challenges "National Research Center, Giza, Egypt in January 4-6, 2009.

9-**I am attendant and participate in** First International Conference on Materials Science and Nanotechnology: "Future Challenges" National Research Center, Giza, Egypt in Decamber 4-6, 2007.

Workshops and Seminars

1- **I am attendant and participate in workshop** on "Research Quility and Performance" Organized by Web of Science Groupe and Eyptaion knowledge Bank, NRC,Giza, Egypt in 6/11/2019.

2- I am attendant and participate in workshop on " The Recent Trendsin Flow cytometry and Cell Sorting and its Applications" NRC, Giza, Egypt,23-Janraury,2020.

3-I am attendant and participate in workshop on "X-ray Differaction" NRC, Giza, Egypt,31-Janraury,2020.

4-I am attendant and participate in one day seminar on "Corona disease, etiology and

prevention" NRC, Giza, Egypt, 5-Febraury, 2020.

5-**I** am attendant and participate in workshop on "International Publication of Scientific Articles" NRC,Giza, Egypt in June 24th, 2018.

6-**I am attendant and participate in workshope** on "Application of EndNote" NRC,Giza , Egypt in November 26th, 2018.

7- **I am attendant and participate in workshope** on "Prevention and Eary Detection of Breast Cancer" Second International Scientific Conference of Science Faculty of Science, Ain Shams univrsity Hurghada, October 25-26, 2018.

8- I am attendant and participate in one day workshop on "Nanotechnology: Challenges and Future Aspects" advanced materials and nanotechnology group (AMNTG)-centre of excellence, NRC, Giza, Egypt, 15th of March, 2013.

9- **I am attendant and active participate in workshop** on "Polymeric Nanoparticles for Drug Delivery Systems" in polymers and pigments, NRC, Giza, Egypt, 20 April 2010.

10-I am attendant and participate in one day seminar on "Laser and Nanotechnology" in Physical Division, NRC, Giza, Egypt, 10 June 2009.

11- **I am attendant and participate** in "the 3rd on Materials Science & Nanotechnology-Sustainable Development in Materials Science towards New Applications – "National Research Center, Cairo, Egypt in September 5th 2007.

12- **I am attendant and participate in workshop on** "Laser and Nanotechnology" & Training on preparation gold Nano practical the first discovering for professor Mustafa El said in National Institute for Laser Science, Faculty of Science, Cairo university, 2007.

13 - **I am attendant and participate in the first workshop** on the advanced materials and the nanotechnology in NRC (The relevance between the advanced materials and the nanotechnology), NRC, Cairo, Egypt, November, 26-27, 2006.

Other Activities

1- **Reviewer of** the journal of Polymers and the Environment, Polymer Bulletin, and Egyptian Journal of Chemistry.

2- I have got on Certificate of Merit in "Excellence" from Leadership Development Institute, Helwan from 12/8/2005 to17/8/2005.

3- I am attendant and participate in some Medical convoys, Convoys of small-scale industries.

4-National Party Aldemaqratty Manyal Service.

5- Member of the laboratory of advanced Materials and nanotechnology, Center of Excellence, NRC, Giza, Egypt from 24/9/2006 till 2015.

6-Member of:

a) The community of young researchers in NRC, Giza, Egypt and i am from important participate member.

b) The advanced materials and nanotechnology group (AMNTG) at the centre of excellence in the national research centre (NRC).

c) The Egyptian society of polymers and pigments.

7-I am attendant and participate in "Nasr Company for coke and chemical industries for the basic" and training on Methods of ptrparation Coal and detergents & Knowing the important safety for Methods of preparation "in 30/12/2008.

8-I am attendant and participate in "visiting Nasr Company for Intermediate Chemicals & Knowing the important safety for Methods of preparation, in 6/5/2009.

9-I am attendant and participate and I have got on Certificate from "VEOLIA

ENVIRONMENTAL SERVICECE ", training on methods of preparation of NaCl ,H2SO4, NaOH, Detergent and shaving cream and Mattrjo Knowing the important safty for Methods of preparation Detergent and shaving cream and Mattrjo of NaCl, H2SO4, NaOH in May 2009.

10-Trained in Assay of Drugs by using UV-spectrophotometer Equipment and Determination of release profile water bath shaker Pharmaceutical industries division, National Research Centre 2009.

11-Training several under graduated students of Faculty of science of Cairo,

Helwan and Azher University in the Summer Training at Polymers & Pigments Department – NRC from 1/7/2019 to 11/7/2019 and from 14/7/2019 to 25/7/2019.

Research Interest

1) Preparation of Cellulose Nanocrystals from Agricultural" Residues and their Use in Bio-nanocomposites

2) Synthesis of highly functionalized hyperbranched and other nano-structured polymeric structures via different synthetic routes.

3) Manufacturing of nanocomposites from clay or silica/ hyperbranched polymers for several industrial applications.

4) Curing epoxy resin with hyperbranched polymers.

5) Preparation and characterization of hyperbranched polymers / layered Silicate nanocomposites for some Industrial Applications.

6) Double emulsion method of synthetic biodegradable polymers

7) Ionic gelation of Nature Polymers Such as Chitosan, Chitosan derivative and Sodium Algainate.

8) Studied the effect of different stablizers, concrteration of polymers, and extenders on encapsulation of different drugs into polymers.

9)Studied the drug release profiles fore pure drugs and drugs encapsulated into polymers.

Awards Prize

- National Research Centre (NRC) prize for the best master thesis in applied science 2013.

Languages Skills

Arabic: Mother Tongue

English: Very Good to excellent (written and spoken-TOEFL).

Germany: Good

TOEFL ITP Score: 522 from American University on 19/10/2010.

TOEFL ITP Score: 457 from Amideast on 17/1/2011.

TOEFL TELP Score: 500 from Ain Shams University from Center of Public Serviceand Social Development on 17/5//2015.

IELTS Score: 6.5

Project:

Participate in international/ national research projects as:

- STDF- Egyptian - Russian grants on Design of Biodegrable polymeric drug carriers foranticancer therapy from 1/3/2018 to 22/5/2021.

- Polymeric Nano-particles: from Preparation to Biomedical Applications. (2013-2016).
- Polymer/ layered silicates nanocomposites for vital applications- France/Egypt- 2011-2013.

- US- Egyptian project on preparation of rice-waste reinforced urea-formaldhyde composites with improved moisture resistance, 2008-2013.

- Nanostructured polymer-matrix nano-composites for various industrial applications, 2007-2010.

Award Scholarship

- Award post-doctoral fellowship for 6-month post-doctoral in the frame of the progamme Science by Women, has been approved by my host center, Falcuty of Engineering, **Deusto Institute of Technology** (**DeustoTech**), **Bilbao, Spain** fuunded from Mujures por Africa, sponsor by Diputación Foral de Vizcaya starting from 16/6/2022 to 11/12/2022.

Computer Skills

- DOS, Windows XP, Word, Power Point, Excel, Origin, Photoshop, PDF Creator.
- Normal Internet user. from National Research Center ,Cairo ,Egypt
 Special Software: Isis Draw, Chem. Draw, Diamond Crystal Structure, Ortep Crystal Structure, Win- NMR.
- ICDL (International Computer Driving License).
- Chemistry software (CS ChemOffice and Isis Draw).

References

- -Prof. Dr. Magdy M. H. Ayoub, Head of the polymers department at NRC.
- Prof. Dr. Mohamed M. Eissa at Polymers & Pigments Department at NRC.
- professor Dr.Amal Amin at Polymers & Pigments Department at NRC.

-Prof. Dr. Sameh Hosam Abd El-Alim at pharmaceutical technologyDepartment at NRC.

Publications

- 1. Poly(ester-amine) hyperbranched polymer as toughening and co-curing agent for epoxy/clay nanocomposites, Mohamed M. Eissa, Moshera S.A. Youssef, A.M. Ramadan, Amal Amin, Journal of polymer engineering and science, 53, 1011-1020, 2013.
- of 2. Preparation and characterization some hyperbranched polyesteramides/ montomorillonite nanocomposites- Amal Amin and Moshera Samy, International Journal of Polymer Science, Vol. 2013, Article ID: 528468, http://dx.doi.org/10.1155/2013/528468.

- 3. Using of hyperbranched poly (amidoamine) as a novel pre-tanning agent for leather, Amal Amin Ibrahim, Moshera S. A. Youssef, El-Shahat H. A. Nashy, and Mohamed M. Eissa, International Journal of Polymer Science, Volume 2013, Article ID: 120656, http://dx.doi.org/10.1155/2013/120656, 2013.
- 4. Amino-terminated hyperbranched polymer for toughness improvement of epoxy/clay nanocomposites. Mohamed M. Eissa, Moshera S.A. Youssef, A.M. Ramadan, Amal Amin, Polymer Bulletin, 72(12), 3147-3168 (2015), DOI 10.1007/s00289-015-1458-5.
- 5. Assessment of formulation parameters needed for successful vitamin C entrapped polycaprolactone nanoparticles, Amal Amin, Moshera Samy, Sameh Hosam Abd El-Alim, Abd El Gawad Rabia and Magdy M. H. Ayoub, International Journal of Polymeric Materials and Polymeric Biomaterials, 67 (16), 942–950, (2018).
- 6. Comparative Study of Polymer Nanoparticles on the Basis of Caprolactone–Polyvinyl Alcohol Mixtures with an Encapsulated Antitumor Preparation by Atomic Force Microscopy, X-Ray Diffraction, and Dynamic Light Scattering, T. E. Sukhanova, M. E. Vylegzhanina, A. Ya. Volkov, E. R. Gasilova, A. A. Kutin, Moshera Samy, Heba M. Abdallah and Magdy M. H. Ayoub, Technical Physics, 2019, Vol. 64, No. 12, pp. 1729–1737.
- Eco-Friendly Route for Encapsulation of 5-Fluorouracil into Polycaprolactone Nanoparticles, Moshera Samy, Heba M. Abdallah, Magdy M.H. Ayoub, M.E. Vylegzhanina, A.Ya.Volkov, T.E. Sukhanova, Egyption Journal of Chemsitry, 63(1), 2020.
- Formulation, characterization and in vitro release of 5-Fluorouracil encapsulated chitosan nanopaerticles, Moshera Samy, Sameh Hosam Abd El-Alim, Abd El Gawad Rabia, Amal Amin and Magdy M. H. Ayoub, International Journal of Biological Macromolecules 156, 783–791, (2020).
- In vitro release and cytotoxicity activity of 5-fluorouracil entrapped polycaprolactone nanoparticles, Moshera Samy, Heba M. Abdallah, Hanem M. Awad and Magdy M. H.

Ayoub, Polymer Bulletin, 1-27(2021).

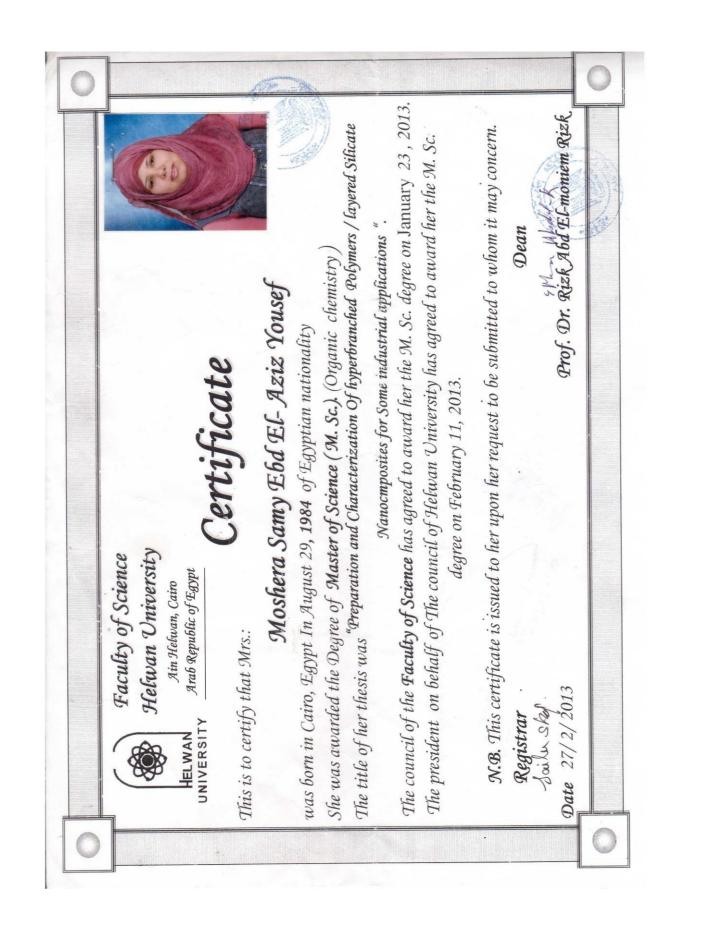
- 10. Gallate ester of castor oil as a multifunctional additive in HAF carbon black–filled natural rubber composites, Heba Kandil , **Moshera Samy**, Doaa E. El Nasher, **Journal of Vinyl and Additive Technology**, (2021)DOI: 10.1002/vnl.21886
- Preparation, Characterization and In vitro Biological activity of 5-Fluorouracil Loaded onto poly (D, L-lactic-co-glycolic acid) Nanoparticles, Moshera Samy, Heba M. Abdallah, Hanem M. Awad and Magdy M. H. Ayoub, Polymer Bulletin, (2022) DOI: <u>10.1007/s00289-022-04308-w</u>

Hope my C.V. will fulfills your needed criteria

Scientific Certificate

ARAB REPUBLIC OF EGYPT وزارة خار AIN SHAMS UNIVERSITY ertificate Certified Facul EGYPT Man 501 110 11 11 Date: 6 10/2019 Moshera Samy Abd El- Aziz Youssef //) Name of Student Degree Awarded Ph. D. in Chemistry // Polymeric Nano- Particles: from Preparation to Subject of Study **Biomedical Applications//** 9/9/2019 Faculty Approval University President Approval on 3/10/2019 **University** Approval on Mandate of the University Council on 30/9/2019 27 Ahime 19 A ANS UNIVERSITY KY 2Y Registrar Revisor Director of the Department yiana 10-10 10-2019 Dean EAUDIAAAE96895 The Faculty is Certified From ity Assurance & Accreditation Resolution No., 157 On 15/8/2016 y

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CERTIFICATE

This is to certify that: Moshera Samy Abd El Aziz Youssef

Born in: Cairo On: 29/8/1984

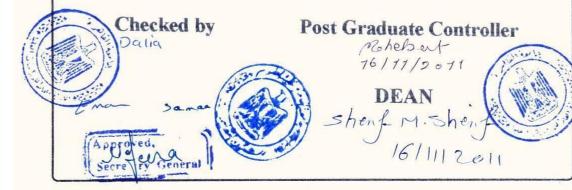
Nationality: Egyptian

has completed the Pre-Master course work on Oct. 2007

In: Chemistry (Organic)/ Department of Chemistry

The Student has successfully passed the German Language on Oct. 2007

This Certificate has been issued upon the candidate's request.









Bilbao, 23 de Marzo de 2022

Estimada Dra. Moshera Samy,

Nos es grato comunicarle esta invitación para realizar su estancia de investigación en el Instituto Tecnológico Deusto (DeustoTech) de la Facultad de Ingeniería en la Universidad de Deusto, Bilbao (España), por el periodo comprendido entre el 16 de Mayo de 2022 y el 11 de Noviembre de 2022, según las disposiciones de movilidad internacional que en dicho momento se encuentren vigentes. Nos complace acogerle en nuestra comunidad académica, a fin de que avance en su investigación sobre "Caracterización y análisis de policaprolactona (PCL) y su aplicación en biosensores" en colaboración con nuestro equipo Applied Mechanics dirigido por M^a Jesús Elejabarrieta.

Será un placer contar con su colaboración, no dude en contactarme si necesita algún otro documento para formalizar su estancia.

Atentamente,

DeustoTech Universidad de Deusto Deustuko Unibertsitatea University of Deusto

M^a Jesús Elejabarrieta Investigadora Principal Applied Mechanics Juan Ignacio Vázquez Gómez Director de DeustoTech



Madrid, 11 May 2022

TO NATIONAL RESEARCH CENTER

I hereby certify that Dr. Moshera Samy Abd El-Aziz Youssef (PhD. RD.), Researcher at Polymers and Pigments Department, National Research Centre, has been awarded a six-month fellowship for research at DeustoTech, Bilbao, Spain.

The fellowship has been granted within the frame of the 7th edition of the program SCIENCE BY WOMEN, promoted by Women for Africa Foundation (Madrid, Spain) with the aim to enhance African women's leadership and technology transfer and to foster the capacity of the research centers and universities in their home countries.

The fellowship includes a two-way ticket and a gross monthly allowance of 2.400 euros to cover accommodation, personal expenses as well as health and repatriation insurance.

As visiting researcher at DeustoTech, Dr. Moshera Samy Abd El-Aziz Youssef, will be entitled to use all general facilities and services available to DeustoTech researchers. The host group will put its best efforts, as far as consistent with available resources, to make sure that she will be able to conduct her research project under optimal conditions.

Anna Fumarola

Senior Project Manager

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SAMY ABD EL-AZIZ YOUSSEF, MOSHERA

ha participado en el curso:

CIENTÍFICAS AFRICANAS POR EL DESARROLLO SOSTENIBLE: PROPUESTAS Y DESAFÍOS / AFRICAN WOMEN SCIENTISTS FOR SUSTAINABLE DEVELOPMENT: PROPOSALS AND CHALLENGES

dirigido por D^a Anna Fumarola en San Lorenzo de El Escorial entre el 04/07/2022 y el 04/07/2022, con una duración de 6 horas.

Fundación General

JOAQUÍN GOYACHE Rector Universidad Complutense de Madrid

MIGUEL ÁNGEL CASERMEIRO Subdirector

Fundación Complutense











A CALL THE AND	Ministry of Health & National Informatio	on Center
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