

PERSONAL INFORMATION



Fouad Zahran

📍 Chemistry Department, Faculty of Science, Helwan University, Cairo, Egypt.

☎ +20225559000- ex 1803 📠 +201114269300

✉ f.zahran@gmail.com , f.zahran@quim.ucm.es, fouad_zahran@science.helwan.edu.eg

🌐 http://www.researchgate.net/profile/Fouad_Zahran

📞 Whatsapp +201114269300

Sex Male | Date of birth 10/05/1982 | Nationality Egyptian

POSITION

Assistant professor of physical chemistry

WORK EXPERIENCE

November 2015 – May 2016

Postdoctoral Researcher

Instituto de Investigación en Ciencias de la Alimentación (CIAL), Madrid, Spain.

- Line of investigation: supercritical fluid extraction of essential oils.

June 2012 – Up to date

Assistant professor

Chemistry department, Faculty of Science, Helwan University, Egypt.

- Line of investigation: high pressure separation processes and Waste management.
- Lecturer of Physical Chemistry:
 - General Physical Chemistry.
 - Chemical Kinetics.
 - Phase Equilibria.
 - Colloid and Surface Chemistry.

October 2012- June 2014

Vice-manger

Quality assurance unit, Faculty of Science, Helwan University, Egypt.

March 2009- June 2012

Researcher

Physical chemistry department, Faculty of chemistry, Complutense university of Madrid, Spain

- Investigation of micronization of particles using supercritical antisolvent Technology and the role of phase behaviour.

Jan 2004 – March 2009

Assistant Researcher

Chemistry department, Faculty of Science, Helwan University, Egypt.

- Line of investigation: Electrochemical recovery of precious metals and Waste management.
- Demonstrator of practical Chemistry:
 - Physical Chemistry: properties of matter, Determination of basic thermodynamic parameters, phase equilibria, chemical kinetics, Electrodeposition and electroplating, conductometry.
 - Inorganic Chemistry: semi-microanalysis, complex formation.
 - Analytical Chemistry: quantitative analysis and Instrumentations.
 - Organic Chemistry: qualitative analysis, determination of function groups and dyes.

EDUCATION

March 2009 – June 2012

PhD in Advanced Chemistry

Physical chemistry department, Faculty of chemistry, Complutense university of Madrid, Spain

- Co-precipitation of polymer + pain killer drugs using supercritical anti solvent technology.
- Micronization of particles using supercritical anti solvent technology.
- Assembling Supercritical antisolvent device.
- Phase behaviour of non-polar organic solvent + Supercritical carbon dioxide.

June 2006 – March 2009

Master in Applied chemistry

Chemistry department, Faculty of Science, Helwan University, Egypt.

- Electrochemical recovery of palladium from spent catalyst.

September 2004 – May 2005

Pre-Master in Applied chemistry

Chemistry department, Faculty of Science, Helwan University, Egypt.

- Industrial business administration, chemical technology and unit operations.
- Industrial chemistry.
- Solid waste management.
- Molecular biology, cell biology and biotechnology.
- Studies in mathematics and Computer.
- Advanced physicochemical studies, surface and colloidal chemistry.
- Advanced analytical and Environmental chemistry.

September 1999 – May 2003

BSc in chemistry

Chemistry department, Faculty of Science, Helwan University, Egypt.

TRAINING

February 2011

Diploma in Safe use of gas installations

PRAXAIR Company with participating of Complutense University of Madrid (UCM) Spain.

- Safe use of high pressure gas installations.

October 2008

Diploma of ,TOT, Training of Trainers

Pathways project of Ford Foundation and Helwan University, Cairo, Egypt.

- Certified trainer.

August 2002

Basic training

Egyptian Petroleum Research Institute, Cairo, Egypt.

July 2002

Basic training

The Petroleum Projects and Technical Consultation C0 (Petrojet), Port Said, Egypt.

June 2001 –August 2001

Basic training

Naser City O.P Clinic Lab, Cairo, Egypt.

PERSONAL SKILLS

Mother tongue(s)

Arabic

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	C1	C2
TOEFL 525, June 2006					
Spanish	A2	A2	A2	A2	A2
level 2					

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills ▪ Very good communication skills gained through my experience as lecturer and as a member in international and national research teams.

Organisational / managerial skills Vice- manager of Quality Assurance Unit
▪ leadership (was responsible for a team of 29 people)

Professional skills ▪ Very good command of high pressure equipment, lab and pilot scale.
▪ Very good command of SEM, DSC and TGA software.
▪ Very good command of Origin.
▪ Very good command of Microsoft Office™ tools.

Other skills ▪ Electrical connections and circuits.

Driving licence ▪ 8 years old personal licence.

ADDITIONAL INFORMATION

Publications

- F. Zahran, C. Pando, A. Cabañas and J.A.R. Renuncio, Dissolution rate enhancement of the anti-inflammatory drug diflunisal by coprecipitation with a biocompatible polymer using carbon dioxide as a supercritical fluid antisolvent, J. of Supercritical Fluids 88 (2014) 56– 65. [5 years Impact factor = 3.145]
- F. Zahran, C. Pando, A. Cabañas and J.A.R. Renuncio, Excess molar enthalpies for mixtures of supercritical CO2 and ethyl acetate and their role in supercritical fluid applications, J. of Chemical Thermodynamics 51 (2012) 59–64. [5 years Impact factor = 2.173]
- F. Zahran, C. Pando, A. Cabañas and J.A.R. Renuncio, Role of excess molar enthalpies in supercritical antisolvent micronizations using dimethylsulfoxide as the polar solvent, J. of Supercritical Fluids 60 (2011) 45– 50. [5 years Impact factor = 3.145]
- F. Zahran, C. Pando, J.A.R. Renuncio and A. Cabañas, Excess molar enthalpies of CO2 + acetone at pressures from (9.00 to 18.00) MPa and temperatures from (313.15 to 333.15) K, J. Chemical Engineering Data 55 (2010), pp. 3649–3654. [5 years Impact factor = 1.965]
- F. Zahran, C. Pando, A. Cabañas and J.A.R. Renuncio, Measurements and modeling of high-pressure excess molar enthalpies and isothermal vapor–liquid equilibria of the carbon dioxide + N,N-dimethylformamide system, J. Supercritical Fluids 55 (2010), pp. 566–572. [5 years Impact factor = 3.145]
- M.A. Barakat , G.A. EL-Mahdy, M.Hegazy, F.Zahran, Hydrometallurgical Recovery of Nano-Palladium from Spent Catalyst, The Open Mineral Processing Journal, 2 (2009) 31-36. [open access]

Projects

- "Formulación de productos para la nutrición personalizada de enfermos de cáncer gástrico (AGL2013-48943-C2-1-R) " [November 2015- April 2016]. Entidad financiadora: MINECO.
- "Síntesis y micronización de materiales utilizando fluidos supercríticos (CTQ2009-09707)" [January 2009- December 2010] Entidad financiadora: Santander- Universidad Complutense de Madrid, Spain.
- "Precipitación de micro y nanopartículas utilizando CO₂ supercrítico como agente antisolvente. Efecto de la presión y temperatura y efectos energéticos (PR34/07-15789) " [March 2009- June 2010] Entidad financiadora: Ministerio de Ciencia e Innovación (MICINN) Spain.
- "Development of Certified Chemistry Education at Helwan University, Integration of Theory, Experiment and Learning resources (B-143-KO) " [March 2004 – February 2006] Helwan University, Cairo, Egypt.

Conferences

- F. Zahran, A. Cabañas, J. A. R. Renuncio, C. Pando, Amorphization of low soluble drug by SAS coprecipitation with biocompatible polymer.
Type of participation : oral
Conference: 6ª Reunión de Expertos en Tecnologías de Fluidos Comprimidados (FLUCOMP).
Publication: Proc. 6ª Reunión de Expertos en Tecnologías de Fluidos Comprimidados
Place : Madrid (Spain)
Date: 28-29 June 2012.
- F. Zahran, D. Martín, A. Cabañas, J. A. R. Renuncio, C. Pando, Supercritical micronization (SAS) of 5-Fluorouracil and coprecipitation with PVP.
Type of participation : Poster
Conference: 6ª Reunión de Expertos en Tecnologías de Fluidos Comprimidados (FLUCOMP).
Publication: Proc. 6ª Reunión de Expertos en Tecnologías de Fluidos Comprimidados
Place : Madrid (Spain)
Date: 28-29 June 2012.
- F. Zahran, C. Pando, A. Cabañas, J. A. R. Renuncio, Construction and Validation of a Lab Scale SAS Apparatus.
Type of participation : Poster
Conference: 5ª Reunión de Expertos en Tecnologías de Fluidos Comprimidados (FLUCOMP).
Publication: Proc. 5ª Reunión de Expertos en Tecnologías de Fluidos Comprimidados
Place : Burgos (Spain)
Date: 15-17 June 2011.
- F. Zahran, C. Pando, A. Cabañas, J. A. R. Renuncio, Excess Molar Enthalpies of CO₂ + Ethyl Acetate at Pressure and Temperature Conditions used in the SAS Micronization.
Type of participation : Poster
Conference: 5ª Reunión de Expertos en Tecnologías de Fluidos Comprimidados (FLUCOMP).
Publication: Proc. 5ª Reunión de Expertos en Tecnologías de Fluidos Comprimidados
Place : Burgos (Spain)
Date: 15-17 June 2011.
- C. Pando, A. Cabañas, F. Zahran, J. Morere y J.A.R. Renuncio , molar enthalpies for the CO₂ + organic polar solvent mixtures involved in SAS micronizations.
Type of participation : oral
Conference: 9th Conference on Supercritical Fluids and Their Applications.
Publication: Proc. 9th Conference on Supercritical Fluids and Their Applications (pg. 183-186).
Place : Sorrento (Italy)
Date: 5-8 September 2010.
- F. Zahran, C. Pando, A. Cabañas, J. Morere y J.A.R. Renuncio, Sistema CO₂ + acetona: propiedades termodinámicas en las condiciones de presión y temperatura utilizadas en la micronización SAS.
Type of participation : poster
Conference: 4ª reunión de expertos en tecnologías de fluidos comprimidados (FLUCOMP).
Publication: Proc. 4ª reunión de expertos en tecnologías de fluidos comprimidados
Place : Ciudad Real (Spain)
Date: 10-12 Febrero 2009.

- C. Pando, A. Cabañas, F. Zahran, J. Morere y J.A.R. Renuncio, Entalpías Molares de Exceso de las mezclas CO₂ + disolvente orgánico polar utilizadas en las micronizaciones SAS.
Type of participation : oral
Conference: 4^a reunión de expertos en tecnologías de fluidos comprimidos (FLUCOMP).
Publication: Proc. 4^a reunión de expertos en tecnologías de fluidos comprimidos
Place : Ciudad Real (Spain)
Date: 10-12 Febrero 2009.

Honours and awards

- [May 2003] a shield from Egyptian Syndicate of Scientific Professions for being the premium of the chemistry group during the collage study.

ANNEXES

- Available upon required