

ALI KAROUT
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HIGHLIGHTS OF QUALIFICATIONS

Personal Skills:

- ❖ Detail-orientated and organized.
- ❖ Reliable and responsible.
- ❖ Able to work independently and as a productive team member.
- ❖ Critical thinker with a willingness to learn.
- ❖ Fast learner
- ❖ Knowledge of the following techniques of characterization in chemistry: GC chromatography, UV-Visible spectroscopy, IR spectroscopy, X-ray diffraction, textural analysis by nitrogen sorption, NMR, SEM, TEM
- ❖ Trilingual: English, French, and Arabic.
- ❖ Knowledge of Microsoft Office (Excel, Word, Microsoft Teams, PowerPoint).

PROFESSIONAL EXPERIENCE

2008-2022 Associate/Full Professor, Lebanese University-Lebanon

- ❖ Supervised/Co-supervised 6 master's Students and 2 Ph.D. Students.
- ❖ Co-Author of 12 publications, and 10 conference papers.
- ❖ Obtained funds for research projects.
- ❖ Established collaboration with research labs in France and Lebanon.
- ❖ Conducted chemical research in the fields of sol-gel chemistry, catalysis, and green chemistry.
- ❖ Monitored students' progress and provided feedback for improvement.

2008-2014 Associate Professor, Lebanese International University-Lebanon

- ❖ Experienced in teaching Chemistry courses to undergraduate and graduate students including General Chemistry, Inorganic Chemistry, Coordination Chemistry, Group Theory for Chemists, Crystal Chemistry, Thermodynamics, and Green Chemistry.
- ❖ Developed and revised course material and curriculum.
- ❖ Conducted and graded students' exams.
- ❖ Facilitated class discussions to provide quality learning experiences.
- ❖ Maintained students' attendance and progress records.
- ❖ Conducted chemical experiments in the laboratory.
- ❖ Guided students on how to write reports and technical papers detailing processes, products, and tests used during experimentation.

2007-2008 Temporary Lecturer and Research Assistant, Claude Bernard University- Lyon I- France

EDUCATION

2004– 2007

❖ **Ph.D. in Chemistry, IRCELyon, Claude Bernard University- Lyon I- France (MENRT Scholarship)**

(Authenticated in Canada by WES as an earned doctorate)

Research project: Study of the Encapsulation of Soybean Lipoxygenase in Inorganic and Hybrid Aerogels -Use as a Biocatalyst in the Synthesis of Fine Organic Chemical Compounds (oxidation of polyunsaturated fatty acids).

2003-2004

Master II In Inorganic Chemistry (DEA), Claude Bernard University- Lyon I- France

(Authenticated in Canada by WES as a Master's degree)

1999-2003

Bachelor's Degree in Chemistry, Lebanese University

(Authenticated in Canada by WES as a Bachelor's degree (four years))

PUBLICATIONS

Journal Papers

- ❖ A Dandach, B Russbuedt, J Toufaily, **A Karout**, T Hamieh, N Essayem “**Mesoporous Zirconium Oxide Prepared by Anchoring W, Mo, Nb, Ta Using Peroxo Precursors: Influence of the Oxoanions on the Pores Size and the Hydrothermal Catalysts Stability**” *Catalysis Letters*, 1-10, 2022
- ❖ Rana Jaber, Mohammad Mahdi A. Shirazi, Joumana Toufaily, Tayssir Hamieh, Afifa Nouredin, Hossein Ghanavati, A. Ghaffari, A. Zenouzi, **Ali Karout**, A.F. Ismail, Meisam Tabatabaei “**Biodiesel wash-water reuse using microfiltration: toward zero-discharge strategy for cleaner and economized biodiesel production**” *Biofuel Research Journal*. 5, 148-151, 2015
- ❖ Afifa Nouredina, Mohammad Mahdi A. Shirazi, Joumana Toufaily, Pezhman Kazemi, Elahee Motaee, Ali Kargari, Mostafa Mostafaei, Mandana Akiae, **Ali Karout**, Rana Jaber, Tayssir Hamieh, Meisam Tabatabaei “**Accelerated decantation of biodiesel–glycerol mixtures: Optimization of a critical stage in biodiesel biorefinery**” *Separation and Purification Technology*. 132, 272-280, 2014
- ❖ Mariam Karaki, **Ali Karout**, Joumana Toufaily, Franck Rataboul, Nadine Essayem and Bénédicte Lebeau “**Synthesis and characterization of acidic ordered mesoporous organosilica SBA-15: Application to the hydrolysis of cellobiose and insight into the stability of the acidic functions**” *Journal of Catalysis*. 305, 204–216, 2013.

- ❖ Joumana Toufaily, Bachar Koubaissy, Lina Kafrouny, Hussein Hamad, Patrick Magnoux, **Ali Karout**, Leila Ghannam, Hassan Hazimeh, Ghinwa Nemra, Moustafa Hamieh, Nawal Ajouz, Tayssir Hamieh **“Functionalization of SBA-15 Materials for the Adsorption of Phenols, from Aqueous Solution”** *Central European Journal of engineering*. 3(1), 126-134, 2013.
- ❖ **Ali Karout** and Alain C.Pierre **“Partial Transesterification of Sunflower Oil With Ethanol by a Silica Fiber Reinforced Aerogel Encapsulated Lipase”** *Journal of Sol-Gel Science and Technology*. 59(2), 276-286, 2009.
- ❖ **Ali Karout** and Alain C.Pierre **“Porous Texture of Silica Aerogels Obtained With Ionic Liquids as Gelation Catalysts”** *Journal of Sol-Gel Science and Technology*. 49(3), 364-372, 2009.
- ❖ **Ali Karout** and Alain C.Pierre **“Silica Gelation Catalysis by Ionic Liquids”** *Catalysis Communication*. 10(4), 359-361, 2009.
- ❖ Salim Nassreddine, **Ali Karout**, Lorraine Christ and Alain C. Pierre **“Transesterification of a Vegetal Oil with Methanol by a Silica Fibre Reinforced Aerogel Encapsulated Lipase”** *Applied Catalysis A: General*. 344(1-2), 70-77, 2008.
- ❖ **Ali Karout** and Alain C.Pierre **“Silica Xerogels and Aerogels Synthesized with Ionic Liquids”** *Journal of Non-Crystalline Solids*. 353 (30-31), 2900-2909, 2007.
- ❖ **Ali Karout**, Claude Chopard and Alain C.Pierre **“Immobilization of a Lipoxygenase in Silica Gels for Application In Aqueous Medium”** *Journal of Molecular Catalysis-B: Enzymatic*. 44, 117-127, 2007.
- ❖ **Ali Karout**, Paulette Buisson, Alain Perrard and Alain C.Pierre **“ Shaping and Mechanical Reinforcement of Silica Aerogel Biocatalysts with Ceramic Fiber Felts ”** *Journal of Sol-Gel Science and Technology*. 36, 163-171, 2005.

N.B: References available upon request.