

ZAHİ ALI KHALİL

PhD in Chemical Engineering,
Associate Professor at Beirut Arab University (BAU) &
Former Associate Professor at the Lebanese University

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✉ Makassed street, Nabatieh, Lebanon 📍 Nabatieh, Lebanon
🌐 08.08.1959 in Zrayieh



ACADEMIC EXPERIENCE

Chemistry Professor

Beirut Arab University- Engineering Faculty

📅 2023– Ongoing 📍 Beirut, Lebanon

In Chemical & Petroleum Program & Faculty Council Member

Chemistry Professor

Lebanese University - Faculty of Sciences

📅 2001– 2023 📍 Beirut & Nabatieh, Lebanon

Supervision of M.Sc. and PhD students, and participation in committees and juries

Lebanese University - Faculty of Sciences and Doctoral School of Science and Technology (DSST)

📅 2001– Ongoing 📍 Beirut & Nabatieh, Lebanon

- Inorganic and Organometallic Coordination Chemistry Laboratory (IOCL)
 - Platform for Research and Analysis in Environmental Sciences (PRASE)
 - Doctoral School of Science and Technologie
 - Research laboratory on Materials, Catalysis, Environment and Analytical Chemistry (MCEMA)
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Chemistry Professor

Lebanese International University Arts & Sciences Faculty

📅 2005– 2012 📍 Saida & Beirut, Lebanon

Chemistry Professor

Ivorian University /Faculty of Sciences

📅 1987– 2000 📍 Abidjan - Ivory Coast

EXPERIENCE IN POWER GENERATION, CHEMICAL PROCESSES, CHEMICAL ANALYSIS & ENVIRONMENTAL FIELDS

Environment & Chemistry Head department

Zahrani power plant- AbouElFouz Company

📅 2011– 2014 📍 Zahrani, Lebanon

Environment & Chemistry Head department

Zahrani power plant- KELECO Company

📅 2006– 2011 📍 Zahrani, Lebanon

Site Representative

Zahrani power plant- PSM Company

📅 2000– 2006

📍 Zahrani, Lebanon

EXPERIENCE IN MANAGEMENT & CHEMICAL INDUSTRY

General Manager and Owner

SERIM Company

📅 1987– 2000

📍 Abidjan –Ivory Coast

Production of Flexographic inks & Plastic Items

General Manager and Owner

CARENA Company

📅 1992– 1995

📍 Lagos – Nigeria

Production of Chemical Products

General Manager and Owner

Polycolor

📅 2000– 2005

📍 Ghazieh – Lebanon

Producing & Recycling pigments of plastic

ENVIRONMENTAL CONSULTANCY

Yamen Contracting

📅 2021- 06/2023

📍 Lebanon

Road construction and rehabilitation
Collect and treat municipal solid waste

Green Eco-Tech

📅 2013-2018

📍 Lebanon

Treatment of municipal solid waste

EDUCATION

Ph.D. in Chemical Engineering

Université Clermont Auvergne & National Superior School of chemical Engineering of Clermont-Ferrand

📅 1983 – 1986

📍 Clermont-Ferrand, France

Thesis title:Photo-thermal and photo-catalytic oxidation of crosslinked and unsaturated polyesters used in composite materials.

This thesis, under the supervision of Professor **J.LEMAIRE** , was carried out in the molecular photothermal and Macro-molecular laboratory in coordination between the University of Clermont Auvergne and Renault Co, in particular with the research center of Malmaison and the Dreux factory.

DEA in Chemistry

Université Clermont Auvergne

📅 1982 – 1983

📍 Clermont-Ferrand, France

Chemical Engineering

National Superior School of chemical Engineering of Clermont-Ferrand

📅 1982 – 1983

📍 Clermont-Ferrand, France

Master in Chemistry

Université Clermont Auvergne

📅 1981 – 1982

📍 Clermont-Ferrand, France

Licence in Chemistry

Université Clermont Auvergne

📅 1980 – 1981

📍 Clermont-Ferrand, France

DEUG A2

Université Clermont Auvergne

📅 1978 – 1980

📍 Clermont-Ferrand, France

Bachelor

Official College of Saida

📅 1978

📍 Saida, Lebanon

First year of Economic and political Sciences

Faculty of Economic and political Sciences

📅 1991-1992

📍 Lebanon

EDUCATIONAL TRAINING

Composite materials used in Cars

RENAULT Company/ Research center : Reuil Malmaison-Factory : Dreux

📅 1983 – 1986

📍 France

Improvement of Sodium Chloride electrolysis installation

RHONE-POULENC/ Factory and Research Center Pont-de-claix /Grenoble

📅 Sept – Oct 1983

📍 France

Improvement of technical properties of electrical materials

EDF-GDF/ Research Center - Clamart-Paris

📅 July 1981

📍 France

SCIENTIFIC CONFERENCES

Oil and Gas industries in Lebanon between Science, Dreams and Reality(Speaker)

📅 2022

📍 Lebanon

Pollution of Lithani river under scope (Organizer & Speaker)

📅 November 2018

📍 Lebanon

Scientific and Technical approaches for pollution treatment

The international conference on Global warming (Speaker)

📅 May 2017

📍 Amman,Jordan

Contribution of Petroleum and Gas industries on the climate change – technological challenges

The first scientific and industrial exposition (Coordinator)

📅 May 2017

📍 Lebanon

Petroleum industry in Lebanon (Organizer & Speaker)

📅 2016

📍 Lebanon

Impacts of the petroleum industry on the environment

Photo-oxidation and photolysis of unsaturated and cross-linked polyesters (UP) in the presence of inorganic fillers either photoactive or not (Speaker)

📅 2012

📍 Lebanon

Arab Chemical Conference (Participant)

📅 2004

SKILLS

Chemical Industry field

Chemical analysis field

Educational field

Environmental field

Generation power field

Petroleum industry field

Teaching technologies/platforms

Iso 9000 Certificate in Management

MISCELLANEOUS



Member of order Engineers in Beirut



Vice Mayor of Zrarieh Municipality (2010-2016)



Member of board management of cultural movement in Lebanon



TV & Radio interviews and article in national newspapers

In environment issues oil and gas industries

LANGUAGES

Arabic



French



English



PUBLICATIONS



Journal Articles

- Fawaz, Y. B., Holail, H., Khalil, Z., & Hourani, N. (November 2015). Characterization of biocoal from hydrothermal carbonization of pine needles and palm leaves. *Journal of Multidisciplinary Engineering Science and Technology*, 2 Issue 11.
- Houhou, J. [J.], Lartiges, B., Mustin, C., Ghanbaja, J., & Khalil, Z. (July 2017). Bacterial biofilms and suspended matter in the sewer system : Examination at various scales. *International Journal of Science and Research*, 6 Issue 7.
- Khalil, Z. [Z.], Khreis, M., Houhou, J., & Zeitoun, R. (2018). Recovery of pyro-products obtained from the thermal treatment of solid municipal waste by soft pyrolysis process. *Journal of Multidisciplinary Engineering Science and Technology (JMEST)*, 5.
- Khalil, Z. [Zahi], Houhou, J. [Jamil], & Nawfal, D. (2016). Development of a combined treatment technology by centrifuge and soft pyrolysis for the recovery of diesel oil sludge and zero waste disposal. *International Journal of Recent Scientific Research*, 7.

- Khalil, Z. [Zahi], Zaitoun, R., Nawfal, D., & Houhou, J. (2016). Development of a combined technology (sorting/composting/soft pyrolysis -scp) for the recovery of municipal solid waste with zero waste disposal in lebanon and developing countries. *International Journal of Recent Scientific Research*, 7, 14474.
- Study of copper phytotoxicity on maize plants (zea mays l.) irrigated by water treated with copper sulfate as algacide. (2016). *International Journal of Science and Research (IJSR)*, 5(1), 1680–1685. doi:10.21275/v5i1.nov153139
- Khalil, Z. [Z.], Koubaissy, B., & Akil, M. (2014). Study of the photo-oxidation and photolysis of unsaturated and cross-linked polyesters in the presence of inorganic photo-active pigment as titanium oxides. *Journal of Multidisciplinary Engineering Science and Technology (JMEST)*, 1.
- Khalil, Z. [Zahi], Koubaissy, B., & Akil, M. (2014). Study of the photo-oxidation and photolysis of unsaturated and cross-linked polyesters (up) in the presence of photoactive or not inorganic fillers. *Physics Procedia*, 55, 503–511. 8th International Conference on Material Sciences, CSM8-ISM5. doi:https://doi.org/10.1016/j.phpro.2014.07.075
- Khalil, Z. [Zahi], Michaille, S., & Lemaire, J. (2003). Photo-oxydation du polystyrène à grandes longueurs d'onde (> 300 nm) et à 60°C. *Die Makromolekulare Chemie*, 188, 1743–1756. doi:10.1002/macp.1987.021880721
- Michaille, S., Khalil, Z., Lemaire, J., & Arlaud, P. (1989). Photolysis and photo-oxidation of unsaturated polyesters. *Makromolekulare Chemie. Macromolecular Symposia*, 25(1), 263–269. doi:https://doi.org/10.1002/masy.19890250124. eprint: https://onlinelibrary.wiley.com/doi/pdf/10.1002/masy.19890250124