



## Contact information

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Fahad Bin Sultan University  
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## Current Position

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*Sep 2016-Present:* Assistant Professor - Fahad Bin Sultan University – Tabuk - KSA

## Professional skills and Experience

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- PhD-qualified in Chemistry and Materials
- Strong background in nanomaterials for energy storage
- Excellent problem-solving skills and the ability to undertake independent and team-based professional activities within the team and with industry partners.
- High quality proven track record, with good recognition through publications and presentations at conferences, technical report writing
- Strong organizational and time-management skills to meet the demand of workloads and deadlines

## Education

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**2010-2013**

**Clermont Auvergne University – Institute of Chemistry of Clermont-Ferrand – France.**

**(PhD) Doctor of Philosophy in Chemistry of Materials**

**DISSERTATION:** Synthesis of Fluorinated Nanocarbons for Electrochemical Energy Storage

**2009 – 2010**

**Claude Bernard University of Lyon I – France**

**(MS) Master of Science in Inorganic Chemistry**

**THESIS:** Biomaterials obtained by gelation of silica precursor with carbon dioxide saturated water

**2008-2009**

**Holy Spirit University of Kaslik – Beirut – Lebanon**

**(MS) Master of Science in Industrial Chemistry**

**Emphasis: Industrial Processes and Methods Validation**

**RELEVANT COURSEWORK:** Applied Nanotechnologies, Control and Optimization in the Chemical Industry, Experimental Designs and Formulation, Industrial Unit Operation, Special Topics in Chemistry

**2005-2008**

**Lebanese University – Faculty of Science – Lebanon**

**(B.Sc.) Bachelor of Science in Chemistry**

**RELEVANT COURSEWORK:** The fundamental courses in chemistry (Physical, Analytical, Biochemistry, Organic and Inorganic chemistry).

## Academic Experience

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**Sep 2016-Present**

**Assistant Professor**

**Fahad Bin Sultan University - College of Science and Humanities**

**Sep 2018-Sep 2019**

**Department Head**

**Fahad Bin Sultan University - College of Engineering – Mechanical Engineering Department**

**Sep 2015-Aug 2016**

**Assistant Professor**

**Clermont Auvergne University – Institute of Chemistry of Clermont-Ferrand – France**

**Oct 2013-Sep 2016**

**Internship Leader for College students**

**Clermont Auvergne University – Institute of Chemistry of Clermont-Ferrand – France**

**Oct 2010-Oct 2013**

**Graduate Teaching Assistant**

**Clermont Auvergne University – Institute of Chemistry of Clermont-Ferrand – France**

## Teaching Experience

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**Taught the following courses for undergraduates with different backgrounds:**

**Clermont-Auvergne University:**

- Analytical Chemistry
- Environmental Chemistry
- Electrochemistry
- Thermodynamics
- Water Chemistry
- Chemistry of Elements

**Fahad Bin Sultan University:**

- Chemistry
- Chemistry Lab
- Engineering Materials
- Engineering Ethics
- Heat Transfer
- Thermodynamics
- French language

## Academic service and contributions

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**Sep 2020 – Present: Member of the Deanship of Quality and Academic Accreditations (DQAA) at Fahad Bin Sultan University**

- Assist the University's continued success by taking on the responsibility of guiding the University through the lengthy and seemingly continuous accreditation processes that are critical to moving the University to the next level of excellence.

**Sep 2020-Sep 2021: Chair person of the Library committee at Fahad Bin Sultan University**

- Planing and coordinating the committee's work for the year
- Schedule committee meetings to discuss the draft agenda
- Send archival records to the president office

**Sep 2018-Sep 2019: Head of the Mechanical Engineering Dept. at Fahad Bin Sultan University**

- Assisting in the execution of University, College, and Department policies while also providing the necessary leadership to improve academic excellence and the efficient operation of the department..
- Setting up teaching schedules

**Sep 2018-Sep 2019: Vice President of Scientific Research at Fahad Bin Sultan University**

- Participation in creating the FBSU Deanship of Scientific Research operational action plan

**Oct 2013-Sep 2016: Internship Leader and adviser for College students**

- Assisting in the mentoring of newly hired department staff members to guarantee their involvement and professional growth.Prepared and instructed internship students on how to prepare a final report.Planned and led outside visits and events
- Academic advising for students prior to registration
- Managing, supervising and assessing final year projects for undergraduates

## Research Highlights

- **>20 papers published in distinguished journals, along with numerous participations in seminars and conferences**
- **International academic and industrial collaborations:**
  - **USA:** California Institute of Technology, CFx batteries Inc.
  - **France:** SAFT batteries - Mines ParisTech University - Joseph Fourier University - Blaise Pascal University, University of Nice Sophia Antipolis
- **Research Interest:**
  - Fluorine Chemistry
  - Chemical functionalization of (nano)carbons
  - Materials Science & Engineering for Energy Storage and Conversion,
  - Physical-chemical characterization techniques (NMR, XPS, TGA, UV-V and IR spectroscopy, XRD, electrochemistry...),
  - Electrochemical Energy Storage devices and technologies (Lithium batteries, Proton-Exchange Membrane Fuel Cells)

## Research Experience

**Oct 2016-present**

**Adjunct Research Fellow**

**Clermont Auvergne University - France**

Research Project: Corrosion Resistant carbons as catalytic Cathodic support materials for PEMFC

**Oct 2015-Aug 2016**

**Scientific Researcher**

**Clermont Auvergne University - Institute of Chemistry of Clermont-Ferrand – France**

Research Project: Corrosion resistant carbons as catalytic cathodic support materials for PEMFC

**Oct 2013-Sep 2015**

**Postdoctoral Fellow**

**Clermont Auvergne University - Institute of Chemistry of Clermont-Ferrand – France**

Project: Nanomaterials and Ionic liquids: from fundamentals to applications in sustainable technologies.

**Oct 2010-Oct 2013**

**Doctoral Researcher**

**Clermont Auvergne University – Institute of Chemistry of Clermont-Ferrand – France**

Project: Synthesis of fluorinated nanocarbons for electrochemical energy storage (defended on Oct. 4, 2013)

**Jan 2009-June 2010**

**Post-Graduate Internship**

**Claude Bernard University Lyon I – Institute of Research on Catalysis and the Environment – France**

Project: Biomaterials obtained by gelation of silica precursor with carbon dioxide saturated water.

## Awards and Honors

- Honor Roll inclusion for high grades for the Master degree.
- Very honorable mention as well as congratulations from the members of the jury during the thesis defense.
- Received full scholarship at Clermont Auvergne University sponsored by the Ministry of Higher Education of Research and Innovation of France for three years.
- Received full funded grant for Postdoctoral Fellow at the Institute of Chemistry of Clermont Ferrand sponsored by the National Research Agency of France
- Received full funded grant for Postdoctoral Fellow at the Institute of Chemistry of Clermont Ferrand sponsored by the National Centre for Scientific Research, CNRS – France