

JEFFIN JAMES ABRAHAM

Madinat Khalifa South, Doha, Qatar · +974-33361040
jeffin7jj@gmail.com, Jeffin.james@qu.edu.qa

Graduate from the Bachelor of Science, chemistry program in Qatar University, born in Qatar, looking for an opportunity in graduate program. Have enough experience working in labs and handling different chemicals.

EXPERIENCE

JANUARY – FEBRUARY 2016

INTERN, ANTI-DOPING LAB QATAR

Worked on analysis of heavy metals in blood samples and in the air. Experienced using the ICP-MS to analyze the heavy metals.

JUNE – JULY 2017

INTERN, CENTER FOR ADVANCED MATERIALS (CAM), QATAR UNIVERSITY

Worked on the topic "Synthesis & Characterization of advance energy storage material for Li/Na batteries". Experienced in using the glove box to synthesis new battery materials and then testing these batteries using analyzing equipment.

JANUARY – MAY 2018

UNDERGRADUATE RESEARCH ASSISTANT, CENTER FOR ADVANCED MATERIALS (CAM), QATAR UNIVERSITY

Continued the work from the Internship testing out various Lithium and Sodium ion batteries.

OCTOBER 2018 – PRESENT

RESEARCH ASSISTANT, CENTER FOR ADVANCED MATERIALS (CAM), QATAR UNIVERSITY

Full time research assistant working on developing lithium and sodium ion batteries.

EDUCATION

JUNE 2018

BACHELOR OF SCIENCE IN CHEMISTRY, QATAR UNIVERSITY

Graduated with a CGPA of 2.7. Have experience in lab work in all major chemistry fields. Defended a mini thesis on the topic "Synthesis and characterization of diclofenac and ibuprofen prodrugs" for the research project course.

JUNE 2018

MINOR IN GEOLOGY, QATAR UNIVERSITY

Geology minor in Qatar university included courses like Structure and geotectonic, sediment and sedimentation, paleontology and petroleum geology.

SKILLS

- Well versed with operating all equipment used in Chemical Laboratory.
- Trained and experienced in operating Inductively Coupled Plasma -Mass Spectrometer (ICP-MS) and optical emission spectrometer (ICP-OES) and Liquid Chromatography Mass Spectrometer (LC-MS).
- Experienced in using glove box, X-Ray diffraction analysis and battery analyzing equipment.
- Trained in lab safety
- Experienced in ChemDraw and Gaussian View
- Highly Skilled with Computer in Excel, Word, PowerPoint.

PUBLICATIONS

- **Jeffin James Abraham**, Umair Nisar, Haya Monawwar, et al. Improved electrochemical performance of SiO₂-coated Li-rich layered oxides-Li_{1.2}Ni_{0.13}Mn_{0.54}Co_{0.13}O₂. J Mater Sci: Mater Electron (2020). <https://doi.org/10.1007/s10854-020-04481-6>
- Umair Nisar, Saoud M. A. Mesallam, P. Ramesh Kumar, **Jeffin James Abraham**, R. A. Shakoor, Ruhul Amin, Rachid Essehli, Siham Al-Qaradawi, "Fast and Scalable Synthesis of LiNi_{0.5}Mn_{1.5}O₄ Cathode by Sol-Gel Assisted Microwave Sintering", Under review.
- Hanan Abdurehman Tariq, **Jeffin James Abraham**, R. A. Shakoor, Siham Al-Qaradawi, Muhammad Ramzan Abdul Karim, Usman Chaudhry, *Synthesis of lithium manganese oxide nanocomposites using microwave-assisted chemical precipitation technique and their performance evaluation in lithium-ion batteries*, Energy Storage, 2020, <https://doi.org/10.1002/est2.202>
- **Jeffin James Abraham**, Hanan Tariq, R. A. Shakoor, Ramazan Kahraman, Siham Al-Qaradawi, *Synthesis and Performance Evaluation of Na(2-x)LixFeP2O7 (x= 0, 0.6) Hybrid Cathode Materials*, ChemistrySelect 2020, 5, 12548. <https://doi.org/10.1002/slct.202003658>

BOOK CHAPTERS

- Ali A. El-Samak, **Jeffin James Abraham**, Deepalekshmi Ponnamma, Mohammad K Hassan, Mariam Al Ali Al-Maadeed, *Nanobatteries and nanogenerators: Chapter 24 - Self-powered nanosensors using nanogenerators*, Elsevier, 2020, ISBN: 9780128215487.

INTERESTS

American Chemical Society-Qatar University Student Chapter (ACSQU), **Vice President, 2017-2018**. Organized different symposiums and workshops during this period. Also, was an active member of ACSQU from 2016-2018. Qatar University Society of Petroleum Engineers (QUSPE), *Member, 2016-2018*. Other various volunteer work for Qatar university.