

Achref CHEBIL

Email: chebilachref001@gmail.com

● WORK EXPERIENCE

01/2022 – 12/2024 Rome, Italy

RESEARCHER: ANALYTICAL LABORATORY, UNIVERSITY OF ROME-TOR VERGATA

Study, design, and fabrication of self-powered devices.

01/2017 – 01/2021 Sousse, Tunisia

RESEARCHER: CENTER FOR RESEARCH IN MICROELECTRONICS AND NANOTECHNOLOGY OF SOUSSE

Study, design, and fabrication of sustainable, flexible energy storage devices for autonomous electronic microsystems for biomedical and environmental applications

05/2019 – 07/2019 Tekirtag, Türkiye

RESEARCHER: ATES POLYMER GROUP, NAMIK KEMAL UNIVERSITY-Tekirtag

Study, Design, and fabrication of supercapacitor based on Nickel foam

01/2019 – 07/2019 Sousse, Tunisia

ASSOCIATE PROFESSOR: HIGHER INSTITUTE OF APPLIED SCIENCE AND TECHNOLOGY OF SOUSSE

- Networking, communication and collaboration
- Working in a scalable digital environment
- Being responsible in the digital age
- Organizing the search for information in the digital age
- Produce, process, exploit and distribute digital documents

05/2017 – 07/2017 Grenoble, France

RESEARCHER: TIMA LABORATORY- Grenoble

Elaboration of freestanding film based carbon nanotubes for optoelectronic applications

● EDUCATION AND TRAINING

2022 – 12/2024

SECOND PhD DEGREE IN MATERIALS SCIENCE (THESIS WILL BE FINISH BY DECEMBER 2024) University of Rome -Tor Vergata, Italy

2017 – 2020

PHD DEGREE IN PHYSICS – ELECTRONICS-NANOTECHNOLOGY Higher School of Science and Technology of Hammam Sousse, Tunisia

2014 – 2016

ENGINEERING DEGREE IN MICROELECTRONIC SYSTEMS Higher Institute of Applied Science and Technology of Sousse, Tunisia

2012 – 2014

BACHELOR DEGREE IN ELECTRONICS, AND INDUSTRIAL COMPUTING Higher Institute of Applied Science and Technology of Sousse, Tunisia

● LANGUAGE SKILLS

Mother tongue(s): ARABIC

Other language(s): ENGLISH | FRENCH | ITALIAN

● DIGITAL SKILLS

MS Office (MS Word, MS PowerPoint, MS Excel), Eagle | MEMS | Matlab | COMSOL Multiphysics | GraphPad | LabVIEW |

OriginPro | PSTrace | ZView

● PUBLICATIONS

Achref CHEBIL et al. Paper-Based Metal-Air Battery Electrochemical Sensor for Smartphone Assisted Oxygen Monitoring in Food Packaging

Submitted

Achref CHEBIL et al. Converting Biomass to Flexible and Sustainable, All Solid-State Supercapacitors Based Textile for Wearable Electronic Devices

Submitted

Achref CHEBIL et al. Electrochemical sensor for cultural heritage conservation

under preparation

Achref CHEBIL, Chérif DRIDI Smart supercapacitors

2023 Elsevier (Chapter book)

Noemi COLOZZA, Achref CHEBIL, Fabiana ARDUINI "Smartphone integrated electrochemical biosensors as smart analytical tools"

2023 Elsevier (Chapter book)

Murat ATES, Achref CHEBIL, "Supercapacitor and Battery performances of Multi-component Nanocomposites: Real circuit and Equivalent Circuit Model Analysis"

Journal of Energy Storage 53 (2022) 105093 (Q1, IF:8.9)

Ilyes HADJ JRAD, Achref CHEBIL, Chérif DRIDI "Biomass derived quasi solid supercapacitors for smart textile integration"

IEEE DTS 2022 (Conference paper)

Murat ATES, Achref CHEBIL, Ozan YURUK, Chérif DRIDI, Murat Turkyilmaz "Reliability of electrode materials for supercapacitors and batteries in energy storage applications: A review"

IONICS (2021) (Q2, IF: 2.8)

Achref CHEBIL, Vincenzo MAZZARACCHIO, Stefano CINTI, Fabiana ARDUINI, Chérif DRIDI "Facile development of cost effective and greener for all solid-state supercapacitor on paper substrate"

Journal of Energy Storage 33 (2021) 102107 (Q1, IF: 8.9)

Marwa GASSAB, Achref CHEBIL, Chérif DRIDI "Predictive Study of Electrical Performance of Interdigitated, Cost-Effective Supercapacitor for Autonomous Microsystems"

Arabian Journal for Science and Engineering (2021) (Q1, IF:2.9)

Achref CHEBIL, Ozge KUZGUN, Chérif DRIDI, Murat ATES "High power density supercapacitor devices based on nickel foam coated rGO/MnCo₂O₄ nanocomposites"

IONICS. 26 (2020) 5725–5735 (Q2, IF: 2.8).

Materials Science and Engineering B. 243 (2019) 125-130 (Q2, IF: 3.9)

● SKILLS

- Writing and editing research papers
- Strong analytical and critical thinking skills
- Good communication skills, stress management, and teamwork
- Strong analytical, troubleshooting, and problem-solving skills
- Project management
- Structural characterization (FTIR, DRX), morphological (SEM, TEM)
- Design and Production of sensors/ energy storage devices
- Electrochemical characterization (Cyclic Voltammetry, Potentiometry, Chronoamperometry, Electrochemical Impedance Spectroscopy)
- Elaboration techniques: Screen printing, spin coating, drop casting, Electrospinning

● CONFERENCES AND SEMINARS

14 Conferences: Oral presentation + Poster presentation

(1) Frascati- Italy 2024, (1) Milan -Italy 2024, (1) Florence-Italy 2023, (1) Rome-Italy 2023, (1) Chemnitz-Germany 2019, (4) Hammamet-Tunisia 2018, (3) Mahdia-Tunisia 2018, (1) Sousse-Tunisia 2017, (1) Sfax-Tunisia 2016.

● REVIEWING ARTICLES

Reviewer

- Journal of Alloys and Compounds.
- Microchemical journal.
- Heliyon