



Pr. Oubla M'hamed
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Pr. OUBLA is a specialist in Solid-state chemistry for energy. In 2018 he obtained his doctorate thesis from the Hassan II University Casablanca in Morocco. He did his thesis work in collaboration with the Neel institute of Grenoble, France and the LASIE UMR7356 laboratory at the University of La Rochelle France. Directly after obtaining his doctorate, Dr. OUBLA, he joined the next-generation team for electric vehicles as a postdoctoral fellow at the Institute of New Energy for Vehicles (NEV) of Tongji University in Shanghai (China) in the period June 2018-July 2021. Pr. OUBLA is currently an assistant professor at the Faculty of Science of Rabat (FSR), Mohammed V University in Rabat (UM5R) (Morocco) since November 2021. He is a professor of physics of materials and advanced crystallography in the department of physics at FSR. Dr. OUBLA is responsible for the Atomic Force Microscope (AFM) machine at FSR-UM5R. He is a member of the MANAPSE laboratory (Materials and Nano-material for Photovoltaic and electrochemical storage), in the electrochemical energy storage team at UM5R. Dr. OUBLA has been an Editor at the "International Research Journal of Pure and Applied Chemistry" since 2021. Is also a member of the Association of Crystallography (AMC) since 2014. His research activities focus on designing defective materials as advanced electrodes and electrolytes for next-generation rechargeable Li-ion and Na-ion batteries, as well as electro-catalysis for energy storage, particularly, oxygen evolution reactions. Exploitation of Moroccan natural resources to develop new materials for high performance electrochemical storage is also his goal.

Research Activities

- Anode and cathode materials for Lithium-ion batteries.
- Anode and cathode materials for Sodium-ion batteries.
- All Solid-State Batteries: advanced Materials for Li-ion, Na-ion, and Li-S technologies.
- Defect Engineering for Electrochemical Energy Storage Materials.
- Binders for Lithium-ion and Sodium-ion Batteries
- Lithium-ion battery recycling.
- Battery degradation diagnosis.

Teaching courses

- Physics of materials.
- Advanced crystallography and electrochemical energy storage.
- Electrochemistry for energy storage.
- Mécanique Classique, électricité, thermodynamique.