

Sokhna DIENG

Senegalese Citizen, Single
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Education

- MSc. Physics Jul. 2019-Jul. 2021**
Physical and Applications
Specialization: Materials Science and Engineering.
Cheikh Anta Diop University, Dakar, Senegal
July 10, 2021
Faculty of Science and Technology
Department of Physics
Advisor: Prof. Balla Diop Ngom
Dissertation Title: “Synthesis and characterization of
NiCo₂O₄@C₆₀/g-C₃N₄ composite material using peanut shell for
supercapacitor applications”.
- BSc. Physics and chemistry, Mar. 2017-Feb 2018**
Specialization: Physics, chemistry and science of matter
Cheikh Anta Diop University, Dakar, Senegal
Faculty of Science and Technology
Department of Physics

Research Expertise:

Nanosciences & nanotechnology,
Energy storage system: supercapacitor,
Advanced and multifunctional materials,
Data analysis and interpretation,
Hands-on materials sample preparation,
Green synthesis,
Hydro/solvothermal; thermal decomposition; CVD; Materials Physical Chemistry,
Materials characterization techniques: SEM; XPS; XRD; EDS & RAMAN.

Participating Conference

1. West African Physical Society 2020, Dakar, Senegal 25-28 November 2020.
2. Greening Africa Together 2021, Dakar, Senegal, 23-25 June 2021.
3. West African Physical Society 2021, Abidjan, Côte D’Ivoire, 01-04 December 2021.
4. International Salon for Entrepreneurship, Research, and Innovation 2022, Dakar, Senegal 16-18 March 2022.
5. First symposium of the Senegalese Physical Society, Bambey, Senegal, 24 au 25 May 2022.

Honours and Distinctions

- Scholarship from Schlumberger Foundation Faculty for the Future Fellowships 2022
- Scholarship from the ministry of higher education of Senegal 2014-2022
- Foundation UCAD Prize 2020
- Best poster Awards SOAPHYS 2021
- First prize at the International Salon for Entrepreneurship, Research, and Innovation 2022

Technical Skills

1. **Software** ➤ Origin, PlotDigitizer, Photoshop-Pro, Microsoft Office, EC-Lab
2. **Computer** ➤ Window, Lunix, Mac
3. **Laboratory** ➤ Solvo/Hydrothermal
 ➤ Precipitation
 ➤ Thermal decomposition
 ➤ Chemical Vapor Deposition (CVD)
 ➤ Electrochemical characterization
4. **Language** ➤ Wolof: Native tongue, fluent
 ➤ French: Advanced
 ➤ English: Intermediate

Personal Skills:

Hardworking, multi-talented with expertise in applied sciences, resourceful leader, rigorous, problem-solving capacity, good team working ability, excellent for relationship building, good creative and innovative skills.

Hobbies

Cooking, Drawing, Photography, Sport, Music, Internet, Mind games... etc.

Reference

Professor Balla Diop Ngom,

Professeur Titulaire des Universités
Director Laboratoire de Photonique Quantique d'Energie
et de NanoFabrication, Groupe de Physique du Solide et
Science des Matériaux, Département de Physique
Future Leader-African Independent Researcher (FLAIR)
Fellow, TWAS-UNESCO Associate
Université Cheikh Anta Diop de Dakar

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