CURRICULUM VITAE RESUME FOR POSTDOC POSITION IN CHEMISTRY

Name and Surname: **POUMVE ZAPENAHA Harlette**

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Sex female Date of birth 27/01/1994| Nationality Cameroonian

SUMMARY

Dedicated posgraduate researcher significant experience in nano composites alloys for anticancer and antibacterial applications, Complement by solid foundation in physical chemistry. Proven expertise through comstech schoolarship at ICCBS University of Karchi ,and NRF schoolarship at Rhodes University and various Prestigious research assistant roles . Achieved strong results in applied research , contributing to Nano material , pourous material , drug delivery systems and environmental applications . Eager to leverage advanced skills in analytical techniques and collaborative research to drive inovations in the Scientific community

WORK EXPERIENCE

- Research Assistance affiliate with drug discovery and smart molecule Lab , Department of Chemical Sciences Faculty of Sciences , University of Johannesburg ; South Africa
- Postgraduate Research at Rhodes University on synthesis of nano composites and alloys for anticancer antibacterial and water depollution application ; South- Africa
- Posgraduate researcher at ICCBs at the Uiversity of Karachi - Pakistan
- Visiting Lecturer , ENSET Douala – Cameroun
- Visiting Lecturer Department of Chemistry , University of Douala Douala – Cameroun
- Intern, at OKA laboratories and B&B Cosmetics Douala – Cameroun

EDUCATION

Seived as assistance affiliate with drug discovery and smart molecule Lab , Department of Chemical Sciences Faculty of Sciences , University of Johannesburg ; South Africa

2024 - 2025

Rhodes University in South Africa

- Award NRF Scholarship as postgraduate Researcher ,Experimend on nano composites and alloys for anticancer antibacterial and water depollution application;

University of Douala -Cameroon

- Conducted thesis on Biosensing , investigating antibacterial and anticancer properties of nanoparticles Using full factorial Design.

2022-2023

ICCBS (International Centre of Chemistry and Biological Sciences)**,University of karachi**

- Participation in Comstech fellowship on the biosynthesis porous materials and silvers nanoparticles and it alloys for sensing Drug delivery and biological application University of Karachi Pakistan ;

2020-2022: Doctorate / PhD Study in physical chemistry in going at the University of Yaounde; Department of Chemistry, faculty of sciences; on DOE (Design of Experimentation on porous material and Nano particle; application on bacteria, and waste water;

2019 -2021: Doctorate/PhD Student in physical chemistry in going at the University of Douala, Laboratory of Chemistry, department of Chemistry, Faculty of Sciences;

2018-2021: English training course (upper intermediate A skills) at the Annex of Douala linguistic centre of lotto (Cameroon)

2017-2018: University of Douala **Msc , physical Chemistry**

- Completed Thesis on ***simultaneous adsorption from porous activated carbonand zero valent ion nanoparticles***;

2013-2017: Bachelors and Master 1, physical Chemistry at the University of Douala;

SKILLS	TGA	DSC
	FTIR	XRD
	BET	SEM
	DLS	PH at the zero point of charge
	Metal sensing	Biodegradation
	Iodine Number	Methylene Blue
	Oil extraction	Microsft Ofice
	Origin	Minitab
	Chemdraw	Sigmaplot

LANGUAGE French excellent (writing and spoken)

English Good (written and spoken)

SCIENTIFIC RESEARCH

1-Querecetagetin-silver nanoparticles: Selective colorimetric detection of cadmium in aqueous solutions for environmental monitoring , https://doi.org/10.1016/j.molliq.2025.128489

2-Enhanced Anticancer Efficacy of Curcumin and Quercetagetin using Activated Carbon-Based Hybrid Zinc Nanoparticles (submitted).

3-Enhanced Adsorption of Toluene Using Nano Silver-Modified Activated Carbon Derived from Ricinodendron Heudolitii Shells (2023).

4- Removal of crystal violet by TiO2 loaded alkali-activated carbon hybrid material from Raphia farinifera fruit kernels: surface chemistry, parameters and mechanisms (2024) ;

4-Enhanced Performance of Activated Carbon from Biomass Waste for Adsorption of Yellow 145 (2024).

5-Adsorption Studies on Removal of Paraphenylenediamine using ZnCl2 and H3PO4 Activated Carbon (2021).

6-Adsorption of Chromium (VI) using Phosphoric Acid Activated Carbon from Raphia Kernels (2021).

7- Calcareous-Support Nanoscale Zero-Valent Iron for Adsorption of Cr (VI) (2019).

8- Simultaneous Adsorption of Mercury (II) and Zinc (II) Ions using Activated Carbons from Bioresource Waste (2019).

Cerificates Safety training ICCBS Karachi

CONFERENCES

Participation at International conference on Analytical Lab Africa (Johannersburg) 2025;

Certificate of Completion, Safety Training, ICCBS Karachi 2023;

Participation in International Conference on Science Communication, Islamabad 2023;

Participation in Chemical Analytic Day Seminar, Yaoundé 2022;

Participation in Scientific and Technological Innovation Symposium , Douala 2022;

Participation in Conference on University Research and Development, Yaounde 2022;

Participation in SDG Conference on Medicinal Plants, Douala 2021;

Participation in Cameroon Bioscience Society Conference, 27th Edition, Douala 2020;

REFERENCES

Dr. Djuidje Fotsing, Marthe University of Johannersburg , Research faculty of Sciences, email : mfotsing@uj.ac.za

Assoc. Prof. Pierre Gerard TCHIETA – Researcher, Faculty of Science, University of Douala- Email: **pgtchieta@yahoo.com**