

Curriculum vitae

Assistant Researcher, Guangzhou University · Guangzhou, China

Professional title

October 2025	Assistant Researcher (助理研究员) Guangdong Province / Guangzhou University research-series title evaluation committee The research-track equivalent of Assistant Professor.
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Appointments

2023.06 – present	Postdoctoral Researcher , Guangzhou University
2021.02 – 2023.03	Postdoctoral Researcher , Harbin Institute of Technology, Shenzhen
2020.09 – 2020.12	Junior Research Staff , CAS Institute of Urban Environment, Xiamen

Education

2016 – 2020	Ph.D., Environmental Engineering , University of Chinese Academy of Sciences
2014 – 2016	M.E., Chemical Engineering , Xiamen University
2008 – 2012	B.S., Applied Chemistry , University of Rwanda

Research mentoring

2022 – present	Co-supervisor, MSc candidates Guangzhou University and Harbin Institute of Technology, Shenzhen Two MSc candidates: one at HIT on selective catalytic reduction systems, completed 2023; one ongoing at Guangzhou University on functionalised adsorbent design for rare-earth recovery. Day-to-day experimental guidance, literature support and manuscript mentoring.
2023 – present	Laboratory mentor and research trainer Guangzhou University Training junior researchers and students on XRD, BET, FT-IR, XPS, SEM-EDX and ICP-MS.

Classroom teaching

2012 – 2014

Science teacher

Mibilizi Complex School, Rusizi, Rwanda

Full curriculum delivery in chemistry, mathematics and biology; prepared students for the Rwandan national certificate examination.

Funding as Principal Investigator

PROJECT	AWARD	PERIOD	AGENCY
Waste to Wealth: Recovery of Rare Earth Elements from Complex Waste Matrices Using Functionalized Covalent Organic Frameworks (W2433128)	¥200,000	2025.01–2025.12	NSFC, Research Fund for International Young Scientists
Functionalization of Dendritic Fibrous Nano Silica with Organophosphorus for Rare Earth Element Removal from Wastewater (624021-72)	¥200,000	2024.06–2025.05	Guangzhou City Postdoctoral Fellowship

Patent

Method for selective recovery of rare earth elements from industrial wastewater and sludge using functionalized β -cyclodextrin polymer composites

Q. Sun, **F. Nkinahamira**, C.-P. Yu · Granted · ZL 2020 1 1201861.8

Selected presentations

- 10th Industrial & Research Conference on Microalgae — China Algae Industry Association, Nanchang, 2024
- 5th IWA Resource Recovery Conference — Shenzhen, 2023
- 3rd Youth China Students' Forum — oral presentation, "Detection and Recovery of REEs from Wastewater and Sludge", Xiamen, 2019
- UCAS Summer School on Frontier & Interdisciplinary Sciences — oral presentation, "Recovery of REEs from Industrial Wastewater and Sludge", Beijing, 2019
- Urban Environment & Health Forum, Environmental Technology Summit — Xiamen, 2017

Methods and capabilities

Synthesis	COFs, β -CD polymers, magnetic composites, dendritic fibrous nanosilica, core-shell catalysts, ionic-liquid-grafted mesoporous materials.
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Characterisation	XRD, BET, FT-IR, XPS, SEM-EDX, TEM, ICP-MS, TGA, zeta potential.
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Process engineering	Flow reactor systems, adsorption columns, leaching–separation–recovery workflows; techno-economic modelling with sensitivity analysis.
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Collaboration	Joint projects across more than ten institutions in China, Africa and the United States; co-supervision of MSc candidates.
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Languages

- English — proficient, medium of instruction
- French — fluent
- Kinyarwanda — native
- Chinese (Mandarin) — basic

Elsewhere

53 publications and the full list are on the publications page. Editorial boards, peer review and awards are on editorial & service.

Dr. Francois Nkinahamira · Assistant Researcher, Guangzhou University

Publication list generated from ORCID and Crossref. Last built 2026-08-07.