



Inspiring Innovation and Leadership

KARATINA UNIVERSITY

STAFF PROFILE TEMPLATE

Attach Profile picture:



Name: [Grace Muriithi]

1. **Designation:** [Lecturer]

2. **Employment details**

School: [Pure and Applied Sciences]

Department: [Biological and Physical Sciences]

3. **Contact Information**

Email Address: gmuriithi@karu.ac.ke; gmuriithi@gmail.com

Research Links: [1. <https://scholar.google.com/citations?user=va0UJKcA>

2. https://www.researchgate.net/profile/Grace-Muriithi-4?ev=hdr_xprf&_sg=lr-t15kGB-ngUFGOBFjXWh4pZiyUxHmRyaKKVUw5LVTLjC8mWLBSL9OT3BYa1n1oWxrb rDtvFB2AMSISE-aSWjOj]

4. Describe your professional self

Dr. Grace Muriithi is a lecturer in Inorganic/Analytical Chemistry with over ten years' experience. She has been instrumental in the design of different curriculums for both undergraduate and post graduate programs. She serves as the BSc program coordinator in the School of Pure and Applied Sciences since 2018. She is also the section head of Chemistry within the department of Biological and Physical Sciences. Her research interests are in carbon mineralization, waste water remediation through mineralization, solid waste modification into CO₂ adsorbents and CO₂ adsorption technologies. She has published extensively in different peer reviewed journals and has over 370 citations and a research interest score of 177. She is a member of the Organization for Women in Science in the Developing World (OWSD) and serves as the Chair Person of University Academic Staff Union (UASU) in Karatina University.

5. **Area/ Field of specialization:** [Chemistry]

6. **Research interests:** [Waste water remediation, brine mineralization, solid waste remediation, modification of solid wastes into CO₂ adsorbents]

7. List some of your key published works.

Peer-reviewed Publications

1. Muriithi, Grace N.; Petrik, Leslie F. and Doucet, Frederick J. Synthesis, characterization and CO₂ adsorption potential of NaA and NaX zeolites and hydrotalcite obtained from the same coal fly ash. *Journal of CO₂ Utilization* 2020: 36: 220-230. Published online on 1st February 2020. Found at: <https://doi.org/10.1016/j.jcou.2019.11.016>