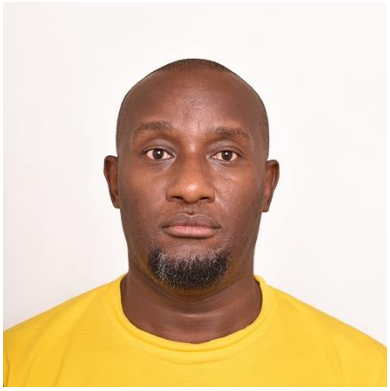
KARATINA UNIVERSITY

STAFF PROFILE TEMPLATE



1. **Name:** DAVID SUJEE
2. **Designation**: Senior Lecturer
3. **Employment details**

   School: Pure and Applied Sciences

   Department: Biological and Physical Sciences

4. **Contact Information**

   Email Address (Corporate and Personal): dsujee@karu.ac.ke

   Research Links: **[**including orcid number and google scholar links**]**
   https://scholar.google.com/citations?user=fWtVF_sAAAAJ&hl=en

   https://orcid.org/0000-0002-6243-1952

5. **Describe your professional self** [your biography – Two Paragraph summary max.]

Education

Auburn University, PhD	2012
University of the Ryukyus, MSc	2006
University of Nairobi, BSc	2003

5. **Area/ Field of specialization**: Organic Chemistry

6. **Research interests**: Organic synthesis, Natural Products, Nanoscience/Nanotechnology, Green chemistry

7. List some of your key published works.

Peer-reviewed Publications

- Madivoli, E. S., Kareru, P. G., Gachanja, A. N., **Makhanu, D. S.,** Mugo, S. M. "*Cellulose-Based Hybrib Nanoarchitectonics with Silver Nanoparticles: Characterization and Antimicrobial Potency*" J. Inorg. Organomet. Polym., **2022**.
- Madivoli, E. S., Kareru, P. G., **Makhanu, D. S.,** Wandera, K. S., Maina, E. G., Wanakai, S. I., Kimani, P.K. "*Synthesis of Spherical Titanium Dioxide Microspheres and their Application to Degrade Rifampicin*" Environmental Nanotechnology Monitoring and Management, **2020**
- Madivoli, E. S., Kareru, P. G., Gachanja, A. N., Mugo, S. M. **Makhanu, D. S.,** Fromm, K. "*Isolation of Cellulose Nanofibers from Oryza sativa Residues via TEMPO Mediated Oxidation*" Journal of Natural Fibers, **2020.**
- Madivoli, E. S., Kareru, P. G., Gachanja, A. N., Mugo, S. M. **Makhanu, D. S.,** Wanakai, S. I., Gavamukyula, Y. "Facile Synthesis of *Silver nanoparticles using lantana trifolia aqueous extracts and their antibacterial activity*" J. Inorg. Organomet. Polym., **2020.**
- Wanakai, S. I., Kareru, P. G., **Makhanu, D. S.**, Madivoli, E. S., Maina, E. G., Nyabola, A. O. "*Catalytic degradation of methylene blue by iron nanoparticles using Galinsoga parviflora, Conyza bonariensis and Bidens pilosa leaf extracts*" Springer Nature (SN) Applied Sciences, **2019** 1: 1148
- Madivoli, E. S., Kareru, P. G., Gachanja, A. N., Mugo, S. M. **Makhanu, D. S.** "*Synthesis and characterization of dialdehyde cellulose nanofibers from O. sativa husks*" Springer Nature (SN) Applied Sciences, **2019** 1: 723
- Madivoli, E. S., Kareru, P. G., Gachanja, A. N., Mugo, S. M. **Makhanu, D. S.** "*Phytofabrication of iron nanoparticles and their catalytic activity*" Springer Nature (SN) Applied Sciences, **2019** 1: 879