

CURRICULUM VITAE

Mutebi Denis (Ph.D)

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Education

- **Ph.D. in Engineering Sciences (Advanced Environmental Science and Engineering)**
Kyushu University, Fukuoka, Japan.
Dissertation Title: "*Eco-friendly Pumice-derived Zeolite-synthesis and Adsorption Capacity Optimization. Potential Adsorbents for Heat Pumps*"
Completed: *September 2024*
 - **M.Sc. in Geological Engineering** Padjadjaran University, Bandung City, Indonesia.
Thesis title: "*Application of Magnetotelluric Data in the Development of Lili-Sepporaki Geothermal Prospect*"
Completed: *April 2020*
 - **Post Graduate Diploma Education in Chemistry and Physics** at Kyambogo University:
Graduated: *Dec 2016*
 - **B.Sc. in Petroleum Geoscience and Production** Makerere University, Kampala-Uganda,
Graduated: *Jan 2015*
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Academic Appointments

- **Assistant Lecturer College of Natural Sciences** Makerere University.
Appointment date: *January 2021 - Present*
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Research Interests

- Zeolites: Green synthesis, characterization and application
 - Environmental science: Climate change, Conservation, waste recycling
 - Material science: Green materials, green chemistry, low-value materials
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Publications

- Mutebi, D., Miksik, F., Spring, A. M., Yaningsih, I., Miyazaki, T., & Thu, K. (2024). Optimization of conventional-zeolite-synthesis from waste pumice for water adsorption. *Advanced Powder Technology*, 35(12), 104713.
<https://doi.org/10.1016/j.appt.2024.104713>.

- Mutebi, D., Miksik, F., Spring, A. M., Yaningsih, I., Miyazaki, T., & Thu, K. (2024). Zeolite Synthesis from Natural and Waste Materials and the Double Environmental Benefits. *Evergreen*, 11(4), 3025-3058. <https://doi.org/10.5109/7326943>.
- Mutebi, Denis, Frantisek Miksik, Andrew M. Spring, Indri Yaningsih, Takahiko Miyazaki, and Kyaw Thu. "Influence of aging on textural properties and symmetry of K-zeolites synthesized via a green route from waste pumice." *Journal of Porous Materials* (2024): 1-11. <https://doi.org/10.1007/s10934-024-01663-z>.
- Mutebi Denis, and Kyaw Thu. "Energy Efficiency Reality with Reference to the Residential Sector in Uganda." (2022): 297-302. Proceedings of IEICES. <https://doi.org/10.5109/5909107>.
- Mutebi Denis, Andi Agus Nur, Agus Didit Haryanto, and Joni Wiwid. "Variation of Rock Electrical Resistivity in Andesitic-Trachytic Volcanic Geothermal Areas. A Case Study of Lili-Sepporaki, Sulawesi island-Indonesia." (2020): 314-322. <https://doi.org/10.5109/4068609>.
- MUTEBI Denis, N. U. R. Andi Agus, Agus Didit HARYANTO, Joni WIWID, and Michael KAZINDA. "Magnetotellurics Data Application in Medium Enthalpy Geothermal Prospects." (2020). .Publications of the Institute of Geophysics, Polish Academy of Sciences. DOI: 10.25171/InstGeoph_PAS_Publs-2020-003.
- Mutebi Denis, Andi Agus Nur, Agus Didit Haryanto, Joni Wiwid, and Michael Kazinda. "Geothermal reservoir prediction using electrical resistivity maps: A case study of Lili Sepporaki Indonesia." *Journal of Applied and Physical Sciences* 5, no. 3 (2019): 73-80. DOI: 10.20474/japs-5.3.1.
- Muteb, D. (2018). Reducing Global Warming and Stopping Unnecessary Pollution Through Regulating and Levying Private Transport Means in Bandung. *International Journal of Humanities, Arts & Social Sciences*, 4(6). 10.20469/ijhss.4.10004-6
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<https://scholar.google.com/citations?hl=en&user=P-lprYIAAAAJ>

Conferences

- Presenter, " Eco-Friendly, Low-Cost Synthesis of Zeolite from Waste-Pumice and KOH, for Adsorption Heat Pumps." The 11th Asian Conference on Refrigeration and Air Conditioning. ACRA2024 April 21-24, 2024, Jeju-KOREA, April 2024.
- Presenter, " Effect of Sonication-Ageing on Pumice-Derived Zeolite Adsorbents." 25th Cross Straits Symposium on Materials, Energy, and Environmental Sciences (CSS-EEST), Kyushu University-Japan, November 2023.
- Presenter, " Organic-Template-Free Synthesis of Zeolites from Pumice and KOH, Intended for Adsorption Heat Pumps." Japan Society of Refrigerating and Air Conditioning Engineers (JSRAE) Annual Conference, Nihon University- Japan, September 2023.
- Presenter, " Energy Efficiency Reality with Reference to the Residential Sector in Uganda." International Exchange and Innovation Conference on Engineering & Sciences (IEICES), Kyushu University-Japan, October 2022.

Service

- Peer Reviewer, *Particuology*, 2024-Present;
- Peer Reviewer, *Results in Engineering*, 2024-present

Referees

1. Frantisek Miksik

Associate Professor Nagoya University- Institute of Innovation for Future Society

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2. John Mary Kiberu

Senior Lecturer-Makerere Universit

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