



Muhammed Alkali

Nationality: Nigerian (Nigeria) **Gender:** Male **Phone number:** (+40) 0746736277

Phone number: (+234) 07036039614 **Email address:** manlialkali@gmail.com

Email address: muhammed.alkali@s.unibuc.ro

WhatsApp Messenger: +40746736277

WhatsApp Messenger: +2347036039614

LinkedIn: <https://www.linkedin.com/in/muhammad-alkali-965a26100/>

Other: Camin Pallady 1, Bld. Theodore pallady, Nr 26., 032262 Bucharest (Romania)

Home: House No. 1, behind Bahago Plaza, Tunga., Minna (Nigeria)

ABOUT ME

I am a Chemistry enthusiast, PhD student and researcher, seeking to expand my scope in academic learning and scientific research, aiming to build a formidable career in academia or related enterprises.

EDUCATION AND TRAINING

PhD Chemistry (in view)

University of Bucharest [07/02/2022 – Current]

City: Bucharest | Country: Romania | Website: <https://unibuc.ro/>

MSc Chemistry

Mangalore University [15/08/2016 – 15/06/2018]

City: Mangalore | Country: India | Website: <https://www.mangaloreuniversity.ac.in/>

Bsc Chemistry

Usmanu Danfodiyo University Sokoto [01/01/2009 – 30/01/2013]

City: Sokoto | Country: Nigeria | Website: <https://www.udusok.edu.ng/>

Secondary School Certificate Examination (SSCE)

Command Secondary School Kaduna [01/10/2002 – 15/08/2008]

City: kaduna | Country: Nigeria | Website: <https://www.facebook.com/CSSKADUNA/>

Certificate in Desktop publishing and computer appreciation

Gralom computer Institute Kaduna [30/05/2005 – 30/08/2005]

City: Kaduna | Country: Nigeria

Primary school leaving certificate

Command children's school Ribadu cantonment Kaduna [01/01/1997 – 15/07/2002]

City: kaduna | Country: Nigeria

WORK EXPERIENCE

Institute of Physical Chemistry – Bucharest, Romania

City: Bucharest | Country: Romania | Website: https://www.icf.ro/pr_2024/OMRI/index.html

Research assistant

[15/01/2025 – Current]

- Design, synthesis and structural characterization of Free radicals.Luminescent metallomesogens
- Study of Host-Guest interaction of the radicals with CB and CD using ESR.

 **Research Centre for Theoretical and Applied Inorganic Chemistry, UNIVERSITY OF BUCHAREST** – Bucharest, Romania

City: Bucharest | Country: Romania | Website: <https://unibuc.ro/>

University research assistant

[01/07/2023 – Current]

- Liquid crystals: synthesis, structure-property correlations, characterization
- Luminescent metallomesogens
- Ionic liquid crystals: properties and physical-chemical characterization.

 **Federal University Birnin Kebbi** – Birnin kebbi, Nigeria

City: Birnin kebbi | Country: Nigeria | Website: <https://fubk.edu.ng/>

Assistant lecturer

[30/09/2018 – 30/09/2021]

- Teaching and evaluation of Undergraduate students
- General Chemistry research

 **Mylan laboratories** – Bangalore, India

City: Bangalore | Country: India | Website: <https://www.viatris.in/>

Trainee

[30/05/2017 – 30/08/2017]

- Sampling
- Basic Pharmaceutical Quality Control tests

LANGUAGE SKILLS

Mother tongue(s): Nupe | Hausa

Other language(s):

English

LISTENING C1 READING C1 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

Romanian

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

HONOURS AND AWARDS

[01/10/2021] Romanian ministry of foreign affairs

Romanian Ministry of Foreign affairs scholarship award Scholarship to pursue a PhD degree in Chemistry at the University of Bucharest, Romania.

[05/01/2017] King Fahad university of petroleum and mineral resources Saudi Arabia

King Fahad university of petroleum and mineral resources Saudi Arabia MSc fellowship award Scholarship to study Masters in Petroleum chemistry at King Fahad university of petroleum and mineral resources Saudi Arabia

[15/08/2016] Government of India

Indian Centre for cultural relations (ICCR) scholarship award Scholarship to study Masters in Chemistry at Mangalore University, India

CONFERENCES AND SEMINARS

[30/06/2025 – 01/07/2025] Bucharest, Romania.

International Symposium “Chiral Molecules and Organic Radicals”. Oral presentation of the work titled “Gelation and doping properties of benzoyl thiourea derivatives”

Link: https://acad.ro/institutia/comunicateStirInst/2025/36_SimpozionNenitescu.html

[24/06/2024 – 28/06/2024] Rome, Italy

SECOND SYMPOSIUM FOR YOUNG CHEMISTS: Innovation and Sustainability SYNC 2024 Oral presentation titled “Design of Emissive Liquid Crystals based on Copper (I) complexes with Benzoyl thiourea, having a Cyano or Fluoro group peripherally connected”

Link: <https://sync2024rome.org/>

[17/04/2024 – 17/04/2024] Bucharest, Romania

CONFERINȚA TINERILOR CERCETĂTORI DIN ȘCOLILE DE CHIMIE BUCUREȘTENE Oral presentation titled “Study of copper (I) metallomesogens with benzoyl thiourea ligand having a fluoro or cyano group attached at a periphery”

Link: https://acad.ro/institutia/comunicateScosaar/2024/02_confDoctoranziChimie_ed1.html

[05/03/2024 – 06/04/2024] Ankara, Turkey

7TH INTERNATIONAL ANKARA MULTIDISCIPLINARY STUDIES CONGRESS Oral presentation titled “Study of liquid crystals based on ionic Cu(I) complexes with Benzoyl thiourea ligands”

Link: http://repositsc.nuczu.edu.ua/bitstream/123456789/20284/1/Abstract_Sierikova_Ankara_2024.pdf

[22/05/2023 – 23/05/2023] Bucharest, Romania

INNOVATIVE CROSS-SECTORAL TECHNOLOGIES 5th Edition Oral presentation of paper titled "Design of liquid crystals of copper(I) complexes from benzoyl thiourea ligands"

Link: <https://icechim.ro/en/institute/scientific-events/next-chem-en/>

[10/11/2022 – 11/11/2022] Bucharest, Romania

7th International Colloquium “PHYSICS OF MATERIALS” (PM 7) Poster presentation titled "Copper(I) Metallomesogens with Schiff base ligands"

Link: http://www.physics.pub.ro/Site_Conferinta_PM-7/prezentare.html

PUBLICATIONS

Dielectric and Rheological Characterization of Physical Gels Based on Liquid Crystals Mixture E7 and Thiourea Low Molecular Weight Gelators. Write here the description...

Alkali, M., Micutz, M., Iliș, M., Ganea, C. P., Rădulescu, M., & Cîrcu, V. (2025). U.P.B. Scientific Bulletin, Series A: Applied Mathematics and Physics, 87(3), 175–190. Politehnica University of Bucharest.

Mechanochromic and stimuli-dependent emission of luminescent liquid crystals based on copper (I) complexes with benzoyl thiourea derivatives

Alkali, M., Iliș, M., Popescu, R. G., Marinescu, G. C., & Cîrcu, V. (2025). Inorganic Chemistry Communications, 182, 115364.

Design of novel copper (I) metallomesogens with benzoylthiourea ligands having peripherally connected cyano or fluoro groups

Alkali, M., Iliş, M., Micutz, M., Pasuk, I., Gabriela Popescu, R., Cătălin Marinescu, G., & Cîrcu, V. (2024). Journal of Molecular Liquids, 414, 126112.

Preparation and characterization of bentonite clay catalysts for transesterification of waste cooking oil into biodiesel

Usman, F. and Alkali, M. (2024). Fudma Journal of Sciences, 8(2), 204-211.

Perspectives on the structural design and luminescent behavior of liquid crystalline materials based on copper (I) complexes

Alkali, M., & Cîrcu, V. (2023). Chemistry, 5(1), 646-661.

Phytochemical Constituents & Physicochemical Properties of Medicinal Plant (Euphorbia hirta) Leaves

Haruna, S. Y., Alkali, M., Isah, A. M., Garba, A. A., Magaji, B., & Zubairu, M. S. (2023). International Journal of Modern Chemistry, 15(1), 30-41.

Characterization of Alkyd Resins Prepared from Okra Seeds Oil with Two Polybasic Acids

Abba, A., Alkali, M., Umar, K. J., Hassan, L. G., Yakubu, M. K., & Umar, M. F. (2022). Equity Journal of Science and Technology, 9(2), 34-42. Kebbi State University of Science and Technology.

Health Risks of Ecosystem Services in Ologe Lagoon, Lagos, Southwest Nigeria

Yahaya, T., Alkali, M., Onyeziri, J. A., Abdulazeez, A., Shemshere, U., Bakare, T., Kalgo, B., & Yusha'u, Y. (2022). Pollution, 8(2), 681-692. University of Tehran Press.

Occurrence and Health Risk of Heavy Metals and Microorganisms in Wastewater Collected from selected Eateries in Lekki, Lagos, Nigeria

Yahaya, T., Abdulganiyu, Y., Alkali, M., Obi, M., Ukpere, M., Ayodeji, S. O., & Ahmadu, A. I. (2022). Nigerian Journal of Environmental Sciences and Technology (NIJEST), 6(1), 38-46.

Preliminary Studies on Biofuel Potentials of Shea Nut Cakes in Niger State, Nigeria

Umar, M. T., Musah, M., Ibrahim, I. L., Abdulkarim, A., Paiko, M. A., & Alkali, M. (2021). CajoST, 3(1), 76-82.

The Effects of Temperature and Catalyst Concentration on Transesterification of Oil Extracted from Ceiba Pentandra (silk cotton) Seed Oil.

Umar, M. T., Musah, M., Ibrahim, I. L., Yakubu, A., Aliyu-Paiko, M., & Alkali, M. (2020). International Journal of Science for Global Sustainability, 6(3), 143-150. Federal University Gusau.

Determinants and Prevalence of Metabolic Syndrome in Subjects Attending the General Outpatient Department of the Federal Medical Centre Katsina State, North West Nigeria

Yaradua, A. I., & Alkali, M., et al. (2020). Asian Journal of Biochemistry, Genetics and Molecular Biology, 5(1), 28-37.

A Comparative Evaluation of the Heavy Metals Content of Sorghum Cultivated in Katsina State, North West Nigeria

Yaradua, A. I., Alkali, M., Alhassan, A. J., Imam, A. A., Nasir, A., Usman, F., Shuaibu, L., Idi, L., Muhammad, I. U., & Bello, Y. K. (2019). ACTA Scientific Nutritional Health, 3(11), Article ISSN: 2582-1423.

Heavy metals analysis in human body (Toenail, Fingernail and Hair Samples) and drinking waters of Santa Fe Region, Argentina

Bungudu, J. I., Shuaibu, L., Mohammed, U. F., & Alkali, M. (2018). Asian Journal of Applied Chemical Research, 2, 1-14.

NETWORKS AND MEMBERSHIPS

[Current] United Kingdom

Royal society of chemistry Member

[Current] United States of America

American Chemical Society Member

[Current] Nigeria

Society for leather chemists and technologists of Nigeria Member

[Current] Nigeria

Science Association of Nigeria Member

SKILLS

MestreNova 12 / ChemDram / origin / Microsoft Office package: Microsoft Word, Excel, PowerPoint, Access / Mercury 4.2.0