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3. **Current Research Activities including Research Grants:**

(i) Current Research Activities

a) Assessment of impacts of Climate and Land-use changes on the groundwater resources of coastal environments of SW-Nigeria.
b) Assessment of Groundwater Quality, and Hydrogeochemical mapping of saline water intrusion in coastal sedimentary aquifers of SW-Nigeria:
c) Hydrogeological mapping and delineation of groundwater potential zones in the crystalline basement terrain of SW-Nigeria using integrated GIS and Remote Sensing approach.
d) Evaluation of Hydraulic characteristics of weathered Basement aquifers of SW-Nigeria using hydraulic empirical approach and field pumping tests.
e) Geochemical and engineering geological studies of clay-shale materials in selected sedimentary basins in Nigeria as land-fill liners in waste disposal systems.

4. **Publications/Patents:**

(i) Books and/or articles in books:

1) Tijani, M.N. (2023): Geology of Nigeria. In: Faniran, A., Jeje, L.K., Fashae, O.A., Olusola, A.O. (eds) Landscapes and Landforms of Nigeria. World Geomorphological Landscapes. Springer, Cham. https://doi.org/10.1007/978-3-031-17972-3_1.
2) Tijani, M.N. (2008): Hydrochemical and stable isotopes compositions of saline ground-waters in the Benue Trough, Nigeria. In: Adelana SMA & MacDonald AM *Applied Groundwater Studies in Africa.* IAH Selected Papers on Hydrogeology, Volume 13, CRC Press/Balkema, Leiden, The Netherlands 351-369.

(ii) Published papers in learned journals:

1) Nnamdi Obini, Moshood N. Tijani, Iniemem J. Inim and Abdullateef Lawal (2025): Delineating groundwater potential zones (GWPZ) in part of basement complex of Southwestern Nigeria using integrated geophysical methods. Arabian Journal of Geosciences (2025) 18:92. https://doi.org/10.1007/s12517-025-12216-2

2) Sobowale A., Dideoluwa F. P., Adeniyi A. R. Sakariyawo S. O., Tijani, M.N. and Igboro S. B. (2024): Simulation of managed aquifer recharge by recycling treated wastewater in Nigeria. Agricultural Engineering International: CIGR Journal, Vol. 26(2): 9-22. https://cigrjournal.org/index.php/ Ejounral/article/view/8925

3) Olutoyin A. Fashae, Moshood N. Tijani, Adegbenga E. Adekoya, Sarafat A. Tijani, Efosa G. Adagbasa, Jamiu A. Aladejana (2022): Comparative Assessment of the Changing Pattern of Land cover along the Southwestern Coast of Nigeria using GIS and Remote Sensing techniques. Scientific African 17 (2022) (https://doi.org/10.1016/j.sciaf.2022.e01286).

4) Ayuba R. and Tijani M. N. (2021): Hydrochemical Characterization of Groundwater in Lokoja, North-Central Nigeria. Sustainable Water Resources Management (SWAM). https://www.springer.com/journal/40899.

5) Moshood N. Tijani, Nnamdi Obini and Iniemem J. Inim, (2021): Estimation of Aquifer Hydraulic Parameters and Protective Capacity in Basement Aquifer of South-Western Nigeria Using Geophysical Techniques. Environmental Earth Sciences, 80:466. https://doi.org/10.1007/s12665-021-09759-4

6) Alan M MacDonald, R Murray Lark, Richard G Taylor, Tamiru Abiye, Helen C Fallas, Guillaume Favreau, Ibrahim B Goni, Seifu Kebede, Bridget Scanlon, James P R Sorensen, Moshood Tijani, Kirsty A Upton and Charles West (2021): Mapping groundwater recharge in Africa from ground observations and implications for water security. Environmental Research Letters, Volume 16, Number 3: 4012. https://doi.org/10.1088/1748-9326/abd661

7) Lawal Abdullateef, Moshood N. Tijani, Nabage A. Nuru, Shirputda John and Aliyu Mustapha (2021): Assessment of groundwater recharge potential in a typical geological transition zone in Bauchi, NE-Nigeria using remote sensing/GIS and MCDA approaches. Heliyon 7. https://doi.org/10.1016/ j.heliyon.2021.e06762

8) Abdullateef Lawal, Moshood N. Tijani, Matteo D'Alessio and Abubakar Sadiq Maigari (2021): Application of geographical information system to geoelectrical data for evaluation of the vulnerability of aquifers in parts of Bauchi, North-eastern Nigeria. Environmental Earth Sciences, 80:16. https://doi.org/10.1007/s12665-020-09308-5

9) Jamiu A. Aladejana, Robert M. Kalin, Ibrahim Hassan, Philippe Sentenac and Moshood N. Tijani (2020): Origin and Residence Time of Groundwater in the Shallow Coastal Aquifer of Eastern Dahomey Basin, Southwestern Nigeria, Using δ18O and δD Isotopes. Applied Sciences, Vol.10 (22):7 980 https://doi.org/10.3390/app10227980

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(i) Patents/country of patenting (if any): **None.**

(ii) Edited / Published Conference Proceedings:

1) Lawal, A., Tijani, M.N. and Sarkin-Yandoka, B.M. (2020): Geoelectrical Assessment of the Vulnerability of Aquifers and Soil Corrosivity in the Parts of Bauchi, North-eastern Nigeria. Proceedings of the 56th Annual International Conference & Exhibitions of the Nigerian Mining and Geosciences Society (NMGS), 22 - 27, March 2020, Volume 2:409-413

2) Tijani, M.N., Adesiyan, A.A., Aruwa, J.H., Diop, S. and Obini, N. (2020): Experimental Studies of Effects of Hydrochemical Interactions of Seawater on Strength and Durability of Cement Concretes. Proceedings of the 56th Annual International Conference & Exhibitions of the Nigerian Mining and Geosciences Society (NMGS), 22 - 27, March 2020, Volume 1:147-153.

3) Tijani, M. N., Olaleye, A. O., Olubanjo, O. O. and Diop, S. (2018): Environmental Assessments of Impacts of Land-use Changes and Quality Status of Soils in Eleyele Wetland, Ibadan, SW-Nigeria. In: G. Rahmann, V. olowe, T. Olabiyi, K. Azim, O. Adeoluwa (Eds.) 20018: Scientific Track Proceedings of the 4th Afrian Organic Conference " Ecological and Organic Agriculture Strategies for Viable Continental and National Development in the Context of the African Union's Agenda 2063" Nov. 5-8, 2018, Saly Portudal, Senegal. Pp. 277 – 283.

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8) Tijani, M.N., Olaleye A.O. and Olubanjo O. O. (2011): Impact of Urbanization on Wetland Degradation: A Case Study of Eleyele Wetland, Ibadan, Southwest, Nigeria. In: O. Martins, E. A. Meshida, T. A. Arowolo, O. A. Idowu and G. O. Oluwasanya (Eds.), Proceedings of the Environmental Management Conference, September 12-15, 2011, FUNAAB, Abeokuta, Nigeria. Vol. 2: 435 – 457.

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(iii) Technical Reports and Monographs:

1) Lapworth D.J, Danert K, Eichholz M, Gicheruh C, Grönwall J, Healy A, Kebede S, Mwango F, Villholth K, Tijani, M.N. (2023) Urban groundwater quality in Africa: benefits and challenges. Thematic Brief for AMCOW Pan-African Groundwater Programme (APAGroP). NERC Open Research Archive. https://nora.nerc.ac.uk/id/eprint/536273
2) Healy, A., Tijani, M.N., Gronwall, J., Eichholz, M., Villholth, K.G., Mwango, F., Danert, K., Upton, K., Lapworth, D.J., Lalika, M.C.S., Gicheruh, C. (2022): Urban Groundwater in Africa: a dialogue for resilient towns and cities. Abuja, Nigeria, African Ministers' Council on Water, 48pp.NERC open Research Archive. https://nora.nerc.ac.uk/id/eprint/532806
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5) Lapworth, D J, Stuart, M E, Pedley, S, Nkhuwa D C W and Tijani, M.N. (2017): A review of urban groundwater use and water quality challenges in Sub-Saharan Africa. British Geological Survey Open Report, OR/17/056. 133pp.
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9) Lapworth D.J., MacDonald A.M., Bonsor H., Tijani, M.N., & Calow R.C. (2011): Preliminary results from a Water Economy and Livelihoods Survey (WELS) in Nigeria and Mali, sub-Saharan Africa: Investigating Water Security across a Rainfall transect. British Geological Survey Open Report, OR/11/018. 74p.
10) Tijani, M.N. (2010): Groundwater System: A Resource between the Twin Forces of Nature and Man. Faculty Lecture Presentation at the Faculty of Science, University of Ibadan, Ibadan Nigeria. Printed by Ibadan University Press. 53p.
11) Ogunsanwo, O., Adeyemi, G.O., Tijani, M.N., Oyediran I.A. (2007): Geological and geotechnical assessment of Polishing and Ornamental Characteristics of outcrop units of Basement Igneous and Metamorphic rocks in Southwestern Nigeria. Technical Report to Nigeria Geological Survey Agency of (NGSA), 46p.

12) Abimbola A.F., Tijani, M.N., Olatunji, A.S. & Jimoh, M.O. (1999): E.I.A. Report on the proposed Aba Gas-line Project, (Geologists' sub-group); Reports submitted to the Lighthouse Petroleum Engr. Co. Ltd., Warri, as part of the overall E.I.A. 50p.

13) Tijani, M.N. & Abimbola A.F. (1999): Interim Report on Brine Salt Project Okpoma, Gabu, Ameri and Awe): Interim report submitted to Global Minerals Ltd., as part of Nigeria Mineral Appraisal and Monetization Programme (NIMAMOP) Stage II: 26p.

14) Uma, K.O., Tijani, M.N. & Loehnert E.P. (1995): Hydrochemical Research on the origin of saline groundwaters in the Benue-Trough, Nigeria: Final Report (Project No. I/65602) submitted to the Volkswagen Foundation, Hannover, Germany: 37p.

5. Major Conference Attendance / Presentations (Since 2005)

1) 4th European Regional Conference of IAEG (EUROENGEO 2024): Engineering Geology and Geotechnics: Building for Future. October 8th to 12th, 2024 at Hotel Dubrovnik Palace, Dubrovnik Croatia.

2) 29th Colloquium of Africa Geology: A Biennial Congress under the auspices of the Geological Society of Africa (GSAf): 26th – 29th September 2023, Windhoek, Namibia.

3) *50th IAH International Congress on Groundwater - A Matter of Scale:* 17th – 22nd September 2023, Cape Town, South Africa.
Panelist Discussant: UNESCO-IAH Special Session on the Future in Groundwater Resources Research for Africa.

4) UN-Water Summit on Groundwater 2022: A culminating event of the 2022 campaign "*Groundwater: making the invisible visible*" 6-8 December 2022, *UNESCO* Headquarters *Paris.*
Session Convener: AMCOW Groundwater Event – *"Groundwater: Focus on Africa* - Presentation: AMCOW Strategic Groundwater Programme for Water Security and Resilience in Africa*.*

5) 9th World Water Forum Dakar 2022: Organized by Senegal and the World Water Council with the theme - *Water Security for Peace and Development* - 21st – 27th March 2022, Dakar Senegal.
AMCOW Session Convener: AMCOW Groundwater Event – *"Making Invisible Visible for Socio-economic Development"*. Presentation: AMCOW Pan-African Groundwater Program (APAGroP): *Operational Pathways, Programmatic and Business Planning Towards an Implementation Programme 2022-2030.*

6) 2021 World Water Week (Online): Organized by Stockholm International Water Institute (SIWI) under the theme "*Building Resilience Faster*" - August 23-27, 2021, Stockholm, Sweden*.*
AMCOW Session Convener: AMCOW Groundwater Event – Presentation: AMCOW-Groundwater Program: *Spearheading a Vision on Groundwater Resilience in Africa*.

7) **20th African Water Association (AfWA) Congress and Exhibition under the theme:** "Breaking new grounds to accelerate access to water and sanitation for all" - **24th – 27th February 2020. Kampala, Uganda.**

AMCOW Groundwater Sessions: APAGroP Working Group **and** Groundwater Policy Dialogue meetings - Presentation: AMCOW Pan-African Groundwater Program (APAGroP): Working Group Overview.

8) *46th IAH International Congress on Groundwater Management and Governance: -Coping with Water Scarcity*, 22th to 27th of September 2019, Málaga, Spain.
Paper Presented: *Tijani, M.N. A. E. Adekoya, O. A. Fashae, S. A. Tijani & J. A. Aladejana:* Impacts of Land-Use Changes and Urbanization on Coastal Groundwater Resources of Lagos, SW-Nigeria: *Integrated Hydrogeochemical and GIS-based Assessments.*

9) International Conference of the Sustainable Livelihoods and Development Network for Africa (SLIDEN AFRICA) which will be held from March 3rd-6th 2019 at Oscarpark Hotel, West Legon, Accra, Ghana.

Paper Presented: ***Tijani, M.N.,*** *Adekoya, A.E., Fashae, O.A., Tijani, S.A. and Aladejana, J.A*. Land-Use Changes and Urbanization Impacts on Sustainability of Coastal Groundwater Resources of Lagos, SW-Nigeria: *Integrated Hydro-geochemical and GIS-based Assessments.*

10) *4thAfrian Organic Conference "Ecological and Organic Agriculture Strategies for Viable Continental and National Development in the Context of the African Union's Agenda 2063"* Nov. 5-8, 2018, Saly Portudal, Senegal. Pp. 277 – 283.

Paper Presented: *Tijani, M. N., Olaleye, A. O., Olubanjo, O. O. and Diop, S.* (2018): Environmental Assessments of Impacts of Land-use Changes and Quality Status of Soils in Eleyele Wetland, Ibadan, SW-Nigeria.

11) 17th Conference of the Geological Society of Africa (GSAf) and 27th Colloquium of Africa Geology: Africa: *A Key Player for a Better and Sustainable World,* 21 -28, July, 2018. Aveiro, Portugal.
Paper Presented: *Tijani, M.N., Ayodele O.A. and Wagner J.-F.*: Geochemical Characterization and Heavy Metals Sorption of Clay-Shale Materials from Anambra Basin, SE-Nigeria as Landfill Liners.

12) 7th National Water Conference: *Water and Wastewater,* December, 12-14, 2017, Kano, Nigeria,
Paper Presented: *Tijani, M.N., Healy, A., MacDonald, A., Upton, K., Goni, I. and Bristow, G.* Proliferation of household Wells and Boreholes: Implication for the Resilience and Sustainability of Groundwater Resources in Lagos, Nigeria.

13) *44th IAH International Congress on Groundwater, Heritage and Society*, 25th Sept. to 29th Sept., 2017, Dubrovnik, Croatia.
Paper Presented: *Tijani, M.N. & Akanbi O.A.,* Hydrogeological and Hydraulic Characterization of Weathered Crystalline Basement Aquifers of Ibarapa Area, SW-Nigeria.

14) *43rd IAH International Congress on Groundwater and Society*, 25th - 29th September, 2016, Montpellier, France.

Paper Presented: *Tijani, M.N.,* Alichi U. A. & Diop, S., Influence of Bedrocks on Hydraulic Characteristics of Weathered Basement Aquifers: A Case Study from SW- Nigeria.

15) *5th International Conference on Geotechnique, Construction Materials and Environment, (GEOMATE-5), Osaka, Japan, Nov. 16-18, 2015.*
Paper Presented: *Tijani, M.N.,* J.F. Wagner and M.E. Nton, Clay-shale Materials as Low-cost Landfill Liners: An Integrated Geochemical and Geotechnical Assessments.

16) 41st IAH International Congress on *"Groundwater: Challenges and Strategies"*, 15th -19th September, 2014, Marrakech, Morocco.
Paper Presented: *Tijani, M.N.,* Lapworth D.J. and MacDonald A.M., Hydrochemical and Isotopes Studies of Shallow Basement Aquifers in Nigeria: Implications for Groundwater Recharge.

17) 2014 IAHS International Conference on IWRM of ICWRS – *"Evolving Water Resources Systems: Understanding, Predicting and Managing Water–Society Interactions",* June 2014 Bologna, Italy.
Paper Presented: *Tijani, M.N.,* Oke, S.A. and Olowookere A.T., Hydrogeochemical Characterization of Shallow Groundwater System in the Weathered Basement Aquifer of Ilesha Area, South-western Nigeria.

18) 34th International Geological Congress (IGC), *Brisbane, Australia, 5 –10 Aug. 2012.*
Paper Presented: *Tijani, M.N. & Talabi A.O. (2012):* Hydrochemical and Stable Isotope Characterization of Groundwater System in Crystalline Basement terrain of Ekiti area, Southwestern Nigeria.

19) 7th International Groundwater Quality Conference, GQ-10 *(Groundwater Quality Management in a Rapidly Changing World;* Zurich, Switzerland, 13–18 June 2010.
Paper Presented: *Talabi A.O. and Tijani, M.N.,* Assessment of groundwater quality in parts of the basement complex terrain of southwestern Nigeria.

20) 7th International Symposium on Management of Aquifer Recharge (ISMAR-7) - Oct. 9th-13th, 2010; Abu-Dhabi. 8p.
Paper Presented: *Tijani, M.N.,* Alichi., A.U. & Diop, S. Characterization of weathered basement aquifers: implication for groundwater recharge.

21) Participant at the International DAAD-Expert Seminar "Wastewater & Waste Management in Coastal Areas" Accra, Ghana (28th February – 5th March, 2010).
Paper presented: *Tijani, M.N.* (2010): Quality Assessment of Coastal Freshwater Resources in Nigeria: Prospects and Challenges of Sustainable Water Resources Management.

22) Participant at the International DAAD-Alumni Meeting „Water Watewater and Environment: Urgent Issues for Sustainability" TU Braunschweig (25th October to 3rd November, 2009).
Paper presented: *Tijani, M.N. (2009):* Assessment of Water Resources Contamination in Ibadan metropolis, SW-Nigeria: Scenario of urbanization impacts on water resources from a developing country.

23) Participant at the International DAAD-Alumni Summer school „System Solutions to Integrated Water Resource Management "TU Illmenau (23rd March - 28th March2009).
Paper presented: *Tijani, M.N. (2009):* Perspectives of Aquifer Management for Water Supply: A case Study of Ajali Sandstone Formation, SE-Nigeria.

24) Participant at the International DAAD-Alumni Summer school „Rural Sanitation Management" Universitaet Siegen, (27th April to 10th May 2008).
Paper presented: *Tijani, M.N. (2008):* An Assessment of shallow groundwater contamination under Irrigation-induced Recharge.

25) 6th International Symposium on Management of Aquifer Recharge, ISMAR 6; 22-26, Nov. 2007, in Phoenix, Arizona, USA.
Paper presented: *Tijani, M.N. & Agakwu A.A. (2007):* Irrigation-induced Infiltration and Recharge: Implication for Groundwater Quality.

26) Gulf of Guinea Geosciences Congress (CGGG) November 8-10, 2006; Kribi - Cameroon
Paper presented: *Tijani, M.N. (2006):* Stable and radioactive isotopes profiles of saline Groundwaters in the Benue-Trough, Nigeria: Imprints of inland extension of Gulf of Guinea.

27) 8th International Conference on the Biogeochemistry of Trace Elements, April 3 – 7, 2005, Adelaide, Australia.
Paper presented: *Tijani, M.N., Okunlola, O.A. & Abimbola A.F. (2005):* Release and redistribution of trace elements by weathering-pedogenetic processes under crystalline bedrock settings.

28) Participant at the annual conference of African Group of German Geoscientist (Jahre Tagung der Afrikagruppe deutcher Geowissenschaftler), June 2005 Hamburg, Germany.
Paper presented: *Tijani, M.N. (2005):* Assessment of heavy metals contaminations in water and bottom sediments of urban drainage systems: Indicator of urbanization in Nigeria.

29) 5th International Symposium on Management of Aquifer Recharge, ISMAR 5; 12-16 June, 2005 in Berlin, Germany.
Paper presented: *Tijani, M.N. (2005):* Hydraulic and geochemical characterization of Ajali Sandstone aquifer, SE-Nigeria: Implication for groundwater recharge process.

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