

RESEARCH: Prof. Moshood N. TIJANI

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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.

(ii) Research Grants

- a) *Co-Principal Investigator (2024):* Studies on the Effects of Climate Change on Nigeria's Groundwater Resources - *Hydrogeological Assessments of Nine Cities in Nigeria*. As part of UNESCO (Nigeria) Project on "Improving Groundwater Governance for Water Security and Building Resilience against the Impact of Climate Change in Human Settlements". (Project N°: 4500505115 – On-going).
- b) *Co-Principal Investigator (2023-2027):* GroundWater SuStainable and Equitable development uNder Constraints of Ecosystem (GWS-SENCE) conservation and saltwater intrusion prevention - A collaborative research with the IHE Delft Institute for Water Education, under funding from the Dutch Ministry of Foreign Affairs to implement the Water and Development Partnership Programme in 3 African

Countries (Nigeria, Egypt and Kenya). DUCP3 Project - Ref No: 2022/076/110791/EWH. (On-going)

- c) Co-Investigator (2023-2027): Groundwater for Resilience in Africa (G4DR in Africa): A collaborative GEF International Waters Project involving The African Ministers Council on Water (AMCOW), International Water Management Institute (IWMI) and the International Institute for Applied Systems Analysis (IIASA), supported by FAO. (On-going)
- d) Co-Principal Investigator (Nov. 2023 - March 2024): HEFCW (Higher Education Funding Council for Wales) ODA Award. Add-on funding for Field Equipment in respect of project on “Adaptation and Resilience in the Global South: the rise of the off-grid city and unconventional utility supplies -Case Study of Lagos”. In partnership with Dr. Adrian Healy, University of Cardiff, UK.
- e) Co-Principal Investigator (2021-2027): Groundwater level monitoring with focus on impacts of climate induced sea-level rise on groundwater abstractions and quality: A case study of coastal aquifers of Lagos and environs. UKRI's Global Challenges Research Fund in partnership with Dr. Adrian Healy, University of Cardiff, UK (Ref: HealyFLF) as part of UKRI Project on “Water stressed cities: individual choice, access to water and pathways to resilience in sub-Saharan Africa”. Grant No. MR/S031863/1 and MR/X022943/1 (On-going)
- f) Co-Principal Investigator (2017-2018): Consortium Grants on “*Resilience in Groundwater Supply Systems*” (RIGSS) in partnership with the Cardiff University, Wales, UK; British Geological Survey, UK and SKAT Foundation, Switzerland. Supported by Natural Environment Research Council (NERC), UK, as part of the GCRF: Building Resilience Research Programme (Grant number: NE/P01545X/1). (Completed)
- g) Co-Investigator: NWRCBNet-SW (2019): Project on “*Hydrogeological Mapping of Catchment Area of Ogun-Osun River Drainage System, South-Western Nigeria*” Funded by National Water Resources Institute (NWRI), Kaduna in collaboration with Federal Ministry of Water Resources, Abuja and World Bank, Abuja for National Water Resources Capacity Building Network (NWRCBNet). (Completed)
- h) Principal Investigator (2016-18): Research Grant on “*Impacts of Land-use and Climate Induced Changes on Coastal Environment: An Integrated Hydrogeological, GIS-Based Vulnerability and Social-Economic/Livelihood Assessments of Coastal Environment of SW-Nigeria*” Funded by the University of Ibadan Research Foundation (UI-RF). (Completed)
- i) Co-Principal Investigator (2016-2017): UK-funded UPGro Programme on “*Compilation of the Africa Groundwater Atlas*” in partnership with the British Geological Surveys (BGS). The Nigeria page (co-authored) is the most visited of all the country profiles and has been cited in several academic publications. (http://earthwise.bgs.ac.uk/index.php/Hydrogeology_of_Nigeria). (Completed)
- j) Co-Investigator (2014-2015): UPGro Consortium Grants in respect of “*Safe groundwater provision for the urban poor - addressing challenges of water quality, governance and changing future scenarios*”. Supported by NERC, UK in partnership with the British Geological Surveys (BGS). (Completed)

- k) Co-Investigator (2013-2014): UPGro Consortium Grants on “Groundwater recharge in Africa: identifying critical thresholds”. Supported by NERC UK in partnership with the British Geological Surveys (BGS). (Completed)
- l) Co-Principal Investigator (2010-2011): CODESRIA-funded Research study of the “Comparative assessment of Wetland Losses and Degradation in Nigeria and Lesotho” Funded by the Council for the Development and of Social Science Research in Africa (CODESRIA) for the Comparative Research Network Programme (CRN) - CRN/CP4/2009. (Completed)
- m) Co-Investigator (2010-11): Study of “Water Economy and Livelihoods Survey (WELS) in Nigeria and Mali, sub-Saharan Africa: Investigating Water Security across a Rainfall transect”. Funded by DFID–UK in partnership with the British Geological Surveys (BGS). (Completed)
- n) Principal Investigator and Nigeria Team Lead (2011): Country-based study of “Livelihood impacts of improved on-farm water control in sub-Saharan Africa: An empirical investigation of three modes of small-holder agricultural water management”. funded by International Water Management Institute (IWMI) Colombo, Sri Lanka. Project Code 058-01-01-ROF-PR-M615 (Completed)
- o) Co-Investigator (1993-1996): Study of “Hydrochemical Research on the origin of saline groundwaters in the Benue-Trough, Nigeria”. Funded by Volkswagen Foundation, Hannover, Germany (Project No. I/65602). (Completed)

4. List the postgraduate candidates/researchers (with titles of projects) you have mentored with dates:

S/No.	Doctoral Students' Name	Year	Project / Thesis Title
1	TALABI Abel Ojo (Ph.D; Completed)	2013	Hydrogeochemical and stable Isotope Studies of Shallow groundwater in Ekiti State, Nigeria.
2	AKANBI, A.O. (Ph.D; Completed)	2016	Hydrogeologic Characterization of crystalline Basement Aquifers of part of Ibarapa Area, Southwestern – Nigeria.
3	RUFAL, Ayuba (PhD; Completed)	2021	Hydrochemical Evaluation and Stable Isotopes Studies of Groundwater in Lokoja Area, North Central Nigeria.
4	LAWAL, Abdullateef (PhD; Completed)	2021	Characterization of Aquifers in Bauchi-Alkaleri-Kirfi Areas, Northeastern Nigeria.
5	INIM, James I. (PhD; in progress)	-	Integrated Study of Groundwater Vulnerability in Akwa-Ibom, NE-Niger Delta Region, Nigeria.

S/No.	M.Sc. Students' Name	Year	Project Title
1	ONIBALUSI, Steven Oladiran	2000	Hydrochemical and Environmental Impact Assessment of Orita Aperin Waste Dump Site, Ibadan, SW - Nigeria.
2	AKINADE Olatunji Shadrach	2000	Integrated Geological Approach to groundwater Exploration and Hydrochemical evaluation in the crystalline basement Terrain. A case study from Oke-Agbe Akoko, SW-Nigeria.
3	ADENIRAN, Bamidele Musbau	2001	Grain Size heavy metal distribution in stream sediments within Ibadan metropolis, SW - Nigeria.
4	OYEWUMI Olayinka	2001	Hydrochemical Assessment of surface water within Abeokuta Area of Southwestern Nigeria.
5	AKANBI, A. Olarenwaju	2001	Assessment of Trace metals in drainage system within Abeokuta township, Southwestern Nigeria.
6	TEMOWO, O. Oluwatoyin	2003	Hydrochemical Assessment of water Quality of Arba Dam, University of Ibadan, Southwestern Nigeria.
7	OMOTOSHO Oladele Ajiboro	2006	Bio-hydrochemistry of Eleyele Lake and its feeding stream in Ibadan metropolis, Southwestern Nigeria.
8	IKPE Enamekere Usen	2006	Geochemical Assessment of bottom sediments contamination of Eleyele dam catchment, Ibadan, SW - Nigeria.
9	ALANA Adelakun Vincent	2007	Hydrogeochemical Assessment of Groundwater from Ajali Sandstone in Anambra basin, SE- Nigeria.
10	ODUNAIYA, O. Adewale	2007	Evaluation of Hydraulic and Textural Characteristics of Campano-Maastrichtian Lokoja Sandstone, Bida Basin, Nigeria.
11	AGAKWU, Ally Augustine	2007	An Experimental Assessment of Impacts of Agricultural Soil Amendments on Shallow groundwater Zone beneath Irrigated arable fields.
12	ALICHI Alich U.	2008	Impact of Bedrock Type on the Hydraulic Characters of Weathered Basement (Regolith) Aquifers: A Case Study of Ibadan, Southwestern Nigeria.
13	ALADEJANA, Jamiu	2010	Hydrochemical and Bacteriological Assessment of Groundwater Around Abeokuta, Southwestern Nigeria.
14	OKE, Saheed Adeyinka	2010	Hydrogeochemical Assessment of Influence of Bedrock Weathering on Chemical Character of Shallow Groundwater System; A case study of Abeokuta.
15	ALADEJIMOKUN, O. Adeniyi	2010	Petrography and Geochemical of Upper Tertiary Sediments from Lagos Area, Eastern Dahomey Basin.
16	SUALLA, Solomon	2011	Laboratory measurement of the geoelectrical response and geochemical characterization of Crude oil Impacted coastal sands.
17	ABIODUN, Esther	2011	Assessment of Impact of Urbanization on Wetland Degradation; A case Study of Eleyele Wetland.

S/No.	M.Sc. Students' Name	Year	Project Title
18	INIM, James Iniemem	2011	Assessment of Effects of Compaction on Electrical Resistivity of Lateritic Soils from Ibadan, SW-Nigeria.
19	ADESINA, Rasheed Babatunde	2012	Geotechnical and Geochemical Assessments of Shale units in Anambra basin, Southeastern Nigeria. As Compacted clay liner (CCL) in Landfills.
20	OSEKITA, Bamidele Ore	2012	Hydrogeochemical Assessment of Groundwater in Sagamu and Environs, Southwestern Nigeria.
21	KAREEM, Rasheed Oniyide	2012	Hydrochemical Assessment of Groundwater quality in Sagamu Area Southwestern Nigeria.
22	ADETU, Saheed Olawale	2013	Experimental Studies of the Influence of Seawater on Strength of Cement Concrete Structures.
23	BALOGUN, Isiak Olumide	2013	Aspects of Hydrochemical Characterization of Groundwater in parts of Coaster Aquifer in Lagos, Southwestern Nigeria.
24	ASUQUO, Mercy E.	2015	Hydrochemical Analysis of Leachate from a waste Dumpsite and soils in Oke-Odo area of Lagos Metropolis, SW-Nigeria.
25	OLUCHUKWU, Ikechukwu N.	2016	Estimation of Basement Aquifer Hydraulic Properties from Resistivity Sounding Data - Case Study of Ibadan metropolis, SW-Nigeria.
26	ABOLUWARIN, Oluwatoba	2016	Assessment of Trace Elements on Groundwater of Coastal Aquifer in Part of Lagos, SW-Nigeria.
27	ANDREW, Emmanuel O.	2016	Hydrochemical Evaluation of Coastal Groundwater Resources with Respect to Saltwater Intrusion: A Case Study of Lekki-Epe Coastal Communities, Lagos, SW-Nigeria.
28	DANGA, Abdulmalik O.	2016	Delineation of saltwater impacted zone in coastal aquifers of part of Lagos metropolis using Geophysical Approach
29	ADESIYAN, Adedayo A.	2017	Hydrogeochemical Assessments of Interaction of Seawater with Concrete Materials.
30	AYODELE, Oluwanisola A.	2017	Geochemical and Sorption Characteristics of Selected Clay-Shale Materials from Anambra Basin, SE - Nigeria.
31	ARUWA, John H.	2017	Experimental Studies of Impacts of Seawaters on Strengths of Cement Concrete.
32	OBINI, Nnamdi	2018	Hydrochemical Evaluation of Sources of in Saline Ground-waters in Lower and Middle Benue Trough, Nigeria.
33	OWOLABI, Tunbosun, A.	2018	Hydrogeochemical Evaluation of Groundwater in Uburu and Okposi Area, SE-Nigeria.
34	OMOTOSO, Rayanah, O.	2018	Quality Assessment of Household Drinking Water in part of Lagos State, SW-Nigeria.

S/No.	M.Sc. Students' Name	Year	Project Title
35	AJIWOJU, Bankole, D.	2018	Geophysical and Hydrochemical Investigation of Coastal aquifers in Badagry, SE-Nigeria.
36	ADESANYA, Oluwasegun	2018	Hydrochemical Assessment of Groundwater in Epe and Ibeju Lekki area, SW-Nigeria.
37	AKINTUYI, Shola, S.	2018	Geophysical Assessment of Saline water Intrusion of Coastal Aquifer in Ibeju-Lekki Area of Lagos State, SW-Nigeria.
38	ADENIYI, Abraham R.	2019	Hydrochemical Assessment of Groundwater Quality in Ibadan North LGA, SW-Nigeria.
39	APEKO, Samuel O.	2019	Hydrochemical Evaluation of Shallow Groundwater Quality in Moniya- Akinyele Area, SW-Nigeria.
40	FARAI, Ayokunle T.	2019	Physio-chemical and Bacteriological Analyses of Drinking Water Quality in the Northern Part of Ibadan -SW-Nigeria.
41	ADEPOJU Ahmed A.	2020	Hydrogeochemical Evaluation of Surface and Ground-Water Resources within the Ondo-Ogun Bitumen Belt, Dahomey Basin, Southwestern Nigeria.
42	POPOOLA, Janet Tijesuni	2022	Assessment of Potential Impacts of Metal Extraction Factory on Groundwater Quality: A Case Study of a Metal Extractive Factory, Ikorodu, Lagos, Nigeria.
43	SALAKO, Segun Olabode	2022	A Novel Approach to assessing Aquifer Resilience in Shallow Coastal Groundwater System: Implications for Impact of Changing Climate on Groundwater Quality.
44	KOLAWOLE Oluwapelumi Emmanuel	2023/24	Environmental Impact Assessment of Surface Water and sediments within Challawa Industrial Estate, Kano Metropolis.

(i) 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>

- 3) MacAllister D.J., Aladejana J.A, Lapworth DJ, Chenery S, Eduvie M, Iorkumbur E, Kadiri D, Onwuka S; Smedley P; Tijani, M.N. (2022). Assessment of toxic metals in groundwater in Enugu, Nigeria: Pilot study results. British Geological Survey Open Report, OR/22/061. 48 pp.
- 4) Healy, A.; Upton, K.; Bristow, G.; Allan, S.; Bukar, Y.; Capstick, S.; Danert, K.; Furey, S.; Goni, I.; MacDonald, A.; Theis, S.; Tijani, M.N. Whitmarsh, L. (2018): Resilience in Groundwater Supply Systems: Integrating Resource Based Approaches with Agency, Behaviour and Choice. RIGSS Working Paper, Cardiff University, UK. Submitted to Natural Environment Research Council (NERC) as part of the GCRF: Building Resilience research programme. 50pp.
- 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.
- 6) Tijani, M.N. (2016): Groundwater: The Buried Vulnerable Treasure. Inaugural Lecture Presentation at the University of Ibadan, Ibadan Nigeria. Printed by Ibadan Univ. Press. 80p.
- 7) Tijani, M.N., Crane E, Upton, K. & Ó Dochartaigh, B.É. (2018): Africa Groundwater Atlas: Hydrogeology of Nigeria. British Geological Survey Publication, 22p.
http://earthwise.bgs.ac.uk/index.php/Hydrogeology_of_Nigeria
- 8) Tijani, M.N., Obayelu, A.E., Olatunji, A.S., Sobowale, A., Aladejana, J. and Oke, S. (2011): Livelihood impacts of improved on-farm water control in sub-Saharan Africa: An empirical investigation of three modes of small-holder agricultural water management. Final Project Report (058-01-01-ROF-PR-M615) submitted to International Water Management Institute (IWMI) Colombo, Sri Lanka, 75p.
- 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) 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.

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., Alichu 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., Aliche., 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 March 2009).
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. & Aqakwu 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 deutscher 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.

Date: 5th Mayl, 2025