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Personal data

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Name: **Mubarak Abdelrahman Abdalla Ali**

Title: Professor (**Ph.D**)

Passport No., date and place of issuing: [Electronic passport](#), Sudan

Date and place of birth: 01/01/1960, Gezira Aba, Kosti, White Nile State, Sudan

Nationality: Sudanese

Mother tongue language: Arabic

Other languages: English (fluent, IELTS and Toffel), German (moderate), Bahasa Malay (moderate)

Religion: Muslim

Marital status: Married (two daughters: two sons)

Sex: Male

Address: [Department of Soil and Environment Sciences](#), [Faculty of Agriculture](#), [University of Khartoum](#) (U of K), Shambat, Sudan.

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Present Address:

Coordinator Program of:

Desert Cultivation and Desertification affected Soils

[Desertification and Desert Cultivation Studies Institute](#)

University of Khartoum, Shambat, Sudan

Academic Records

1966 – 1972 Elementary school (Sudan)

1972 – 1975 Secondary school (Sudan)

1975 – 1978 High secondary school (Sudan)

1978 – 1983 University of Khartoum (Sudan) (B.Sc., Honors, Agric., Soil Science, Division One)

1987 – 1989 University of Khartoum (Sudan) (M.Sc., Soil Science majoring Soil Fertility)

1997 – 2001 [Universiti Putra Malaysia](#) (Malaysia) (Ph.D., Soil organic matter)

Prizes and Scholarships (Local and International)

Prizes

1. [Sayed Mohamed Abdu Rabu's prize for best final year student in Soil Science](#) (03/10/1983).(03/10/1983).
2. Silver Medal at 2003 Invention, Research and Innovation Exhibition (PRPI), [Universiti Putra Malaysia](#), 2007, National
3. University of Khartoum Prize for best published articles (two articles) in International Journals for the year 2007.
4. University of Khartoum Prize for best published articles (10 articles) in International Journals for the years 2008 and 2009

Fellowships (local and International)

1. [Deutscher Akademischer Austauschdienst \(DAAD\)](#) scholarship for M.Sc. (Code No. 329 743 022 7 (334 4 00 086) (1987-1989).
2. Netherlands fellowship, [International Agricultural Center](#), IAC, 26th Course on vegetable production, August 14 – Nov. 14, 1996, Netherlands.
3. [International Soil Tillage Organization Research \(ISTRO\)](#) Scholarship, 15th Conference, Fort Worth, Dallace, Texas, USA, July 2000.
4. Scholarship from the Technical Centre for Agricultural and Rural Development Co-operation ([CTA](#)) to attend and participate in a study visit on organic farming in Uganda-Kenya (19/04 – 29/4/2004).
5. Deutscher Akademischer Austauschdienst (DAAD) scholarship (A/03/43587) for study and research visit to Germany (01/07/2004 to 29/09/2004).
6. Netherland Fellowship Program for attending a Refresher course on sustainable use and conservation of agricultural biodiversity, 24 October – 05 November 2005, Addis Ababa, Ethiopia.
7. Deutscher Akademischer Austauschdienst (DAAD) scholarship for Study Trip with final year students (Department of Soil and Environment Sciences, Faculty of agriculture, University of Khartoum invited by the Institute of Organic Agriculture, University of Bonn, Germany (01.09.07-08.09.07).
8. Deutscher Akademischer Austauschdienst (DAAD) scholarship (A/08/03247) for study and research visit to Germany (01/04/2008 to 30/06/2008).

9. Distinguished Fellowship from [Arab Fund for Economic and Social Development](#), Kuwait for one year research stay ([Phytoremediation of salt-affected soils](#)) at [Reading University](#), UK, 02/11/2008-02/11/2009.
10. Deutscher Akademischer Austauschdienst (DAAD) scholarship (A/12/09006) for study and research visit to Germany (02/05/2012 to 31/07/2012).

Research Interests

Soil Fertility, Soil Chemistry, Desert cultivation, Combating Desertification, Dryland farming, land degradation and reclamation, waste recycling, OM studies.

Research

[Land application of urban](#) and [agricultural wastes](#), dryland agriculture, [desert cultivation](#), [soil fertility and crop residue management](#), soil organic matter dynamics, use of stable isotopes in crop-soil systems, [sustainable agriculture](#), reclamation of degraded soils, soil conservation, soil quality indices, [nutrient cycling](#), etc.

Current Funded Projects

1. [Land applications of wastes \(crop residues and sewage sludge\)](#) for sustainable production of wheat-guar rotation system (funded by Ministry of Higher Education and Scientific Research Sudan (34 000 SDG) and Academy of Science for Developing Countries, Italy ([TWAS](#)) (20 000 USD)
2. Production and application (wheat performance) of composts from baggasse, water hyacinth and banana wastes (funded by [DCG-Norway](#)) (22527 USD)
3. Use of mud for amelioration of sandy soils and production of wheat (funded by [University of Khartoum](#)): 25 000 SDG
4. Sodium removal during phytoremediation of calcareous salt-affected soils through H-proton release from some selected legumes. (funded by Ministry of Higher Education): 20 000 SDG
5. Assessment of Treated Waste Water from Oil Refinery on Soil, Fruit and Tree Quality, El Obied, North Kordofan State (30000SDG from Ministry of Higher Education and Scientific Research, Sudan)

Employment

1984 – 1987 [Agricultural engineer](#) (Yemen Arabic Republic)

1987 – 1989 M.Sc. student and part time teaching assistant (U of K)

1989 – 1990 Agricultural Manager (Yemen Arabic Republic)

1990 – 1993 Teaching assistant (staff), U of K.

1993 – 1997 Lecturer (U of K)

1997 – 2001 Ph.D. student (UPM), Malaysia

2001 – 2002 Assistant Professor, Department of Soil & Environment Sciences, (U of K)

2002 – 2007 Coordinator of Desert Cultivation and Desertification affected Soils

2004 – 2010 Associate Professor

2010 – To date Professor

2007 – To date Director, Desertification and Desert Cultivation Studies Institute, U of K.

Training

TRAINING

1. [International Course on Vegetable Production, Wageningen, the Netherlands](#), August to November 1996.
2. [Study visit to Uganda-Kenya on organic farming, production, certification and marketing on 19th –29th April, 2004](#) organized by CTA(Netherlands).
3. Research and study visit, 01/07/2004-29/09/2004 Germany funded by DAAD
4. [Refresher Course on Sustainable use and Conservation of Agrobiodiversity](#), 24 October-5 November, 2005, ILRI, Addis Ababa, Ethiopia
5. [Continual Professional Development Course \(CPDC\)](#), Khartoum University Center for Advanced Training, Khartoum, Sudan, 15 June 2013.

6. [The 4th International Course on Sustainable Management of Soil and Water Resources, International Agricultural Training Center \(IARTC\)](#), Izmir, Turkey, 24 June-05 July, 2013.
7. [Planning, Monitoring and Evaluation Course](#). 5th – 8th November 2013, [DCG, Oslo, Norway](#).
8. Desertification and Desert Cultivation Studies, Desert Research Center, Ministry of Agriculture and Land Reclamation, Cairo, Egypt 04-15/05/2014.
9. Gender Training Workshop, International Dry Lands Coordination Group (DCG), Håndverkeren and Conference Center, Rosenkrantzgate 1-6/ December/2014, Oslo, Norway.

Visiting Academic Scientist (01/07/2004-30/09/2004)

1. [Institute für Landtechnik, Gutfleischstraße 3](#), 35390 Gießen, Justus-Liebig-Universität, Germany.
2. [Institute of Plant Nutrition](#), Justus-Liebig-Universität, Germany.
3. [Institute of Soil Science](#), Justus-Liebig-Universität, Germany.
4. [Institute of Soil Microbiology](#), Justus-Liebig-Universität, Germany
5. [Hemholtz Centre for Environmental Research, UFZ, Halle](#), Leipzig, Germany.
6. [Department of Soil Science, Reading University](#)
7. [Arid Land Research center](#), Tottori University (08/-16/03/2015)

Meetings and Seminars

1. Recycling of crop residues for sustainable crop production in a maize – groundnut rotation system (A. B. Rosenani, A.R. **Mubarak** and S. Zauyah). IAEA meetings on Techniques in studies on the management of organic matter and nutrient turnover for increased sustainable agricultural production and environmental reservation. 1st meeting, Sept. 1997, Vienna, **Austria**.
2. Recycling of crop residues for sustainable crop production in maize – groundnut rotation system (A. B. Rosenani, A.R. **Mubarak** and S. Zauyah). IAEA meetings on Techniques in studies on the management of organic matter and nutrient turnover for increased sustainable agricultural production and environmental reservation. 2nd meeting, Sept. 1998, Vienna, **Austria**.

3. Recycling of crop residues for sustainable crop production in a maize – groundnut rotation system (A. B. Rosenani, A.R. **Mubarak** and S. Zauyah). IAEA meetings on Techniques in studies on the management of organic matter and nutrient turnover for increased sustainable agricultural production and environmental reservation. 3rd meeting, 6-10, Sept. 1999, Rabat, **Moroco**.
4. Recycling of crop residues for sustainable crop production in a maize – groundnut rotation system (A. B. Rosenani, A.R. **Mubarak** and S. Zauyah). IAEA meetings on Techniques in studies on the management of organic matter and nutrient turnover for increased sustainable agricultural production and environmental reservation. 4th meeting, March. 2000, Mines, **Malaysia**
5. Seminar on Agriculture and Food Security in developing countries: Afro-Asian working graduates, Mahatma-Ghandi-Haus, Theodor-Heuss-, Göttingen 17-19 Sept. 2004, and Germany.
6. International Seminar of the Drylands Coordination group (DCG), Mali, 31/08-05/0.9/2008)
7. [The 5th Agricultural Research Corporation Meeting: Strategic Priority in Soil Information Package for better land use care in east and southern Africa, Wad Medani, Sudan, 21-25/10/2009.](#)

Visiting Academic Scientist (01/07/2004-30/09/2004)

1. Institute für Landtechnik, Gutfleischstraße 3, 35390 Gießen, Justus-Liebig-Universität, Germany.
2. Institute of Plant Nutrition, Justus-Liebig-Universität, Germany.
3. Institute of Soil Science, Justus-Liebig-Universität, Germany.
4. Institute of Soil Microbiology, Justus-Liebig-Universität, Germany

Visiting Academic Scientist (01/04/2008-30/06/2008)

Institute of Plant Nutrition, Justus-Liebig-Universität, Germany

Visiting Academic Scientist (02/11/2008-to date)

Department of Soil Science, School of Human and Environment Science, Faculty of Science, The Reading University, Reading RG6 6DW, UK.

TEACHING ACTIVITIES

Course Title	University	Class	Duration
Physical Chemistry (Lab)	Khartoum	1 st Year	1987-1997
Introduction to Soil Sci. (lab)	Khartoum	1 st Year	1987-1997
Geology (Lab)	Khartoum	1 st Year	1987-1997
Soil Fertility (Lab)	Khartoum	Final Year	1987-1997
Soil Phys. Cond. & Plant Growth (Lab)	Khartoum	Final Year	1990-1997
Soil Phys. Cond. & Plant Growth (Lab)	Omdurman Isla. Univ.	M.Sc.	1990/1991
Introduction to soil Sci. (Lab)	University of Sudan	2 nd Year	1987-1994
Introduction to Soil Sci (Theory)	Khartoum (B.Sc.)	2 nd Year	2001-Till
Introduction to Soil Sci (Theory)	Faculty of Animal Production (U of K)	2 nd Year	1995/1996
Introduction to soil Sci. (Lab)	Faculty of Animal Production (U of K)	2 nd Year	1995/1996
Introduction to Soil Sci (Theory)	Khartoum (Forestry)	2 nd Year	2001-2005
Organic Farming	Khkartoum	Final Year	2004-Till
Agroforestry	Khartoum	Final Year	2004-2008
Soil Management	Khartoum	4 th Year	2001-2006
Physical Chemistry (Theory)	Khartoum (Diploma)	1 st Year	2002-2006
Introduction to Soil Sci (Theory)	Khartoum (diploma)	1 st Year	2002-2006
Soil Management (Theory)	Khartoum (Diploma)	1 st Year	2002-2006
Organic Farming (Theory)	Khartoum (Diploma)	2 nd Year	2003 – 2006
Scientific English	Khartoum (Diploma)	2 nd year	2003-2006
Field training	Khartoum (B.Sc.)	Final year	2003 – 2006
Combating desertification	Khartoum (M.Sc.)	2005 – Till	
Computer and Statistics	Khartoum (M.Sc.)	2005 – Till	

SUPERVISION OF UNDERGRADUATE STUDENTS

Degree	Major	Supervision	Registration	No. of Students
Final Year Project	Soil	Supervisor	2001/2002	1
Final Year	Soil	Supervisor	2002/2003	2

Project				
Final Year Project	Soil	Supervisor	2003/2004	2
Final Year Project	Soil	Supervisor	2004/2005	2
Final Year Project	Soil	Supervisor	2005/2006	2
Final Year Project	Soil	Supervisor	2006/2007	2
Undergraduates		Advisor	1992-1997	80

Teaching activities

Course Title	University	Class	Duration
Physical Chemistry (Lab)	Khartoum	1 st Year	1987-1997
Introduction to Soil Sci. (lab)	Khartoum	1 st Year	1987-1997
Geology (Lab)	Khartoum	1 st Year	1987-1997
Soil Fertility (Lab)	Khartoum	Final Year	1987-1997
Soil Phys. Cond. & Plant Growth (Lab)	Khartoum	Final Year	1990-1997
Soil Phys. Cond. & Plant Growth (Lab)	Omdurman Isla. Univ.	M.Sc.	1990/1991
Introduction to soil Sci. (Lab)	University of Sudan	2 nd Year	1987-1994
Introduction to Soil Sci (Theory)	Khartoum (B.Sc.)	2 nd Year	2001-Till
Introduction to Soil Sci (Theory)	Faculty of Animal Production (U of K)	2 nd Year	1995/1996
Introduction to soil Sci. (Lab)	Faculty of Animal Production (U of K)	2 nd Year	1995/1996
Introduction to Soil Sci (Theory)	Khartoum (Forestry)	2 nd Year	2001-2005
Organic Farming	Khkartoum	Final Year	2004-Till
Agroforestry	Khartoum	Final Year	2004-2008
Soil Management	Khartoum	4 th Year	2001-2006
Physical Chemistry (Theory)	Khartoum (Diploma)	1 st Year	2002-2006
Introduction to Soil Sci (Theory)	Khartoum (diploma)	1 st Year	2002-2006
Soil Management (Theory)	Khartoum (Diploma)	1 st Year	2002-2006
Organic Farming (Theory)	Khartoum (Diploma)	2 nd Year	2003 – 2006
Scientific English	Khartoum (Diploma)	2 nd year	2003-2006
Field training	Khartoum (B.Sc.)	Final year	2003 – 2006
Combating desertification	Khartoum (M.Sc.)	2005 –	

Computer and Statistics

Khartoum (M.Sc.)

Till
2005 –
Till

SUPERVISION OF UNDERGRADUATE STUDENTS

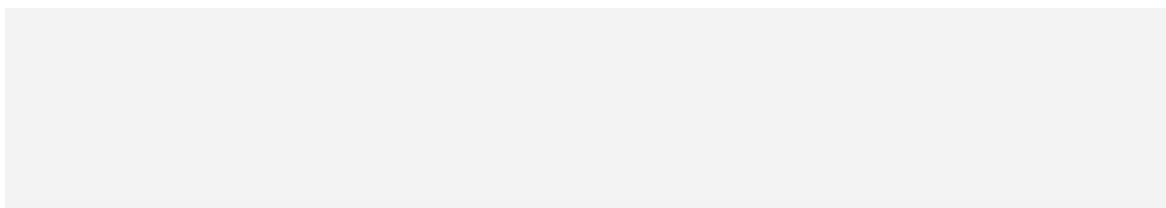
Degree	Major	Supervision	Registration	No. of Students
Final Year Project	Soil	Supervisor	2001/2002	1
Final Year Project	Soil	Supervisor	2002/2003	2
Final Year Project	Soil	Supervisor	2003/2004	2
Final Year Project	Soil	Supervisor	2004/2005	2
Final Year Project	Soil	Supervisor	2005/2006	2
Final Year Project	Soil	Supervisor	2006/2007	2
Undergraduates		Advisor	1992-1997	80

Memberships

1. Member of the Soil Science Society Malaysia
2. Staff member of the Department of Soil and Environment Sciences, U of K, Sudan
3. Staff member of the Desertification and Desert Cultivation Studies Institute.
4. Member of the scientific council of the UNESCO desertification chair
5. Member of the Sudanese Agricultural Counsel
6. Member of the Sudanese Desertification Combating Society, Khartoum State.
7. Co-ordinator of the Phenomenon of Desertification Studies Programe.
8. Member of the examiners board of the Faculty of Agriculture, U of K.
9. Member of consultancy committee of the Depart. of Soil and Environment Sciences.

10. Member of the organizing committee of University of Khartoum graduation ceremony (January 18, 2004).
11. Member of the Network Ecological Farming Africa-Sudan (NECOFAS)
12. Member of the Counsel of the Fac. of Agric. , University of Khartoum.
13. Member of the National Organic Agricultural Movement of Sudan (NOAMS).
14. Member of the Sudanese committee for evaluation of organic fertilizers.
15. Member of the University of Khartoum Counsel of Faculty Deans.
16. Member of the University of Khartoum Consultant committee.
17. Member of the University of Khartoum committee for Emeritus Professor Standards.
18. Member of Research counsel and Higher Studies of the Faculty of Agriculture.
19. Member of the Counsel of the Fac. of Animal Production, University of Khartoum.
20. Member of the University of Khartoum Academic Senate.
21. Member of the drylands Co-ordination Group (DCG).
22. Member of the Sudanese Society of Soil Science.
22. Member of the Editorial Board of Sudan Journal of Desertification Research

INTERNATIONAL RESEARCH LINKS

1. The use of ¹⁵N Tracing techniques in studies of soil organic matter, International Atomic Energy Agency (IAEA), Vienna, Austria (completed).
 2. Recycling of crop residues for sustainable crop production (IRPA), Malaysia (completed).
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Other Academic Activities

1. Co ordinator of the program of Desert Cultivation and Desertification affected Soils, Desertification and Desert Cultivation Studies Institute (DADCSI).
2. Managing editor of DADCSI Newsletter.
3. Registrar of the Department of Soil and Environment Sciences, Fac. of Agric., U of K.
4. Submission of a proposal concerned with improvement of University of Khartoum Library services.
5. Submission of a proposal concerned with adoption of a new plan for M.Sc. and Ph.D students seminars.
6. Submission of a proposal for organizing the computer unit of the Institute of desertification studies and desert cultivation.
7. Reviewer of articles submitted to Jurnal of Environmental Management, USA.
8. Reviewer of articles submitted to Sudan Silva Journal

POSTGRADUATE STUDENTS (examples only: GRADUATION)

1. Name: Itidal Abdelrahim Elmubarak (M.Sc.)

Title : Stratification of some selected soil properties as influenced by mechanical manipulation.

2. Name: Azhari Abdelgadir (M.Sc.).

Title: Long and Short -Term Effects of Conventional Tillage on a Vertisol Properties Under Sugar Cane Plantation.

3. Ihlam Hassan Ahmed. (M.Sc.). Decomposition and nutrient release from some agroforestry tree litters.

4. Ibrahim Abdeldaim Ibrahim (M.Sc.)

Title: The effect of tillage on soil C and N sequestration.

5. Asia Khidir (M.Sc.)

Title: Impact of tillage duration under different cropping systems on selected soil properties of irrigated vertisols, Sudan

6. Mawahib Musa (M.Sc.)

Title: Effect of tillage on soil organic matter mineralization

7. Fatooma M. Rizg (M.Sc.)

Title: Nutrient dynamics of a decomposing water hyacinth under desert soils

8. Badereldin Dawi (M.Sc.)

9. Title: Decomposition and Nutrient Release of Different Organic Residues in Sandy Soil of Western Omdurman, Sudan

10. Effect of water management and compost on yield of fodder sorghum (*Sorghum bicolor*) under nutrient poor sandy soil.

11. Nitrogen mineralization from various manures under saline and non saline soils.

Funded projects as principle or main investigator :

2. Recovery of Nitrogen from Guar Residue and Inorganic Fertilizer in a Guar – Wheat- Rotation System using N¹⁵ Techniques. (34 000 000 SDG, Ministry of Higher Education and Scientific Research, 2006).

3. Recovery of Nitrogen from wheat Residue and Inorganic Fertilizer in a wheat – groundnut- Rotation System of a nutrient poor sandy soil. Funded by The Academy of Sciences for the Developing World (TWAS), Italy, 01/10/2008, 20 000 USD).

4. Effect of Tillage Practices on Soil Quality Under Different Dry Farming Systems. (24 000 000 SDG, Ministry of Higher Education and Scientific Research, 2006).

5. Utilization of composted bagasse, water hyacinth and banana wastes in reclamation of desert soils. Funded by Drylands Coordination Group, Norway, 2009, 20 000 USD.

Funded projects as co author

1. Appraisal of the quality of the Red Sea Water and Prospects for its Irrigation Use. 40 000 000 SDG, Ministry of Higher Education and Scientific Research, (2006).

Submitted projects for funding

1. Recycling of organic wastes for amelioration of problematic soils.
2. Utilization of composted baggasse, water hyacinth and banana wastes in reclamation of desert soils

External examiner

[External examiner of a PhD student, University of Dresden](#), Germany
18/12/2013.

International Assignments

1. Working group for Pillar 3: Draft plan of action for Pillar Three of the Global Soil Partnership: "[Promote targeted soil research and development focusing on identified gaps, priorities and synergies with related productive, environmental and social development actions](#)". Global Soil Partnership (GSP), FAO: On going.
2. Lead Author for the status of soil report of the Middle East and North Africa, [The Status of World Soil Resources Report \(SWSR\)](#), [Global Soil Partnership, FAO](#):

Publications

THESIS

1. Effect of soil type, salinity and manuring on the production of okra (*Abelmoschus esculentus* L.) and beans (*Phaseolous vulgaris* L.). M.Sc. Thesis, [University of Khartoum](#), Sudan, 1989.

2. The contribution of crop residues for the sustainable production of maize and groundnut in a crop rotation system (Ph.D.) Thesis, Universiti Putra Malaysia, 2001.

REFREED JOURNALS

1. Eltilib A. M. A., A.M.Ali and **Mubarak A. R.** 1993. Effect of chicken manure and salinity on growth and leaf N, P and K content of okra (*Abelmoschus esculentus*) grown on two soil types. **University of Khartoum Journal of Agricultural Science 1: 16-36.**
2. H. M. Abdelmagid, **Mubarak. A. Abdalla**, A. M. A. Eltilib and A. M. Ali. 1996. Poultry manure as an ameliorative fertilizer for salinized soils sown to snap beans in a semi-arid environment. **Egyptian Journal of Applied Science 11: 199-210.**
3. **Mubarak A. R.**, Rosenani A.B., Zauyah S. D and Anuar A. R. 1999. Decomposition and nutrient release from maize (*Zea mays* L.) residues and N uptake by groundnut (*Arachis hypogaea*) in a crop rotation system. **Malaysian Journal of Soil Science 3: 93-107.**
4. **Mubarak A. R.**, Rosenani A. B., Zauyah S. D. and Anuar A. R. 2001. Balance of applied ¹⁵N labelled ammonium sulfate by maize (*Zea mays* L.) in the humid tropics. **Japanese Journal of Tropical Agriculture 45: 176-180.**
5. **Mubarak A. R.**, Rosenani A. B., Zauyah S. D. and Anuar A. R. 2001. Nitrogen mineralization in tropical soils amended with crop residues. **Tropical Agriculture (Trinidad) 78: 165-173.**
6. **Mubarak A. R.**, Rosenani A. B., Zauyah S. D. and Anuar A. R. 2003. Effect of incorporation of crop residues on a maize – groundnut sequence in the humid tropics. II: Soil properties. **Journal of Plant Nutrition 26: 2343-2364.**
7. **Mubarak A. R.**, Rosenani A. B., Zauyah S. D. and Anuar. A. R. 2003. Effect of incorporation of crop residues on a maize – groundnut sequence in the humid tropics. I: Yield and nutrient uptake. **Journal of Plant Nutrition 26: 1841 – 1858.**
8. **Mubarak A. R.**, Rosenani. A. B., Zauyah S. D. and Anuar A. R. 2003. Recovery of ¹⁵N from maize residues and inorganic fertilizer in a maize – groundnut rotation system. **Communications in Soil Science and Plant Analysis 34: 2375-2394.**
9. **Mubarak A. R.**, Rosenani A. B., Zauyah S. D. and Anuar A. R. 2002. Decomposition and nutrient release of maize (*Zea mays* L.) stover

and groundnut (*Arachis hypogaea*) haulm under field tropical conditions of Malaysia. *Communications in Soil Science and Plant Analysis* **33**: 609-622.

10. **Mubarak A. R.** and Rosenani A. B. 2003. Soil organic matter fractions in the humid tropics as influenced by application of crop residues. *Communications in Soil Science and Plant Analysis* **34**: 933-943.
11. Abdemoniem M.A. ElTilib, **Mubarak A. Abdalla** and Mahgoub Abdelhafeez. 2003. Wheat response to partially acidulated phosphate rock, triple super phosphate and their combinations in the semi-arid tropics of the Sudan. *Gezira Journal of Agricultural Science* **1**:11-21.
12. **Mubarak Abdelrahman Abdalla** and Rosenani Abu Bakar. 2004. The effect of drying temperature on nitrogen mineralization from above and below ground crop residues. *University of Khartoum Journal of Agricultural Science* **12**: 47-64.
13. Rosenani, A.B., A.R. **Mubarak**, S. Zauyah. Recycling of crop residues for sustainable crop production in a maize-groundnut rotation system. 2003. In: *Management of crop residues for sustainable crop production. Joint FAO/IAEA Division of Nuclear Techniques in Food and Agriculture* IAEA-TECDOC-1354
14. **Mubarak Abdelrahman Abdalla**, Omer Mohamed E. Elshami. and Eatidal A. Elmubarak, 2004. Stratification of Selected Soil Properties as Influenced by Mechanical Manipulation. *University of Khartoum Journal of Agricultural Science* **12**: 415-428.
15. **Mubarak, A. R.**, Elshami, O. M. E. and Azhari, A.A. 2005. Long and Short - Term Effects of Conventional Tillage on a Vertisol Properties Under Sugar Cane Plantation. *Soil and Tillage Research* **84**: 1-6.
16. **Mubarak Abdelrahman Abdalla**, Nazar OmerSalih, Ali Ahmed Hassabo and Ahmed Gofoon Mahala. 2007. Effect of application of organic amendments on quality of forage sorghum (*Sorghum bicolor.L*) in the semi-arid tropics. *Archives of Agronomy and Soil Science* **53**: 529-538.
17. **Mubarak, A. R.**, A. A. Elbashir, L. A. Elamin, D. M. A. Daldoum, D. Steffens and G. Benckiser. 2008. Decomposition and nutrient release from litter fall in the semi-arid tropics of Sudan. *Communications in Soil Science and Plant Analysis* **39**: 2359-2377.

18. **Mubarak, A.R.**, Fattoma A.M. Rezik and Afiah S. A. 2008. Use of water hyacinth (*Eichhornia crassipes*) in amelioration of a sandy soil. **Arab Universities Journal of Agricultural Sciences 16: 213-224.**
19. **Mubarak, A.R.**, Elshami, O.M.E. and Hamid, F.A. 2008. Carbon and nitrogen stocks of a long-term cropping systems on an irrigated and rain-fed Vertisols in the semi-arid tropics of Sudan. **Malaysian Journal of Soil Science 12: 61-76.**
20. **Mubarak, A.R.**, O.M.E. Elshami, H. Ahmed, H.H. Eltaib, A.R., A.M.A. Eltilib, A.B. Saeed and D. Steffens. 2008. Effects of sugarcane (*Saccharum officinarum*) cultivation on soil quality in the semi-arid tropics of Sudan. **International Journal of Natural and Applied Sciences 4 (4): 376-382.**
21. **Mubarak Abdelrahman Abdalla** and Badr Eldin SiddigDawi. 2009. Decomposition and nutrient release from various tree litters in a sandy soil of a semi-arid tropics. **Sudan Journal of Desertification Research 1 (1): 36-55.**
22. **Mubarak, A.R.**, D. M. Ahmed, and A. M. Sayed. 2009. A Note on the Influence of Leaf Extracts of Nine Tree Species on Seed Germination, Radicle and Hypocotyl Elongation of Maize and Sorghum. **International Journal of Agriculture and Biology 11 (3):340-342.**
23. **Mubarak, A.R.**, O.M.E. Elshami, M. M. A. Abdelseed and D. Steffens. 2009. Short-term contribution of mineral N from soil organic matter during the rainy season in a vertisol of the semi-arid tropics of Sudan. **International Journal of Agriculture and Biology 11 (3): 336-339.**
24. Yousif, A. M., **Mubarak, A.R.** 2009. Variations in Nitrogen mineralization from different manures in semi-arid tropics of Sudan with reference to salt-affected soils. **International Journal of Agriculture and Biology 11 (5): 515-520.**
25. D.M.A. Daldoum, **A.R. Mubarak** and A.A. Elbashir. 2010. Leaf litter decomposition and nutrient release pattern of three tree species under semi-arid conditions. **Journal of Natural Resources and Environmental Studies 5: 75-88.**
26. **Mubarak A.R.**, Omaima.E. Ragab, Amal A. Ali And Nemat.E. Hamed. 2009. Short-term studies on use of organic amendments for amelioration of a sandy soil. **African Journal of Agricultural Research 4 (7): 621-627.**
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Training

1. 26th International Course on Vegetable Production, Wageningen, the Netherlands, August to November 1996.
2. Study visit to Uganda-Kenya on organic farming, production, certification and marketing on 19th –29th April, 2004 organized by CTA (Netherlands).
3. Research and study visit, 01/07/2004-29/09/2004 Germany funded by DAAD
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