

مختصر السيرة الذاتية
بروفيسور كمال فضل السيد الخليفة محمد
تخصص النباتات البرية

البيانات الشخصية:

الجنسية: سوداني

الحالة الاجتماعية: متزوج و أب

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التأهيل الأكاديمي:

- دكتوراه من جامعة أيرلندا القومية في عام 1990
- ماجستير جامعة أيرلندا القومية في عام 1986
- بكالوريوس من جامعة الخرطوم عام 1982

التدريس:

قمت بتدريس مقررات جامعية في جامعات السودان وخارجها شملت: تصنيف النبات و تشريح نبات وتعريف الأشجار و مقدمة في البيئة و بيئة نبات، والتشجير الزراعي و التصميم الإحصائي و تحليل التجارب لحوالي 18 عام.

الإشراف على الدراسات العليا و امتحاناتهم:

- أشرفت على 20 طالب ماجستير و دكتوراه
- امتحنت 16 طالب ماجستير و دكتوراه

النشر العلمي:

- نُشر لي أكثر من 30 مقال علمي في دوريات مختلفة (محلية وإقليمية وعالمية) كما تم نشر 6 كتب

الجمعيات و الندوات و المؤتمرات:

- عضو تسع جمعيات و شاركت في 26 ندوة و مؤتمر

الإنجازات الرئيسية:

بالإضافة للبحوث و تأهيل الطلاب في جامعة الخرطوم و جامعة الملك سعود:

- تأسيس حديقة شجرية في محطة الأبحاث الزراعية بديراب جنوب الرياض
- المشاركة في تأسيس بنك لبذور النباتات في المشتل الزراعي للهيئة العليا لتطوير مدينة الرياض، المملكة العربية السعودية.
- تعريف الأنواع الشجرية المحلية و مجتمعاتها و توزيعها حول مدينة الرياض
- تصنيف و تعريف الأنواع النباتية البرية في متنزه الثمامة البري
- الإشراف الفني و التقييم العلمي لتجارب زراعة الأشجار في متنزه الثمامة
- الإشراف الفني على جمع بذور النباتات للهيئة العليا لتطوير مدينة الرياض
- المشاركة في إعداد كتاب أشجار الغابات في الوطن العربي في ورشات عمل و مؤتمرات علمية للمنظمة العربية للتنمية الزراعية تواصلت بين المعهد العربي للغابات و المراعي بسوريا و مقر المنظمة بالخرطوم.

Curriculum Vitae

Kamal Fadi Elseed Elkhalfi Mohammed

Professor of Forest Botany

Personal Information

Nationality	Sudanese
Date of Birth	July, 1958
Address	University of Khartoum, Shambat, 32 Sudan.
Marital Status	Married, with children.
E-mail	kam-mal@hotmail.com
Mobile	+24999190141 +966-549947429
Languages	Fluency in Arabic and English

Academic Qualification

M. Sc. - Ph.D.	(1984-1990) National University of Ireland specializing in Tree taxonomy and propagation
B. Sc.	University of Khartoum (1982) Forestry (Honors)-Class 1.
Prize:	Awarded the prize for the best student obtained the only Class 1 awarded in 1982, with distinctions in 30 subjects.

Academic Posts

- Professor, Faculty of Forestry, University of Khartoum, 2007 to present
- Member of Senate, University of Khartoum (1998- 2001) and 2008-present
- Associate Professor, Faculty of Forestry, University of Khartoum, 1997
- Head department of Silviculture (1998-2001)
- Member of the faculty of Forestry Board (1996-2001)
- Assistant Professor, Department of Forestry, University of Khartoum, 1990-1997.
- Member of examination committee of faculty of Agriculture, 1991

Latest Post

Consultant, High commission for Riyadh development, Saudi Arabia(2009-2013), working as expert of taxonomy of trees, shrubs and general wild flora. In addition to carrying out taxonomical and ecological researches, seed collection for seed bank, nursery propagation and field establishment of tree plantations were also supervised.

Teaching Activities

Course	University	Faculty	Duration
Dendrology	Khartoum	Forestry	1990-2001 2006-2009
Tree anatomy	Khartoum	Forestry	1990-2001
Silviculture	Khartoum	Forestry	1990-2001
Experimental designs	Khartoum	Forestry	1990-1992
Plant Taxonomy	Khartoum	Forestry	2001 and 2006-2009
Fundamentals of Ecology	Khartoum	Forestry	2001
Dendrology	Juba	Nat. Resources	1992
Plant Taxonomy	Dalang	Education	1995
Plant Ecology	Dalang	Education	1995
Experimental designs	Dalang	Education	1995
Agroforestry	Sudan for Science and Technology	Agriculture Studies	1990-2000
Principles of Forestry	King Saud	Agriculture	2001-2005
Silviculture	King Saud	Agriculture	2001-2005
Forestation	King Saud	Agriculture	2001-2005
Field training in Forestry	King Saud	Agriculture	2001-2003
General Botany	King Saud	Science	2002

Post-graduate Supervision(Total=21)

Thesis Title	University	Graduation
Seed germination and seedling establishment of <i>Tamarindus indica</i>	Khartoum	1992
Role of socio –economic factors in forestry development in the Sudan	Agric. Univ. of Norway	1994
Propagation of <i>Grewia tenax</i>	Khartoum	1995
Flora of Gash River Delta, Eastern Sudan	Khartoum	1997
Chemical control of <i>Prosopis chilensis</i>	Khartoum	1997
Vegetative propagation of <i>Balanites aegyptiaca</i>	Khartoum	1997
Fodder trees of Butana, Central Sudan	Khartoum	1998
Seedling development and field growth of <i>Acacia seyal</i> and <i>Acacia mellifera</i>	Khartoum	1998
Eco-taxonomical study of the vegetation of western Omdurman, Sudan	Khartoum	1998
Flora of Al- Faw Mountains, Central Sudan	Khartoum	1998
Propagation of Arak(<i>Salvadora persica</i>)	Khartoum	1998
Seed propagation and chemical composition of <i>Capparis deciduas</i>	Khartoum	1999
A study on the propagation of Abanus(<i>Dalbergia melanoxylon</i>)	Khartoum	2000
Factors threatening Sudan food security	International univ. of Africa	2000
Impact of Forest trees on millet production	Sana'a, Yemen	2000
Environmental deterioration in White Nile Schemes	International Univ. of Africa	2001
A study on the variations in tannin contents in <i>Acacia nilotica</i>	Khartoum	2001
A study on indigenization of oil palm in the Sudan	International Univ. of Africa	2001
Response of <i>Salvadora persica</i> and <i>Ziziphus spina-christi</i> to different water regimes	Khartoum	2007
Eco-taxonomical study of Rawdat Al-Ahwar, Central Saudi Arabia	Sudan for Science	2008
Study on tree species of Atbara river, Sudan	Khartoum	2010
Shoot morphology of some combretaceae and Capparaceae members	Khartoum	2013

Current Research

- Tree and shrub identification
- Tree seed and seedling identification.
- Eco-taxonomical studies of some semi-desert areas.
- Seed and vegetative propagation of trees.
- Effects of tree plantations on the city climate.

Participation in the university committees

- Member of tours committee of faculty of forestry (1997-2001)
- Member of the Board of Desertification Studies Centre, Khartoum (1998-2001)
- Member of Library committee, Shambat campus, university of Khartoum (2008 – present)
- Member of the post-graduate Board, Shambat campus, university of Khartoum (2008 – present)

Publications (Total=32)

A/ Wild Plant Taxonomy and /or Ecology:

Kamal F.Elkhalifa 1993. A computerized dendrological key for identification of forest trees in the Sudan , Univ. of Khartoum Journal for Agric. Sciences.

Kamal F.Elkhalifa and Nour Aldaim M. Osman 2003. On the classification of *Acacia senegal*. University of Sudan Journal of Science and Technology vol. 4, (2), 37-40

Ibrahim M. Aref, **Kamal F.Elkhalifa** and Loutfy I. El-Juhany 2003. A Dendrological Key for identification of *Acacia* species growing in Saudi Arabia and Northern Sudan. Journal of King Abdul Aziz University(Saudi Arabia),Vol. 14, 87-94

Kamal F.Elkhalifa and I.M.Ahmed 1999. An Ecological Study of El Rawakeeb Desert Area, West Omdurman. Elbeea(Sudan), vol. 1(2), 70-76

Kamal F.Elkhalifa, Mohammed A.Ibrahim and Jamal Elghazali 2003. Contribution to the Flora of Gash Delta, Eastern Sudan, Bulletin No. 124, Research Centre, College of Agriculture, King Saud University, Riyadh, Saudi Arabia, pp. 20

Kamal F.Elkhalifa and Ibrahim M. Aref 2004. Morphological studies on fourteen *Acacia* species seedlings grown in Saudi Arabia. Bulletin No. 123, Research Centre, College of Agriculture, King Saud University, Riyadh, Saudi Arabia), pp. 11

Kamal F.Elkhalifa and Ibrahim M. Aref 2005. Seed identification of forty leguminous trees in the arid and tropical regions. Saudi Journal of Biological Sciences 12(2), 126-132

Kamal F.Elkhalfifa 2006. Morphological study on seedlings of some eucalypts growing in Riyadh area, Saudi Arabia. *International Journal of Botany* 2(2), 156-158

Kamal F.Elkhalfifa, A. Alhourri and Salih Tito 2007 Tree species of Shambat area, Northern Khartoum State, *Science Journal of biological sciences, SJBS(B), Sudan*, 11: 105-111

Mohammed S. Abdalla and **Kamal F.Elkhalfifa(2010)** Tree and shrub species at lower Atbara River Basin, Northeastern Sudan, Tropentag 2010 "World Food System A Contribution from Europe", Zurich, Switzerland,.

Kamal F.Elkhalfifa 1996. Text book of Forest Botany, Khartoum University Press, Sudan, pp 181

Kamal F.Elkhalfifa 2001. Fundamentals of Ecology(Book) Ministry of Higher Education and Scientific Research. Khartoum, pp 32

Kamal F.Elkhalfifa 1996. Trees of the holy Quran, (Book). National Forest Corporation Khartoum, Sudan, pp 81

Kamal F.Elkhalfifa 1996. Plants of the Quran and Sunna and their medicinal values (Book) University of Jazira, Sudan, pp 61

Kamal F.Elkhalfifa 2002. Botanical and Agricultural terms of the holy Quran(Book) Alwatan Press, Riyadh, Saudi Arabia, pp 78

Kamal F.Elkhalfifa(under publication). Preliminary taxonomical study of wild plants of Thumamah, northern Riyadh, Saudi Arabia. High commission for Riyadh development, Saudi Arabia.

Kamal F.Elkhalfifa(Recently submitted). Preliminary taxonomical study of native tree species in Riyadh, region, Saudi Arabia. *Arabic research Journal*

Kamal F.Elkhalfifa 2009. An ecological study on tree species of Thumamah natural park, Saudi Arabia. High commission for Riyadh development, Saudi Arabia.

B/ Wild Plant Taxonomy for medicinal uses:

H.H. El-Kamali and **Kamal F.Elkhalfifa** 1999. Folk medicinal plants of riverside forests of the southern Blue Nile district, Sudan. *FITOTERAPIA* 70, 493-497

Kamal F.Elkhalfifa 2002. Treatment of skin diseases in the Sudan using tree material. *Arab Gulf Journal of Scientific Research* 20(4), 232-235

Kamal F.Elkhalfifa 2005. Common medicinal uses of the Flora of Al-Faw hills. *J. Saudi Soc.for Agric. Sci.*, Vol. 4, No. 1, 1-8

Kamal F.Elkhalfifa, Ibrahim Suliman and Hasan Assubki 2005. Variations in tannin's contents of *Acacia nilotica* subspecies. *Pakistan Journal of Biological Sciences*, 8(7), 1021-1024,

Kamal F.Elkhalfifa, Mohammed A.Ibrahim and Jamal Elghazali 2006. A survey of medicinal uses of Gash Delta vegetation, Eastern Sudan , J. Saudi Soc. For Biol. Sci., 13(1), 159-164

Kamal F.Elkhalfifa 2006. Documentation of twelve plant materials as laxatives and astringents in the Sudan herbal medicine. Arabic Medicine, Jordan.

Kamal F.Elkhalfifa 2007. A survey of medicinal uses of vegetation of three regions in eastern and central Sudan. Arab Organization for Agric. Development(AOAD) conference: Promising medicinal plants in the Arab world, Khartoum.

Kamal F.Elkhalfifa and Mohamed A.Ibrahim 1996. *Ziziphus sp.*, uses and chemical composition, Arabic Medicine, Vol. 3, No. 1, Jordan.

Kamal F. Elkhalfifa and H.H. El-Kamali 1997. *Acacia nilotica* subspecies and their medicinal uses and values, Arabic Medicine, Jordan, Vol. 16, No. 1, 54-61.

Kamal F.Elkhalfifa and H.H. El-Kamali 1997. Plants used for treatment of diabetes in Khartoum State, Arabic Medicine, Vol. 16, No. 2, 68-75.

Kamal F.Elkhalfifa and H.H. El-Kamali 2001. A note on herbal treatment, with special reference to application in the Sudan. Al-Taseel Journal (Ministry of Higher education, Khartoum) ^{8th} issue, 122-136

Kamal F.Elkhalfifa 2005. Food and medicinal values of some *Cucurbitaceae* members. Al-ijaz Journal, Saudi Arabia.Vol.12, 1-4

C/ Wild Plant propagation and uses:

Mohammed M. Elnour, **Kamal F.Elkhalfifa**, M.Massimo and Babkir ,Elhasan 1991. Preliminary study on seed pre-germination treatment and vegetative propagation of *Balanites aegyptiaca*(L.) Del. (published in the proceedings of the seminar on Physiology of forest trees in the arid and semi-arid regions, Paris-Nancy, France

Kamal F.Elkhalfifa, El Mattari and Mohammed M. Elnour 1995. Juvenile development of *Tamarindus indica*, university of Khartoum Journal for Agric. Sciences,

H.H. El-Kamali and **Kamal F.Elkhalfifa** 1997. Treatment of malaria through herbal drugs in the Central Sudan. FITOTERAPIA (Italy) vol. LX V111, 527-528

Kamal F.Elkhalfifa and S.M. Mahmoud 1999. Establishment of *Grewia tenax* (Forssk.) Fiori from seeds and stem cuttings in the nursery. Arab Gulf J. Scient.Res., 17(1), 85-94

Kamal F.Elkhalfifa and H.H. El-Kamali and 2000. Tebaldi (*Adansonia digitata* L.)uses and chemical composition. Social Forestry and Environment(Sudan), vol. 2 (6), 7-9

Kamal F.Elkhalfifa and M. Elawad 2001. Establishment of *Capparis decidua* (Forsk.) Edgew by seed in the nursery. University of Sudan Journal of Science and Technology vol. 2(2), 9-17

Kamal F.Elkhalfifa 2003. Nursery establishment of Abanus (*Dalbergia melanoxylon*). Arab Gulf Journal of Scientific Research, 21(3), 153-157

Kamal F.Elkhalfifa 2004. The effect of mechanical land preparation on the growth of *Acacia seyal* var. *seyal* Del. and *Acacia mellifera*(Vahl.)Benth. in Central Sudan. J. Saudi Soc. For Agric. Sci, Vol. 3 No. 1, 11-16

Ibrahim M. Aref, Loutfy I. El-Juhany and **Kamal F.Elkhalfifa** 2004. Effects of sodium chloride concentrations on seed germination of *Acacia nilotica* subsp. *tomentosa* and *Acacia gerrardii* var. *najdensis*. Journal of the Advances in Agric. Researches(Egypt), Vol. 9, No. 1, 33-41

Kamal F.Elkhalfifa 2005. Seed germination and subsequent growth of *Grewia tenax* Forssk. and *Adansonia digitata* L. on five types of media. Proceedings of the Second Symposium of the Saudi Agricultural Society on Saudi Agriculture: Opportunities and Challenges.

Samia Tageldin, **Kamal F.Elkhalfifa** and Khadija Abbas 2006. The effects of Gum Arabic on body weight and some blood elements in New Zealand cross California and Baladi rabbits. Pakistan Journal of Biological Sciences, 9(1), 96-98

Kamal F.Elkhalfifa and Hamad A.Al-Mefarreej 2006. Propagation of *Cordia mixa* L. by stem cuttings. Pakistan Journal of Biological Sciences, 9(1),176-178

Hamad A.Al-Mefarreej and **Kamal F.Elkhalfifa** 2006.) One-year field performance of some *Acacia* and *Prosopis* species in Saudi Arabia. Asian Journal of Plant Sciences, 5(5), 763-766

Kamal F.Elkhalfifa 2006 On the Propagation of *Dalbergia melanoxylon* Guill. & Perr. Saudi Journal of Biological Sciences 13(2): 150-153, 2006

Kamal F.Elkhalfifa and Tageldin, S 2007 Biological and medicinal uses of Gum Arabic, Sud.J. Stnds. Metrol, Sudan, vol. 1(1), 2007

Kamal F.Elkhalfifa and H.H. El-Kamali 1998. Medicinal values of Arak (*Salvadora persica* L.). Social Forestry and Environment 4th issue , Khartoum, 18-22

H.H. El-Kamali and **Kamal F.Elkhalfifa** 1998. Uses and chemical composition of Guddaim (*Grewia tenax*). Science Magazine, Khartoum, vol. 4(1), 22-23

Kamal F.Elkhalfifa and H.H. El-Kamali 1998. Common and medicinal uses of Tundob (*Capparis decidua*), , Arabic Medicine, Jordan, Vol. 17, No.2, 106-111

H.H. El-Kamali and **Kamal F.Elkhalfifa** 1999. Medicinal uses and values of Athl (*Tamarix spp*) and Tebaldi (*Adansonia digitata*). Arabic Medicine, Jordan, Vol. 18, No.2, 140-149

D/ Technical Reports:

Khalid Al Modimeagh, **Kamal F.Elkhalifa**, Lars Wichelhaus and Jens Bodeker (2011). Thumamah monitoring report(Assessment of *Acacia gerrardi* performance after three years of growth in Thumamah natural park, Saudi Arabia. High commission for Riyadh development. Saudi Arabia.

Khalid Al Modimeagh, **Kamal F.Elkhalifa**, Lars Wichelhaus and Jens Bodeker 2011. Thumamah experimental setups -The seed ball experiment- Thumamah natural park, Saudi Arabia. High commission for Riyadh development. Saudi Arabia.

Kamal F.Elkhalifa 2009. Preliminary taxonomical study of native tree species in Riyadh, region, Saudi Arabia. High commission for Riyadh development, Saudi Arabia,

Kamal F.Elkhalifa 2009. An ecological study on tree species of Thumamah natural park, Saudi Arabia. High commission for Riyadh development, Saudi Arabia.

Kamal F.Elkhalifa 2009. *Acacia gerrardi* seedlings performance after six months from transplanting in Thumamah natural park, Saudi Arabia. High commission for Riyadh development. Saudi Arabia.

Kamal F.Elkhalifa 2009. *Acacia gerrardi* seedlings performance after one year from transplanting in Thumamah natural park, Saudi Arabia. High commission for Riyadh development. Saudi Arabia.

Kamal F.Elkhalifa 2010. *Acacia gerrardi* saplings performance after 18 months from transplanting in Thumamah natural park, Saudi Arabia. High commission for Riyadh development. Saudi Arabia.

Kamal F.Elkhalifa 2010. *Acacia gerrardi* saplings performance after two years from transplanting in Thumamah natural park, Saudi Arabia. High commission for Riyadh development. Saudi Arabia.

Kamal F.Elkhalifa 2011. General survey for assessment of camps and main road forestation in Thumamah natural park, Saudi Arabia. High commission for Riyadh development. Saudi Arabia.

Examiner for M. Sc. and Ph.D. (Total=16)

The following M. Sc. and Ph. D. researches were examined (Their studies that carried in Sudan, Libya and Yemen covered different research areas including plant propagation, ecology and agro-forestry):

- ❖ Effects of saline water, shade, media and containers on seed germination and seedling growth of some *Cordia* and *Casuarina* species in Yemen, 1998
- ❖ The effects of utilization on soil seed bank and vegetation dynamics of plant species including selected wild foods in Rawashda forest, Sudan.
- ❖ The impact of trees, shrubs and herbs on the soil characteristics in Libya, 1998
- ❖ Regeneration of Neem tree (*Azadirachta indica*), 1998

- ❖ Investigations into artificial regeneration of *Acacia Senegal* on clay soils, Central Sudan, 1998
- ❖ Vegetative propagation of *Acacia senegal* by stem cuttings and factors affecting tree yield of Gum Arabic, 1999
- ❖ Effects of windbreaks on orange (*Citrus sinensis*) in Shabwa and Marib governorates of Eastern Yemen, 1999
- ❖ Effects windbreaks on coffee plantations in Yemen, 1999
- ❖ Using wood in port-land cement in the Sudan, 2000
- ❖ Sudan Forest policy, past present and future, 2000
- ❖ Propagation of *Adansonia digitata* under different sites, March(2007).
- ❖ Assessment of *Acacia senegal* in Agroforestry systems in Kordofan, Sudan June(2007)
- ❖ Assessment of Date palm plantation and its environmental impacts in Northern Sudan, 2007
- ❖ Evaluation of Agro-forestry practices in Kordofan, western Sudan(2007).
- ❖ Flora of Tuti Island, Khartoum, 2008
- ❖ A taxonomic review of the genus *Cassia*(2008).

Referee for scientific works

- ❖ Six articles (in the field of Forestry and Botany) were assessed for Sudanese Journals, namely Sudan Silva, Sudan Standards Metrol. Journal and JONARES.
- ❖ An article for the journal Agricultural and Biodiversity Research.
- ❖ A promotion work to an associate professor, University of Zalengei, Sudan was reviewed(2008)
- ❖ Two promotion works, to an associate professor, and full professor, University of Sudan for Sciences and Technology were reviewed(2009)
- ❖ Review for the book of Landscape plants for Arriyadh Region, Saudi Arabia.
- ❖ Sharing in the translation of the book of Landscape plants for Arriyadh Region, Saudi Arabia

Membership of Professional scientific societies

- ❖ Member of the syllabi committee, university of Bakht Elridha, Doueim, 1998
- ❖ Member of the National Committee of Oil palm, 1998-1999
- ❖ Member of the Sudanese Social Forestry Committee(1997 to present)
- ❖ Member of U.C.D. Association, Ireland(1991 to present).
- ❖ Member of the Consultation Board for Tafakkur Journal, University of Jazira, Sudan(1998 to present)
- ❖ Member of the Saudi Society for Agricultural Sciences(2003 to present)

Subscriptions and Scientific relations

- ❖ Subscription of ICRAF, Kenya, Publications on Tree propagation (1999 to present)
- ❖ Subscription of Arabic Medicine, Jordan (1998 to present)
- ❖ Subscription of Agrotica, Middle east Agricultural magazine, Lebanon (1997-2007)
- ❖ Subscription of Elisa Publications (1998 to present).
- ❖

Participation in Seminars and Conferences(Total=25)

The following seminars and conferences were contributed to with different levels of participations. Some (**) were of international nature

- ** Physiology of forest trees in the arid and semi-arid regions, Paris-Nancy, France, (1990)
- ** Environment, Cairo, Egypt (1993)
- *Agricultural Sciences in Arabic (unification of terminology) faculty of agriculture, university of Khartoum (1994).
- * Gum Arabic, present and future. National Forest Corporation, Khartoum(1995).
- ** On fundamentals of science, University of Jazira(1995)
- * Food security in the Sudan. University of Jazira, Sudan(1996)
- * Human Nutrition, Jazira university, Sudan (1996)
- *Sudanese medicinal and aromatic plants, potentiality, problems and solutions. Institution of Medicinal and Aromatic Plants Research, National Council for Research, Khartoum(1997).
- ** Climate change, Khartoum(1997)\
- ** The university textbook. University of Sudan for Science and Technology, Khartoum(1998)
- * Forestry Research in the Sudan. Agricultural Research Corporation(1998).
- * Agricultural Education in the Sudan. Ministry of Agriculture, Khartoum(1999).
- * Planting date palm as road tree in the cities. Khartoum Development Corporation(2000)
- ** Biology as a faith testimony. International centre for faith research-Khartoum (2001)
- * Toward a sustainable Agricultural development. Saudi Society for Agricultural Sciences, Riyadh, Saudi Arabia(2002).
- * Marketing of Agricultural products. Saudi Society for Agricultural Sciences, Riyadh, Saudi Arabia(2003)
- ** Present flora of Saudi Arabia and future prospects(Satellite images for flora of Saudi Arabia). National Commission for Wildlife Conservation and Development, Riyadh, Saudi Arabia (2003).
- * Global heating, and its effects on the ecosystems. King Saud University (2003)
- * Towards conservation of biodiversity in the natural forests of Saudi Arabia. King Saud University (2004)
- * Agriculture in Saudi Arabia, opportunities and challenges. Saudi Society for Agricultural Sciences. Riyadh, 2005
- *. Promising medicinal plants in the Arab world, Sudan Ministry of High education and Scientific Research with collaboration of AOAD(Arab Organization for Agric. Development), Khartoum (2007).
- * Preparation for the Manual of Forest Trees in the Arab world, Arab Organization for Agric Development(AOAD), Syria 2008
- * Rehabilitation of plant cover, High commission for Riyadh development. Saudi Arabia(2010).
- * Rehabilitation of plant cover, High commission for Riyadh development. Saudi Arabia(2011).
- * Invasive plant species in the Saudi environment, Saudi Society for Agricultural Sciences. Riyadh, 2012

Consultancies

- ❖ Reforestation programmes in Western Sudan, Business Administration, University of Khartoum.
- ❖ Reforestation of some districts of Khartoum North, Sudan, Khartoum Development Committees.
- ❖ Endangered Sudanese tree species, ICRAF, Kenya.
- ❖ Planting Neem (*Azadirachta indica*) at Arafat area, Saudi Arabia
- ❖ Identification and classification of tree species in Riyadh area, Higher Corporation for Riyadh development, Saudi Arabia(2008 and 2009)

Non-curricular Activities

- ❖ **Participation in the cultural activity in Sudan Universities and institutions:**
 - More than fifteen lectures were delivered to different Sudanese universities, on issues of plant uses and values, and environment.
- ❖ **Mass media:**
Many talks on Environment and plants were given.
- ❖ **Abroad:** Some cultural articles were published in different Arabic magazines, these included:
 - A note on Neem tree (*Azadirachta indica*)1998. Agrotica, issue No. 22, Lebanon
 - A note on Hashab-Gum Arabic tree (*Acacia Senegal L.*) 1999. Agrotica, issue(25), Lebanon,
 - Eucalypts in the arid regions, uses and identification. 2003 AlTabaaa, vol. 3, issue 14, Saudi Arabia
 - Human and soil. Manar Magazine 2001, Arab Emirates
 - Biological variations. Manar Magazine 2002, Arab Emirates

Personal References

- 1- Prof. Seifeldin I. Tageldin
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- 2- Dr. ElAmin M. Sanjak
Deputy Dean, Faculty of Forestry, University of Khartoum
Shambat, Sudan
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- 3- Dr. Khalil Abu Afifa
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