

CURRICULUM VITAE

PERSONAL DETAIL

Name: Mohamed Ahmed Mohamed Siddig
Designation: Professor
Nationality: Sudanese
Date of Birth: 1/1/1972
Department: Physics
Faculty: Science and Technology
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ACADEMIC QUALIFICATION

PhD (Feb. 2004) **Universiti Kebangsaan Malaysia (UKM), Malaysia**
 MSc (Jan. 2000) **Universiti Putra Malaysia (UPM), Malaysia**
 BSc (1994) **Omdurman Ahlia University (OAU), Sudan**

ADMINISTRATIVE DUTIES

- **PROFESSOR OF PHYSICS**, Dept. of Physics, Faculty of Science and Technology, Al Neelain University, Khartoum, Sudan.
- **ASSOCIATE PROFESSOR OF PHYSICS**, Dept. of Physics, Faculty of Science, Albaha University, Al-Baha, Saudi Arabia.
- **MEMBER OF FACULTY BOARD**, FST, Al Neelain University, Khartoum, Sudan.
- **MEMBER OF RESEARCH BOARD**, FST, Al Neelain University, Khartoum, Sudan.
- **PROFESSOR OF PHYSICS**, Department of Medical Physics, National University, Khartoum, Sudan.
- **MEMBER OF SCIENTIFIC COUNCIL**, National University, Khartoum, Sudan.
- **PUBLICATION MANAGER** of Sudan Medical Monitor (SMM), a Journal of Basic and Clinical Research. (ISSN: 1858 - 5000 Online ISSN: 1858 – 6384) www.sudanmedicalmonitor.org

PhD

- **MANUSCRIPT REVIEWER:** Colloids and Surfaces A: Physicochemical and Engineering Aspects, Journal of Inorganic and Organometallic Polymers and Materials, Advances in nanoparticles, Journal of Materials Science and Chemical Engineering (MSCE), Baghdad Science Journal (BSJ), Sudan university journal of science and technology, Sudan Medical Monitor (SMM).

CAREER HISTORY

(Post), (Organization), (Period)

Associate Professor of Physics, Taif University, Taif, Saudi Arabia, 2012-2013
(1433/1434)

Postgraduate Coordinator, Faculty of Science and Technology, Al Neelain University, Khartoum, Sudan, 2009-2011

Committee Member, for numbers of committees of minister of high education to evaluate and review programs of some universities and colleges in Khartoum, Sudan 2009/2012

Academic Affairs Principal, Bayan College for Science and Technology, Khartoum, Sudan, 1/5/2008- 31/4/2009

Dean, Computer and Health Informatics Program, National University, Khartoum, Sudan, 10/7/2005- 31/4/2008

Assistant Professor (Part time), School of Physics and Applied Physics, AL Neelain University, Khartoum, Sudan, 2004- 2006

Post Doctorate, Universiti Kebangsaan Malaysia (UKM), Malaysia,
1/2/2004-30/8/2004

Graduate Research Assistance, Universiti Kebangsaan Malaysia (UKM), Malaysia,
2/2/2001-9/1/2004

Research Assistant, Universiti Putra Malaysia (UPM), Malaysia, Session 1999/2000

Physics and Mathematics Teacher, Tawhidiah School, Makkah, Saudi Arabia,
1995-1997

AREA OF EXPERTISE

- Synthesis, structural and physical properties of Nanomaterials
- Characterization of lyotropic liquid crystal phases using scattering techniques
- Rheological experiments for lyotropic liquid crystalline phases
- Doping of lyotropic liquid crystals with nanoparticles
- Phase mapping of the Glycolipid-based lyotropic liquid crystal
- Modelling and rheological modelling of relaxation phenomena in viscoelastic material

AWARD

2001 PhD scholarship by National University of Malaysia (UKM), B. Bangi, Malaysia

TEACHING

Recent years

(Course Title), (Academic Session), (No. of Student), (No. of Contact Hours)

Post graduate

Atomic structure and spectroscopy, 2014, 47, 36

PhD

Statistical Mechanics, 2014, 34, 36

Solid state 2013, 14, 42

Selected topics (nanomaterials and liquid crystal) 2009/2010, 12, 42

Selected topics (introduction to rheology), 2011, 14, 42

First degree

Electromagnetism, 2020, 10, 45

Non-crystalline materials, 2020, 8, 45

Spectroscopy, 2019, 11, 45

Introduction to Laser, 2020, 9, 45

Vibration and waves, 2019, 14, 45

Electromagnetism, 2019, 20, 45

Introduction to electromagnetic theory, 2016/2017, 21, 45

Classical mechanics, 2019, 08, 45

Atomic physics, 2018, 21, 45

Statistical Mechanics, 2018, 31, 45

Non-crystalline materials, 2018/2019, 11, 45

Spectroscopy, 2019, 11, 45

Electrodynamics, 2017, 12, 45

Quantum mechanics II, 2017, 14, 45

Elementary particles 2014, 34, 39

Education and thinking skills, 2013, 50, 32

PUBLICATIONS**PUBLISHED ARTICLES (INTERNATIONAL):****2022**

- Badawi M. Ali, Yousef A. Alsabah, **Mohamed A. Siddig**, Mohamad S. AlSalhi, Abdelrahman Albadawi, Effect of Cu^{2+} substitution on the Structural and Optical Properties of $\text{Zn}_{0.5}\text{Cu}_x\text{Ni}_{0.5-x}\text{Fe}_2\text{O}_4$ ($X=0.0, 0.1, 0.2, 0.3, \text{ and } 0.4$) via Sol-gel preparation. Submitted to *ACJ*.

2020

- Yousef A. Alsabah Mohamad S. AlSalhi, Eltayeb M. Mustafa, Abdelrahman A. Elbadawi, Sandhanasamy Devanesan, **Mohamed A. Siddig**, Synthesis, Phase transition, and optical studies of $\text{Ba}_{2-x}\text{Sr}_x\text{ZnWO}_6$ ($x = 1.00, 1.25, 1.50, 1.75, 2.00$) tungsten double perovskite oxides. *Crystals*. 10 (4), 299.
- Badawi M. Ali, Yousef A. Alsabah, **Mohamed A. Siddig**, Abdelrahman A. Elbadawi, Abdalrawf I. Ahmed, Abdulmajid A. Mirghni, Influenced of Cu^{2+} doped on Structural, Morphological and Optical Properties of Zn-Mg- Fe_2O_4 ferrite prepared by Sol-gel Method. *Advances in Nanoparticles*. 9, 49-58.
- Sozie Y. Ali, Omer I. Eid, **Mohamed A. Siddig**, The Influence of Cu on the Dielectric Properties of $\text{NiZnFe}_2\text{O}_4$, Synthesized by Solid State Reaction Method. *Journal of Materials Science and Chemical Engineering (MSCE)*, 8, 14-23.
- Yousef A. Alsabah, Abdelrahman A. Elbadawi, Hassan H. Abuelhassan, **Mohamed A. Siddig**, Physical and Optical Properties of Sugar Doped Gum Arabic. *Journal of Materials & Metallurgical Engineering*, 10 (2), 38-50.

2019

PhD

- Yousef A. Alsabab, Ali Taj Elden, Mohamad S. AlSalhi, Abdelrahman A. Elbadawi, **Mohamed A. Siddig**, Structural and optical properties of A_2YVO_6 (A = Mg, Sr) double perovskite oxides, *Results in Physics*, Vol. 15 (December 2019). (Available online)

2018

- Badawi M. Ali, **Mohamed A. Siddig**, Yousef A. Alsabab, Abdelrahman A. Elbadawi, Abdalrawf I. Ahmed, Effect of Cu^{2+} Doping on Structural and Optical Properties of Synthetic $Zn_{0.5}Cu_xMg_{0.5-x}Fe_2O_4$ (x = 0.0, 0.1, 0.2, 0.3, 0.4) Nano-Ferrites, *Advances in Nanoparticles* Vol.7, No.1, 1-10

2016

- S. M. H. Ahmer, I. S. Jan, **M. A. Siddig**, S. F. Abdullah, Experimental results of the tribology of aluminum measured with a pin-on-disk tribometer: Testing configuration and additive effects, *Friction*, Vol.4, issue 2, 124-134.
- Yousif A. Alsabab, Abdelrahman A. Elbadawi, Eltayeb M. Mustafa, **Mohamed A. Siddig**, The Effect of Replacement of Zn^{2+} Cation with Ni^{2+} Cation on the Structural Properties of $Ba_2Zn_{1-x}Ni_xWO_6$ Double Perovskite Oxides (X = 0, 0.25, 0.50, 0.75, 1), *Journal of Materials Science and Chemical Engineering* (MSCE), 4, 61-70.

2015

- Bilquis Ibrahim Adham, Hatim Mohamed El-Khair, **Mohamed Ahmed Siddig**, Frequency dependence of atomic diffusivity and electrical properties of Gum Arab-ic/Graphite composite, *Journal of Materials Science and Chemical Engineering* (MSCE), 3, 30-36
- bdalrawf I. Ahmed, **Mohamed A. Siddig**, Abdulmajid A. Mirghni, Mohamed I. Omer, Abdelrahman A. Elbadawi, Synthesis of $Mg_{1-x}Zn_xFe_2O_4$ nano-ferrites prepared using co-precipitation method and its structural and optical properties, *Advance in Nanoparticles*, Vol.4, 45-52
- **Mohamed A. Siddig**, Abubaker A. Siddig, Lal S. Jan, Abdo Alrahman A. Elbadawi, Shahidan Radiman, Influence of nanosize silica particles on the rheological behaviours of lyotropic cubic phase of Glucopone (APG) surfactant. *International Journal of Materials Science and applications* (IJMSA) Vol.4. Issue 2. 130-137
- Abdelrahman A. Elbadawi¹, Osama A. Yassin, **Mohamed A. Siddig**, Effect of the cation size disorder at the A-site on the structural properties of $SrAFeTiO_6$ double perovskites (A= La, Pr or Nd), *Journal of Material Science and Chemical Engineering* (MSCE), Vol.3, 21-29
- Abdulmajid A. Mirghni, **Mohamed A. Siddig**, Mohamed I. Omer, Abdoalrahman A. Elbadawi, Abdoalraouf I. Ahmed, Synthesis of $Zn_{0.5}Co_xMg_{0.5-x}Fe_2O_4$ nano-ferrites using Co-precipitation method and its structural and optical properties, *American Journal of Nano Research and Application*, Vol. 3, No. 2, 2015, 27-32
- Yousif A. Alsabab, Abdo Alrahman A. Elbadawi, **Mohamed A. Siddig**, Mohammad I. Ibrahim, Synthesis and physical properties of Double Perovskite X_2AlVO_6 (X = Ca, Sr and Ba), *International Journal of Science and Nature* Vol. 6 (1) 2015, 56-62
- A. Elhadi H. M. Ishage, Hatim M. Elkhair, Abdo Alrahman A. Elbadawi, **Mohamed A. Siddig**, Marwan Sabah Elkhair, Determination of Dielectric Constant of Gum Arabic / Carbon Black Composite Material, *Nova Journal of Engineering and Applied Sciences* (NJEAS), Vol.3(1), 2015: 1-7

PhD

- **Mohamed A. Siddig**, Abdelrahman A. Elbadawi, Abdulgadir E. Abdulgadir, Abdelfatah M. Ahmed, Nada Yusif, Structural characterization and physical properties of hydнорааfricana, *Scholar Journal of Physics, Mathematics and Statistics (SJPMS)*, Vol.2, issue 22(2B):264-268
- Haroon I. Harron, Abdelrahman A. Elbadawi, **Mohamed A. Siddig**, Hassan. H. Abuelhassan, Murwan K. Sabah Elkhair, Study of physical properties of egg shell and its recycling waste powder, *Nova Journal of Medical and Biological Sciences (NJMBS)*. Vol.3 issue 1, 1-6

2014

- Maaly A. Gariballah, Abdoalrahman A. Elbadawi, **Mohamed A. Siddig**, First Principles Study of Structural, Magnetic and electronic Properties of Sr₂MgWO₆ Double Perovskite, *International Journal of Science and Nature* Vol. 5 (4) 2014, 632-635

2011

- Lal Said Jan and **Mohamed A. Siddig**, Synthesis, characterization and enhanced electrical properties of ctab-directed polyaniline nanoparticles *Chinese Journal of Polymer Science*. Vol. 29, No. 2, (2011), 181–190

2007**EDITORIAL NOTE:**

- **Mohamed A. Siddig**, Health Informatics, Editorial Note, *Sudan Medical Monitor*, May 2007

2006

- **Mohamed A. Siddig**, S. Radiman, S. V. Muniandy and L. S. Jan, Rheological behaviour of the hexagonal and lamellar phases of Glucopone (APG) surfactant. *Colloids and Surfaces A: Physicochem. Eng. Aspects*. 276 (2006) 15-21

2005

- **M. A. Siddig**, S. Radiman, S. V. Muniandy, L. S. Jan, Influence of nanosize silica particles in the rheological behaviours of lyotropic hexagonal phase of Glucopone surfactant. *Colloids and Surfaces A: Physicochem. Eng. Aspects*. 254 (2005) 215-212

2004

- Lal Said Jan, S. Radiman, **Mohamed A. Siddig**, S.V. Muniandy, M.A. Hamid and H.D.Jamali, Preparation of Nanoparticles of Polystyrene and Polyaniline by γ -Irradiation in a Lyotropic Liquid Crystal. *Colloids and Surfaces A: Physicochem. Eng. Aspects* 251 (2004) 43-52
- **Mohamed A. Siddig**, S. Radiman, S. V. Muniandy and L. S. Jan, Structure of cubic phases in ternary systems Glucopone/Water/Hydrocarbons. *Colloids and Surfaces A: Physicochem. Eng. Aspects*. 236 (2004) 57-67
- **Mohamed A. Siddig**, Siti Salwa Zainal Abidin, S. Radiman and S. V. Muniandy. Properties and rheological behaviour of oil in water emulsions of Glucopone surfactant, *Malaysian Journal of Physics*, (2004) Vol. 25, No. 3&4 73-76
- **Mohamed A. Siddig**, S. Radiman, S. V. Muniandy. Rheological modelling of wormlike micelle systems using fractional viscoelastic model, *Suranaree Journal of Science and Technology*, (2004) Vol. 11, No. 2, 52-57

PhD

2003

- **Mohamed A. Siddig**, Zainul Abidin Hassan and Hishamuddin Zainuddin, Modelling of the optical functions for multi-layer thin film, *Suranaree Journal of Science and Technology*, (2003) Vol. 10, No. 1, 40-46

2002

- **Mohamed A. Siddig**, S. Radiman and S. V. Muniandy, Dynamic rheological modelling of wormlike micelles systems using fractional viscoelastic model. *Malaysian association of chemistry (SKAM-15)* 16-17 September 2002, P. Penang. Appeared in *Malaysian Journal of Analytical Science*

PUBLISHED ARTICLES (NATIONAL):**2015**

- Yusif A. Alsabah, Abdoalrahman A. Elbadawi, **Mohamed A. Siddig**, Physical properties of Ca_2AlVO_6 new double perovskite oxide, Faculty of Science journal, Islamic University, Accepted, issue 5 May – June 2015.

2014

- Haroon I. Harron, Abdelrahman A. Elbadawi, **Mohamed A. Siddig**, Optical and Electrical Properties of Eggshell, *Alneelain Postgraduate Journal*, 2014, issue 3, pp 1-11
- Yusif Alsabah, Abdo Alrahman A. Elbadawi, **Mohamed A. Siddig**, Mohammad Ibrahim, Synthesis and physical properties of Double Perovskite BaAlVO_6 , *Alneelain Postgraduate Journal*, 2014, issue 4, pp 1-11

2013

- Hajer Adam, **Mohamed A. Siddig**, Abubaker A. Siddig, Nisreen Awad Eltahir, Hajer Adam, Electrical and optical properties of two types of Gum Arabic, *Sudan Medical Monitor* Vol.8, No. 4 (2013) 174 – 178
- Nisreen Awad Eltahir, **Mohamed A. Siddig**, Abubaker A. Siddig, Hajer Adam, Structure and physical properties of flowering plants of hibiscus, *Sudan Medical Monitor* Vol.8, No. 3 (2013) 135 – 139

2012

- Mohd Faudzi Umar, Shahidan Radiman, **Mohamed A. Siddig**, Influence of nanosized silica particles on the microstructure lamellar phase of AOT/Isooctane/Water ternary system, *Sudan Medical Monitor* Vol.7, No. 1 (2012) 21 – 27.

2011

- **Mohamed A. Siddig**, Abubaker A. Siddig, Shahidan Radiman, Lal Said Jan, Structure of bicontinuous cubic phase of glycolipid surfactant in the presence of nanosize silica particles, *Sudan Medical Monitor* Vol.6, No. 1 (2011) 25 - 34

2010

- Isam Aldin H. S. Badawi, A. M. Artoli, **Mohamed A. Siddig**, Calculation of the mechanical properties for lower limb below knee amputee using partial differential equation and finite element method, *Sudan Medical Monitor* Vol.5, No. 3 (2010) 115 – 121
- Isam Aldin H. S. Badawi, A. M. Artoli, **Mohamed A. Siddig**, Calculation of the mechanical properties for an amputee hip joint, *Sudan Medical Monitor* Vol.5, No. 2 (2010) 63 - 67

PhD

2009

- **M. A. Siddig**, A. A. Siddig, S. Radiman, L. S. Jan, Rheological properties of amino-acid based anionic surfactant. *Sudan Medical Monitor* Vol.4, No. 4 (2009) 149-154
- **Mohamed A. Siddig**, S. Radiman, A. A. Siddig, Effect of oil types and concentration on ultrasonic measurements of alkyl polyglucosides liquid crystal phases, *Sudan Medical Monitor* Vol.4, No. 2 (2009) 69 - 76
- Lal Said Jan, **Mohamed A. Siddig**, S. Radiman, A. A. Siddig, Lyotropic liquid crystalline route for the synthesis of mesoporous silica, *Sudan Medical Monitor* Vol.4, No. 2 (2009) 61 - 65
- **Mohamed A. Siddig**, Shahidan Radiman and A. A. Siddig, Modelling of fractional relaxation characteristics in wormlike micelles in the presence of a triblock copolymer, *Sudan Medical Monitor* Vol.4, No. 1 (2009) 41 – 45

2007

- **Mohamed A. Siddig**, S. Radiman, Abubaker A. Siddig, Phase behaviours of amino-acid based anionic surfactant. *Sudan Medical Monitor* Vol.2, No. 4 (2007) 133-135
- **Mohamed A. Siddig**, S. Radiman, S. V. Muniandy, Modelling of fractional relaxation characteristics in polysaccharide systems. *Sudan Medical Monitor* Vol.2, No. 2 (2007) 55-57

2006

- **M. A. Siddig**, S. Radiman, L.S. Jan, Influence of different oil types on the rheological behaviour of nonionic oil-in-water microemulsion. *Sudan Medical Monitor* Vol.1, No. 3 (2006) 77-82
- **M. A. Siddig**, Siti Salwa Zainal Abidin, S. Radiman, S. V. Muniandy, Characterization of vesicles of nonionic surfactant mixture. *Sudan Medical Monitor* Vol.1, No. 1 (2006) 13-18

CONFERENCES AND PROCEEDINGS:**2015**

- Gamar Alanbia Bilal Mansour, Nahid Osman, Karlo Ayuel, Mohamed A. **Siddig**, First Principles Study of Structural and Optical Properties of Alkaline Earth Halide SrF₂ in its Cubic Phase, International Conference on Computing, Control, Networking, Electronics and Embedded Systems Engineering, Khartoum, Sudan

2014

- Abdulmajid A. Mirghni, **Mohamed A. Siddig**, Mohamed I. Omer, Abdoalrahman A. Elbadawi, Abdoalraouf I. Ahmed, Synthesis, structural and optical properties of Zn_{0.5}CoxMg_{0.5-x}Fe₂O₄ nano-ferrites, Annual Graduate college conference, Alneelain University, Khartoum, Sudan
- Haroon I. Harron, Abdelrahman A. Elbadawi, **Mohamed A. Siddig**, Optical and electrical properties of Egg Shell, Graduate college conference, Alneelain University, Khartoum, Sudan

2012

- L. S. Jan, S. M. H. Ahmer, **Mohamed A. Siddig**, Synthesis of Nanoporous Silica in the Template of APG Lyotropic Liquid Crystal using Gamma Radiations, Materials today virtual conference: nanotechnology, Webinar NanoToday, Elsevier, 11-12 Dec, 2012

PhD

2004

- Lal Said Jan, S. Radiman, **Mohamed A. Siddig**, S. V. Muniandy, M. A. Hamid. Lyotropic liquid crystalline route for the synthesis of mesoporous silica. *National Conference on Physics, PERFIK (2004)*, Palace of the Golden Horses, Seri Kembangan, Selangor, Malaysia. Proceeding PP. 111-115

2003

- **Mohamed A. Siddig**, S. Radiman and S. V. Muniandy, Rheological behaviours of the cubic phase of Glucopone surfactant in various types of oil. The 3rd *International Conference on Advances in Strategic Technologies, ICAST (2003)*, 445-450
- **Mohamed A. Siddig**, S. Radiman, S. V. Muniandy, the structure and rheological behaviour of lamellar and hexagonal phase of nonionic surfactant: the effect of oil types, *National Conference on Physics, PERFIK*, 15-17 August 2003, Fraser's Hill, Pahang, Malaysia

2002

- **Mohamed A. Siddig**, S. Radiman and S. V. Muniandy, Modelling of fractional relaxation characteristic in wormlike micelles in the presence of a triblock copolymer. *Fifth UKM-ITB*, 16-17 July 2002, Melaka, PP. 399-404
- **Mohamed A. Siddig**, S. Radiman and Hartini Cik, Phase characterization and rheological properties of Glucopone and sucrose ester. Putra World Trade Center (PWTC) 2-4 September 2002, Poster presentation

2001

- **Mohamed A. Siddig**, S. Radiman and S. V. Muniandy, Modelling of relaxation dynamics in gels using fractional Zener model. National Conference on Physics, *National conference of physics (PERFIK)*, 15-16 September 2001, Kuala Lumpur, Proceeding PP. 12-15
- **Mohamed A. Siddig**, S. Radiman and S. V. Muniandy, Modelling of fractional relaxation behavior in polysaccharide systems. KOLOKIUM SISWAZA Pertama, 16-17 April 2001, UKM. Proceeding PP. 143-146

RESEARCH SUPERVISOR (Currently):

2 PhD students

EXAMINER OF POSTGRADUATE THESIS:

- First Principles Study of Structural and Optical Properties of Alkaline Earth Halids CaF₂, BaF₂ and SrF₂ Doped with Yb and La, Gamar Alanbyaa Bilal Mansour Hassa, Ph.D., Alneelain University, 2019
- Structural and Magnetic Studies of Mg- and Zn- Doped Cobalt Nanoparticles Ferrites Synthesized Through Co-Precipitation Routes, Mohamed Ibrahim Mohamed Omer, Ph.D., Alneelain University, 2014
- Recycling edible oils to produce biodiesel, Susan Abdallah Suliman Mohammed, MSc, Alneelain University, 2014
- Maximum power of wind turbine in selected station in Sudan, Ghazi Omer Hassan, MSc, Alneelain University, 2014
- Photodegradation of Rhodamine 6G molecules using TiO₂ photocatalysis, Mohamed Ahmed Mahgoub Baba, MSc, Sudan University, 2014
- The effect of ZnO nanoparticles in the optical properties of LDPE, Ibtihal A. Rahim Eltahir Ahmed, MSc, Sudan University, 2014

PhD

- Exploration of single oxygen emitted after irradiation of Dibenzocyanine 45, Methylene Blue and Rhodamine 6G dyes using lasers with different wavelengths, Ahmed Abubaker Mohamed Tahir, MSc, Sudan University, 2014
- Sara Ahmed Abed Elnabi, Simulation of Different Laser Cavity Designs, MSc, Alneelain University, 2013
- Adil Kamil Hassan, Trace Elements in Soil, MSc, Alneelain University, 2013
- Studies on the electrical and structural properties of some iron-based Perovskite oxides, Abdo Alrahman Ahmed Elbadawi, Ph.D., Alneelain University, 2012
- Structural Characterization and Optical Properties of Hibiscus, Nisreen Awad Eltahir Mostafa, MSc, Alneelain University 2012
- Electrical and Optical Properties of Gum Arabic, Hajer Adam Mohammed Adam, MSc, Alneelain University 2012
- Shaza Mahmoud Fadl Alla, Determination of Dielectric for porous Gum Arabic Using Impedance Spectroscopy , MSc, Alneelain University 2012
- Determination of Dielectric constant for porous titanium-oxide (TiO₂) Using impedance spectroscopy, A. Elahadi Hamed Mohammed Ishage, MSc, Alneelain University, 2010
- Generalized Gravitational Field and Geometrical Properties of Electromagnetism Parameters, Khadm Allah Basheer Gasm Mohamed, MSc, Sudan University, 2010

REFEREES:

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 National University - Sudan
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