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Research Interests:

solid state physics

Superconducting materials

Semiconductor materials

Language Skills

Arabic, English

Qualification (Career and University Education)

1999	B. Sc. Degree (Honors) Physics	SUDAN UNIVERSITY OF SCIENCE & TECHNOLOGY
2003	M.Sc. Degree (Physics)	SUDAN UNIVERSITY OF SCIENCE & TECHNOLOGY
2011	PhD Degree (solid state Physics/Superconductivity)	SUDAN UNIVERSITY OF SCIENCE & TECHNOLOGY

Career

May 2000 - June 2003	Teaching Assistant	SUDAN UNIVERSITY OF SCIENCE & TECHNOLOGY (sust)
July 2003 - Jan 2011	Lecturer	(sust)
Feb. 2011 - July 2105	Assistant Professor	(sust)
August 2015- Now	Assistant Professor	(mu)

Conferences

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Publications

Publication Title	Name of Journal	Date of Publication	Link
Electrical properties and the degree of ionization of the magnetized water	MSc thesis	2003	DOI: 10.4236/ns.2013.58114
Design a Theoretical Model of Superconducting Materials at High Temperatures Critical	PHD thesis	2011	DOI: 10.4236/ns.2013.510131
using the tight binding approximation in deriving the quantum critical temperature superconductivity equation	Natural Science Vol.5 No.8,	August 7, 2013	DOI: 10.4236/ns.2014.617117
impact of the light intensity variation performance of the solar cell constructed from Muscovite / TiO₂ / dye / Al	Natural Science Vol.5 No.10,	September 29, 2013	DOI: 10.4236/ns.2014.617119
Deriving of the Generalized Special Relativity (GSR) by Using Mirror Clock and Lorentz Transformations	Natural Science Vol.6 No.17	December 31, 2014	Paper ID: SUB14830

<p>Using the Resistance Depending on the Magnetic and Electric Susceptibility to Derive the Equation of the Critical Temperature</p>	<p>Natural Science Vol.6 No.17</p>	<p>December 31, 2014</p>	<p>DOI: 10.4236/ns.2016.83011</p>
<p>Explanation of the Effect of Magnetic Field on laser Intensity on the Basic of Generalized Special Relativity</p>	<p>International Journal of Science and Research (IJSR) ISSN (Online): 2319-70647 Volume 3 Issue</p>	<p>12, December 2014</p>	<p>DOI: 10.4236/ns.2013.58114</p>
<p>New Derivation of Simple Josephson Effect Relation Using New Quantum Mechanical Equation</p>	<p>Natural Science Vol.8 No.3</p>	<p>March 2016</p>	<p>DOI: 10.4236/ns.2013.510131</p>
<p>Quantization of Harmonic Oscillator Soliton by Friction Term Method</p>	<p>International Journal of Theoretical and Mathematical Physics 2018, 8(4): 89-93</p>	<p>December 2018</p>	<p>DOI: 10.5923/j.ijtmp.20180804.02</p>

Describe a Bell and Breathe Solitons by Using Harmonic Oscillator Soliton	International Journal of Theoretical and Mathematical Physics 2019, 9(1): 9-13	January 2019	DOI: 10.5923/j.ijtmp.20190901.02
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Teaching Experience

Course name	Course code	College of Science	Sudan University of science & Technology
General Physics (1)	PHY111	College of Science	SUST
General Physics (2)	PHY112	College of Science	SUST
Vibrations & Waves	PHY215	College of Science	SUST
Modern Physics	PHY222	College of Science	SUST
Quantum Mechanics (1)	PHY312	College of Science	SUST
Classical Mechanics	PHY212	College of Science	SUST
Plasma Physics	PHY322	College of Science	SUST
Advanced Quantum Mechanics	PHY614	College of Science	SUST

Course name	Course code	Zulfi College of Science	Majmaah University
Quantum Mechanics (2)	PHY322	College of Science	MU
Quantum Mechanics (1)	PHY311	College of Science	MU
Classical Mechanics (2)	PHY215	College of Science	MU
Solid State Physics (2)	PHY412	College of Science	MU
Statistical Physics	PHY321	College of Science	MU
Electronics (1)	PHY313	College of Science	MU
Electronics (2)	PHY324	College of Science	MU
Spectroscopy (Practical)	PHY614	College of Science	MU
General Physics (1) (lecture) Sc	PHYS101	College of Science	MU

Training Experience

Name	Course Type	Institution	Date
Upgrade the Performance of the University Staff	A training course	Sudan University of Science and Technology	18/11/2012 till 29/11/2012

Crystal Structure of condensate material	A training course	Neelain Univ.	May 2009
Skills of a good teacher & Teaching methods	A training course	Sudan University of Science and Technology	March 2015
E-learning (D2L)	A training course	Majmaah university	11/1436
Cloud Collaboration	A training course	Majmaah university	25-1-1439
Mechanism of operation of educational platforms	A training course	Majmaah university	24-1 1440
Scientific Publications at Majmaah University	A training course	Majmaah university	12-2-1440
How to use the basic tools of the Blackboard system	A training course	Majmaah university	3-5-1440
Web2 Application	A training course	Majmaah university	12-6-1440
Design of Infographic in e-learning	A training course	Majmaah university	25-6-1440

Practical Skills

Microsoft (Word, Excel, Power point)

mat lab
