

Curriculum Vitae

Gazy Khatmi Rodowan ALbedry



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Date of birth : 03/07/1987

Nationality : Sudanese

Research activity

Synthesis of advanced nanomaterials .

- 1) Optoelectronic Nanomaterials
- 2) Light Matter Interaction
- 2) Laser tissue interaction
- 3) Nano materials for water purification
- 4) Nano materials for photocatalysis and renewable energy applications.

Academic qualifications

- M.Sc. in school of physics and applied physics (laser and modern optics) - Al Neelain university –Khartoum - 2015
- B.sc .Hones. In Physics , Faculty of Science and Technology School of Physics & Applied Physics - 2010

- Experiences

- Lecturer at ALNeelain University (Laser and renewable energy department)
- Lecturer at ALMughtaribeen University - Khartoum - college of Engineering – 2015
- Lecturer - part Timer - Faculty of optical science. ALNeelain university - 2015
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- Teaching Assistant_ physics (Laser and renewable energy Department) in Al-Neelain University. 2010 - 2015.
- Teaching Assistant _ part Timer _ physics in Sudan international University –Sudan. 2013
- Research assistance in Advance material science lab – Alneelain University 2014 –To date .
- Co –supervisor with Dr. Nashwa Essa for undergraduate student at Alneelain University 2015 in solar photocatalysis for water disinfection

Job responsibilities:

- Giving physics for scientist and engineering
 - Giving physics with bioscience Essays (for Medsin student)
 - Giving Advanced optics, laser tissue interaction, laser in material processing and fiber optics for second third fourth and fifth laser students.
 - Giving Advanced Material science characterization tools (XRD , UV – Visible spectrometer and FTIR for undergraduate student) .
 - Conducting laboratory sessions for first year physics students
 - Conducting laboratory sessions for laser department students
 - Evaluating student lab work
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- Part time Teaching Assistant_ physics in University of zalingei - Sudan, 2013
- Job responsibilities:***
- Conducting laboratory sessions
 - Review experiment beforehand
 - Asking and answer student's questions
 - Evaluating student lab work .

Courses in teaching and academic evaluation of physics

- Lab Safety Course in Al Neelain University – 2007.
- Training program of medical laser devices (Maintenance and Operation) in Al -neelain may 2010
- Training program of optoelectronics devices in Al-Neelain University 2012.

- **Training course in laser science and it application including :**
From 2 to 8 October 2012 (21 hours)

Laser's fundamentals ,laser's tissue interaction , laser in spectroscopy , in material processing and in communication and fiber optics .As well as practical sessions in laser types ,Raman spectrometer and UV spectrometer in Oct. 2012–institute of laser -- Sudan university of science and technology Khartoum .

- **Khartoum and ICTP (Italy) workshop 2015.Advance material science**
From 1 to 10 January (100 hours)

About the Quantum ESPRESSO Distribution ,Ab-Intito molecular dynamic , Ab-intion thermodynamic ,photo –Electrochemistry ,Grapheme Spintronics ,Density of electronic State (Project) and Classical molecular Dynamic

- **OKINAW institute for science and technology workshop 2015.Advance material science**
From 20 to 28 February (30 hours)

light matter interaction units

Conferences and Workshops

- Physics Year Conference _ Friendship Hall Khartoum 2005.
- 2nd Conference in laser science and application-Koral Alkhartoum Sudan2010.
- 5th Annual conference of Graduated Studies -Sudan 2013
- 6th Annual Annual conference of Graduated Studies - Sudan 2014.
- Khartoum and ICTP (Italy) workshop 2015.

- Okinawa institute for science and technology (OIST) –OKINAWA –Japan 2015

Publications

“Water disinfection by solar radiation and Solar photocatalysis using ZnO,TiO₂ nanoparticles”
Submitted .

References

Dr. Nashwa Eassa

Assistant professor in physics

Faculty of science and technology – Alneelain University

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Dr. Abdo alrahman albadewy

Assistant professor in material science

Head of physics – Alneelain University

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Dr. Wasil H. M .SALIH

Assistant professor in medical physics

Faculty of Science and Technology - Al Neelain University

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Dr. Atef Saeed Assistant professor in Microbiology

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