

MOHAMMED SAID AL-QAHTANI

King Saud University , Department of physics and Astronomy
Riyadh, Saudi Arabia

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EDUCATION

2008 - 2013 **University of Sheffield** **Sheffield, United Kingdom**
Doctor of Philosophy in Nano-Physics.

Research interests: Diluted Magnetic Semiconductors (DMSs).

Thesis Title: "*Magnetic and Magneto-Optical Properties of Doped Oxides*".

1996 - 2000 **King Saud University** **Riyadh, Saudi Arabia**
Master of Sciences in Physics

Research interests: Biophysics, Laser and its applications.

Thesis Title: "*Study of the Physical Properties of Laser Exposed Liposomes*".

1989 - 1993 **King Saud University** **Abha, Saudi Arabia**
Bachelor of Sciences and Education in Physics.

WORK EXPERIENCE

2013 – Current **King Saud University** **Riyadh, Saudi Arabia**
Assistant professor in the Department of Physics and Astronomy.

2013- Current **King Saud University** **Riyadh, Saudi Arabia**
Head of natural science department, college of community

2006 - 2013 **King Saud University** **Riyadh, Saudi Arabia**
Lecturer in the Department of Physics.

2001 - 2006 **Ministry of Education** **Riyadh, Saudi Arabia**
Senior teacher of Physics in Al-Olaya Secondary School.
Nominated to be an education supervisor in Riyadh Educational Region.

1994 - 2001 **Ministry of Education** **Riyadh , Saudi Arabia**
Teacher of Physics in Al- Olaya Secondary School. **Riyadh, Saudi Arabia**

1993 - 1994 **Ministry of Education** **Abha , Saudi Arabia**
Teacher of Physics in Al-Wadiain Secondary School.

QUALIFICATIONS AND TRAINING

2010	Sheffield University	Sheffield- UK
Attended “ 7 Habits to Success” Short Course.		
2005	Ministry of Education	Riyadh- Saudi Arabia
Attended “Teaching Aids" Short Course.		
2003	Ministry of Education	Riyadh- Saudi Arabia
Attended "Effective Educational Supervision" Short Course.		
2003	Ministry of Education	Riyadh- Saudi Arabia
Attended "Intelligent Thinking" Short Course.		
2002	Ministry of Education	Riyadh- Saudi Arabia
Attended "Measurement of Teaching Qualification" Short Course.		
2002	Ministry of Education	Riyadh- Saudi Arabia
Attended "Teaching Methods" Short Course.		
2002	Ministry of Education	Riyadh- Saudi Arabia
Attended "Effective Teaching” Short Course.		
2002	Ministry of Education	Riyadh- Saudi Arabia
Certified in "Qualification of exams and work achievements".		
2001	Ministry of Education	Riyadh- Saudi Arabia
Certified in "Evaluation of distinction students".		
2001	Ministry of Education	Riyadh- Saudi Arabia
Certified in "Qualification of teaching materials".		
1998	Ministry of Education	Riyadh- Saudi Arabia
Certified in "Qualification of work performance" with Excellent grade.		
1994	Attended "Educational Training program in Sciences".	

ACTIVITIES AND MEMBERSHIP

2013 Member of the council of the physics department
 2013 Member of the materials research group
 2013 Member of Saudi Physics Society
 2006 Member of Saudi Physics Society.
 1994-2003 Nominated as a senior exam marker for “the General Secondary Certificate Examinations” during 1995 until 2003.
 1996 Supervisor of high school scientific trips and experiments

CONFERENCES AND SEMINARS

- 2014 Attended “The 32nd International Conference on the Physics of Semiconductors” at the University of Texas, USA.
- 2014 participated in the conference of “Euro-American Conference For Academic Disciplines” at Anglo-American University, Prague, Czech Republic.
Participation title: Strontium Titanate STO Substrate.
- 2014 participated in the conference of “International Academic Conference” at the University of Nevada, USA.
Participation title: Optical and Magneto-optical properties of In_2O_3 containing Fe_3O_4 nanoparticles films.
- 2010 participated in the conference of “Condensed Matter and Material Physics (CMMP) 2010” at the University of Warwick, UK
Participation title: Magnetic and Optical properties of strained films of multiferroic GdMnO_3
- 2009 participated in the conference of “Condensed Matter and Materials Physics CMMP09” at the University of Warwick, UK.
Participation title: Influence of oxygen pressure on the magnetic and transport properties of Fe-doped In_2O_3 thin films.
- 2006 Attended “ the 3rd conference of Saudi Physics Society”

LANGUAGES

- **Arabic:** Native.
- **English:** Second language

RESEARCH AND PUBLICATIONS

- 1- N.M.A. Hadia, **Mohammed S. Alqahtani** and S.H. Mohammed, *WO₃ nanowires for optoelectronic and gas sensing applications*, Appl. Phys. A (2015) 119:1261-1267
- 2- Marzook S. Alshammari, **Mohammed S. Alqahtani**, AM Fox, HJ Blythe, A. M. H. R. Hakimi, SM Heald, S. Alfahad, M. Alotibi, A. Alyamani, GA Gehring, *Magnetic, Transport, Optical and Magneto-optical investigations of In_2O_3 containing Fe_3O_4 nanoparticles*, PHYSICAL REVIEW B **90**, 144433 (2014).

- 3- **Mohammed S. Al Qahtani**, Marzook Alshammari, H.J Blythe, A.M. Fox, G.A.Gehring, N. Andreev, V. Chichkov, and Ya, Mukovskii, *Magnetic and Optical properties of multiferroic $GdMnO_3$ film*, Journal of Physics: Conference Series **391**, 012083 (2012).

- 4- F.-X. Jiang, X.-H. Xu, J. Zhang, X.-C. Fan, H.-S. Wu, M. Alshammari, Q. Feng, H. J. Blythe, D. S. Score, K. Addison, **M. Al-Qahtani** and G. A. Gehring, *Room temperature ferromagnetism in metallic and insulating ($In_{1-x}Fe_x$) $_2O_3$ thin films*, Journal of Applied Physics 109 (5), 053907-053907 (2011).

- 5- A. M. H. R. Hakimi, M. G. Blamire, S. M. Heald, M. S. Alshammari, **M. S. Alqahtani**, D. S. Score, H. J. Blythe, A. M. Fox and G. A. Gehring, *Donor band ferromagnetism in cobalt-doped indium oxide*, Physical Review B 84 (8), 085201 (2011).

- 6- Gillian A. Gehring, Harry J. Blythe, Qi Feng, David S. Score, Abbas Mokhtari, Marzook Alshammari, **Mohammed S. Al Qahtani** and A. Mark Fox, *Using Magnetic and optical methods to determine the size and characteristics of nanoparticles embedded in oxide semiconductors*, IEEE Transactions on Magnetism, vol. 46, issue 6, pp. 1784-1786.(2010).

- 7- Gannam, M. M.; **Al-Talhan, Mohammed S.**, Al-Ayed, M.; Azer, A.: *Study of the Physical Properties of Laser Exposed Liposomes*, Egyptian Journal of Biophysics, Vol. 9, No. 1, (2003).