

DR. NOWEIR AHMAD ALGHAMDI

Al- Baha, Saudi Arabia
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EDUCATION

University of Colorado Colorado Springs, Colorado Springs, USA

Doctor of Philosophy, Applied Science, Physics, May 2019

PhD thesis: “Ferrite particles employed as Temperature Sensors for Magnetic Resonance Imaging Thermometry”

Pavol Józef Safarik University, Kosice, Slovakia

Masters of Science, Physics, May 2013

Master Thesis: “Experimental study of Unconventional Magnetic systems at low temperature to $\text{Er}_2\text{Sn}_2\text{O}_7$ ”

King Abdulaziz University, Jeddah, Saudi Arabia

Bachelors of Science, Physics, Feb 2008

Colorado State University, Fort Collins, Colorado, USA

INTO Colorado State University, January 2014

Courses: Academic English

PROFESSIONAL EXPERIENCE

Vice deanship of e- learning and information technology- girls' section

Member of activity for faculty of science- girls' section

Al Baha University, Al-Baha, Saudi Arabia.

Taught courses of Electromagnetic physics and Thermodynamic for the College of Science, Physics Department. Additionally, I have taught solid state physics. I Laser physics, atomic physics, electronic, general physics 1 and 2

Teacher assistance: Teacher assistance to more than 100 undergraduate students at the University of Colorado Colorado Springs, USA

Demonstrator: Led a class of 32 students in learning physics 101.

TRAINING COURSES

- The basics of the information technology infrastructure library ITIL
- Administrative leadership course
- Cybersecurity course
- Software development life cycle (SDLC) training
- Remote course by using configuration manger tool
- Rules of behavior and work ethics
- Mechanism of building electronic test
- Fundamental of information security
- First Aid training- King Abdulaziz University, Jeddah
- “Developing Proficiency of Science Research Skills,” USA
- “ICDL license for computer, “New Horizon”, Jeddah 2009.
- Diploma in Applied Computer, Al Mashael Institute for Computer Development, Jeddah 2009
- Academic English Course- Fort Collins, Colorado State University, USA
- Passing International English Language Testing System” IELTS”, USA 2014
- Passing Graduate Record Examinations “GRE” Physics, USA 2014
- Passing Graduate Record Examinations GRE general, USA 2014

ACTIVITY

- A Certificate of Thanks and appreciation from King Abdulaziz University in Conclusion of activities for participating from 2005-2009, Jeddah
- Participating in Inshad theatre - King Abdulaziz University, 2008 Jeddah
- Head of activities in Al-Baha University
- Participating in International Festival Day for students- Colorado Springs, USA 2015-2019

CONFERENCE

- Participating in CSMAG13 conference 2013 by presentation title” Thermodynamic properties of geometrically frustrated $S=1/2XY$ pyrochlore antiferromagnet $Er_2Sn_2O_7$ ”
- Participating in Magnetism and Magnetic Materials (MMM 2017) conference by poster title” Magnetic Characterization of Magnesium Zinc Ferrites for MRI Temperature Contrast agent”
- Participating in 3th Front Range Advanced Magnetism Symposium (FRAMS 2017) conference by poster title” Magnetic Characterization of Magnesium Zinc Ferrites for MRI Temperature Contrast agent.”
- Participating in International Conference on Magnetism (ICM 2018) conference by poster title” Mossbauer Studies of Ferrite Based MRI Temperature Contrast Agents”
- Attending virtual conference of Cyber security
- Digital transformation conference
- Successful crisis management leadership, a model of corona pandemic

PUBLICATIONS

- N.A. Alghamdi, J.H. Hankiewicz, N.R. Anderson, K.F. Stupic, R.E. Camley, M. Przybylski, J. Żukrowski, and Z. Celinski, Development of Ferrite-Based Temperature Sensors for Magnetic Resonance Imaging: A Study of $Cu_{1-x}Zn_xFe_2O_4$ Physical Review Applied.
- Noweir alghamdi, John Stroud, Marek Przybylski, Jan Zukrowski, Angela Hernandez, Jared Brown, Janusz Hankiewicz, Zbigniew Celinski, Magnetic characterization of ferrite particles employed as contrast agents for magnetic resonance imaging thermometry, Journal of Magnetism and Magnetic Materials.
- J.H. Hankiewicz, N. Alghamdi, N.M. Hammelev, N.R. Anderson, R.E. Camley, K. Stupic, M. Przybylski, J. Zukrowski, and Z.J. Celinski, Zinc doped copper ferrite particles as temperature sensors for magnetic resonance imaging, AIP Advance. **7**, 056703 (2017)

- Shahid Bashir, Maryam Hina, Javed Iqbal, A, H. Rajpar, M. A. Mujtaba, N. A. Alghamdi, S. Wageh, K. Ramesh, S. Ramesh, Fundamental concepts of hydrogels: synthesis, properties, and their application, Polymers,**12**, 2020

SKILLS

- Proficient in both Arabic and English languages
- Proficient at computer