

## CURRICULUM VITAE

### PERSONAL DATA

<b>Name</b>	Ahmed M. Alkaoud
<b>Nationality</b>	Saudi
<b>Position</b>	Associate Professor
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### EDUCATION

<b>Year</b>	<b>Academic Degree</b>	<b>Institution</b>
1987	Bachelor degree of science in the field of physics	King Saud University
1993	Master degree of science in physics	Michigan State University
1999	Doctor of Philosophy (Ph.D.) degree in Applied Physics	Colorado School of Mines

### WORK EXPERIENCE

<b>Period</b>	<b>Position</b>	<b>Address</b>
from 1987 to 1989.	Teaching assistance at the Technical College	Riyadh K.S.A
between 1990 and 1999	Graduate students at Michigan State University and Colorado School of Mines.	USA
1999 until 2010	Assistance Professor at the Technical College.	Riyadh
2010 until 2016	Assistance Professor at College of Science - Mohammad Ibn Saud Islamic University	Riyadh

2016 until now	Associate Professor at College of Science - Mohammad Ibn Saud Islamic University.	Riyadh
1999 until 2003	Head of the Department of General Studies from	Riyadh
2003	Cooperating teaching with the Open University	Riyadh
2010 until 2015	Vice dean of College of Science	Riyadh
2010 until 2014	Director of research center in the collage	Riyadh
2014 until now	* Head of Physics Department from	Riyadh

## RESEARCH INTERESTS

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## PUBLICATIONS

<ol style="list-style-type: none"> <li>1. Entanglement and coherence in a system of two atoms in the presence of Kerr medium and field dissipation Results in Physics</li> <li>2. Entanglement and Fisher information for a two-atom system interacting with deformed fields in correlated two-mode states Chaos, Solitons &amp; Fractals</li> <li>3. Optical properties of self-assembled InAs quantum dots-based P-I-N structures grown on GaAs and Si substrates by Molecular Beam Epitaxy Journal of luminescence</li> <li>4. <u>Notes on the Big Rip scenario in the linearly varying deceleration parameter model</u>, MA Bakry, A. Eid, A. Alkaoud, Pramana 96 (2), 1-13</li> <li>5. <u>Linearly varying deceleration parameter and two scale factors universality</u>, MA Bakry, A. Eid, A. Alkaoud, Indian Journal of Physics, 1-12</li> <li>6. <u>Probing the Action of Screened Anticancer Triazole–Tetrazole Derivatives Against COVID-19 Using Molecular Docking and DFT Investigations</u>, RK Hussein, G Khouqeer, AM Alkaoud, AM El-Khayatt, Natural Product Communications 17 (5), 1934578X221093915</li> <li>7. DFT, ADMET and Molecular Docking Investigations for the Antimicrobial Activity of 6, 6'-Diamino-1, 1', 3, 3'-tetramethyl-5, 5'-(4-chlorobenzylidene) bis [pyrimidine-2, 4, NT El-Shamy, AM Alkaoud, RK Hussein, MA Ibrahim, AG Alhamzani, Molecules 27 (3), 620</li> <li>8. <u>An Idea about Negative Cosmic Time in the Big Bang-Big Rip Cosmological Model</u>, MA Bakry, A. Eid, A. Alkaoud, Preprints</li> <li>9. <u>Nonlocality and coherence in double quantum dot systems</u></li> </ol>
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- S Abdel-Khalek, K Berrada, A. Alkaoud, *Physica E: Low-dimensional Systems and Nanostructures* 130, 114679
10. MOLECULAR DYNAMICS INVESTIGATION FOR THE IMPACT OF METAKAOLIN ON MECHANICAL PROPERTIES OF THE ORDINARY PORTLAND CEMENT, A Hussein, RK (Hussein, R. K.) Hassan, AT (Hassan, A. T.) Alkaoud, A (Alkaoud), *INTERNATIONAL JOURNAL OF PHARMACEUTICAL SCIENCES AND RESEARCH* 11 (10), 5192-5197
11.  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub>/Gd<sub>2</sub>O<sub>3</sub>-chitosan magnetic nanocomposite for hyperthermia application: structural, magnetic, heating efficiency and cytotoxicity studies, OM Lemine, A Alanazi, EL Albert, M Hjiri, MO M'hamed, SA Alrub, *Applied Physics A* 126 (6), 1-9
12. Energy transfer, correlations and decoherence in a dimer in terms of the two-level atomic distances *Quantum Information Processing*
13. Influence of gamma ray onto transparent indium tin oxide thin films, N Mustapha, A Alkaoud, A Alyamani, H Idriss, *Journal of Ovonic Research* Vol 14 (3), 225-233
14. Determination of gamma-ray parameters for polyethylene glycol of different molecular weights, IF Al-Hamarneh, MW Marashdeh, FI Almasoud, A Alkaoud, *Nuclear Science and Techniques* 28 (11), 1-8.
15. Enhanced efficiency of organic Solar cells based on (MEH-PPV) with graphene and quantum dots, N. Mustapha, Z. Fekkai, A. Alkaoud, [Optik - International Journal for Light and Electron Optics Volume 127, Issue 5](#), March 2016, Pages 2755–2760.
16. Effects of the temperatures on photoluminescence intensity in self-assembled InAs quantum dots coated with gold nanoparticles, A. Alkaoud, *J Mater Sci: Mater Electron* 12-11-2015.
17. Effects of Thermal Annealing on the Spectral Properties of GaAsBi Alloys Grown by Molecular Beam Epitaxy (MBE), A. Alkaoud, *Journal of Materials Science and Engineering A* 5 (7-8) (2015) 249-256.
18. Thermal annealing effects on the optical and structural properties of (100) GaAs<sub>1-x</sub>Bi<sub>x</sub> layers grown by Molecular Beam Epitaxy, O.M. Lemine, A. Alkaoud, H.V. Avanço Galeti, V. Orsi Gordo, Y. Galvão Gobato, Houcine Bouzid, A. Hajry, and M. Henini. *Superlattices and Microstructures* 65 (2014) 48–55.
19. Photoluminescence intensity enhancement in self-assembled InAs quantum dots grown on (3 1 1) B and (1 0 0) GaAs substrates and coated with gold nanoparticles A. Khatab, O.M. Lemine, A. Alkaoud, A. Falamas, M. Aziz, Y. Galvão Gobato, and M. Henini. *Physica E* 54 (2013) 233–236.

20. Raman scattering studies of strain effects in (100) and (311) B GaAs<sub>1-x</sub>Bi<sub>x</sub> epitaxial layers, J. A. Steele, R. A. Lewis, M. Henini, O. M. Lemine, and A. Alkaoud, J. Appl. Phys. 114, 193516 (2013).
21. Spectroscopic measurement of Stark broadening parameter of the 636.2 nm Zn I-line, Ashraf M. El Sherbini, Abdel-Nasser Aboufotouh, Farid Rashid, Sami H. Allam, Ahmed M. Al-Kaoud, Ashraf El Dakrouri , Tharwat M. El Sherbini, Natural Science Vol.5, No.4, 501-507 (2013)
22. Effects of Post Growth Thermal Annealing on the Structural Properties of (100) GaAs<sub>1-x</sub>Bi<sub>x</sub> Layers, O. M. Lemine, A. Alkaoud, H. Bouzid, A. Hajry, and M. Henini, World Academy of Science, Engineering and Technology 80, 2013.
23. Optical and Magneto-Optical Properties of GaAsBi Layers Grown by Molecular Beam Epitaxy, H.V.A. Galeti, Y. Galvão Gobato, V. Orsi Gordo, M.P.F. de Godoy, R. Kudraviec, O.M. Lemine, A. Alkaoud, M. Henini, Novel Gain Materials and Devices Based on III-V-N/Bi Compounds, 24-26 SEPTEMBER 2013, ISTANBUL, TURKEY.
24. إمكانية توحيد الجهد (127-220 فولت) في منطقة الرياض وجميع مناطق المملكة دراسة علمية وميدانية، د. محمد الراجحي و د. أحمد القعود، المؤتمر والمعرض التقني السعودي الثاني، الرياض 20-24 شعبان 1423 هجري
25. دراسة توحيد المقابس الكهربائية بالمملكة العربية السعودية دراسة علمية وميدانية، د. أحمد القعود و د. محمد الراجحي، المؤتمر والمعرض التقني السعودي الثاني، الرياض 20-24 شعبان 1423 هجري
26. A. Alkaoud et al. Mobility in SnO<sub>2</sub>:F thin polycrystalline films: Grain boundary effect and scattering in the grain bulk, Transport and Microstructural Phenomena in Oxide Electronics; San Francisco, CA; 16 April 2001 through 20 April 2001.
27. A. Alkaoud et al. Atmospheric Pressure Chemical Vapor Deposition of SnO<sub>2</sub>: Processing and Properties, NCPV Photovoltaic Program Review Proceedings of the 15th Conference, Denver, Colorado 1998.