

نوال أحمد مدخلي

أستاذ مشارك

جامعة الإمام محمد بن سعود – كلية العلوم – قسم الفيزياء مبنى 423- الدور الثالث-مكتب S03

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التعليم

دكتوراه فيزياء المواد المكثفة

جامعة الملك سعود (2018)

ماجستير فيزياء

جامعة الإمام عبدالرحمن بن فيصل (2008)

بكالوريوس فيزياء

جامعة الإمام عبدالرحمن بن فيصل (2003)

الخبرات الوظيفية

- مسؤولة الشؤون الأكاديمية في الدراسات العليا (2023 - حتى الآن)
- عضو لجنة الدراسات العليا (2018- حتى الآن)
- المشاركة في لجان استشارية بهيئة البحث والابتكار (2023- حتى الآن)
- المشاركة في لجان هيئة تقويم التعليم والتدريب (2019- حتى الآن)
- المشاركة في لجان الجودة المركزية بالمعامل البحثية في جامعة الأمير سلطان (2023 – حتى الآن)
- أستاذ مشارك بقسم الفيزياء (2023 – حتى الآن)
- عضو في اللجنة الاستشارية المهنية لبرنامج البكالوريوس في قسم الفيزياء جامعة القصيم (2021- حتى الآن)
- وكيلة قسم الفيزياء بجامعة الإمام محمد بن سعود (2019- 2021)
- المشاركة في اختبارات الرخصة المهنية في هيئة تقويم التعليم والتدريب (2019-حتى الآن)
- تأسيس (نادى المجلة لطلاب الماجستير) 2019
- أستاذ مساعد بجامعة الإمام محمد بن سعود (2018 - حتى الآن).
- محاضر بقسم الفيزياء بجامعة الإمام محمد بن سعود (2008-2018)
- الإرشاد الأكاديمي لقسم الفيزياء بجامعة الإمام محمد بن سعود (2016-2019)
- الإرشاد الأكاديمي لكلية العلوم بجامعة الإمام محمد بن سعود (2010-2013)
- عضو وحدة الجودة بكلية العلوم بجامعة الإمام محمد بن سعود (2009) .
- وكيل كلية العلوم بجامعة الإمام محمد بن سعود الإسلامية (صيفي 2010)
- معيد بقسم الفيزياء بجامعة الإمام عبدالرحمن بن فيصل (2005-2006)
- مدرس في برامج موهبة الصيفية بوزارة التربية والتعليم بالظهران (صيف 2008)
- مساعد باحث ، الجمعية السعودية للفيزياء(2007)

الخبرات البحثية

Optical , electrical, and magnetic properties of materials, DFT theory, organic -non organic hybrid nano-materials, electrodeposition techniques such as (Cyclic voltammetry , chronopotentiometry ,...), Solar cell properties.

براءات الاختراع الأمريكية

1. *Dye-Sensitized Solar Panel*, Manal Ahmed Gasmelseed Awad, Awatif Ahmed Hendi, Khalid Mustafa Osman Ortashi, [Nawal Ahmad Abdu Madkhali](#).
Publication number: US2017/0294272, Oct. 12, 2017
2. *Synthesis of reduced graphene oxide nanoparticles*, [Nawal Ahmad Madkhali](#), Manal Ahmed Gasmelseed Awad, Awatif Ahmed Hendi, Khalid Mustafa Osman Ortashi, Amel Laref, Hajar Abdullah Aldakhil, Fatimah Yahya Mohammad Al-Abbas, Lena Jassim,
Publication number: US 2017/9815701, Nov., 14, 2017

الأوراق العلمية المنشورة في قوالب النشر المحكمة ISI

1. Madkhali, Nawal. "Magnetic Properties of Melanin Doped with Copper Oxide Nanoparticles." *Engineering Proceedings* 74.1 (2024): 76.
2. Akhdar, Hanan, K. A. Mahmoud, **Nawal Madkhali**, Mohammad Marashdeh, Abu El-Soad AM, and Mohamed Tharwat. "Engineering multifunctional polypropylene nanocomposites: Tailoring structural, thermal, and gamma-ray shielding properties with Ni_{0.9}Zn_{0.1}Fe₂O₄ doping." *Progress in Nuclear Energy* 177 (2024): 105478.
3. Lemine, O. M., Noura Al-Dosari, Saja Algessair, **Nawal Madkhali**, Moustapha Elansary, Chouaib Ahmani Ferdi, Marzook S. Alshammari et al. "Tuning the physical properties of ternary alloys (NiCuCo) for in vitro magnetic hyperthermia: experimental and theoretical investigation." *Scientific Reports* 14, no. 1 (2024): 25059.
4. Formation of Natural Melanin/TiO₂ Nanostructure Hybrids with Enhanced Optical, Thermal and Magnetic Properties as a Soft Material, S Algessair, **N Madkhali** - J. Wuhan Univ. Technol.-Mat. Sci. Edit. 39, 613–620 ,2024
5. Exploring the optical properties of metal-modified melanin following ultraviolet irradiation: An experimental and theoretical study using density functional theory, **N Madkhali**, and S Algessair. *Heliyon* 10.7 ,2024
6. Fabrication of thin film solar cell based on CoO-CoS/P2-Amino-1-mercaptobenzene/polypyrrole with additional promising sensitivities to photons in a broad optical region,**N Madkhali**, M.Rabia, . *Physica Scripta*, 99(5), 055928,2024
7. Heating ability of amine functionalized Fe₃O₄ as a function of field amplitude and frequency for hyperthermia application, **Madkhali, N.**, Alshehri, F., Abduljawad, M. M., Algessair, S., & Lemine, O. M. *Physica Scripta*, 99(4), 045957,2024
8. Biosynthesis, characterization, magnetic hyperthermia, and in vitro toxicity evaluation of quercetin-loaded magnetoliposome lipid bilayer hybrid system on MCF-7 breast cancer S Elbeltagi, AM Saeedi, ZE Eldin, HE Alfassam, HM Alharbi, **N Madkhali**, *Biochimica et Biophysica Acta (BBA)-General Subjects* 1868 (3), 130543
9. Preparation and characterization of various PVPylated divalent metal-doped ferrite nanoparticles for magnetic hyperthermia, Kheireddine El-Boubbou, OM Lemine, Saja Algessair, **Nawal Madkhali**, Basma Al-Najar, Enas AlMatri, Rizwan Ali, Mohamed Henini, K El-Boubbou, OM Lemine, S Algessair, N Madkhali... - *RSC advances*, **14**, 15664-15679, 2024
10. Envisioning the future: optically transparent metasurface-based solar thermophotovoltaic with high conversion efficiency, Amina Shafique, Muhammad Ashar Naveed, Osamah Aldaghri, Humberto Cabrera, Khalid H Ibnaouf, **Nawal Madkhali**, Muhammad Qasim Mehmood, *Phys. Scr.* 99 015518,2024
11. Machine-learning-driven accelerated design-method for meta-devices, Sumbel Ijaz, Sadia Noureen, Bacha Rehman, Osamah Aldaghri, Humberto Cabrera, Khalid H Ibnaouf, **Nawal Madkhali**, Muhammad Qasim Mehmood,106951,37, December 2023
12. The optical and electronic properties of DHI monomer of eumelanin doped with transition metals (TMs) based on LSDA approximation in DFT theory, **N Madkhali** ,AIP Conference Proceedings, 2023
13. Effect of Magnesium Ion Substitution on Physical Properties and Magnetic Induction Heating of Maghemite (γ -Fe₂O₃) Nanoparticles, OM Lemine, Abdulrahman Faqih, Saja Algessair, **N Madkhali**, M Hjiri, Sharif Abu Alrub, Ali Z Alanazi, Abdulaziz Alromae, LEL Mir, *Journal of Superconductivity and Novel Magnetism*, 12 July 2023
14. Zn Doping Improves the Anticancer Efficacy of SnO₂ Nanoparticles,Sitah Alanazi, ZabnAllah M Alaizeri, Rashid Lateef, **Nawal Madkhali**, Abdullah Alharbi, Maqsood Ahamed, *Appl. Sci.*13, 12456,2023
15. Meta Vision: enabling independent wavefront control for diverse/oblique illumination angles,Azhar Javed Satti, Isma Javed, Muhammad Ashar Naveed, Osamah Aldaghri, Humberto Cabrera, Khalid Hassan Ibnouf, **Nawal Madkhali** , 16 November 2023 ,IOP Publishing Ltd
16. Tuning the heat dissipated by polyacrylic acid (PAA)-coated magnetite nanoparticles under alternating magnetic field for hyperthermia applications,Saja Algessair, OM Lemine, **Nawal Madkhali**, Kheireddine El-Boubbou, *Applied Physics A*, 2023
17. Machine-learning-driven accelerated design-method for meta-devices, Sumbel Ijaz,Sadia, H. Ibnaouf , Sumbel Ijaz,Sadia Noureen , Bacha Rehman , Osamah Aldaghri , Humberto Cabrera , Khalid, **Nawal Madkhali** , Muhammad Qasim Mehmood,Materials Today Communications, December 2023
18. CdS based heterojunction for water splitting: A review ,Cheera Prasad, **Nawal Madkhali**, Jong Sung Won, Ji Eun Lee, *Materials Science and Engineering: B*, volume 292, June 2023, 116413
19. Recent progress on the development of g-C₃N₄ based composite material and their photocatalytic application of CO₂ reductions, Cheera Prasad, **Nawal Madkhali**, V Govinda, Hyeong Yeol Choi, Indra Bahadur, Sambasivam Sangaraju, *Journal of Environmental Chemical Engineering*,2023
20. Recent developments in GO/Cellulose based composites: properties, synthesis, and its applications, Cheera Prasad, **Nawal Madkhali**, Byoung-Min Lee, Chan Sol Kang, Hyeong Yeol Choi, *Polymer*, Volume 11, Issue 3, June 2023, 109727
21. Recent advances in the hybridization of cellulose and semiconductors: Design, fabrication, and emerging multidimensional applications: A review, Cheera Prasad, **Nawal Madkhali**, Seong-Geun Jeong, Kuruma Malkappa, Hyeong Yeol Choi, V Govinda, *International Journal of Biological Macromolecules*, Volume 270, 27 March 2023, 125786
22. Recent update on photocatalytic degradation of pollutants in waste water using TiO₂-based heterostructured materials, **Nawal Madkhali**, Ch Prasad, K Malkappa, Hyeong Yeol Choi, V Govinda, I Bahadur, RA Abumousa, *Results in Engineering*, Volume 17, March 2023, 100920

23. Assessing the Heat Generation and Self-Heating Mechanism of Superparamagnetic Fe₃O₄ Nanoparticles for Magnetic Hyperthermia Application: The Effects of Concentration, O. M. Lemine *, Saja Algessair,, **Nawal Madkhali**, Basma Al-Najar and Kheireddine, *Nanomaterials* 2023, 13, 453.
24. Frequency, and Magnetic Field Preparation and characterization of natural melanin and its nanocomposite formed by copper doping ,Ghada Khouqeer, Mawadda Alghrably, **Nawal Madkhali**, Manel Dhahri, Mariusz Jaremko, Abdul-Hamid Emwas, October 2022,Nano select, Wiley online
25. Heating Ability of -Fe₂O₃@ZnO/Al Nanocomposite for Magnetic Hyperthermia Applications, *Science of Advanced Materials*, Volume 14, Number 8, August 2022, pp. 1394-1400(7)
26. Performance Improvement of Graded Bandgap Solar Cell via Optimization of Energy Levels Alignment in Si Quantum Dot, TiO₂ Nanoparticles, and Porous Si, Mohammad S. Almomani , Naser M. Ahmed , Marzaini Rashid, Khalid Hassan Ibnaouf , Osamah A. Aldaghri, **Nawal Madkhali** ,* and Humberto Cabrera ,*Photonics*, 9 Nov 2022
27. Preparation and characterization of natural melanin and its nanocomposite formed by copper doping, Ghada Khouqeer,Mawadda Alghrably,**Nawal Madkhali**,Manel Dhahri,Mariusz Jaremko,Abdul-Hamid Emwas,Wiely online library,27Oct,2022
28. Analysis Of Structural, Optical And Magnetic Properties Of (Fe,Co) Co-Doped Zn Nanoparti-Cles Synthesized Under Uv Light, , **Nawal Madkhali**, *Condens. Matter* **2022**, 7
29. Thermal Diffusivity and Conductivity of Polyolefins by Thermal Lens Technique,B Abbasgholi-Na, SR Nokhbeh, OA Aldaghri, KH Ibnaouf, **N Madkhali**, Humberto Cabrera ...,*Polymers* 14 (13), 2707
30. Optical characteristics of Al-doped ZnS thin film using pulsed laser deposition technique: the effect of aluminum concentration, A. A. Ahmed O. Aldaghri , E. Y. Salihc . Ramizyd **N Madkhali** , T. Alinad , K. H. Ibnaouf , M. H. Eisaa, *Chalcogenide Letters* Vol. 19, No. 6, June 2022, p. 381 - 388
31. Rapid Synthesis of Hexagonal-Shaped Zn (Al) O-MMO Nanorods for Dye-Sensitized Solar Cell Using Zn/Al-LDH as Precursor,EY Salih, A Ramizy, O Aldaghri, MFM Sabri, **N Madkhali**, T Alinad,...*Nanomaterials* 12 (9), 1477
32. On the Absorption and Photoluminescence Properties of Pure ZnSe and Co-Doped ZnSe:Eu³⁺/Yb³⁺ Crystals B Abbasgholi-NA, OA Aldaghri, KH Ibnouf, **N Madkhali**, H Cabrera,*Applied Sciences* 12 (9), 4248
33. Morphological characteristics of β-irradiated lead oxide nano-sized particles, O. Aldaghri a , E. Y. Salih b , A. Ramizy , M. F. M. Sabri, **N. Madkhali** , T. Alinad , K. H. Ibnaouf , M. H. Eisa, *Digest Journal of Nanomaterials and Biostructures*, Vol. 17, No. 1, January - March 2022, p. 29 – 37
34. Synthesis, characterization and heating efficiency of Gd-doped maghemite (γ-Fe₂O₃) nanoparticles for hyperthermia application, Ibtessam Alotaibi ,Marzook S.Alshammari, SajaAlgessair,**N.Madkhali**,N. Abdel Allae,M.Hjiri, Sharif AbuAlrubaL,El Mird,O.M.Lemine, *Physica B: Condensed Matter*, Volume 625, 15 January (2022), 413510
35. In-Depth Optical Analysis of Zn(Al)O Mixed Metal Oxide Film-Based Zn/Al-Layered Double Hydroxide for TCO Application, Ethar Yahya Salih, Asmiet Ramizy, Osamah Aldaghri, Mohd Faizul Mohd Sabri, **Nawal Madkhali**, Tarfah Alinad, Khalid Hassan Ibnaouf, Mohamed Hassan Eisa,*Crystals* 2022, 12(1), 79
36. Influence of eumelanin and gamma irradiation on ZnO nanocomposite properties,**B.A.El-Badry** ,**Nawal Madkhali**,**A.M.Deghady**, *Radiation Physics and Chemistry*,Volume 191, February (2022), 109845
37. Active Bionanocomposite Coating Quality Assessments of Some Cucumber Properties with Some Diverse Applications during Storage Condition by Chitosan, Nano Titanium Oxide Crystals, and Sodium Tripolyphosphate Mahmoud Helal 1 , Rokayya Sami, Eman Algarni, Garsa Alshehry , Huda Aljumayi , Amina A. M. Al-Mushhin , Nada Benajiba , Murthy Chavali, Nishant Kumar , Abdullah Iqbal , Salman Aloufi , Amal Alyamani , **Nawal Madkhali** and Aber Almasoudi ,*Crystals* 2022, 12, 13
38. Continuously Tunable Full-Color Emission Nitrogen-Doped Carbon Dots and for Ultrasensitive and Highly Selective Detection of Ascorbic Acid Demin Huang 1 , Haiyan Qi, Jing Jing , Rokayya Sami , Tao Jing, Sultan J. Alsufyani , Nada Benajiba and **Nawal Madkhali**, *Nanomaterials* (2022), 12, 693
39. Photovoltaic Performance of Spherical TiO₂ Nanoparticles Derived from Titanium Hydroxide Ti(OH)₄: Role of Annealing Varying Temperature, Mohammad S. Almomani , Naser M. Ahmed, Marzaini Rashid , Nursakinah Suardi , Munirah A. Almessiere , Nawal Madkhali , Osamah A. Aldaghri , and Khalid Hassan Ibnaouf. *Energies* (2022),15
40. In-Depth Optical Analysis of Zn(Al)O Mixed Metal Oxide Film-Based Zn/Al-Layered Double Hydroxide for TCO Application Ethar Yahya Salih, Asmiet Ramizy , Osamah Aldaghri , Mohd Faizul Mohd Sabri , **Nawal Madkhali** , Tarfah Alinad , Khalid Hassan Ibnaouf and Mohamed Hassan Eisa, *Crystals* 2022, 12, 79
41. Maghemite (γ-Fe₂O₃) and γ-Fe₂O₃-TiO₂ Nanoparticles for Magnetic Hyperthermia Applications: Synthesis, Characterization and Heating Efficiency O. M. Lemine 1, **Nawal Madkhali** , Marzook Alshammari , Saja Algessair, Abbasher Gismelseed Lassad El Mir , Moktar Hjiri, Ali A. Yousif and Kheireddine El-Boubbou , *Materials*(2021), 14
42. Magnetic and optical investigation of Eumelanin-ZnO as organic-non-organic nanocomposite, **Nawal Madkhali** *, Naglaa Abdel All a,b, Saja Algessair a, Souad Hamod Aodah, *Optik - International Journal for Light and Electron Optics* 225 (2021) 165772.
43. Comparative heating efficiency of hematite (α-Fe₂O₃) and nickel ferrite nanoparticles for magnetic hyperthermia application, O.M. Leminea, **N. Madkhali**, M. Hjirib, N. Abdel All, M.S. Aida, *Ceramics International*, Volume 46, Issue 18, Part A, 15 December 2020, PP28821-28827
44. Photocatalytic Activity, Microstructures and Luminescent Study of Ti-ZS:M Nano-composites Materials, N. Alonizan,L. Chouiref, K. Omri, M. A. Gondal, **Nawal Madkhali**, Taher Ghrib & Abdullah I. Alhassan *Journal of Inorganic and Organometallic Polymers and Materials* (2020)

45. Characterization and electrochemical deposition of natural melanin thin films, **Nawal Madkhali**, Hadi R. Alqahtani, Seham Alterary, Hamad A. Albrithen, Amel Laref, Adel Hassib, Arabian Journal of Chemistry (2020) 13, 4987–4993
 46. Control of optical absorption and fluorescence spectroscopies of natural melanin at different solution concentrations, **Nawal Madkhali**, Hadi. R Alqahtani, Seham Al-Terary, Amel Laref, Optical and Quantum Electronics, July 2019, 51:227
 47. Electronic structures and optical spectroscopies of 3d-transition metals doped melanin for spintronic devices application, A. Laref, **N. Madkhali**, H.R. Alqahtani, Xiaozhi Wu, S. Laref, Journal of Magnetism and Magnetic Materials, Volume 491, 1 December 2019, 165513
 48. Systematic Investigation of the Electrochemical Properties of Natural Melanin for Various Electrode Cells, **Madkhali, Nawal**; Hassib, Adel; Alqahtani, Hadi R.; Al-Britain, Hamad; Alterary, Seham; Laref, Amel, Journal of Biobased Materials and Bioenergy, Volume 13, Number 4, August 2019, pp. 429-437(9)
 49. The doping effect of Fe, Cu and Zn ions on the structural and electrochemical properties and the thermostability of natural melanin extracted from Nigella sativa L, **N. Madkhali**, H.R. Alqahtani, Seham Al-Terary, A. Laref, A. Haseeb, Journal of Molecular Liquids 285 (2019) 436–443
 50. Graphene Oxide Nanoscrolls: Synthesis, Characterization, Optical, and Electrical Properties, Awad, Manal A.; Aljaseem, Leena; **Modkhali, Nawal A.**; Aldakheel, Hajar; Alenazi, Wadha.; Laref, Amel; Ortashi, Khalid M. O.; Hendi, Awatif A., Journal of Nanoelectronics and Optoelectronics, Volume 14, Number 1, January 2019, pp. 1-7(7)
- For More Details: Orcid ID** : <https://orcid.org/0000-0002-7864-2578>, Google Scholar: Nawal Madkhali - Google Scholar

المؤتمرات العلمية

1. Presentation in the International Work shop for Advanced Material (IWAM) February 2016, Enhancement of the dye-sensitized solar cells performance using ZnONPs, TiO₂NPs and a composite of ZnO- TiO₂NPs”, Awad, Manal A.; Aljaseem, Leena; **N.Madkhali**, Laref, Amel; Ortashi, Khalid M. O.; Hendi, Awatif A. international workshop on Advanced Materials(IWAM-2016), Ras Al Khimah/UAE.
2. Doped and Un-doped Maghemite Nanoparticles for Magnetic Hyperthermia Application, O. M. Lemine, Ibteham Alotaibi, Anfal Aldawood, Saja Algessair **N. Madkhali** and L. El Mir, International Symposium on Advanced Materials and Nanotechnology (iSAMN2021) Nanoscale Green Synthesis and Applications December 9-10, 2021
3. Optical and Electronic Properties of DHI Monomer of Eumelanin Doped with Transition Metals(TMs) Based on LSDA approximation in DFT Theory, **Nawal Madkhali**, The International Conference on Mathematical Modeling in Physical Sciences, University of Peloponnese, September 5-8, 2022
4. Enhancing Electrical Conductivity in Low-Density Polyethylene and Polypropylene composites using Graphene, **Nawal Madkhali**, Derivatives 6th IEEE International Conference on Knowledge, Innovation and Invention 2023 (IEEE ICKII 2023), Sapporo, Hokkaido Japan, August 11-13
5. Magnetic Properties of Melanin Doped with Copper Oxide Nanoparticles 2024 IEEE 4th International Conference on Electronic Communications, Internet of Things and Big Data (IEEE ICEIB 2024), April 25-27, 2025, Tamkang University, New Taipei

الدورات التدريبية المتخصصة

- Training course in Biosensors course: from experiments to data analysis, 20 to 22 June (2022), KAIN, KSU, Riyadh
- Course of (Preparation and characterization of electro and photo electrocatalysts) for 50 hours organized by Electrochemistry Research Group at King Saud University, (Aug 2018)
- Course about EC-Lab instruments for electrochemistry application in BIO-LOGIC Company, two weeks, (France 2014)
- Course about EC-Lab instruments for batteries application from BIO-LOGIC Company. (France 2014)
- Other courses in programming code and computer skills.

الخبرة في البرامج الحاسوبية

Programming experience in multiple languages (Mathematica, Feynman art code, Visualization code: vesta, wien2k code and numerical code: origin).

التدريب وورش العمل المقدمة

- مدرب في "استخدام برنامج مندبلي لتنظيم المراجع" بجامعة الإمام محمد بن سعود الإسلامية.(2021)
- ورشة عمل حول "قراءة بيانات النشر العالمية وتحليل مؤشراتها(2021) "
- ورشة عمل حول "المواد النانوية للاستشعار ومعالجة المياه" جامعة تبوك.(2021)
- مدرب في كيفية البحث في المكتبة الرقمية السعودية(SDL (2020
- حضور ورشة عمل الاتجاه الجديد في الإلكترونيات والإلكترونيات الضوئية بمقياس النانو بمدينة الملك عبد العزيز للعلوم والتقنية(2019)
- دورة تدريبية حول أخلاقيات الباحث والمعايير من قبل الجمعية الأمريكية لتقدم العلوم (AAAS) بالتعاون مع مكتب تطوير الأبحاث (RDO) في وزارة التربية والتعليم(2018)
- اليوم العالمي للجودة في عمادة التقويم والجودة بجامعة الإمام محمد بن سعود الإسلامية(2018)
- مدرب في مركز الإرشاد الأكاديمي لطلبة جامعة الإمام محمد بن سعود الإسلامية.(2015-2018)
- ورشة عمل حول استخدام الإنفوجرافيك لبرنامج كافانا في التعليم بجامعة الإمام محمد بن سعود الإسلامية.(2018)
- دورة تدريبية في ميثاق أخلاقيات البحث العلمي وكيفية تقديم مقترحات بحثية في جامعة الملك سعود.(2017)
- حضور الملتقى الدولي للمبدعين في التدريس الجامعي (IFIUT) بجامعة الإمام محمد بن سعود الإسلامية لمدة ثلاثة أيام.(2013)
- دورة تدريبية لضمان الجودة من إعداد المجلس الثقافي البريطاني في مقر الأمير محمد بن فهد بالخبر لمدة يومين.(2010)
- ورشة عمل إعداد توصيف المقرر وتقريره بجامعة الإمام عبدالرحمن بن فيصل لمدة يومين.(2009)
- دورات اللغة الإنجليزية في المجلس الثقافي البريطاني(2009)
- عضو الجمعية الفيزيائية السعودية.(SPS)
- عضو في الجمعية الكندية لأمراض الدم

الخبرات التدريسية

- Quantum Mechanics (PHY 312)
- Electromagnetic Field Theory (PHY 321)
- Statistical Physics (PHY 332)
- Electricity and magnetism (PHY 220)
- Modern physics (PHY 250)
- Waves & Optics (PHY 240)
- General Math (MAT011,MAT012)
- General Physics (PHY101,PHY103,PHY 1101)
- General Physics lab (PHY 119,PHY181,PHY103)
- Electronics lab (PHY 104,PHY 382)
- Introduction of modern physics(PHY 255)
- Electricity and magnetism (PHY 1121)