

بسم الله الرحمن الرحيم

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العمل الحالي: قسم الفيزياء والفلك – جامعة الملك سعود – الرياض

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التخصص العام: فيزياء

التخصص الدقيق: مواد فائقة التوصيل

النشاط البحثي الحالي:

العمل في مجال الموصلات فائقة التوصيل، وتقنيات النانو، وأيضاً خواص البوليمرات

وكذلك اهتمام بأثر المجالات المغناطيسية على الكائنات الحية. البطاريات، والمكثفات الفائقة

التاريخ العلمي:

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| Ph.D. | 1990-94 | University of Kansas | Physics | Superconductots | USA |
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| أمريكا | الموصلات الفائقة | فيزياء | جامعة كانساس | 1415-1411 | دكتوراه |
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علما بأني حصلت على الدكتوراه بتقدير امتياز مع مرتبة الشرف

تأليف كتب:

1- الإنترنت من خلال البريد الإلكتروني، ناصر بن صالح الزايد، دار الخريجي للنشر والتوزيع، 1417 هـ

عضوية اللجان والجمعيات العلمية:

- 1- رئيس اللجنة الثقافية في قسم الفيزياء منذ 1418 هـ وحتى نهاية 1425 هـ
- 2- رئيس لجنة مراجعة مقرر 206 عال 1421 هـ (مقرر حاسب آلي على طلاب الكلية)
- 3- رئيس لجنة التوائم بين تخصص الفيزياء وسوق العمل، 1418 هـ حتى 1422 هـ
- 4- عضو في لجنة المناهج 1420 حتى 1426 هـ
- 5- عضو في لجنة رعاية المعيدين 1418 هـ حتى 1427 هـ
- 6- أمين لجنة الحاسب الآلي في كلية العلوم 1421 هـ حتى 1429 هـ
- 7- مشرف معامل الحاسب الآلي في كلية العلوم منذ جمادى الأولى 1426 هـ حتى الآن
- 8- عضو اللجنة الإعلامية في المؤتمر الثاني للعلوم لكلية العلوم 1428 هـ
- 9- عضو لجنة الإنترنت في الجامعة 1426 حتى 1429 هـ
- 10- مشرف موقع كلية العلوم 1429 هـ حتى 1433 هـ
- 11- عضو اللجنة الإشرافية على بوابة الجامعة 1429 هـ حتى 1433 هـ
- 12- مقرر لجنة الكليات العلمية لدى بوابة الجامعة الإلكترونية 1429 هـ حتى 1433 هـ
- 13- رئيس لجنة الدكتوراه في قسم الفيزياء 1432 حتى 1437 هـ
- 14- عضو لجنة الدكتوراه في قسم الفيزياء 1437 حتى الآن
- 15- رئيس لجنة التوظيف في قسم الفيزياء 1435 حتى الآن وكنت عضوا فيها قبل ذلك
- 16- رئيس مشروع التعليم المبني على الطالب المدعوم من وزارة التعليم العالي حتى إغلاق المشروعاً

عنوان رسالة الدكتوراه:

Ph.D Theses: *Magnetic Properties of $Tl_2Ba_2Ca_2Cu_3O_{10-D}$ Cylindrical Shields and the effect of thermal cycling and silver addition on their quality.* 1994

Publications:

1. *Thermal cycling effect on thallium 2223 high- T_C superconducting cylindrical shield*, Naser S. Alzayed, Y. Xin, W. S. He, C. X. Fan, K. W. Wong, *Physica C* 235-240 (1994). p 3463-3464
2. *Magnetic shields made of high T_C superconducting ceramic $Tl_2Ba_2Ca_2Cu_3O_{10}$* , S. He, Y. Xin, Naser S. Alzayed, B. R. Xu, C. X. Fan, K. W. Wong, *Physica C* 235-240 (1994). p 3459-3460
3. *Nondestructive testing of cracks in solid aluminum with a high temperature rf-SQUID*, D. F. Lu, Chang-xin Fan, Naser S. Alzayed, K. W. Wong, S. G. Han, J. Z. Ruan, Y. Xin, Bingruo Xu, Marvin Chester, David E. Knapp, *Physica C* 235-240 (1994). p 3361-3362.
4. *High temperature RF SQUID gradiometer applied to non-destructive testing*, X. Fan, D. F. Lu, K. W. Wong, Y. Xin, B. Xu, N. S. Alzayed, M. Chester, D. E. Knapp, *Cryogenics* 34 N 8 (1994). p 667-670.
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6. *Thallium 2223 high T_C superconductor in a silver matrix and its magnetic shielding, thermal cycle and time aging properties*, Fei, X.; He, W.S.; Havenhill, A.; Ying, Z.Q.; Xin, Y.; Alzayed, N.; Wong, K.K.; Guo, Y.; Reichle, D.; Lucas, M.S.P. *Proceedings of the Fourth International Conference and Exhibition: World Congress on Superconductivity (NASA Conf. Publ. 3290) 52-743 Vol 2*, World Congress on Superconductivity Houston, TX, USA, 778 (1995).
7. *$Tl_2Ba_2Ca_2Cu_3O_{10}$ and Au-Added $Tl_2Ba_2Ca_2Cu_3O_{10}$ Thin Films*, K. W. Wong, Y. Xin, B. R. Xu, D. F. Lu, X. Fei, W. S. He, G. F. Sun, N. Alzayed, C. X. Fan, I. N. Chan, K. Y. Chen, G. J. Salamo, Y. J. Shi, F. T. Chan, W. Y. Ching, *Laser in Eng.* V 2 (1994). P 319-324.
8. *Magnetic Attenuation by HTC Superconducting Cylinders*, Naser S. Alzayed, K. W. Wong, C. X. Fan, Y. Xin, D. F. Lu, D. E. Knapp, *Chinese Journal of Physics*, 34 Iss: 2, pt.2 p. 698-701 (1996).
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65. Structural and optical properties of novel optoelectronic Tl₁₂xIn₁₂xSixSe₂ single crystals, G. L. Myronchuk, O. V. Zamurueva, O. V. Parasyuk, L. V. Piskach, A. O. Fedorchuk, N. S. AlZayed, A. M. El-Naggar, J. Ebothe, M. Lis, I. V. Kityk, *J Mater Sci: Mater Electron* (2014) 25:3226–3232
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- 1- APS Annual Meeting, Indianapolis, USA 1992.
- 2- Midwest Solid State Conference, Twin City, Iowa, USA, 1993.
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مؤتمرات وندوات عربية:

1. ندوة الفيزياء بين النظرية والتطبيق في المملكة العربية السعودية، الثلاثاء 20 شوال 1426 هـ الموافق 22 نوفمبر 2005م، مع المشاركة بورقة علمية.
2. المؤتمر الدولي لعلوم وتكنولوجيا المواد ، من 2 إلى 4 من شهر أبريل 2001 الموافق : 7 إلى 9 من شهر محرم 1422 هـ، القاهرة مع المشاركة بورقة علمية.
3. الندوة السعودية الأولى للنشر العلمي، 1421/12/22 إلى 1421/12/25 هـ، جامعة الملك سعود، الرياض.
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إشراف على طلبية دراسات عليا:

1. 3 طلبية دكتوراه

مشاريع مدعمة: أنجزت بنجاح حوالي عشرين مشروعاً بحثياً مدعمة منها ما يلي:

1. *Gamma Radiation Effect on Physical and mechanical properties of Polyethylene PE made by SABIC, **Nasser S. Alzayed**, Mohammed Shahabuddin, A.A. Moazzen, 1998, Closed. (50,000 SR).*
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7. *Design and Fabrication of High sensitive AC Susceptometer, **Nasser S. Alzayed** , M. Shahabuddin, by Research Center, 2004 (45,000 SR) Closed*
8. *Influence of Carbon Doping on the Magnetic Properties of MgB2 Superconductors, M. Shahabuddin, **Nasser S. Alzayed** ,by Research Center 2005 (45,000 SR) closed*
9. *Nano-carbon substitution effect on electrical and magnetic properties of Magnesium Diboride superconductors, M. Shahabuddin, **Nasser S. Alzayed** , by Research Center, 2006 (50,000 SR) Closed*
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11. *Enhancement of Critical current density and Mechanical strength of MgB2 Superconductors by doping hydrocarbon /carbohydrate. Current, M. Shahabuddin, **Nasser S. Alzayed** , by Center of Excellence for Research in Engineering Materials, (650,000 SR). Closed*
12. *Synthesis and magnetic and electrical properties measurement of CNT- MgB2 nano composites, **Nasser S. Alzayed** , M. Shahabuddin , King Abdullan Institute for Nanotechnology, (850,000) Closed*
13. *Photoinduced absorption of the new chalcogenide crystals, **Nasser S. Alzayed**, I.V. Kityk, A. M. El-Naggar , supported by the Deanship of Scientific Research, KSU. (2010) Current*
14. *Modification and Electromagnetic Properties of MgB2 Superconductors by NanoMaterials Doping for High Magnetic Field Application, National Plan for Science & Technology, **Nasser S. Alzayed** , M. Shahabuddin , M. Asif, NPST (1, 920,000 SR) Now Closing*

15. *Development of superconducting wires for high current carrying application using MgB₂*, M. Shahabuddin , **Nasser S. Alzayed** , M. Asif , NPST (1,650,000 SR). Now Closing
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تعاون دولي منمّر مع مجاميع بحثية

With my research group, we have 3 active International Collaborations:

- 1- Institute for Superconducting & Electronic Materials (ISEM) , Australian Institute of Innovative Materials, University of Wollongong, Innovation Campus, Squires Way, North Wollongong, NSW 2500, Australia. through Prof. Jung Ho Kim and Dr. Md. Shahriar Al Hossain
- 2- TECHNICAL UNIVERSITY OF CZĘSTOCHOWA FACULTY OF ELECTRICAL ENGINEERING, AL. ARMII KRAJOWEJ 17 42-200 CZĘSTOCHOWA through Prof. Iwan V. Kityk
- 3- Max-Planck-Institute für Festkörperforschung, Heisenbergstr. 1, D-70569 Stuttgart, Germany, through Prof. S. Soltan