

Prof. Borhan Aldeen Albiss

Address & Contact

Magnetism and Nanomaterials Lab.
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Jordan University of Science & Technology
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Citizenship : Jordanian
Date of birth : 3rd/ July/ 1964
Marital Status: Married

Education

1992-1996	Ph. D. in Physics , Thesis: "Variations of Electrical and Structural Properties of BPSCCO Superconductor with Magnetic Field, Temperature...". Middle East Technical University , Ankara , Turkey.
1990-1992	M. Sc in Physics , Thesis: "Effect of Silver Doping and Gamma Irradiation on YBCO Superconductor". Middle East Technical University , Ankara , Turkey
1983-1987	B. Sc. in Physics , Yarmouk University, Irbid, Jordan

Work & Teaching Experience

2010-2013	Vice Dean of Student Affairs, Jordan University of Science and Technology, Irbid, Jordan
2012-2012	Acting Dean of Student Affairs, Jordan University of Science and Technology, Irbid, Jordan.(July- September-2012)
2010-2012	Head of King Abdullah II Fund for Development (KAJD) at JUST.
2009-2010	Visiting Professor at the Nanoscience Lab, Physics Department, University of Erlangen-Nürnberg-Germany.
2007-2009	Vice Dean, Faculty of Science & Arts, Jordan University of Science and Technology, Irbid, Jordan.
2003-2007	Assistant Dean, Faculty of Science & Arts, Jordan University of Science and Technology, Irbid, Jordan.
2005-2010	Associate Professor, Physics Dept., Jordan University of Science and Technology, Irbid, Jordan.
2000-2005	Assistant Professor, Physics Dept., Jordan University of Science and Technology, Irbid, Jordan
1999-2000	Lecturer, Physics Dept. Jordan University of Science and Technology, Irbid , Jordan
1990-1997	Research Assistant, Physics Dept. Middle East Technical University, Ankara , Turkey.

Research Interests

- Nanomaterials and nanostructured Sensors
- High Temperature Superconductivity
- Magnetism
- Irradiation Effects on Solids (Gamma rays, ions, electrons)
- X-Ray Diffraction
- Synchrotron Radiation
- Computational Physics
- Ethics & Science.

University & National Committees

- Member of The National Nanoscience & Nanotechnology Strategy committee
- Board Member of The JUST Nano Center
- Higher Council of Science and Technology Research Committee (Nanotechnology)
- University E-learning Committee
- University Website Committee
- Faculty and Department Promotion Committees
- NMR Lab Committee
- Head of JUST Discipline Committee
- SESAME Synchrotron Materials Science Research Committee.

Activities:

- Organizing of scientific conferences, workshops and symposia.
- Organizing of the Jordanian high school Science Competitions at JUST.
- Coordination of Young Arab Voices Debate Competitions (British Council)
- Coordination of the Active Citizen Program at JUST (British Council)
- Coordination of the Student Union and Clubs annual elections.
- Coordination of the annual Career Fair at JUST.
- Computation of the annual international students exhibition at JUST.
- Coordination of the public health program (Hayati Ahla, USAID).
- Consultant of the Science club, Political club and the Chess club at JUST.
- Moderator of several scientific, political, and social forums at JUST.
- Active participant MIT BLOSSOMS teaching initiative, MIT, USA.
- Volunteers campaign coordinator (environment protection campaigns, donations for cancer patients, donations for poor students, donations for Somalian and Syrian refugees.
- Participation of several TV and radio interviews about several scientific and social issues that face university students in Jordan such as volunteerism, violence and social media etc.

Key Skills

Visual Basic, C++, Image Processing	Mathematica, Matlab Web design (HTML, PHP, JavaScript etc.).	Windows, UNIX Network fundamentals	E-learning using Moodle and Webct ArcGIS, Graphers
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Languages

Arabic (native)	English (fluent)	Turkish (fluent)	German (fair)
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Selected Publications

- 55 Rami J. Oweis, **B. A. Albiss**, M.I. Al-Widyan, and M-Ali Al-Akhras, Hybrid, sinc oxide nanorods/carbon nanotubes composite for nitrogen dioxide gas sensing,(accepted for publication in Journal of Electronic Materials, 2014.
- 54 Majed M. Masadeh, Ghadah A. Karasneh, Mohammad A Al-Akhras, **Borhan A Albiss**, Khaled M. Aljarah, Sayer I. Al-azzam, Karem H. Alzoubi, Cerium Oxide and Iron Oxide Nanoparticles Abolish the Antibacterial Activity of Ciprofloxacin against Gram Positive and Gram Negative Biofilm Bacteria. *Cytotechnology*. 2014 Mar 19. [Epub ahead of print]
- 53 Ruba Khnouf , Rami Oweis, **Borhan Albiss**, and Shereen Haddad' Preparation of Polystyrene/ Single-Walled Carbon Nanotube Composite and its Characterization for Biochemical Applications (accepted for publication in Journal of Nanoelectronics and Optoelectronics, 2014)
- 52 B Issa, IM Obaidat, **BA Albiss**, Y Haik, Magnetic Nanoparticles: Surface Effects and Properties Related to Biomedicine Applications, International journal of molecular sciences 14 (11), (2013) 21266-21305. <http://dx.doi.org/10.3390/ijms141121266>
- 51 I. M. Obaidat, B. Issa, **B. A. Albiss**, G. Qabaja, N. E. Al Khaili, Z. A. Karam, A. M. Hefaity, S. Qadri, A. Al-Okour, and Y. Haik, Finite Size and Surface Effects in Ferrite Nanoparticles J. Nanoeng. Nanomanuf. 2, 325-331 (2012). <http://dx.doi.org/10.1166/jnan.2012.1091>
- 50 Al-Douri, Y. ; Gharaibeh, M. ; **Albiss, B.A.** ; Reshak, A.H, Investigated stiffness of high performance superconductivity with nanoceria incorporated into polycrystalline magnesium diboride, Micro & Nano Letters, Volume 7 , Issue: 8 , 2012, Pages 867-871 (2012).<http://dx.doi.org/10.1049/mnl.2012.0460>
- 49 K Aljarrah, NM Mhaidat, MAH Al-Akhras, AN Aldaher, **BA Albiss**, K Aledealat, Magnetic nanoparticles sensitize MCF-7 breast cancer cells to doxorubicin-induced apoptosis, World journal of surgical oncology 10 (1), (2012) 1-5. <http://www.wjso.com/content/10/1/62>
- 48 IM Obaidat, **BA Albiss**, SM Obeidat, U Al Khawaja , Theoretical Investigation of Lindemann's Criterion in the Melting of Two-Dimensional Vortex-Lattice with Nano Defects, Journal of Computational and Theoretical Nanoscience 8 (7), 1252-1258 (2011) . <http://dx.doi.org/10.1166/jctn.2011.1806>
- 47 Adnan Jaradat, M-Ali H. Al-Akhras, G. Makhadmeh, K. Aljarrah, A. Al-omari, Z. Ababneh, Majed M. Masadeh, H. M. Al-Khateeb, **B. A. Albiss**, and M. Alshorman, Artificial semi-rigid tissue sensitized with natural pigments: Effect of photon radiations, Journal of Pharmacy And Bioallied Sciences 3 (2),(2011). . <http://dx.doi.org/10.4103%2F0975-7406.80781>
- 46 IM Obaidat, **BA Albiss**, H Ghamlouche, SM Obeidat, TG Qarqaz, M Gharaibeh, A, The Role of Fe₃O₄ Nanoparticles on Superconductivity , Journal of Nanoengineering and Nanomanufacturing 1 (1), 84-92(2011). <http://dx.doi.org/10.1166/jnan.2011.1006>
- 45 IM Obaidat, **BA Albiss**, Roles of Nano-Sized Pinning Centers and Vortex Density on Vortex Melting, Science of Advanced Materials 3 (1) (2011), 95-101. <http://dx.doi.org/10.1166/sam.2011.1138>
- 44 M. Gharaibeh, **B. A. Albiss**, I. Jumah and I. M. Obaidat, Effective incorporation of nanoceria in to polycrystalline MgB₂, J. Appl. Phys. 107, 063908 (2010).<http://dx.doi.org/10.1063/1.3357285>
- 43 **B. A. Albiss** and I. M. Obaidat, Applications of YBCO-coated conductors: a focus on the chemical solution deposition method, *J. Mater. Chem.*, 20, (2010), 1836-1845. <http://pubs.rsc.org/en/content/articlelanding/2010/jm/b917294g#!divAbstract>
- 42 **B. A. Albiss**, W. A. Sakhaneh, I. Jumah and I.M. Obaidat , NO₂ gas sensing properties of ZnO/single-wall carbon nanotube composites, IEEE Sensors Journal, VOL. 10, NO. 12, DECEMBER 2010, Pages 1807-1812. <http://dx.doi.org/10.1109/JSEN.2010.2049739>
- 41 **B.A. Albiss**, I.M. Obaidat, M. Gharaibeh, H. Ghamlouche, S.M. Obeidat Impact of addition of magnetic nanoparticles on vortex pinning and microstructure properties of Bi–Sr–Ca–Cu–O

superconductor, Solid State Communications, Volume 150, Issues 33–34, September 2010, Pages 1542-1547. <http://dx.doi.org/10.1016/j.ssc.2010.06.001>

- 40 **B. A. Albiss**, N. Al-Rawashdeh, Alaa Abu Jabal, M. Gharaibeh , I. M. Obaidat, M. K. Hasan (Qaseer) and K. A. Azez, Polycrystalline YBa₂Cu₃O_{7-δ} with Nano-sized Al₂O₃ Inclusions, Journal of Superconductivity and Novel Magnetism, Volume 23, Issue 7, 2010, Pages 1333-1340.
<http://link.springer.com/journal/10948/23/7/page/1>
- 39 **B. A. Albiss** , I. M. Obaidat, M. Gharaibeh, W. Hatamleh, S. A. Barhoum, M. K. Hasan, Magneto-transport properties of polycrystalline YBa₂(Cu_{1-x}M_x)₃O_{7-δ} (M = B and Mn), Crystal Research and Technology 44 (9), pp. 930-936.(2009).
<http://onlinelibrary.wiley.com/doi/10.1002/crat.200900306/abstract>
- 38 M Gharaibeh, IM Obaidat, **BA Albiss**, MK Hasan, Enhancing the transport properties of polycrystalline MgB₂ superconductors, Journal of Physics: Conference Series 153 (1) (2009), 012010. [doi:10.1088/1742-6596/153/1/012010](https://doi.org/10.1088/1742-6596/153/1/012010)
- 37 IM Obaidat, **BA Albiss**, M Gharaibeh, MK Hasan, Enhancing the pinning strengths in polycrystalline MgB₂, Crystal Research and Technology 44 (3),(2009) 281-285.
<http://onlinelibrary.wiley.com/doi/10.1002/crat.200800441/abstract>
- 36 H Al-Khateeb, M Alqadi, F Alzoubi, **B Albiss**, M Hasan, N Ayoub, Levitation and lateral forces between a small magnet and superconducting sphere and the stability of the magnet Bulletin of the American Physical Society 54.(2009).<http://meeting.aps.org/Meeting/MAR09/Event/94868>
- 35 Obaidat, I.M., , Gharaibeh, M., **Albiss, B.A.** Hasan, M.K.Vortex creep perpendicular to the c-axis in crystalline and grain-oriented YBCO superconductor , *International Journal of Modern Physics B* 23 (5), pp. 673-678.(2009).
- 34 Obaidat, I.M., **Albiss, B.A.**, Claus, H., Gharaibeh, M., Hasan, M.K. ,The influence of Pb-ion irradiation on melt-textured YBa₂Cu₃O_x crystals, *Crystal Research and Technology* 44 (2), pp. 206-210.(2009).
- 33 IM Obaidat, **BA Albiss**, Correlation between the residual resistivity ratio and the power-law of the normal-state resistivity in MgB₂, Crystal Research and Technology 43 (1), 83-86
- 32 Al-Khateeb, H.M., **Albiss, B.**, Alzoubi, F.Y., Al-Qadi, M.K., Hasan, M.K., Ayoub, N.Y., Levitation force between monolayer of magnetic particles and superconducting plane in meissner state, *IEEE Transactions on Applied Superconductivity* 18 (1), art. no. 4454347, pp. 14-16.(2008).
- 31 Obaidat, I.M., Goeckner, H.P., **Albiss, B.A.**, Kouvel, J.S. , Point and extended defects in superconductors , *Crystal Research and Technology* 43 (8), pp. 837-844.(2008).
- 30 **Albiss, B.A.**, Gharaibeh, M., Obaidat, I.M., Al-Rawashdeh, N., Oweis, R., Hamdi, N., Qaseer, M.K.H.,Magnetotransport and structural properties of superconducting BPSCCO thick film on MgO substrate, *Physica Status Solidi (A) Applications and Materials* 205 (8), pp. 1851-1854.(2008).
- 29 Al-Akhras, M.-A.H., Aljarrah, K., Al-Omari, A., Al-Khateeb, H.M., **Albiss, B.A.**, Azez, K., Makhadmeh, G., Influence of extremely low energy radiation on artificial tissue: Effects on image quality and superficial dose, *Spectroscopy* 22 (5), pp. 419-428.(2008).
- 28 IM Obaidat, **BA Albiss**, F Hamed, Nonmonatonic Effect of γ-Rays on the Critical Current Density in Polycrystalline MgB₂ Superconductors, *International Journal of Materials Science* 2 (2) (2007).
- 27 **B. A. Albiss** and M. A. Al-Akhras," Sensitivity of YBCO Thick Films to Gamma Rays". Crystal Res. Technol., 41 No.12 (2006) 1203-1209
- 26 I. M. Obaidat and **B. A. Albiss**, "γ-irradiation dose effect on the critical current density in a Bi_{1.6}Pb_{0.4}Sr₂Ca₂Cu₃O₁₀ polycrystals", *Supercond. Sci. Technol.* 19 (2006) 151-154.
- 25 A.A. Rousan, N.Y. Ayoub , F.Y. Alzoubi 1, H. Khateeb , " A Fractional LC - RC Circuit ",M. Al-Qadi , M.K. Hasan(Qaseer), **B.A. Albiss** , Fractional Calculus and Applied Analysis, Vol. 9 No.1(2006) 34-

- 24 **B. A. Albiss**, "Thick Films of Superconducting YBCO as Magnetic sensors. Supercond. Sci. Technol. 18 (2005)1222-1226
- 23 I.M. Obaidat, **B.A. Albiss** and K.A. Al-Khaza'leh, "Peak Effect and Enhancement of the Critical Current Density by Y-Irradiation in a $TiBa_2Ca_2Cu_3O_x$ Superconductor", IJPAP, Vol.1 No.2(2005) 145-150.
- 22 A. El-Ali, **B. A. Albiss**, and Kh. Khasawinah," Effect of Gamma Irradiation on the Superconducting properties of $TiBa_2Ca_2Cu_3O_x$ Tapes ", *Physica Status Solidi(c)* Vol1, Issue 7(2004) 1928
- 21 **B. A. Albiss** A. El-Ali and K. A. Azez,"Power law behavior of $TiBa_2Ca_2Cu_3O_9$ Superconducting Tape ", *Physica Status Solidi(c)* Vol1, Issue 7(2004) 1899.
- 20 J. Shobaki and **B. A. Albiss**,"Variations of the Structural and Transport Properties of $YBa_2Cu_3O_7$ Superconductor with Gamma Irradiation", *Abhath Al-Yarmouk:Basic Sci.&Eng* Vol. 13(2004)1.
- 19 **B. A. Albiss** A. El-Ali, Kh. Khasawineh, M. K. Hasan (Qaseer), I.A. Al-Omari, K. A. Azez and J. Shobaki , "Effect of Gamma Irradiation on Polycrystalline $TiBa_2Ca_2 Cu_3O_y$ Superconductor ", *Physica B* 321(1-4),(2002) 324.
- 18 A. El-Ali, K. A. Azez, I.A. Al-Omari, J. Shobaki, M. K. Hasan (Qaseer), **B. A. Albiss** , Kh. Khasawineh, Kh. A. Ziq and A. F. Salem., "The paramagnetic Contribution in the Magnetization behavior of $Y_{1-x}Gd_xBa_2Cu_3O_7$ ", *Physica B* 321(1-4),(2002) 320
- 17 A. R. El-Ali, Kh. Khasawinah, J. Shobaki and **B. A. Albiss**,"Dissipative Behavior in The Mixed State of $Tl-2223$ Superconductor", *Abhath Al-Yarmouk:Basic Sci.&Eng* Vol. 11(2002) 877.
- 16 **B. A. Albiss**, A. R. El-Ali, Effect of γ - Irradiation of silver-Sheathed $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_{10}$ Tape. *IEEE Transactions on Applied Superconductivity*. Vol.12, Issue1, (2002) 1121.
- 15 MA Al-Akhras, A Elbetieha, MK Hasan, I Al-Omari, H Darmani, **B Albiss**, Effects of extremely low frequency magnetic field on fertility of adult male and female rats, *Bioelectromagnetics* 22 (5), (2001) 340-344
- 14 MH Al-Akhras, IA Al-Omari, MK Hasan, **BA Albiss**, Rotational magnetic measurements of vortex flux pinning in Nb at 4.2 K, *Solid state communications* 118 (8), (2001) 387-389
- 13 M. K. Hasan, **B. A. Albiss**, I.M. Obaidat, S.J. Park " Temperature dependence of the vortex pinning enhancement by Gamma irradiation of $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_{10}$ " *Physica C* 333, 377 (2000).
- 12 **B. A. Albiss**, M. K. Hasan, M.A. Al-Akhras, I.A. Al-Omari, A. Shariah, J. Shobaki, K. Azez, and H. Ozkan" Dissipative Behavior and γ - Irradiation of silver-Sheathed $Bi_{1.8}Pb_{0.4}Sr_2Ca_2Cu_3O_x$ Tape". *Physica C*. 331, (2000) pp 297-301
- 11 J. Shobaki, I.A. Omari, M.K. Hasan, K.A. Azez, M-Ali H. Al-Akhras, **B.A. Albiss**, H.H. Hamdeh, S..H. Mahmood, "Mossbauer and Structural Studies of $Fe_{0.7-x}V_xAl_{0.3}$ Alloys", *JMMM*. 213, (2000) 51.
- 10 MK Hasan, **BA Albiss**, IM Obaidat, SJ Park, JS Kouvel, Temperature dependence of the vortex pinning enhancement by γ irradiation of $Bi_{1.6}Pb_{0.4}Sr_2Ca_2Cu_3O_{10}$ polycrystals, *Physica. C. Superconductivity and its applications* 336 (1-2), (2000)75-79.
- 9 MK Hasan, MA Al-Akhras, **BA Albiss**, IA Al-Omari, KA Azez, J Shobaki, Effect of gamma irradiation on the transport critical current density of $Tl_2Ba_2Ca_2Cu_3O_{10}$ tapes, *Superconductor Science and Technology* 12 (12),(1999)1106
- 8 H Ozkan, U Topal, NM Gasanly, **B Albiss**, T Kayed, Voltage-current characteristics of the thallium-based ceramic superconductors, *Superconductor Science and Technology* 12 (9), (1999)592
- 7 MK Hasan, J Shobaki, IA Al-Omari, **BA Albiss**, MA Al-Akhras, KA Azez, AK El-Qisari, JS Kouvel.The rotational magnetic process and effects of gamma-irradiation on vortex flux pinning in $Tl-2223$ at low temperatures, *Superconductor Science and Technology* 12 (9),(1999)606

- 6 **BA Albiss**, MK Hasan, MA Al-Akhras, IA Al-Omari, A Shariah, J Shobaki, KA AzizDissipative behavior and g-irradiation of silver-sheathed Bi1. 8Pb0. 4Sr2Ca2Cu3Ox tape, Physica-Section C 331 (3-4),(1999) 297-301.
- 5 **BA Albiss**, H Oezkan, H Boecuek, NM Gasanly, I Ercan, Effect of gamma irradiation on structure and electrical properties of (Bi, Pb) 2Sr2Ca2Cu3O10 superconductor Superlattices and microstructures 21, (1997) 23-26.
- 4 H Böcük, **BA Albiss**, I Ercan, H Özkan, N Gasanly , Effect of magnetic field and temperature on the voltage-current characteristics of YBCO superconductor, Journal of Low Temperature Physics 105 (3-4),(1996)975-980
- 3 **BA Albiss**, H Böcük, NM Gasanly, H Özkan , Voltage-current characteristics of polycrystalline (Bi, Pb) 2Sr2Ca2Cu3O10 superconductor at different magnetic fields and temperatures, Journal of Low Temperature Physics 105 (3-4), (1996) 957-962.
- 2 H Özkan, **BA Albiss**, N Hamdan, A MenardEffect of gamma irradiation and silver doping on YBCO superconductor, Journal of superconductivity 7 (6)(1994), 885-888
- 1 **BA Albiss**, N Hamdan, A Menard, H Özkan , Effect of gamma irradiation on pure and silver doped YBCO superconductor, Solid state communications 88 (3), (1993) 237-240.

Books:

Book 1: Studies of High Temperature Superconductors(Advanced in Research & Applications) V36 (Chapter 6), Edited by Anant Narliker, Nova Science Publishers, Inc.Huntington, New York 2001 ISBN: 1-59033-025-0.

Book 2: Superconducting Magnets and Superconductivity: Research, Technology and Applications,(Chapter 4, Edited by: Henry Tovar and Jonathon Fortier, Nova Science Publishers, Inc.Huntington, New York 2009 ISBN: ISBN:978-1- 60741-017-1.

Invited Reviewer for International Journals

Journal of Nanoparticle Research	Physica Status Solidi a, b and c
Nanotechnology	Superconducting Science and Technology
Journal of Applied physics	Crystal Research and Technology
IEEE Sensor Journal	Materials Chemistry and Physics
Renewable Energy	J. of Superconductivity and Novel Magnetism
Journal of Materials Chemistry	Journal of Alloys and Compounds
Journal of Electronic materials	Solid State Communications
IEEE Transactions of Appl. Superconductivity	Journal of Low Temperature Physics
J. of Physics: Condensed Matter	Modern Physics Letters
Physica C	International Jordan Journal of Physics

Teaching

Courses Taught

Introductory Physics
Wave Theory
Computational Physics
Electromagnetism

Teaching Philosophy(Main Key Sentences)

- Teaching is a dialogue.
- The mutual respect that comes from two-way communication between student and teacher is the main pillar of effective teaching.

Statistical Mechanics Solid State Physics Selected Topics in Physics Advanced Physics Lab. Modern Physics Lab. Optics Lab. Materials Properties & Heat Thermodynamics Biomechanics Radiation Physics Mathematical Physics	• Physics is not just a science; it's a way of thinking. • To teach students how to think like a physicist, I model problem solving skills explicitly in class. • Physics has both conceptual and mathematical elements. • Technology can make a difference. I have used Internet-based computer homework services in conjunction with handwritten homework in my courses. I have used computer simulations as teaching tools in lecture.
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Attending Conferences:

1. 17th International conference on magnet technology, Geneva-Switzerland, september 2001.
2. 3rd International conference on inorganic materials, Konstanz-Germany, September 2002.
3. 2nd International conference on magnetic and superconducting materials(MSM02), Irbid-Jordan, September 2002.
4. 2nd International conference on magnetic and superconducting materials(MSM03), Monastir-Tunisia, September 2003.
5. 1st SESAME user meeting, Salt-Jordan, October 2001.
6. 3rd SESAME user meeting, Antalya-Turkey, October 2004.
7. 7th International workshop on high temperature superconductor and novel in organic material engineering, Moscow-Russia, June 2004.
8. 10th Jordan scientific week, Amman-Jordan, September 2004.
9. Third International Conference on Magnetic and Superconducting Materials (MSM'03), Antalya, Turkey (2004).
10. First UAE international conference on biological and medical physics, Al-Ein-United Arab Emirates, March 2005.
11. International conference on surface modification of materials by ion beams, Turkey, Izmir, October 2005.
12. Fourth international workshop on nanoscale spectroscopy and nanotechnology, Rathen, Germany, September 2006.
13. 5th SESAME user meeting and crystallography workshop, Alexandria, Egypt, October 2006.
14. Seeheim Conference on Magnetism, Germany, August 2007.
15. NanoFormulation 2012 3rd international event organized through the FP7 Project INFORM (Integrating Nanomaterials in Formulations). Barcelona, May 28 - June 1, 2012.
16. 3rd International Advances in Applied Physics and Material Science Congress, Antalya, Turkey, April 2013.
17. Information Days on Erasmus for All for Southern Mediterranean countries", Nicosia (Cyprus), June 2013.
18. Eurofillers 2013, Bratislava, Slovakia, August 2013.

Conference Papers & Presentations

More than 20 international and regional conference papers, posters, workshops and symposia.

Graduate Students Supervision & Research Projects (during the last three years)

Master thesis Supervision of more than 10 students in the field of (nanoscience and technology, solid state physics)

Funded Projects:

1. Effect of nanoparticles addition on YBCO superconductors. Project No.33/2008.
2. Effect of Phototoxic Grasses and Plants on Human, Bees and Animals in Jordan. Funded by the Higher Council of Science and Technology (2000).
3. Mixed-Ligand complexes for photo-device applications (Jordan Scientific Research Fund) (40.000 JD).(2009).
4. Using Magnetic Nanoparticles for thermoplastic sensors for blood coagulation. (Jordan Scientific Research Fund) (60.000 JD).(2009)
5. Inlab Mapping of the radiation pollution of the wi-fi devices, Abdallah Al tell, M. Ali-Alomari and Borhan Albiss. Project no:89/2013, JUST, amount: 7740 JD.
6. Microfluidic Platform for the detection and treatment monitoring of Hepatocellular Carcinoma. Ruba Khnoof, Rami Oweis, Borhan Albiss, Ahmad el-Bateeha, SRF, amount: 91243 JD.
7. Polymer/nanodiamond/Carbon Nanotubes for solar energy applications, Borhan Albiss, Mohamad Al-Fandi, Mohamad Al Omari, deanship of scientific research JUST, amount: 10000 JD.

References:

Available upon request