

Electrical Engineering depart.
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<http://site.iugaza.edu.ps/hkhozondar>

<http://membership.sciencepublishinggroup.com/ProfHalaElKhozondar>

https://www.researchgate.net/profile/Hala_El-Khozondar/info

Education

PhD. in Physics with minor in Electrical Engineering (1999)
New Mexico State University, Las Cruces, NM, USA, <http://nuclear.physics.nmsu.edu/thesis/>

Master Degree in Physics (1995)
New Mexico State University, Las Cruces, NM, USA

Teaching Certificate diploma (1989)
Birzeit University, Birzeit, West Bank

Bachelor Degree in Physics (1987)
Birzeit University, Birzeit, West Bank

Experience

Professor at Electrical Engineering department (February 2013- present) Islamic University of Gaza, Gaza, Palestine

Quality committee member at Engineering Faculty (2015-now)
External relation committee member at Engineering Faculty (2014-2015).

Associate Professor at Electrical Engineering department (January 2008- February 2013) Islamic University of Gaza, Gaza, Palestine

Vice Dean for External relations (Jan. 15, 2007 – August, 2011)
Quality unit representative at the Electrical Engineering Department (2004-2011)
Islamic University of Gaza, Gaza, Palestine

Assistant Professor at Electrical and Computer Engineering department (August, 2001- January 2008)
Quality assurance member at the quality unit at the Islamic University of Gaza
Quality unit representative at the Electrical Engineering Department
Islamic University of Gaza, Gaza, Palestine

Training specialist (August, 2000 – August, 2001)
Academy for Educational Development (AED), Gaza, Palestine
Volunteer at the Palestine Academy for Science and Technology, Gaza, Palestine

Dr. Hala El Khozondar (2/34)

Post- doc. (July, 1999- Dec., 1999)

Max Planck Institute for nuclear physics, Heidelberg, Germany

Teaching and research assistant (August, 1993- July, 1999)

New Mexico State University, Las Cruces, U.S.A.

Teaching and research assistant (January, 1987- August, 1993)

Birzeit University, West Bank, Palestine

Current Research Interest

- 1- Nonlinear Transmission lines (NTL) for microwave application such as filter, amplifier, signal reshaping, and ADC. Resonant tunneling diodes are used to modify the performance of the NTL. Theoretical derivations of the coupled equations which represent the NLT system using simple circuits' theory are performed. Then numerical calculation are performed using OrCad programs.
- 2- Polarization rotation is studied in optical fibers where the frame of reference in which polarization rotation in twisted optical fibers is described to be compatible with the modeling of fiber sensor applications. A formulation of the polarization evolution in a twisted optical and birefringent fiber, which is based on a laboratory coordinate system, is introduced. Coupled mode theory using the fundamental modes of a single mode fiber as a basis is used. The results are also experimentally verified.
- 3- Transfer Matrix Approach to Four Mode Coupling in Fiber Bragg Gratings. Shear strain effects within fiber Bragg grating sensors have been neglected in the theoretical treatment of these devices. Shear strains do however occur in everyday applications and additionally shear strains do change the spectral response of these sensors. This may lead to a nonlinear behavior or measurement errors. A transfer matrix method using coupled mode theory, that is capable of modeling the encountered effects is developed. The effects include intra grating polarization mode coupling and changes of the spectral response.
- 4- Shear-Strain Influence on Fiber Bragg Grating Measurement Systems is considered. Fiber-Bragg-grating (FBG) sensors have become commercially available sensors for the measurement of temperature, strain and many other quantities. One interesting application is the embedding of these sensors, during which shear strains can arise inside the sensor. In this work, the theory behind this analysis is used to compute the direct influence of shear strains on the output of a FBG measurement system and to show cases where shear strain effects are relevant.
- 5- Four-Mode Coupling in Fiber Bragg Grating Sensors using Full Fields of the Fundamental Modes is studied. Embedded Fiber Bragg grating (FBG) sensors should make it possible to obtain information about the state of strain at the sensor location. This can be done by studying the optical properties of the signal propagating through the FBG taking into consideration the geometrical deformations of the fiber and the change in the optical properties of the fiber. Since the light is mostly guided close to and in the core of the fiber, the change in the respective properties within the core will be dominant.

- 6- Present the application of MTMs in the structure of the optical waveguides to realize integrated non reciprocal devices like isolators. The role of the MTMs parameters on the guided dispersion characteristic of the waveguide isolator is investigated by introducing several sets of negative permittivity and permeability with their products kept the same.
- 7- Experimental work done to verify the effect of electromagnetic radiation on vital tissue. This is an important issue due to the increase usage of mobile communication. This study was designed to understand whether electromagnetic field generated by mobile telecommunication antenna could act as an environmental insult and cause changes in the biochemical parameters in the serum of albino rats. It is also a to study the therapeutic action of vitamin C or vitamin E (150mg/L) against the harmful effects that might be induced by the electromagnetic field. Albino rats are randomly divided into four groups each contains 6 animals. Group one served as control group. The other three groups were subjected to electromagnetic field for eight hours then rest eight hours without exposure, and treatment was continued for two weeks. Two groups were treated by vitamin C or E through the experiment. We found that the electromagnetic field exposure decreased the concentrations of serum glucose, triglycerides, total cholesterol, total protein and globulin. While the concentration of albumin, urea, uric acid and creatinine were increased.
- 8- Optical sensor behavior under different stress effects. The effect of thermal-stress on the optical performance of nonlinear symmetrical sensor is studied. The mathematical forms of the dispersion equation and thermal stress sensitivity are analytically derived and plotted numerically. It is found that the thermal sensitivity of the sensor can be controlled by tuning the core size, by changing loading materials, and by carefully selecting the materials.
- 9- Study propagation of light through the proposed structure of the optical waveguide. Different factor has been taken into account to study waveguide structure. As an example, the behavior of electromagnetic field in a medium possessing a dielectric constant which is sinusoidally stratified along one coordinate sandwiched between a nonlinear cladding and a linear dielectric substrate. A first area of application is concerned with TE wave propagation through a compressible medium which is influenced by acoustic or other mechanical wave. As an example, the results are applicable to acoustically modulated plasma media in range of frequencies above plasma frequency. A second area of application regards the stratified medium as a first step in analysis of a sinusoidally modulated dielectric slab antenna. The power has been calculated by using Mathieu equation and using perturbation methods (Whittaker's Method, and Multiple Scale Method). A simple numerical method has also been applied based on Mathieu function approach. Numerical results have been presented, we found that the approximate techniques are much easier and faster, and the considered wave guide structure represents a band reject filter.
- 10- Utilizing numerical simulations based on Monte Carlo Potts model to study the microstructural evolution in two-phase polycrystalline materials. These materials are composed of small grained which are "glued" together by interatomic forces. Polycrystals are intrinsically unstable. The instability is produced by grain boundary curvatures which lead to grain boundary migration. This boundary migration leads to minimization of interfacial energy and

increasing the grain size. These changes affect physical and mechanical properties of materials such as their strength and creep resistance. Therefore understanding the microstructural evolution is very important in many practical and theoretical applications. Understanding the microstructural evolution in metals and ceramics helps to control the properties of these materials and enhance their performance in industrial applications.

Teaching experiences

Several undergraduate and graduate courses including Mechanics, electromagnetic, Logic, digital electronics, Radiation and antenna, circuit theory I, II, Electronic, Fiber Optics, Laser applications, Signals, quantum mechanics, probability and communication systems.

Skills: included preparing lectures, exams, Lecturing, and grading.

Students Advising

Supervising students: senior projects, graduate thesis.

Member of the graduation projects committees: Duties involve attending the project seminar and evaluate the project values, students' understanding, and presentation's abilities.

Graduate student committee: selection of students and advising

Honorary Titles

"TUM research alumni ambassador" given by Technical University Munich president, Munich, Germany

Prizes

- [1] 2015TWAS Medal Lecture in recognition of the truly outstanding contributions to science and technology (<http://twas.org/article/twas-medal-lectures-2015>).
- [2] ISESCO Prize in Science & Technology 2014 (http://www.isesco.org.ma/index.php?option=com_k2&view=item&id=11281:isesco-announces-winners-of-its-science-and-technology-prizes&lang=en).
- [3] IUG Research and scientific deanery research prize 2010.
- [4] AED Technical Achievement Award (2000).

Awards and Fellowships

- Mevlana Exchange Programme, to be in May 2015, Adkeniz University, Turkey.
- Altaawon and Bank of Palestine Zamalah Program, to be in June and July 2015, University of Illinois, Urbana Illinois, USA.
- Fellow for the world academy of sciences for the advancement of science in developing counties (FTWAS) and FTWAS-ARO , 2011. <http://www.twas.org/network/members/e>
- DAAD award visit to Nanochemistry and nanoengineering/Multicomponent Materials, Institute for Material Science, Faculty of Engineering, University of Kiel, Germany, summer 2013. (Prof. Mady Elbahri and Prof. Franz Faupel)

- Senior associate fellow at The Abdus Salam center for theoretical physics (ICTP), for regular visit to ICTP, 2011
- AvH, Institute of measurements and sensor technology (MST) at Technical University Munich Germany, summer 2011, 2012 (Prof. Alexander W. Koch)
- Award from Institute of measurements and sensor technology (MST) at Technical University Munich, Germany, summer 2010 (Prof. Alexander W. Koch)
- Max Planck Institute for complex systems, Dresden, Germany, summer 09 (Prof. Dr. Peter Fulde (Emeritus))
- TWAS- UNESCO associateship 2008-2009
- IUG Research and scientific denary research award 2008
- Erasmus Mundus II for academic staff award, Dept. of Applied Physics and Photonics Vrije University, Brussel, 2008 (Prof. Dr. Ir. Hugo Thienpont)
- Alexander Von Humboldt-Stiftung (AvH) (2009), Institute of measurements and sensor technology (MST) at Technical University Munich Technical University Munich
- Max Planck Institute for complex systems, Dresden, Germany, summer 08 (Prof. Dr. Peter Fulde (Emeritus))
- Max Planck Institute for complex systems, Dresden, Germany, summer 07 (Prof. Dr. Peter Fulde (Emeritus))
- Marquis Who's Who (2006-2007)
http://bios.marquiswhoswho.com/hala_jarallah_el_khozondar/physicist_researcher/6465865
- DAAD fellowship (summer 2006) Institute of measurements and sensor technology (MST) at Technical University Munich (Prof. Alexander W. Koch)
- Arab Universities Union Award 2004
- State department Grant (2006).
- Fulbright Alumni award (2004).
- Postdoc award at Max Planck institute in Heidelberg (1999) (Prof. Hans-Christian Pauli).
- Max Planck institute fellowship (1998) (Prof. Hans-Christian Pauli).
- Fulbright Scholarship (1993-1995) (M.Sc. at NMSU, USA) (Prof. Mathais Burkardt).
- Student Scholarship at Van der Waals-Zeeman Laboratorium; Holland (1990)

Editorial board membership and Peer Reviewer

Journal name: Journal of Electrical Engineering and Science (JEES)

Publisher: DJ Publications

<http://www.djee.org/index.php/stage/editorial>

Journal name: Optics

Publisher: Science Publishing group

<http://www.sciencepublishinggroup.com/journal/editorialboard.aspx?journalid=126>

Journal name: JERT

Publisher: Faculty of Engineering, Islamic University

<http://dnntest.iugaza.edu.ps/gcgc/jert/aimandfocus.aspx>

Journal name: Euras Academic Journal

http://www.euras-edu.org/dosyalar/39A_academic_journal.pdf

Journal name: American Journal of Biomedical Science and Engineering

<http://www.aascit.org/journal>

Journal name: Journal of electronic and communication engineering.

<http://www.djjames.org/index.php/stage/editorial/>

Lead Guest Editor: Optical Engineering & Applications in Optics.

<http://www.sciencepublishinggroup.com/specialissue/specialissueinfo.aspx?journalid=126&specialissueid=126001>

Lead Guest Editor: Wireless Sensors and Sensor Networks in International Journal of Sensors and Sensor Networks.

<http://www.sciencepublishinggroup.com/specialissue/specialissueinfo.aspx?journalid=130&specialissueid=130001>

Guest Editor: Android Security,

<http://www.sciencepublishinggroup.com/specialissue/specialissueinfo.aspx?specialissueid=131002&journalid=131#>

Peer Reviewer:

- Journals:

Journal of light wave technology; Journal of Optics express; IEEE sensors; IEEE-Photonics Technology Letters; Progress in Electromagnetic research and Journal of Electromagnetic waves and application (Pier and Jemwa); Sensor letter; IET renewable power generation, Journal of Basic and Applied Physics (JBAP); Multidiscipline Modeling in Materials and structures (MMMS); American Journal of Optics and Photonics; International Journal of Sensors and Sensor Networks; Advanced Electromagnetics; Chinese Optics Letters; Computers & Electrical Engineering(COMPELECENG); inderscience publisher-International Journal of Materials Engineering Innovation; International Journal of Modern Physics B(IJMPB); International Journal of Energy Engineering; Measurements; World Journal of Engineering and Physical Sciences (WJEPS); British Journal of Mathematics & Computer Science; Physical Science International Journal; International Journal of Materials Engineering Innovation (IJMATEI); World journal of engineering and physical sciences; Annual Research & Review in Biology; Scientific Report; International Journal of Energy Engineering; International Journal of Optics and Applications; Nanoscience and Nanotechnology; Journal of Basic and Applied Research international (international knowledge press). Advances in Power Electronics. American association for science and technology (ASCIT) Energy, Applied Mathematics & Information Sciences (AMIS), Journal of Systemics, Cybernetics and Informatics, American Journal of Modern Physics. Propulsion and Power Research.

- Conferences:

International Conference on Sensors Engineering and Electronics Instrumental Advances (SEIA' 2015), In conjunction with: 1st International Workshop on Recent Advances on Electrical, Sensors and Transducers Equipments, 21-22 November 2015, Dubai, UAE (http://www.sensorsportal.com/HTML/CONFERENCES/SEIA_2015/Committees).

fifth International Conference on Engineering and Sustainability (ICES5)-IUG; 2015 international conference on smart sensors and applications; 3rd international conference on clean energy and technology (CEAT2014)-Malaysia, Optical Engineering and Photonic Technology (OEPT) 2010 –now(<http://www.iiis2014.org/oept>) ; AES 2012, Advanced Electromagnetics Symposium; Conference Management System-2013; the 4th International Engineering Conference (IEC4)-Islamic university; META'12, the 3rd International Conference on Metamaterials, Photonic Crystals and Plasmonics; META'13, the 4th International Conference on Metamaterials, Photonic Crystals and Plasmonics, The 3rd Global Conference on Materials Science and Engineering <http://www.cmseconf.org>.

selection committee

TWAS Membership Advisory Committee (MAC) in Physics (2016 - 2018).

Selection Awards and prizes committee member:

- Seed fund evaluation committee member/research deanery Jenen American University
- Ford Foundation grants for graduate studies
- French scholarship for graduate studies.
- The best female engineer.
- Daughters for life prize.
- DAAD IT/EE for Ph.D. candidates

Administrative committee member:

- Promotion committee member assigned by the research deanery at Islamic University in Gaza to write the promotion bylaws for the university.
- Head of External relation committee as part of the strategic plan committee of the university
- Academic and Technical counselor for Al Fakhoora programme awards which serves to select undergraduate and graduate students under poverty line to help them continue their education.
- Academic Trainer for the presidential scholarship for graduate and undergraduate students.

Translation

مترجم لمجلة عالم العلوم اصدار الكويت من عام 2012-الآن

Conference committees

Committee member:

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- 1- International Program Committee: 2nd International Conference on Sensors and Electronic Instrumental Advances(SEIA' 2016), 22-23 September 2016, Barcelona, Castelldefels, Spain (http://www.sensorsportal.com/SEIA_2016/index.htm).
 - 2- Scientific Program Committee: Fourth Palestinian International conference on Computer and Information Technology, Research, Innovation & Entrepreneurship PICCIT 2015, 7-8 October 2015, Hebron, Palestine, <http://piccit.ppu.edu>.
 - 3- Scientific Committee Chairwoman for the 5th international conference on Engineering and Sustainability (ICES5), 4-5 November 2014, Islamic University of Gaza, Gaza, Palestine.
 - 4- Member of scientific organization committee at: The Third International Conference on Engineering and Gaza Reconstruction, 10-11-October-2010, Islamic University of Gaza, Gaza, Palestine.
 - 5- Conference organization committee: The international conference of women in the sciences: experiences, challenges and opportunities, from Gaza to Glasgow, 2011.

Session chairperson at:

- 6- First AvH-Club Workshop titled "Sustainable development and Higher Education in Palestine (Greening the Education), 20-21 April, 2014.
- 7- META'13, the 4th International Conference on Metamaterials, Photonic Crystals and Plasmonics, Sharjah, United Arab Emirates, March 18 - 22, 2013.
- 8- META'12, the 3rd International Conference on Metamaterials, Photonic Crystals and Plasmonics, Paris, France, April 19-22, 2012.
- 9- The second International Conference on Basic & Applied Sciences (ICBAS), 9-11 October 2012, Al-Azher University, Gaza, Palestine.
- 10- Fourth International Conference for Science and Development (ICSD-IV), 22-23 November, 2011, Islamic University of Gaza, Gaza, Palestine.
- 11- The First International Conference on Basic & Applied Sciences (ICBAS), 10-12 October 2010, Al-Azher University, Gaza, Palestine.
- 12- The Third International Conference on Engineering and Gaza Reconstruction, 10-11-October-2010, Islamic University of Gaza, Gaza, Palestine.

Organizing committee:

- 13- Scientific committee member for First AvH-Club Workshop titled "Sustainable development and Higher Education in Palestine (Greening the Education), 20-21 April, 2014.
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- 14- Scientific committee chairwomen for 5th international conference on engineering and sustainability hosted by engineering faculty, IUG, 4-5 November 2014.
 - 15- Scientific committee member for The Third International Conference on Engineering and Gaza Reconstruction, 10-11-October-2010
 - 16- Scientific committee member for the workshop held by the vice president for research and graduate studies titled "المؤسسات الأكاديمية والقطاع الخاص نحو الشراكة والتكامل" in Feb. 10, 2014
 - 17- Scientific committee member for the workshop held by the vice president for research and graduate studies titled "أخلاقيات البحث العلمي" in April 2, 2014.
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Funded Projects

1. Project title: "Numerical and analytical analysis for nonlinear optical sensor"
Funded by Arab Universities Union, 2004
2. Project title: "Very Fast Optical Switch using Er-doped Fiber"
Funded by Research and scientific deanery at Islamic University of Gaza, 2008
3. Project title: "Full Treatment of Polarization Rotation and Shear Stress effects on Fiber Bragg Grating Sensor"
Funded by Research and scientific deanery at Islamic University of Gaza, 2010
4. Project title: "Communicating respect: teaching business etiquette and intercultural communication at high education and VET institution in the Euro-Med Region" in collaboration with the International University College, Dobrich, Bulgaria.
Funded by Anna Lindh foundation, 2010
5. Project title: "Schub- und Hauptdehnungsrekonstruktion mit eingebetteten Faser-Bragg-Gittern" in collaboration with Technical University Munich, Munich, Germany.
Funded by DFG, 2010.
6. Project title: "Lifelong Learning in Palestine" in collaboration with Glasgow University, Birzeit University, Bethlehem University, Malta University, and Jerusalem University.
Funded by TEMPUS 2011.
7. Project title: "Modeling of optical sensor using Liquid crystal tunable MTMs", in collaboration with Université Paris-Sud 11, France.
Funded by Maqdisi project, 2011.

Languages

Bilingual: Arabic and English.
German and French

Honor Society and Affiliations

- عضو منتدى العلماء العرب member of Forum of Arab Scientists "FAS"

- Research Asia News
<http://www.researchsea.com/html/institutions.php/iid/139/apid/1/ctype/experts/research/experts.html?backlink=1>
- Vice head for Alexander Von Humboldt Club-Palestine.
- Fellow of TWAS and TWAS-ARO, 2011
- Senior associate member at The Abdus Salam center for theoretical physics, 2011.
- ARISE membership
- SPIE membership
- Member of Organization for Women in the Science for the Developing World (OWSDW) (previously TWOWS)
- Board Head of Aura for physics society, 2009
- Member of Fulbright academy, 2008
- Member of graduate women society in Gaza Strip, 1996
- Board Head of the Palestinian Fulbright Alumni Association in Gaza Strip (PFAA), 2011
- Member of IEEE, Electro-Optics Society, 2015
- Phi Kappa Phi, 1998
- Member at APS (American Physical Society), 1999

Computer Skills

- Knowledge of Unix and linux systems, Knowledge of Microsoft Office
- HTML and Fortran
- Latex, WebCt, Mathtype
- Maple, Multisim & ORCAD

Formal meetings

Attending the following meeting as vice dean of external relations:

- CICUP (Collectif Interuniversitaire pour la Coopération avec les Universités Palestiniennes), 5-6 June 2009, Paris, France.
- Rencontres euro-palestiniennes, Wednesday 7 January 2009, Paris, France.

Attending the following meetings on behalf of the University president:

- The Constitutive session of the General Assembly of Euro-Mediterranean University (EMUNI), 25-26 of November 2008, Barcelona, Spain.
- Higher education and research, addressing local and global needs, 13th IAU General Conference, IAU at Utrecht, 15-18 July 2008, the Netherlands.

Attending the following meeting as Alexander von Humboldt Foundation research fellow:

- Annual meeting of the Alexander von Humboldt, Berlin, 8-10 June 2008, Germany.
- German-Middle East International Conference, 10-11 May 2009, Amman, Jordan.
- Award Ceremony: Alexander von Humboldt Professorship-International Award for Research in Germany, Berlin, 7-8 May 2009, Germany.
- Network Meeting of the Alexander von Humboldt Foundation, Darmstadt, 8-10 October, 2008, Germany.

Attending the following meeting as Fulbright Alumni:

- Conference of science and technology, 3-4 March, 2006, Hold by Fulbright academy for science and technology, Berlin, Germany.

Conferences, workshops and seminars

1. هالة جارالله الخزندار ، محمد موسى شبات "دور مؤسسات المجتمع المدني في رعاية الشباب: رؤية مستقبلية-بيت حانون نموذجاً" ، المؤتمر الرابع لبلدية بيت حانون: الشباب والتنمية في بيت حانون، بلدية بيت حانون، غزة، فلسطين، 30-31 مارس 2016.
 - 1 هالة جارالله الخزندار "سبل الحصول عل المنح الدراسية وطريقة كتابة ال CV بإبداع، يوم دراسي بإدارة النادي العلمي، كلية العلوم، الجامعة الاسلامية، وبالتعاون مع جمعية أوروا لخريجي الفيزياء، غزة، 24 فبراير 2016.
 - 2 هالة جارالله الخزندار "دور الريادة في التنمية المجتمعية" المؤتمر العلمي الخامس الموسوم ب (الريادة والابداع في تطوير الأعمال الصغيرة) Entrepreneurship & creativity in small business development ، كلية التجارة ، الجامعة الاسلامية، غزة ، 5-6 مايو 2015.
 - 3 هالة جارالله الخزندار " عامل التأثير" ورشة عمل نظمتها شئون البحث العلمي والدراسات العليا في الجامعة الاسلامية بعنوان النشر العلمي الدولي والتشاركي، 18 أكتوبر 2013 .
 - 4 هالة جارالله الخزندار " معوقات الشراكة بين البحث العلمي والقطاع الخاص" ورشة عمل نظمتها شئون البحث العلمي والدراسات العليا في الجامعة الاسلامية بعنوان المؤسسات الأكاديمية والقطاع الخاص (نحو الشراكة والتكامل)، 10 فبراير 2014.
 - 5 ورشة عمل بعنوان "عرض تجارب برنامج "Follow-up support for ICT academics" يوم الثلاثاء 26 مايو 2015 بفندق آدم غزة-حضور وتقييم.
- 6- R. J. El-Khozondar, H. J. El-Khozondar, and M. M. Shabat, "Sensitivity of Graphene-MTM Waveguide", Fifth Palestinian Conference on Modern Trends in Mathematics and Physics, July 31-August 2, 2016.
 - 7- Rifa J. El-Khozondar Hala El-Khozondar, "Monte Carlo Implementation for Simulation of Ostwald Ripening in Two-Phase Polycrystalline Materials", Fifth Palestinian Conference on Modern Trends in Mathematics and Physics, July 31-August 2, 2016.
 - 8- Hala J. El-Khozondar, M. M. Shabat, and R. Khalefa, "Sensitivity of Graphene-Nonlinear Waveguide Sensors", META'16, the 7th International Conference on Metamaterials, Photonic Crystals and Plasmonics, Convention & Exhibition Centre, Torremolinos (Malaga), Spain, July 25, 2016 – July 28, 2016.
 - 9- Rifa J. El-Khozondar, Hala J. El-Khozondar, M. M. Shabat, "Analysis of TM surface plasmons at Graphene-MTM interface", META'16, the 7th International Conference on Metamaterials, Photonic Crystals and Plasmonics, Convention & Exhibition Centre, Torremolinos (Malaga), Spain, July 25, 2016 – July 28, 2016
 - 10- Hala J. El-Khozondar, Palestinian Alumni Harnessing the Power of Networking to Lead and Serve, Tuesday, June 9, 2015, Ramallah, Palestine (attending).

- 11- Khaled Matter, Hala J. El-Khozondar, "Matlab/Simulink Modeling to study the effect of partially shaded condition on Photovoltaic array's Maximum Power Point ", 2nd Energy Management conference and exhibition 2015, Kingdom of Bahrain, 6-8 December 2015.
- 12- Dena M. Alamassi, Hala J. El-Khozondar, Mohammed M. Shabat, Modification of PV behavior using dissipative MTM, META15, 6th international conference on Metamaterials, Photonic crystals and plasmonics, 4-7 August, New York, 2015.
- 13- Hala J El-Khozondar, Rifa J. El-Khozondar, Kaled Matter, Parameters influence on MPP value of the photo voltaic cell, International Conference on Technologies and Materials for Renewable Energy, Environment and Sustainability - TMREES15, 2015-04-17 - 2015-04-20, Lebanon.
- 14- Hala Jarallah El-Khozondar, M. Abu-Marasa, R. J. El-Khozondar, M. Elbahri, S. Zouhdi, VCO based on Composite Right/Left-Handed Metamaterial Transmission Lines loaded with RTD, META15, 6th international conference on Metamaterials, Photonic crystals and plasmonics, 4-7 August, New York, 2015.
- 15- Rifa J. El-Khozondar, Hala J. El-Khozondar, "Numerical Simulation of Grain Size Distribution During Ostwald Ripening", THE XXXI INTERNATIONAL CONFERENCE Eg-MRS 6 – 9 January 2015 Hurghada (sonesta).
- 16- Dina M. Alamassi, Hala J. El-Khozondar, Mohammed M. Shabat, "Optimization of the efficiency of solar cell using MTMs", THE XXXI INTERNATIONAL CONFERENCE Eg-MRS 6 – 9 January 2015 Hurghada (sonesta).
- 17- Mahmoud Abu-Marasa, Hala J. El-Khozondar, " VCO based on Composite Right/Left-Handed Metamaterial Transmission Lines loaded with RTD", THE XXXI INTERNATIONAL CONFERENCE Eg-MRS 6 – 9 January 2015 Hurghada (sonesta).
- 18- Rifa J. El-Khozondar, Hala J. El-Khozondar, "Monte Carlo Potts Simulation of Grain Growth Of Solid Grains Dispersed In A Liquid Matrix" The 5th international conference on engineering and sustainability, Islamic University of Gaza, Dec. 9-10, 2014.
- 19- Mahmoud Abu-Marasa, Hala J. El-Khozondar, " A Very Wideband Filter-Amplifier based on Composite Right/Left-Handed Transmission Lines loaded with RTD", The 5th international conference on engineering and sustainability, Islamic University of Gaza, Dec. 9-10, 2014.
- 20- Khaled Matter, Teuvo Suntio, Hala J. El-Khozondar, "Comparison Study of Photovoltaic Array Maximum Power Tracking Techniques", The 5th international conference on engineering and sustainability, Islamic University of Gaza, Dec. 9-10, 2014.
- 21- Hala J. El-Khozondar, "AvH-Experience and Women Activity", first AvH-Club Workshop titled "Sustainable development and Higher Education in Palestine (Greening the Education)", 20-21 April, 2014.

- 22- Zeyad I. Al-Sahhar, Hala J. El-Khozondar, Mohammed M. Shabat, "The sensitivity of LH-antiferromagnetic waveguide sensors", The fifth International Conference for Sciences and development, 25-26 November 2014, Science faculty, Islamic University of Gaza, Gaza, Palestine.
- 23- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, "Electromagnetic waves through metamaterial-dielectric Photonics Crystal waveguide structure", The fifth International Conference for Sciences and development, 25-26 November 2014, Science faculty, Islamic University of Gaza, Gaza, Palestine.
- 24- Hala J. El-Khozondar, Rifa J. El-Khozondar, Said Zouhdi "Theoretical Study of the optical properties of a single-walled nanotube thin film waveguide with nonlinear cladding", META'14, Singapore, May 20-23, 2014.
- 25- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat "Electromagnetic waves through metamaterial-dielectric Photonics Crystal waveguide structure", META'14, Singapore, May 20-23, 2014.
- 26- Al-Sahhar Z. I., El-Khozondar, Hala, Shabat M. M., "The sensitivity of metamaterial-ferromagnetic-antiferromagnetic waveguide sensors", Functional Materials ICFM'2013, Crimea, Ukraine, September 29 – October 5, 2013.
- 27- Hala J. El-Khozondar, Rifa J. El-Khozondar, Said Zouhdi " Microwave Propagation at the interface between Nonlinear MTMs and Anisotropic Materials", META'13, the 4th International Conference on Metamaterials, Photonic Crystals and Plasmonics Sharjah, United Arab Emirates, March 18 - 22, 2013, <http://meta13.metaconferences.org>
- 28- Hala J. El-Khozondar, Rifa J. El-Khozondar, " Theoretical Study of the optical properties of a single-walled nanotube thin film waveguide with nonlinear cladding ", International Conference on Women in Science and Technology in the Arab Countries, April 21-23, 2013, Kuwait City, Kuwait.
- 29- Hala J. El-Khozondar, Rifa J. El-Khozondar, Said Zouhdi, "Microwave propagation in tunable nonlinear MTMs film surrounded by anisotropic materials ", the First International Conference on Innovative Materials and Techniques "CIMT2012", November 12-15, 2012, Hammamet, Tunisia.
- 30- Rifa J. El-Khozondar, Hala J. El-Khozondar, Mohammed Shabat, " Electromagnetic waves through metamaterial-superconducting Photonics Crystal waveguide structure", The Second International Conference on Basic & Applied Sciences, 9-11 October 2012, Al-Azher University, Gaza, Palestine.
- 31- Mahmoud O. Abu-marasa and Hala Jarallah El-Khozondar, "Nonlinear Composite Left/Right handed Transmission Line Media with RTD", The Second International

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Conference on Basic & Applied Sciences, 9-11 October 2012, Al-Azher University, Gaza, Palestine.

- 32- Zeyad I. Al-Sahhar, Hala J. El-Khozondar, Mohammed M. Shabat, "Slow surface Waves at the interface between MTMs and Ferrite in composite structure ", The Second International Conference on Basic & Applied Sciences, 9-11 October 2012, Al-Azher University, Gaza, Palestine.
- 33- Hala J. El-Khozondar, Energy Challenges-Germany 2050: 2nd Colloquium of the Munich School of Engineering, Munich School of Engineering (MSE), Technical University of Munich, 28-06-2012.
- 34- Florian Hirth, Ana Perez Grassi, Hala J. El-Khozondar and Alexander W. Koch, "Optical Measurements of Two-Layer System Considering Chromatic correction", Third Palestinian conference on Modern Trends in Mathematics and Physics, 16-18 July 2012, Polytechnic University-Hebron-Palestine. <http://www.pcmtmp.org/?q=node/14/done&sid=238>.
- 35- Hala J. El-Khozondar, Amani S. Abu Reyala, " Load reduction in wind energy converters using Individual Pitch Control", The 4th International Engineering Conference (IEC4), 15-16 October, 2012, Islamic University of Gaza, Gaza, Palestine.
- 36- Safaa Ahmed El Najjar, Hala J. El-Khozondar, Hatem A. Elaydi, " Controlling Nonlinear Systems With Time-Delays And Disturbances Using Ripple-Free Deadbeat Strategy", The 4th International Engineering Conference (IEC4), 15-16 October, 2012, Islamic University of Gaza, Gaza, Palestine.
- 37- Hala J. El-Khozondar, Rifa J. El-Khozondar, Ahme Alfara, , B. Z. Essimbi, "Nonlinear Resonant Tunnelling Diode (RTD) circuits for microwave A/D conversion", ICSM2012, Kumburgaz-[Istanbul](http://www.icsm2012.org//conference/act.php?key=4e92b420269c7)/Turkey between 29 April -4 May 2012. <http://www.icsm2012.org//conference/act.php?key=4e92b420269c7>.
- 38- Hala J. El-Khozondar, Rifa J. El-Khozondar, Said Zouhdi, "Surface waves at the interface between tunable LC-MTMs and Nonlinear media", META'12, the 3rd International Conference on Metamaterials, Photonic Crystals and Plasmonics Paris, France, April 19 - 22, 2012, <http://meta12.metaconferences.org>
- 39- Z. I. Al-Sahhar, Hala J. El-Khozondar, M. M. Shabat, " Wave propagation in lossy MTMs surrounded by linear and nonlinear media with arbitrary nonlinearity", META'12, the 3rd International Conference on Metamaterials, Photonic Crystals and Plasmonics Paris, France, April 19 - 22, 2012, <http://meta12.metaconferences.org>.
- 40- Hala J. El-Khozondar, Rifa J. El-Khozondar, Ibtesam Abu Ariban, B.Z. Essimbi, "Resonant Tunneling Diode-Nonlinear transmission lines application", AES 2012, Advanced Electromagnetics Symposium Paris, France, April 16 - 19, 2012 <http://aes12.mysymposia.org>.

- 41- Z. I. Al-Sahhar, Hala J. El-Khozondar, M. M. Shabat, " Wave propagation in lossy MTMs surrounded by linear and nonlinear media with arbitrary nonlinearity", *Metamaterials: Fundamentals and Applications IV*, 21 - 25 August 2011, San Diego Convention Center, San Diego, California. <http://spie.org/Documents/ConferencesExhibitions/OP11-Abstracts.pdf>
- 42- Khitam El Wasife, Hala J. El-Khozondar, M. M. Shabat, "S-Waves in a Nonlinear, Left-Handed Material and Ferrite Layered Structure", *Fourth International Conference for Science and Development (ICSD-IV)*, 22-23 November, 2011, Islamic University of Gaza, Gaza, Palestine.
- 43- Hala J. El-Khozondar, Amani Abu Reyala, Nadia M. Mahdi, "Teaching Optical Fiber using Optiwave software package", *Fourth International Conference for Science and Development (ICSD-IV)*, 22-23 November, 2011, Islamic University of Gaza, Gaza, Palestine.
- 44- Rifa J. El-Khozondar, Hala J. El-Khozondar, M. M. Shabat, "TM waves propagation at magnetoplasma-MTMs interface", *Fourth International Conference for Science and Development (ICSD-IV)*, 22-23 November, 2011, Islamic University of Gaza, Gaza, Palestine.
- 45- Z. I. Al-Sahhar, Hala J. El-Khozondar, M. M. Shabat, "Surface Wave propagation at interface between lossy MTMs and nonlinear media with arbitrary nonlinearity", *Fourth International Conference for Science and Development (ICSD-IV)*, 22-23 November, 2011, Islamic University of Gaza, Gaza, Palestine.
- 46- Z. I. Al-Sahhar, Rifa J. El-Khozondar, Hala J. El-Khozondar, M. M. Shabat, "Using Maple as a tool for Education and Scientific research development", *Fourth International Conference for Science and Development (ICSD-IV)*, 22-23 November, 2011, Islamic University of Gaza, Gaza, Palestine.
- 47- Hala J. El-Khozondar, Rifa J. El-Khozondar, Ibtesam Abu Ariban, B.Z. Essimbi, "Pspice modeling of nonlinear transmission lines analog to digital conversion", *The second international conference of natural & applied sciences*, 30-31 May, 2011, Al-Aqsa University, Gaza, Palestine.
- 48- Rifa J. El-Khozondar, Hala J. El-Khozondar, M. M. Shabat, " Surface wave propagation in Ferroelectric/MTMS interface", *The second international conference of natural & applied sciences*, 30-31 May, 2011, Al-Aqsa University, Gaza, Palestine.
- 49- Hala J. El-Khozondar, Mattis S. Müller, Rifa J. El-Khozondar, Alexander W. Koch, "Magnetic field inhomogeneity induced on the Magneto-optical current sensors", *Information Photonics 2011*, 18 - 20 May 2011, Ottawa Convention Centre Ottawa, Canada.

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- 50- Rifa J. El-Khozondar, Hala J. El-Khozondar, "Effect OF Stable Particles ON Grain Growth OF Two Phases", *The Advances in Applied Physics and Materials Science Congress APMAS2011*, 12 - 15 May 2011, Antalya, Turkey.
- 51- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mattis S. Müller, Mohammed M. Shabat, Alexander W. Koch, "Sensitivity OF TM Nonlinear Magneto-optical Integrated Optical Sensor", *The Advances in Applied Physics and Materials Science Congress APMAS2011*, 12 - 15 May 2011, Antalya, Turkey.
- 52- Hala J. El-Khozondar, Sofyan A. Taya, Mohammed M. Shabat, and Emad M. Mehjez, "TM Nonlinear Waveguide Slab Optical Sensor Utilizing Left-handed Materials", *PIERS 2011*, 20-23 March 2011, Morocco.
- 53- Hala J. El-Khozondar, Mathias S. Müller, Rifa J. El-Khozondar, Alexander W. Koch, "Using a Fixed Reference Frame to Study Polarization Rotation in Twisted Optical Fibers", *The First International Conference on Basic & Applied Sciences (ICBAS)*, 10-12 October 2010, Al-Azher University, Gaza, Palestine.
- 54- Hala J. El-khozondar, Mohammed M. Shabat, Abdelrahman Elhassan Mohamed-Osman, KhitamElwasife, "Model to Study the Effect of Electromagnetic Waves Produced by Mobile Phone Base Station on human body Tissue", *The First International Conference on Basic & Applied Sciences (ICBAS)*, 10-12 October 2010, Al-Azher University, Gaza, Palestine.
- 55- Hala J. El-Khozondar, Hatem Ellydi, Fady Al-Batta, "Design and Optimization IIR Loop Filters in Fixed WiMAXPLL using LMI Method". *The Third International Conference on Engineering and Gaza Reconstruction*, 10-11-October-2010, Islamic University of Gaza, Gaza, Palestine.
- 56- Sofyan A. Taya, Hala J. El-Khozondar, Mohammed M. Shabat, Emad M. Mehjez, "Characterization of nonlinear optical integrated waveguide sensor with metamaterials", *International conference on mathematical methods in electromagnetic theory*, 6-8 September 2010, Ukraine.
- 57- Hatem Ellydi, Ayman AlQoqa, Hala El-Khozondar, "Optimal PLL Filter Design for Mobile WiMax Using LP and SDP", *In: PICCIT 2010, The 3rd Palestinian International Conference on Computer and Information Technology*, 9-11 March 2010, Hebron, Palestine.
- 58- Sofyan A. Taya, Hala J. El-Khozondar, Mohammed M. Shabat, and Emad M. Mehjez, "Optical Waveguide Sensors Using Double Negativity Guiding Layer", *META'10*, 22 - 25 February 2010, Cairo, Egypt.
- 59- Hala J. El-Khozondar, Mattias Müller, T. Buck, Rifa J. El-Khozondar, Alexander W. Koch, "Experimental investigation of polarization rotation in twisted optical fibers", *In:*

International Symposium on Optomechatronic Technologies (ISOT 2009), 21-23 September 2009, Istanbul, Turkey.

- 60- Hala J. El-Khozondar, Zeyad I. Al-Sahhar, Mohammed M. Shabat, "Electromagnetic Surface Waves of a Ferrite Slab Bounded by Metamaterials", *Micro- to Nano-Photonics II - ROMOPTO 2009*, 31 August – 3 September 2009, Sibiu, Romania.
- 61- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, Alexander W. Koch "Coupling efficiency of nonreciprocal optical isolator with metamaterials substrate and linear cladding", *SPIE Metamaterials: Fundamentals and Applications II 2009*, 2-6 August 2009, San Diego, California, USA.
- 62- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, and Alexander W. Koch, "sensitivity of magneto-optical sensor", *The International conference on Magnetism-ICM 2009*, 26-31 July, 2009, Karlsruhe, Germany.
- 63- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, and Alexander W. Koch, "Coupling efficiency between a fiber and TM in integrated isolator, Polycrystalline magneto-optical film and double negative material substrate", *The 18th International Laser Physics Workshop (LPHYS'09)*, the Institute of Photonic Sciences (ICFO), 13-17 July 2009, Barcelona.
- 64- Hala J. El-Khozondar, "Local academic situation in Gaza Universities", *Collectif Interuniversitaire pour la Coopération avec les Universités Palestiniennes (CICUP)*, 5-6 June 2009, Paris, France.
- 65- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, Alexander W. Koch, "Metallic nonlinear magneto-optical nonreciprocal isolator", *SPIE Europe-Optical Metrology 2009 International Symposium*, 15-18 June 2009, Munich, Germany.
- 66- Hala J. El-Khozondar, Mattias S. Müller, Rifa J. El-Khozondar, Mohammed M. Shabat, Alexander W. Koch, "sensitivity of double-negative metamaterial optical waveguide", *SPIE Europe-Optical Metrology 2009 International Symposium*, 15-18 June 2009, Munich, Germany.
- 67- Mattias S. Müller, T. Buck, Hala J. El-Khozondar, Alexander W. Koch, "Measurement Errors from Internal Shear strain within Fiber Bragg Grating Sensor", *SPIE Europe-Optical Metrology 2009 International Symposium*, 15-18 June 2009, Munich, Germany.
- 68- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, Alexander W. Koch, "Coupling Efficiency of Metamaterial Magneto-optical Integrated Isolator", *9th international conference on optical technologies for sensing and measurement*, 26-28 May 2009, Nürnberg exhibition center, Germany.

- 69- Hala J. El-Khozondar, Mattias S. Müller, Rifa J. El-Khozondar, Alexander W. Koch, "Twist Effect on Polarization Maintaining fiber", *German-Middle East International Conference*, 10-11 May 2009, Amman, Jordan.
- 70- Rifa J. El-Khozondar, Hala J. El-Khozondar, "Numerical Modeling of Microstructural Evolution in Three-Phase Polycrystals", *Network Meeting of the Alexander von Humboldt Foundation*, 4-6 February, 2009, Konstanz, Germany.
- 71- Hala J. El-Khozondar, Rifa J. El-Khozondar, "Temperature Sensitivity Enhancement of Nonlinear Optical Channel Waveguide Sensors Using Thermal-Stress Effect", *The XXVII Conference on: Solid State Physics and Materials Science and Work Shop on: Nanostructure Science in Solids and Biological System*, 24-27 March 2008, Gulf of Sues (Red Sea), AinSoukhna, Egypt.
- 72- Hala J. El-Khozondar, Rifa J. El-Khozondar, "Numerical modeling of microstructural evolution in three-phase polycrystalline materials", *The XXVII Conference on: Solid State Physics and Materials Science and Work Shop on: Nanostructure Science in Solids and Biological System*, 24-27 March 2008, Gulf of Sues (Red Sea), AinSoukhna, Egypt.
- 73- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, "Double-Negative Metamaterial Optical waveguide Behavior Subjected to Stress", *META'08 Conference*, 7-10 May 2008, Marrakesh-Morocco.
- 74- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, "Double-Negative Metamaterial Optical waveguide Behavior Subjected to Stress", *Metamaterials III*, edited by Nigel P. Johnson, EkmelÖzbay, Richard W. Ziolkowski, Nikolay I. Zheludev, SPIE Europe-Photonics Europe 2008 International Symposium, 7-10 April 2008, Strasbourg, France, *Proc. of SPIE Vol. 6987, 69871W 1-8, 2008.*
- 75- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, "Applications of Metamaterials in Optical Waveguide Isolator", *Metamaterials III*, edited by Nigel P. Johnson, EkmelÖzbay, Richard W. Ziolkowski, Nikolay I. Zheludev, SPIE Europe-Photonics Europe 2008 International Symposium, 7-10 April 2008, Strasbourg, France, *Proc. of SPIE Vol. 6987, 69872A 1-8, 2008.*
- 76- Hala J. El-Khozondar, Zeyad I. Al-Sahhar, Mohammed M. Shabat, " Electromagnetic surface waves of a ferrite slab bounded by metamaterials", *Metamaterials III*, edited by Nigel P. Johnson, EkmelÖzbay, Richard W. Ziolkowski, Nikolay I. Zheludev, SPIE Europe-Photonics Europe 2008 International Symposium, 7-10 April 2008, Strasbourg, France, *Proc. of SPIE Vol. 6987, 69872A 1-8, 2008.*
- 77- Rifa J. El-Khozondar, Hala J. El-Khozondar, Mohammed M. Shabat, "Applications of Metamaterials in Optical Waveguide Isolator", *Sensor + Test conference 2008*, 6-8 May, Nürnberg, Germany.

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- 78- Rifa J. El-Khozondar, Hala J. El-Khozondar, "Numerical modeling of microstructural evolution in three-phase polycrystalline materials", *African MRS 4th international conference in Dar Es Salam*, 10-14 December, 2007, University of Dar Es Salam, Dar Es Salam, Tanzania.
- 79- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, "Temperature stress effects on optical nonlinear waveguide sensor", *International Symposium on Optomechatronic Technologies ISOT 2007*, 8-10 October 2007, Beaulieu, Lausanne, Switzerland.
- 80- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, "Double-Negative Metamaterial Optical waveguide Behavior Subjected to Stress", *Second Physics Conference 2007*, 7-8 May 2007, An-Najah National University, Nablus, Palestine.
- 81- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, "Temperature Stress Effects On Optical Nonlinear Waveguide Sensor", *XI International Conference on Physics and Technology of Thin Films (ICPTTF-XI)*, 7-12 May 2007, Ivano-Frankivsk, Ukraine.
- 82- Galia Abu Tair, Mohammed M. Shabat, Mazen M. Abadla, and Hala J. El-Khozondar, "Nonlinear optical symmetrical waveguide sensors: thermal effects", *International Second conference for Science and Development*, 6-9 March 2007, Islamic University of Gaza, Gaza, Palestine.
- 83- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, and Alexander W. Koch, "Stress effect on optical nonlinear Waveguide sensor", *Sensors conference 2007 Proceeding I*, 22 – 24 May 2007, Nürnberg, Germany.
- 84- Hala J. El-Khozondar, Rifa J. El-Khozondar, Mohammed M. Shabat, "Temperature and Stress Effects on Optical Nonlinear Waveguide sensors", *Proceedings of SPIE Volume: 6716*, pp.6716B-, 2007.
- 85- Rifa J. El-Khozondar, Hala J. El-Khozondar, "Numerical modeling of microstructural evolution in three-phase polycrystals", *1st International Conference in Laser Science, Engineering & its Applications*, 22-26 January 2007, Khartoum, Sudan.
- 86- Hala J. El-Khozondar, Rafiq El-Saifi, Mohammed M. Shabat, "Band Reject Filter for Optical Frequencies Using Periodic and Nonlinear Media", *Winter School on Optical Sciences, ETH Zurich*, Switzerland, 25 February – 2 March 2007 Crimea, Ukraine, October 1-6, 2007. *International Symposium on Microwave and Optical Technology*, Monte ProzioCatone, Rome, Italy, 17-21 December 2007
- 87- Hala El-Khozondar," Students evaluations: University of Michigan", The third quality assurance day at the Islamic University of Gaza, 20 May 2006, Islamic University of Gaza, Gaza, Palestine.

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- 88- Rafiq El-Saifi, Hala J. El-Khozondar, Mohammed M. Shabat, "Band reject filter of a periodic dielectric film bounded by a nonlinear cladding", *The first international conference of natural and applied sciences*, 23-24 May 2006, Al-Aqsa University, Gaza, Palestine.
- 89- Hala J. El-Khozondar, "Band Reject Filter for Optical Frequencies Using Periodic and Nonlinear Media", *The Four Corners Section Meeting (4CF05)*, October 14-15, 2005, University of Colorado at Boulder, USA.
- 90- Hala J. El-Khozondar, Rifa J. El-Khozondar, Tom Shay, "Erbium Doped Fiber as nonlinear switching (Optical Switches)", *The XXV conference on solid state physics and material sciences & workshop on photonic materials and optoelectronic devices (II)*, 6-10 March 2005, Luxor, Egypt.
- 91- Rifa J. El-Khozondar, Hala J. El-Khozondar, Gutner. Gottstein, Antony Rollet, "Microstructural Evolution of Grain Growth in Two Phase Polycrystalline Materials", *The XXV conference on solid state physics and material sciences & workshop on photonic materials and optoelectronic devices (II)*, 6-10 March 2005, Luxor, Egypt.
- 92- Rafiq El-Saifi, Hala J. El-Khozondar, Mohammed M. Shabat, "Nonlinear Surface Wave Guided by a Periodic Medium", *The First International Conference of Science and Development (ICSD-I)*, 1-3 March 2005, Islamic University of Gaza, Gaza, Palestine.
- 93- Hala J. El-Khozondar, "Industrial Engineering Self Evaluation Report", *Evaluating the self-evaluation report for the engineering faculty workshop*, June 2004, Islamic University of Gaza, Gaza, Palestine.
- 94- Hala J. El-Khozondar, Rifa J. El-Khozondar, "Studio Teaching as active teaching method to develop self-study skills at local university students", *The forth conference, the role of the universities in development*, 3-5 May 2004, Al-Aqsa University, Gaza, Palestine.
- 95- Rifa J. El-Khozondar, Hala J. El-Khozondar, "Numerical Simulations of Coarsening of Lamellar Structures", *The XXIV Conference on Solid State Physics and Material Science and Workshop on Photonic Materials and Optoelectronic Devices*, 22-26 February 2004, Safaga, Red Sea, Egypt.
- 96- Hala J.El-Khozondar, Rafiq El-Safi, Mohammed M. Shabat "Nonlinear surface waves along a single interface of periodic medium", *13th International Laser Physics*, http://www.maik.ru/contents/lasphys/lasphys12_4v14cont.htm, vo.14, no.12, pp.1539-1543, 2004
- 97- El-Khozondar, R., & El-Khozondar, H., "Numerical Simulations of Discontinuous Coarsening of Lamellar Structure in TiAl/Ti₃Al Alloy", *The International Conference of Engineering and City Development*, 22-23 September 2003, Islamic University of Gaza, Gaza, Palestine.

- 98- Rifa J. El-Khozondar, Hala J. El-Khozondar, "Numerical Simulations of Coarsening of Lamellar Structures: Applications to metallic alloys", *Mat. Res. Soc. Symp. Proc. MRS meeting*, Fall 2002, San Francisco, CA, USA.
- 99- Rifa J. El-Khozondar, Hala J. El-Khozondar, "Numerical Simulations of Discontinuous Coarsening of Lamellar Structure in TiAl/Ti₃Al Alloy", *Conference on computational physics 2002*, 25-28 August 2002, San Dieage, California, USA.
- 100- Hala J. El-Khozondar, Matthias Burkardt, "Model for Mesons in Collinear QCD", *Four Corners Section Spring Meeting*, 3-4 April 1998, Albuquerque, New Mexico, USA.
- 101- Mattias Burkardt, Hala J. El-Khozondar, "A (3+1)-Dimensional LF Model with Spontaneous Chiral Symmetry Breaking", *Proceedings New Non-perturbative Methods and Quantization on the Light Cone Conference*. 24 February- 7 March, 1997, Les Houches, France.
- 102- Hala J. El-Khozondar, "Introduction to Chiral Symmetry breaking", *HUGS at CEBAF (TJNAF NOW) 1996*; June 1996; Hampton University, Hampton, VA, USA.

Training courses attended

1. British council eLearning workshop, 10 academic credit points, level 3, under Middlesex academic credit scheme, 2004.
2. Designing learning objects using flash, 24 hours, Islamic University of Gaza in collaboration with academic affairs from 8 July to 2 August 2007.
3. Latex, 20 hours, 27 April to 20 May 2003, Academic Affairs, Islamic University of Gaza.
4. Project proposal development using the logical framework approach (LFA), 14 hours, 22-23 March 2006, community services and continuing education, Islamic University of Gaza.
5. MathType, 20 hours, 21-25 June 2003, Academic Affairs, Islamic University of Gaza.
6. Designing E-courses using Moodle, 18 hours, 30 June to 11 July 2007, Quality Unit, Islamic University of Gaza.
7. Faculty training for WebCT design, 11 to 29 October 2003, Academic Affairs, Islamic University of Gaza.
8. Academic Programs evaluations, 24 hours, 1-9 February 2003, Planning and development Deanship, Islamic University of Gaza.
9. Preparing academic subject evaluator, 30 hours, 24-28 January 2004, Quality Unit, , Islamic University of Gaza.

Talks given

2. دور مؤسسات المجتمع المدني في رعاية الشباب: رؤية مستقبلية-بيت حانون نموذجاً" ، المؤتمر الرابع لبلدية بيت حانون: الشباب والتنمية في بيت حانون، بلدية بيت حانون، غزة، فلسطين، 30 مارس 2016.
3. سبل الحصول عل المنح الدراسية وطريقة كتابة ال CV بإبداع، يوم دارسي بإدارة النادي العلمي، كلية العلوم، الجامعة الاسلامية، وبالتعاون مع جميعة أوروبا الخريجي الفيزياء، غزة، 24 فبراير 2016.

4. دور الريادة في التنمية المجتمعية" المؤتمر العلمي الخامس الموسوم ب (الريادة والابداع في تطوير الأعمال الصغيرة) Entrepreneurship & creativity in small business development ، كلية التجارة ، الجامعة الاسلامية، غزة ، 5-6 مايو 2015.
5. Coupling Efficiency of Metamaterial Magneto-optical Integrated Isolator, SENSOR+TEST Conference 2009 with SENSOR 2009, OPTO 2009, IRS² 2009; 26 - 28.05.2009; Nürnberg, Germany.
6. Polarization rotation in single-mode fibers; yearly three days seminar of Institute for measurement systems and sensor technology, Technical University Munich; 22-24 July, 2009; Munich, Germany.
7. تنمية دور الأستاذ الجامعي لتوافق التطور الأكاديمي، اليوم الدراسي الثالث حول الأستاذ الجامعي وقضايا الجودة في الجامعات الفلسطينية، 20 مايو 2006، الجامعة الاسلامية غزة
8. نتائج التقييم الذاتي لبرنامج الهندسة الصناعية ، يوم دراسي خاص بعرض نتائج التقييم الذاتي لكلية الهندسة ، 21 يونيو، 2004، الجامعة الاسلامية، غزة
9. تقييم الطالب لأداء المدرس (تجربة جامعة ميتشجان)، اليوم العلمي الثاني حول التقييم في الجامعة، الجامعة الاسلامية، غزة، 22-مايو-2005
10. عامل التأثير ، ورشة عمل نظمها شئون البحث العلمي والدراسات العليا في الجامعة الاسلامية بعنوان النشر العلمي الدولي والتشاركي، 18 أكتوبر 2013 .
11. معوقات الشراكة بين البحث العلمي والقطاع الخاص، ورشة عمل نظمها شئون البحث العلمي والدراسات العليا في الجامعة الاسلامية بعنوان المؤسسات الأكاديمية والقطاع الخاص (نحو الشراكة والتكامل)، 10 فبراير 2014.
12. AvH-Experience and Women Activity, first AvH-Club Workshop titled Sustainable development and Higher Education in Palestine (Greening the Education), 20-21 April, 2014.
13. The sensitivity of LH-antiferromagnetic waveguide sensors, The fifth International Conference for Sciences and development, 25-26 November 2014, Science faculty, Islamic University of Gaza, Gaza, Palestine.
14. Microwave Propagation at the interface between Nonlinear MTMs and Anisotropic Materials, META'13, the 4th International Conference on Metamaterials, Photonic Crystals and Plasmonics, Sharjah, United Arab Emirates, March 18 - 22, 2013, <http://meta13.metaconferences.org>
15. Slow surface Waves at the interface between MTMs and Ferrite in composite structure ,The Second International Conference on Basic & Applied Sciences, 9-11 October 2012, Al-Azher University, Gaza, Palestine.
16. Optical Measurements of Two-Layer System Considering Chromatic correction, Third Palestinian conference on Modern Trends in Mathematics and Physic, 16-18 July 2012, Polytechnic University-Hebron-Palestine.
17. Nonlinear Resonant Tunnelling Diode (RTD) circuits for microwave A/D conversion, ICSM2012, Kumburgaz-Istanbul/Turkey between 29 April -4 May 2012. <http://www.icsm2012.org//conference/act.php?key=4e92b420269c7> .
18. Surface waves at the interface between tunable LC-MTMs and Nonlinear media, META'12, the 3rd International Conference on Metamaterials, Photonic Crystals and Plasmonics, Paris, France, April 19 - 22, 2012, <http://meta12.metaconferences.org>
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 25. Model to Study the Effect of Electromagnetic Waves Produced by Mobile Phone Base Station on human body Tissue, The First International Conference on Basic & Applied Sciences (ICBAS), 10-12 October 2010, Al-Azher University, Gaza, Palestine.
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 31. Twist Effect on Polarization Maintaining fiber, German-Middle East International Conference, 10-11 May 2009, Amman, Jordan .

Trainer for the following courses

1. Searching skills for scholarships, 15 hours, 1-10 January 2011, new graduates, community services and continuing education, Islamic University of Gaza.
2. Technical English course, 50 hours, 7 January-22 March 2008, IT workers, community services and continuing education, Islamic University of Gaza.

Community service

قيادة فعاليات أورا للفيزياء (محاضرات علمية وعملية عن كيفية التحكم بالنفس وكتابة السيرة الذاتية)
محاضرات عن كتابة السيرة الذاتية ومقترح علمي في معهد التنمية المجتمعية

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