**Curriculum Vitae**

Prof. Mohamad Saleh AlSalhi
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**Professionals**

**Professor and Head, Department of Physics and Astronomy,**
**Head, Research Chair for Laser Diagnosis of Cancer**,
Department of Physics and Astronomy,
King Saud University, College of Science
P.O. Box 2455, Riyadh 11451
Kingdom of Saudi Arabia.

**Academic qualifications**

Doctor of Philosophy in laser from Hull University , England, 1988, Semiconductor laser.

M. Sc., in laser from Essex University, England, 1984, Laser and their Applications.

B. Sc., in Physics from King Saud University, Riyadh, Kingdom of Saudi Arabia, 1982.

**Research Areas**

Quantum Optics – Laser Physics and Applications- Nanophysics

Absorption and fluorescence spectrophotometers

Optical Biopsy of Cancer diagnosis

Spectral Diagnosis of Hemoglobinopathies

**Position held on**

**Head, Department of Physics and Astronomy 2017- present**

Head chair of laser Diagnosis of Cancer 2009 – present

Vice Dean of King Abdullah Institute for Nanotechnology ( KAIN) 2009- 2011

Head of Physics and Astronomy Dept, 2000- 2004

Member of college of science council 2000- 2004

Associate professor in the department of Physics, college of science, King Saud university, 2003.

Assistant Professor in the Department of Physics, college of science, King Saud university, 1988-2003.

Demonstrator in the Department of Physics Dept, college of science, King Saud University, 1981-1982.

**Academic Committies**

Member of the following Committees: University Community week in college of science Safety and Security in college of science Higher studies in Physics Department

**Teaching Experience**

I thought different undergraduate courses: general Physics, classical mechanics, mathematical physics, Optics, Electromagnetic Theory, Modern physics, solid state, laser physics

**Master courses** : Advanced laser Physics, Laser Applications, Atomic and Molecular Spectroscopy Supervised many third year projects

**Research Experience**

1 .**List of Translated books:** I have translated the following books in Arabic with the help of other colleagues

- Laser Principles and Applications by Wilson/ Hawkes
- Elementary Solid State Physics by M. Ali. Omer
- Introduction to Optics by F. L. Pedrotti and J. Pedrotti
- Two books in nanotechnology under preparation

- ZnO nanostructures toxicity and phototoxicity characteristics towards biological samples; M. Willander, O. Nur, M. Fakhr-e-Alam, M. Atif, and M. S. AlSalhi. Book Chapter Zinc Oxide Nanostructures : Advances and Applications 2013 by Pan Stanford Publishing

- Nano-Insecticides for the Control of Human and Crop Pests". K Murugan, Chandrasekar Raman, C Panneerselvam, P Madhiyazhagan, J Subramanium, D Dinesh, Jiang-Shiou Hwang, Jiang Wei, **M. S. AlSalhi,** S Devanesan" Book:Short Views on Insect Genomics and Proteomics. 229-251. Publisher: Springer International Publishing

**2. Supervising Master Thesis**

**Main Supervisor**

1. Preparence and Planning for Radioactive materials accident, completed 2003.

2. Laser Radiation effects on the performance of Silicon Solar Cells, completed 2004.

3. The optical characteristics of 5-Aminolevulnic acid used in the treatment of Cancer, completed 2005.

4. Biophysical Characteristic of Blood Upon irradiation with low power He-Ne laser, completed 2005.

5. Laser radiation Effects on Growth of Wheat, completed 2006.

6. Optical diagnosis of patients' blood sickle cells, completed 2007.

7. Laser Photodynamic Damage and native autofluorescence of some concerned cell lines, completed 2008.

8. Identification of automobile petrol adulteration by using optical methods, completed 2008.

9. Amplified spontaneous emission from conjugated MEH-PPV Polymer, completed 2008.

10. Spectral properties and laser emission from conjugated PDEHF-PPV polymer, completed 2009.

11. Gain and Amplified spontaneous emission properties of MDMO-PPV conjugated polymer, 2011.

**Co-Supervisor**

1. Detection of Cancer By Optical Methods, completed 2003.

2. The effect of neutron irradiation on the Characteristics of Vertical cavity semiconductor laser, completed 2004.

3. Spectral Properties of Cancer Patients Blood, completed 2004.

**Workshops and Meetings**

- Workshop in ( Nano and Micro Technology), Arab school of science and technology , Syria, Damascus, 11-14/10/ 2003.
- First Scientific Meeting of Saudi Scientific Society of Physical Science 9-10/12/2003, King Khaled University, Abha, Saudi Arabia.
- Second Scientific Meeting of Saudi Scientific Society of Physical Sciences, 22-24/11/ 2005, Um Alqura University, Mecca, Saudi Arabia.

- Chinese Experience in nano-Industry, 26-28 /5/ 2008, King Saud University.
- Nanostructured Advanced Materials Workshop, 11-13 /11/ 2008, Jordan.
- One day training in" Manufacturing and study of Si nanoparticle characteristics" 3/4/6/2008 delivered by Prof Munir Nayfeh.

**Patent and Scientific Research Publications**

**List of Granted Patents**

**11.** V. Masilamani, **M.S.AlSalhi**, S.Devanesan Spectral Method For Quantifying Hemoglobin Fragility Caused By Smoking. Grant No: US 9726679 B2, Aug 2017

**10.** S. Prasad, **M.S. AlSalhi**, V. Masilamani. Temperature tuned conjugated polymer laser. Grant No: US 9698561 B1, Jul 2017

**9**. V. Masilamani, **M.S.AlSalhi**, Karim H. Farhat, Danny Rabah, S. Prasad, S.Devanesan "Method of detecting bladder cancer by optical analysis of bodily fluids" Grant No: US 9733187 B2, Aug 2017

**8. M. S. AlSalhi,** V. Masilamani, Farjah H. Gahtani "Method of detecting thalassemia by optical analysis of blood components. Grant No: US 9347885 B2, May,24,2016

**7.** Munir H Nayfeh, Matthew Stupka, Turki Al Saud, **M.S. AlSalhi.** Silicon nanoparticle photovoltaic devices. Grant No: US 9263600 B2, Feb, 02,2016

**6.** Al-Khalid Isam Zuhaier, **M. S. AlSalhi,** V. Masilamani, "Method for Enhancing the Shelf Life of Blood and Donor Blood by Laser Biostimulation" Grant No: US 9011766 B2. April 21, 2015

**5. M.S. AlSalhi,** Akram Ahmed Alfuraydi, S. Devanesan "Green Synthesis of Silver Nano Particles from Pimpinella Anisum Seed Extract" Grant No: US 9144544 B1, Sep 29,2015

**4**. V. Masilamani, **M. S. AlSalhi,** Danny M. Rabah "Method for Discriminating Between Benign and Malignant Prostate Tumors" Grant No: US 8213005 , B2. Jul 03, 2012.

**3**. V. Masilamani, M. Elangovan, **M. S. AlSalhi**, Abdulrahman Al-Diab. "Lung Cancer Detection by Optical Analysis of Body Fluids" Grant No: US 8,208, 142, B2 – June 26, 2012.

**2**. A.S. Aldwayyan, **M.S. AlSalhi**, A.M. Aldukhai, M. S. Alhoshan, M. N. Khan, G. K. AlChaar, Munir H. Nayfeh; "Organosilicon nanosilicon composites and fabrication methods",Grant No: US20100234204 A1 Sep- 2010

**1**. V. Masilamani, Danny Rabah, M. S. AlSalhi "A Laser Detector for Bladder Cancer by (photo dynamic) spectra of urine" Registered Feb 2014 (US)

**Submitted US Patent**

**3. M. S. AlSalhi, V.** Masilamani, M.Atif. Laser Measurement of Severity of Hemophilia. File No: 052017-00748 (13-5-2017)

2. **M. S. AlSalhi,** S. Devanesan. Antimicrobial Agent on Biologically Synthesized Silver Nanoparticles using Abelmoschus Esculentus Flower. Docket No. 32809.80

1. **M. S. AlSalhi,** S. Devanesan, Akram Ahmed Alfuraydi, Mysoon M.F. Al-Ansari. Green Synthesis of Silver Nanoparticles using Sesame (Sesamum indicum) Oil Cake and their use as Cytotoxins on MCF-7 Cell Line" : Docket No. 32809.55.

**List of Research Publications with ISI web Science Journals**

**2017**

**155.** SM El-Bashir, IS Yahia, MA Binhussain, MS AlSalhi**.** Design of Rose Bengal/FTO Optical Thin Film System as a Novel Nonlinear Media for Infrared Blocking Windows. Results in Physics. 7;(2017): 852-1858.

**154**. A.A.Yousef, **M. S AlSalhi,** A. A. Elbadawi, Eltayeb M Mustafa. Synthesis and Study of the Effect of Ba2+ Cations Substitution with Sr2+ Cations on Structural and Optical Properties of Ba2− xSrxZnWO6 Double Perovskite Oxides (x= 0.00, 0.25, 0.50, 0.75, 1.00). Materials.10(5);(2017):469.

**153.** KH Ibnaouf, MKM Ali, AO Elzupir, MA Ibrahem, H Idriss, AS Alaamer, MA Alrajhi, **M.S. AlSalhi.** Spectral and ase properties of an amino chalcone 1-(4-chlorophenyl)-3-(4-n, n dimethylamino phenyl)-2-propen-1-one. Digest journal of nanomaterials and biostructures. 12(2);(2017):423-430.

**152.** V. Masilamani, H.M Ghaithan, Mamduh J Aljaafreh, A. Ahmed, Reem al Thagafi, S. Prasad, **M. S Alsalhi.** Using a Spectrofluorometer for Resonance Raman Spectra of Organic Molecules. Journal of Spectroscopy.2017(4289830);(2017):1-6.

**151**. R. Saranya, R Azhagu Raj, **MS AlSalhi**, S Devanesan. Dependence of Catalytic Activity of Nanocrystalline Nickel Ferrite on Its Structural, Morphological, Optical, and Magnetic Properties in Aerobic Oxidation of Benzyl Alcohol. Journal of Superconductivity and Novel Magnetism. 30(12); (2017): 1-6.

**150.** S. Devanesan, M. AlShebly, R. Kalaivani, K. Sivaji, K. Farhat, **M.S. AlSalhi**, M. AlAtawi, D. Rabah, V. Masilamani. Fluorescence spectral features of blood components of pregnant women. Current Science, 113 (3); (2017):457-461.

**149.** K. Murugan, J. Anitha, U. Suresh, R. Rajaganesh, C. Panneerselvam, A. Aziz, Li-Chun ,K. Kalimuthu, **M. S. AlSalhi**, S. Devanesan, M. Nicoletti, S. Sarkar, G. Benelli, Jiang-Shiou. Chitosan-

fabricated Ag nanoparticles and larvivorous fishes: a novel route to control the coastal malaria vector Anopheles sundaicus?. Hydrobiologia. 797 (1); (2017): 335–350.

**148.** G. Benelli, M. Govindarajan, **Mohamad S. AlSalhi**, S. Devanesan, F. Maggi . High toxicity of camphene and γ-elemene from Wedelia prostrata essential oil against larvae of Spodoptera litura (Lepidoptera: Noctuidae). Environmental Science and Pollution Research. 24 (31); (2017): 1-7.

**147.** R. Azhagu Raja, **M.S. AlSalhi**, S.Devanesan. Microwave-Assisted Synthesis of Nickel Oxide Nanoparticles Using Coriandrum sativum Leaf Extract and Their Structural-Magnetic Catalytic Properties. Materials 10(5); (2017) 460, 1-8.

**146**. YA Alsabah, **M.S. AlSalhi,** AA Elbadawi, EM Mustafa. Influence of Zn 2+ and Ni 2+ cations on the structural and optical properties of Ba 2 Zn 1− x Ni x WO 6 (0≤ x≤ 1) tungsten double perovskites. Journal of Alloys and Compounds 701(2017): 797-805

**145.** SM El-Bashir, IS Yahia, MA Binhussain, **M.S. AlSalhi.** Designing of PVA/Rose Bengal Long-Pass Optical Window Applications. Results in Physics. 7(2017):1238–1244

**144**. Sara A.A. S.Prasad Wafa Al-Mujammi, D.Devaraj, V. Masilamani, **M.S. AlSalhi**. An Efficient Violet Amplified Spontaneous Emission (ASE) from a Conjugated Polymer (PFO-co-pX) in Solution. Materials, 10 (3) (2017): 265.

**143.** RA Abumosa, BA Al-Asbahi, **M.S. AlSalhi.** Optical Properties and Amplified Spontaneous Emission of Novel MDMO-PPV/C500 Hybrid. Polymers, 9 (2), (2017): 71.

**142.** SM El-Bashir, WK Alenazi, **M.S. AlSalhi** . Optical dispersion parameters and stability of poly (9, 9'-di-n-octylfluorenyl-2.7-diyl)/ZnO nanohybrid films: towards organic photovoltaic applications. Materials Research Express, 4 (2), (2017): 025503.

**141**. **M.S. Alsalhi**, MR Baig, K Alfaramawi, MG Alrasheedi .Influence of alpha irradiation on pre and post solar exposed PM-355 polymeric nuclear track detector sheets. Radiation Physics and Chemistry, 130 (2017): 451-458

**140.** S Prasad, HS AlHesseny, **M.S. AlSalhi,** D Devaraj, V Masilamai A high power, frequency tunable colloidal quantum dot (cdse/zns) laser. Nanomaterials, 7 (2) (2017): 29.

**139**. Mohammad Qaid, **M.S.AlSalhi.** High aspect ratio and low leakage current carbon nanosheets based high-k nanostructure for energy storage applications. Microelectronic Engineering. 169 (2017):1-8.

**138**. S. Devanesan, **Mohamad S. AlSalhi,** R. Vishnubalaji, Akram A. Alfuraydi, Nehad M. Alajez, Musaad Alfayez,K. Murugan, Shaban R. M. Sayed, Marcello Nicoletti,Giovanni Benelli. Rapid Biological Synthesis of Silver Nanoparticles Using Plant Seed Extracts and Their Cytotoxicity on Colorectal Cancer Cell Lines. Journal of cluster Science. 28(1); (2017): 595-605

**137.** K. Murugan, D. Dinesh,M. Paulpandi, J. Subramaniam, R. RakeshPandiyan, C. Panneerselvam,U. Suresh, C. Vadivalagan, **M. S. Alsalhi,** S. Devanesan, Hui Wei, Akon Higuchi, M. Nicoletti, A. Canale, G. Benelli. Mangrove Helps: Sonneratia alba-Synthesized Silver Nanoparticles Magnify Guppy Fish Predation Against Aedes aegypti Young Instars and Down-Regulate the Expression of Envelope (E) Gene in Dengue Virus (Serotype DEN-2). Journal of cluster Science. 28(1); (2017):1-8.

**136. M.S AlSalhi,** MR Baig, K Alfaramawi, Mariam G Alrasheedi. Influence of alpha irradiation on pre and post solar exposed PM-355 polymeric nuclear track detector sheets. Radiation Physics and Chemistry. 130(2017): 451-458.

**135.** K. Murugan, Jiang Wei, **M. S. AlSalhi,** M. Nicoletti, M. Paulpandi, J. Subramaniam, C. Vadivalagan, Hui Wei, P. Amuthavalli, A. Jaganathan, S. Devanesan, D. Nataraj, B. Vaseeharan, A. Canale, G. Benelli. Magnetic nanoparticles are highly toxic to chloroquine-resistant Plasmodium falciparum, dengue virus (DEN-2), and their mosquito vectors. Parasitology Research, 116 (2); (2017): 495–502.

**2016**

**134**. K. Murugan, J. Anitha, J. Subramaniam, J-S. Hwang, Hui Wei, **M.S. AlSalhi,** S. Devanesan, Suresh Kumar, K. Pugazhendy, M. Nicoletti, G. Benelli. Fabrication of nano-mosquitocides using chitosan from crab shells: impact on non-target organisms in the aquatic environment. Ecotoxicology and Environmental Safety. 132;(2016): 318-328.

**133.** Wafa Musa Mujamammi, S. Prasad, **M.S AlSalhi,** V. Masilamani. Relaxation Oscillation with Picosecond Spikes in a Conjugated Polymer Laser. Polymers 8;10 (2016):364.

**132**. P. Madhiyazhagan, K. Murugan, A.Naresh Kumar, T. Nataraj, J.Subramaniam, M. Nicoletti, **M.S. AlSalhi,** S. Devanesan, G.Benelli. One pot synthesis of silver nanocrystals using the seaweed Gracilaria edulis: biophysical characterization and potential against the filariasis vector Culex quinquefasciatus and the midge Chironomus circumdatus. Journal of Applied Phycology,(2016): DOI: 10.1007/s10811-016-0953-x.

**131**. K. Murugan, J.Anitha, D.Dinesh, U.Suresh, R. Rajaganesh, Jiang-Shiou Hwang, Hui Wei, **M.S. AlSalhi,** S. Devanesan, Giovanni Benelli. Fabrication of nano-mosquitocides using chitosan from crab shells: impact on non-target organisms in the aquatic environment. Ecotoxicology and Environmental Safety,132,(2016): 318-328.

**130**. Hajo Idriss, Kamal K Taha, O Aldaghri, R Alhathlool, **M.S. AlSalhi**, KH Ibnaouf. Amplified spontaneous emission from the exciplex state of a conjugated polymer “PFO” in oleic acid. Optics & Laser Technology,83 (2016):148-152.

**129**. Bandar Ali Al-Asbahi, Mohammad Hafizuddin Haji Jumali, **M. S. AlSalhi**. Enhanced Optoelectronic Properties of PFO/Fluorol 7GA Hybrid Light Emitting Diodes via Additions of TiO2 Nanoparticles. Polymers, 8(9),(2016): 334-340.

**128.** **M. S. Alsalhi,** S. Devanesan, Akram A Alfuraydi, R. Vishnubalaji, A.M. Murugan, K. Murugan, M. Nicoletti, G. Benelli. Green synthesis of silver nanoparticles using Pimpinella anisum seeds: antimicrobial activity and cytotoxicity on human neonatal skin stromal cells and colon cancer cells. International journal of Nanomedicine,11, (2016): 4439–4449.

**127.** N Mohamed Basith, R Azhagu Raj, **M.S AlSalhi,** S Devanesan, SJ Askar Ali, S Rajasekar, R Sundaram, C Ragupathi. Structural, Magnetic, Optical, and Catalytic Properties of Fe3O4 Nanoparticles by the Sol-Gel Method. Journal of Superconductivity and Novel Magnetism. 29 (8), (2016): 2053–2058.

**126.** J.Subramaniam, K. Murugan, C. Panneerselvam, K. Kovendan, R. Rajaganesh, **M.S. AlSalhi,** S. Devanesan, M. Nicoletti, A. Canale, G. Benelli. Multipurpose effectiveness of Couroupita guianensis-synthesized gold nanoparticles: high antiplasmodial potential, field efficacy against malaria vectors and synergy with Aplocheilus lineatus predators. Environmental Science and Pollution Research,23(8),(2016):7543-7558.

**125.** K. Murugan, C. Panneerselvam, S.Christina Mary, M. Roni, B. Chandramohan, J. Subramaniam, M. S. AlSalhi, S. Devanesan, M. Nicoletti, R. Pavela, A. Canale, G. Benelli. In vivo and in vitro effectiveness of Azadirachta indica-synthesized silver nanocrystals against Plasmodium berghei and Plasmodium falciparum, and their potential against malaria mosquitoes. Research in veterinary science, 106 (6),(2016):14-22.

**124**. K Alfaramawi, MG Al-Rasheedi, MR Baig, **M. S Alsalhi.** Solar radiation-induced changes in optical characteristics of PM-355 polymeric films. Radiation Measurements,86(3),(2016):49-55.

**123.** M. H. Aziz, M Fakhar-e-Alam, M. Fatima, F. Shaheen, S. Iqbal, M Atif, M. Talha, S. Mansoor Ali, M.Afzal, Abdul Majid, T. S. Al-Harbi, M. Ismail, Z. M Wang, **M.S. AlSalhi.** Photodynamic Effect of Ni Nanotubes on an HeLa Cell Line. PloS one,11(3),(2016): e0150295.

**122.** C. Vadivalagan, P. Karthika, K. Murugan, C. Panneerselvam, M. Paulpandi, P. Madhiyazhagan, **M. S. AlSalhi,** S. Devanesan, Marcello Nicoletti, Giovanni Benelli. Genetic deviation in geographically close populations of the dengue vector Aedes aegypti (Diptera: Culicidae): influence of environmental barriers in South India. Parasitology Research, 115(3),(2016): 149-1160.

**121.** K. Murugan, D. Dinesh, K. Kavithaa, M. Paulpandi, T. Ponraj, **M.S. Alsalhi,** S. Devanesan, J. Subramaniam, R. Rajaganesh, Hui Wei, Suresh Kumar, Marcello Nicoletti, G. Benelli Hydrothermal synthesis of titanium dioxide nanoparticles: mosquitocidal potential and anticancer activity on human breast cancer cells (MCF-7). Parasitology Research, 115(3),(2016): 1085-1096.

**120.** K. Murugan, D. Nataraj, P. Madhiyazhagan, V.Sujitha, B. Chandramohan, J. Subramaniam, Hui Wei, Ban Syuhei, **M.S. AlSalhi**, S. Devanesan, G. Benelli.Carbon and silver nanoparticles in the fight against the filariasis vector Culex quinquefasciatus: genotoxicity and impact on

behavioral traits of non-target aquatic organisms. Parasitology Research, 115(3), (2016): 1071-1083.

**119.** B. Chandramohan, K. Murugan, C.Panneerselvam, P.Madhiyazhagan, D. Dinesh, **M. S. AlSalhi**, S.Devanesan, Hui Wei, Giovanni Benelli. Characterization and mosquitocidal potential of neem cake-synthesized silver nanoparticles: genotoxicity and impact on predation efficiency of mosquito natural enemies. Parasitology Research, 115(3), (2016): 1015-1025.

**118.** A. Alyamani, K.H. Ibnaouf, O.A. Yassin, **M.S. AlSalhi,** Z .Fekkai, N. Mustapha. Spectral, electrical and morphological properties of spin coated MEH-PPV and cresyl violet blended thin films for a light emitting diode. Optik-International Journal for Light and Electron Optics, 127(4),(2016): 2331-2335.

**117.** V. Masilamani, Khalid AlZahrani, S. Devanesan, Qadi AlQahtani, **M.S. AlSalhi**. Smoking Induced Hemolysis: Spectral and microscopic investigations. Scientific Reports, (6), 2016: 21095.

**116.** P. Mahesh Kumar, K. Murugan, P.Madhiyazhagan, K. Kovendan, D. Amerasan, B. Chandramohan, D. Dinesh, **M. S. AlSalhi**, S.Devanesan, Hui Wei, Giovanni Benelli. Biosynthesis, characterization, and acute toxicity of Berberis tinctoria-fabricated silver nanoparticles against the Asian tiger mosquito, Aedes albopictus, and the mosquito predators Toxorhynchites splendens and Mesocyclops thermocyclopoides. Parasitology Research, 115 (2), (2016):751-759

**115.** K.Murugan, P.Aruna, C. Panneerselvam, P.Madhiyazhagan, M.Paulpandi, J. Subramaniam, **M.S. AlSalhi,** S. Devanesan, M. Nicoletti, Giovanni Benelli. Fighting arboviral diseases: low toxicity on mammalian cells, dengue growth inhibition (in vitro) and mosquitocidal activity of Centroceras clavulatum-synthesized silver nanoparticles. Parasitology Research, 115 (2),(2016),: 651-662.

**114.** K. Murugan, C. Vadivalagan, P. Karthika, C.Panneerselvam, M.Paulpandi, J. Subramaniam, **M. S. AlSalhi,** S Devanesan, N Parajulee, G Benelli. DNA barcoding and molecular evolution of mosquito vectors of medical and veterinary importance. Parasitology Research, 115(1),(2016): 107-121

2015

**113.** Saradh Prasad, KH Ibnaouf, **MS AlSalhi,** D Devaraj, V Masilamani. High power amplified spontaneous emission from an oligomer in solution. Journal of Luminescence,168 (2015):109-113.

**112.** Al-Khalid Isam Zuhaier, K. Mohammad, S.Devanesan, **M. S. AlSalhi,** S. Prasad, V. Masilamani. Shelf-life enhancement of donor blood by He–Ne laser biostimulation. Current Science, 109, (6), (2015): 1151-1154.

**111**. Saradh Prasad, K. H. Ibnaouf , **M. S. AlSalhi**, Kamal Alameh , D. Devaraj, A. Hamdan, M. R. Karim, M. B. Zaman, and V. Masilamani. Laser from Optically Pumped Quantum Dot CdSe/ZnS in a Colloidal Liquid. Journal of Nanoscience and Nanotechnology 15, (9) , (2015): 6710-6713.

2014

**110**. W. A. Farooq, M. Atif, W.Tawfik, **M.S. AlSalhi,** Z.A. Alahmed, M. Sarfraz, J.P. Singh. PLASMA SCIENCE & TECHNOLOGY, 16 (12), (2014): 1141-1146.

**109**. W.A. Farooq, S.M .Ali, W. Tawfik, F. Amanullah, M.Aslam, A.S.A. Dwayyan, **M.S. AlSalhi.** Influence of Laser Irradiation on the Optical Properties of Nano-Sized Powder of Metal Oxide. Russian Journal Of Physical Chemistry A 88, (13), (2014): 2446-2450.

**108**. M. Atif, **M. S. AlSalhi,** S. Devanesan, V. Masilamani, Spectral characteristics of Breast Cancer, IEEE, (2014) 199-201.

**107**. Z.H Ibupoto, S.Elhag, **M.S.AlSalhi,** Nur Omer,M. Willander "Effect of Urea on the Morphology of Co3O4 Nanostructures and Their Application for Potentiometric Glucose Biosensor" ELECTROANALYSIS,26(8),2014): 1773-1781

**106**.M.Atif, **M.S AlSalhi,** K. Khun, M. Willander "The synthesis and optical characterization of well aligned ZnO nanorods using seed layer of Mn3O4 nanoparticles" Optoelectronics And Advanced Materials, 8 (7-8) (2014): 643-646

**105**. V. Masilamani, S.Devanesan, M. Ravikumar, K. Perinbam,**M.S. AlSalhi,** S. Prasad, S. Palled, K.M. Ganesh, Abbas H.Saeed. "Fluorescence spectral diagnosis of malaria – a preliminary study. Diagnostic Pathology 19:182, (2014)1-6.

**104**. **M. S. AlSalhi,** M. Atif, S. Devanesan, K. Farhat, D. Rabah V. Masilamani, Amera, Hassan Abol-Enein "Preliminary study of bladder cancer patients using spectral techniques" J Optoelectronics And Advanced Materials, 16,(9-10), (2014):1191-1195

**103**. R.Kalaivani, V. Masilamani, **M.S. AlSalhi,** S.Devanesan, P.Ramamurthy S. Palled, K.M. Ganesh "Cervical Cancer detection by Time Resolved Spectra of blood components" Journal of Biomedical Optics 19 (5), (2014): 057011-16

**102**. S. Devanesan, **M.S. AlSalhi,** M. Ravikumar, K. Perinbam,S. Prasad, Abbas, S.R. Palled, K. Jeyaprakash, V. Masilamani "Fluorescence spectral classification of iron deficiency anemia and thalassemia" Journal of Biomedical Optics 19(2), (2014):

**101**. **M.S. AlSalhi,** F.H.Algahtani, S. Devanesan V.T.Vijmasi, K. Jeyaprakash, A.H. Alsaeed, V. Masilamani. Spectral detection of thalassemia: a preliminary study. J Biomedical Science. 21(1),(2014) 26-30

**100**. S. M. El-Bashir, Q.A. AlHarbi, **M.S. AlSalhi,** Optimal design for extending the lifetime of thin film luminescent solar concentrators.OPTIK 125 (18), (2014) 5268-5272

**99**. M .Qaid, B. Put, D.J .Cott, **M.S.AlSalhi**, A. Stesmans, P.M. Vereecken, I.P.Radu "Large Area Carbon Nanosheet Capacitors" Ecs Solid State Letters, 3 (3 ) (2014): 8-10

**98**. Z.H Ibupoto, M.A Abbasi, X .Liu, **M.S AlSalhi**, M. Willander "The Synthesis of NiO/TiO2 Heterostructures and Their Valence Band Offset Determination" Journal Of Nanomaterials Article Number: 928658 2014

**97**. S. Prasad, K.H. Ibnaouf, **M.S. Alsalhi**, V. Masilamani "Laser from the dimer state of a conjugated polymer (PFO) in solution" Polymer (United Kingdom) 55(3), (2014): 727-732

**96**. K.H. Ibnaouf, S.Prasad, A. Hamdan, M.S. Alsalhi, A.S. Aldwayyan, M.B. Zaman, V. Masilamani "Photoluminescence spectra of CdSe/ZnS quantum dots in solution" Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy" 121 ( 2014), 339-345

**95.** S.M. El-Bashir, F.M. Barakat, **M.S. AlSalhi** " Double layered plasmonic thin-film luminescent solar concentrators based on polycarbonate supports" Renewable Energy 63 (2014), Pages 642-649

2013

**94.** V. Masilamani, B. B. Das, J. Secor**, M.S. AlSalhi,** S. Devanesan, S. Prasad, D. Rabah, R. R. Alfano "Optical Biopsy of Benign and Malignant Tissue by Time Resolved Spectroscopy" Technology in Cancer Research and Treatment, 12(6),( 2013), 559-563

**93.** K**.** Khun, Z.H. Ibupoto, **M.S. AlSalhi,** M. Atif, A.A. Ansari, M. Willander "Fabrication of well-aligned ZnO nanorods using a composite seed layer of ZnO nanoparticles and chitosan polymer" Materials 6(10), (2013) , 4361-4374

**92.** . Z.H. Ibupoto, K. Khun, M. Eriksson, M.S. AlSalhi, M. Atif, A. Ansari, M. Willander "Hydrothermal growth of vertically aligned ZnO nanorods using a biocomposite seed layer of ZnO nanoparticles" Materials 6(8), (2013), 3584-3597

**91.** M.A. Majeed Khan, S.B, Kumar, **M.S. AlSalhi** "Synthesis and characteristics of spray deposited CuInS2 nanocrystals thin films for photovoltaic applications" Materials Research Bulletin, 48,(2013) 4277-4282

**90.** M.H.H. Jumali, B.A. Al-Asbahi, C.C .Yap, M.M. Salleh, **M.S AlSalhi** "Optical properties of poly(9,9'-di-n-octylfluorenyl-2.7-diyl)/amorphous SiO2nanocomposite thin films" Sains Malaysiana, 42 (2013) 1151-1157

**89.** S.M El-Bashir, F.M. Barakat**, M.S. Alsalhi "**Metal-enhanced fluorescence of mixed coumarin dyes by silver and gold nanoparticles: Towards plasmonic thin-film luminescent solar concentrator" Journal of Luminescence, 143 (2013) 43-49

**88.** V. Masilamani, **M.S. AlSalhi,** S. Devanesan, F.H. AlGahtani, K.M. Abu-Salah, I. Ahamad, P. Agastian "Spectral detection of sickle cell anemia and thalassemia" Photodiagnosis and Photodynamic Therapy , 10(4), (2013), 429-433

**87**. M.A. Majeed Khan, W.B. Khan, M. Ahamed, **M.S. Alsalhi,** T. Ahmed "Crystallite structural, electrical and luminescent characteristics of thin films of In2O3 nanocubes synthesized by spray pyrolysis" Electronic Materials Letters, 9(2013) 53-57

**86**. B.A. AlAsbahi, M.H.H. Jumali, C.C. Yap, M.M. Salleh, **M. S. AlSalhi**, "Inhibition of dark quenching by TiO2 nanoparticles content in novel PFO/Fluorol 7GA hybrid: A new role to improve OLED performance" Chemical Physics Letters, 570, ( 2013) 109–112

**85**. **M. S. AlSalhi**, M. Atif, Anees A. Ansaric, K. Khun, Z. H. Ibupoto, M. Willander "Growth and Characterization of ZnO nanowires for optical applications" Laser Physics 23,(2013) 065602.

**84**. K.H. Ibnaouf, Saradh Prasad, V. Masilamani, **M. S. AlSalhi**, N. Mustapha and A. Alyamani, Triple Amplified Spontaneous emissions from a Conjugated Copolymer BEHP-co-MEH-PPV in Solution, "Physica E ,53, (2013), 66-71

**83**. M .Atif, S. Devanesan, K. Farhat, D Rabah, **M .S AlSalhi**, V. Masilamani "Spectral features of the body fluids of patients with benign and malignant prostate tumors" Laser Phys. 23 (2013) 055602

**82**. K. H. Ibnaouf, S. Prasad, V. Masilamani, **M.S. AlSalhi**, "Evidence for Amplified Spontaneous Emission from Double Excimer of Conjugated Polymer (PDHF) in a Liquid Solution", Polymer 54 (2013) 2401-2405

**81.** Z.H. Ibupoto, K. Khun, Jun Lu, Xianjie Liu **, M.S. AlSalhi**, M. Atif, Anees A. Ansari, M. Willander, "Well aligned ZnO nanorods growth on the gold coated glass substrate by an aqueous chemical growth method using a seed layer of Fe3O4 and Co3O4 nanoparticles". J. Crystal Growth (2013); 368: 39–46

**80**. K. H. Ibnaouf, S. Prasad, V. Masilamani, **M.S. AlSalhi**, A.S Alaamer,"Evidence from the Double Excimer State of conjugated polymer in a liquid solution" J. Europ. Opt. Soc. Rap. Public. Vol 8 (2013), 13001

**79**. V. Masilamani, **M.S. AlSalhi**, S. Devanesan, M. Atif, D. Rabah, K. Farhat, Y. Pu, R.R. Alfano. "A parallelism between spectral grading and Gleason grading of malignant prostate tissues" Photodiagnosis and Photodynamic Therapy, 10(2), (2013), 168-172

2012

**78**. **M.S. AlSalhi**, M. Al Mehmadi, Ayman Assad Abdo, Prasad, V. Masilamani, "Diagnosis of Liver Cancer and Cirrhosis by the Fluorescence Spectra of Blood and Urine". Technology in Cancer Research and Treatment.(2012); 11,( 4):345-351

**77**. **M.S. AlSalhi** , K.H.Ibnaouf , V.Masilamani , O.A.Yassin. " Amplified spontaneous emission from the internal energy transfer process in the cow polymer BEHP-co-MEH-PPV". J. Luminescence (2012); 132: 484–490

**76**. V. Masilamani, **M. S. AlSalhi**, Vijmasi, K.Govindarajan, R. Rathan Rai, M. Atif, A. S. Aldwayyan, Fluorescence Spectra of blood and urine for cervical cancer detection Journal of Biomedical optics 17(9), 098001-6 (2012).

**75**. W. A. Farooq, F. N. Al-Mutairi, A. E. M. Khater, A. S. Al-Dwayyan, **M. S. AlSalhi**, M. Atif, (2012) Elemental Analysis of Fertilizer using Laser Induced Breakdown Spectroscopy Optics and Spectroscopy 112(6), 874-880.

**74**. K.H. Ibnaouf, S.Prasad, A.S. Aldwayyan, **M.S. AlSalhi**, V. Masilamani, "Amplified spontaneous emission spectra from the superexciplex of coumarin 138" Spectrochimica Acta Part A, Vol ( 97), 2012, 1145–1151.

**73**. **M. S. AlSalhi**, M. Atif, A. A. AlObiadi, A. S. Aldwayyan. "Photodynamic Damage (PDD) Study Using Stimulated Raman Scattering." Laser Physics, (2012); 22, (1): 306–310.

**72**. **M.S. AlSalhi**, M. Atif, A.A. Alobiadi, A.S. Aldwayyan "A study of the photodynamic effect on cancerous cells". . Laser Phys. Lett. (2012);9,( 8): 611–617

**71**. **M.S. AlSalhi**, V. Masilamani, M. Atif, K. Farhat, D. Rabah, M.R. Al Turki "Fluorescence spectra of benign and malignant prostate Tissues" Laser Phys. Lett. (2012); 9, (9): 631–635

**70**. **M. S. AlSalhi**, S. Ben Amer, K. Farhat, D. Rabah, S. Devanesan, M. Atif, V. Masilaman, Reem. K. S. Dakheel ."Optical Biopsy of Breast Cancer Tissue".Laser Physics, (2012); 22, (8): 1358–1363

**69**. M.A. Majeed Khan, Sushil Kumar, **M.S. Alsalhi**, Maqusood "Morphology and non-isothermal crystallization kinetics of CuInS2 nanocrystals synthesized by solvo-thermal method" Material Charcz. ( 2 0 1 2 ); vol 6 5 : 1 0 9 – 1 1 4

**68**. K.H. Ibnaouf , S. Prasad , A.S. Aldwayyan , **M. S. AlSalhi** , V. Masilamani "Amplified spontaneous emission spectra from the superexciplex of coumarin 138" Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy (2012) ;197 :145–1151

**67**. M.A. Majeed Khan, Sushil Kumar , Maqusood Ahamed , **M. S. AlSalhi**, "Structural and electrical properties of spray deposited thin films of CuInS2 nanocrystals. Materials Letters (2012); 68: 497–500

**66**. M. Atif, M. Fakhar. Alam, **M. S. AlSalhi** . "Role of Sensitivity of Zinc Oxide Nanorods (ZnO, Nrs) Based Photosensitizers in Hepatocellular Site of Biological Tissue" . Laser Physics, (2012); 22, (4): 821-826

**65**. K. Khuna, Z.H. Ibupotoa, J. Lu, **M.S. AlSalhi**, M. Atif , Anees A. Ansari, M. Willander . "Potentiometric glucose sensor based on the glucose oxidase immobilized ironferrite magnetic

particle/chitosan composite modified gold coated glass electrode". Sensors and Actuators B (2012); 173: 698-703

**64**. B.A. Al-Asbahi , **M.S.AlSalhi**, A.S.Al-Dwayyan , M.H.HajiJumali , "Forster-type energytransfermechanisminPF2/6 to MEH-PPV conjugated polymers". J. Luminescence (2012); 132: 386–390

**63**. M. Atif, **M. S. AlSalh**i, A. A. AlObiadi, A. S. Aldwayyan ."Fluorescence Spectra of Cultured Normal and Malignant Lung Cells".. Laser Physics, (2012), 22,(8): 1353–1357.

2011

**62**. **M.S. AlSalhi**, Vadivel Masilamni, Trinka vijnasi,Hicham Al Nachawati, A.P.Vijayaragavan, Lung cancer detection by native fluorescence spectra of body fluids- a- preliminary study- J. of Fluoesc 2011- 21; 637-645

**61**. V. Masilamani, Vijmasi, **M. S. AlSalhi**, K. Govindarajan, A.P Vijayaragavan, Ram Ratan Detection of cervical cancer by fluorescence emission and stokes shift spectra of blood and urine. Rai- Proc. Of SPIE 2011- vol 7895 78950 A-1

**60**. M. Fakhar_e_Alam, M. Atif, **M. S. AlSalhi**, M. Siddique, S. Kishwar, M. I. Qadir, M. Willander " Role of ALA Sensitivity in HepG2 Cell in the Presence of Diode Laser" Laser Physics, 2011, Vol. 21, No. 5, pp. 1–9.

**59**. **M. S. AlSalhi**, M. Atif, A. A. AlObiadi, A. S. Aldwayyan " Photodynamic Damage Study of HeLa Cell Line Using ALA" Laser Physics, 2011, Vol. 21, No. 4, pp. 1–7.

**58**. M. Atif, M. Fakhar-e-Alam, L.G. Sabino, M. Ikram, M.T. de Araujo, C. Kurachi, V.S. Bagnato, **M.S. AlSalhi** "Analysis of the combined effect of lasers of different wavelengths of PDT outcome using 600, 630, and 660 nm" Laser Phys. Lett., 1–7 (2011) / DOI 10.1002/lapl.201110003.

**57**. **M. S. AlSalhi**, V. Masilamani, V.Trenka, M. Elangovan, V. Kochupillia, N. Shah, "Detection of Cancer By Optical Analysis of Body Fluids – A single Blind Study", Technology in Cancer Research and Treatment, V.10, Num. 2, 2011, 1-8.

**56**. V. Masilamani, D. Rabah, **M. S. AlSalhi**, V. Trinka, A.P. VijayaRaghavan "Spectral Discrimination of Benign and Malignant Prostate Tissues - A Preliminary Report." Photochemistry and Photobiology, V. 87, Issue 1, 208-214, 2011. http://onlinelibrary.wiley.com/doi/10.1111/j.1751-1097.2010.00825.x/abstract

**55**. V. Masilamani, V. Trinka, **M.S. AlSalhi**, M. Elangovan, A.P. VijayaRaghavan, A.R. AlDiab, W. Hajjar, M. Ainia, A. Al-Mustafa, H. Al-Nachawati " A new Lung Cancer Biomarker –A Preliminary Report" Photomed Laser Surg. 2011;29(3):161-70

**54**. **M. S. AlSalhi**, Ziyad S. Abu Mustafa and V. Masilamani " External energy transfer in amplified spontaneous emissions from MEH-PPV conjugated polymer" Optics & Laser Technology 43 (2011) 147–151.

**2010**

**53**. Ahmed Mohamed El-Toni, Shu Yin, Tsugio Sato, Talal Ghannam, Mansour Al-Hoshan, and **M.S. AlSalhi** " Investigation of photocatalytic activity and UV-shielding properties for silica coated titania nanoparticles by solvothermal coating" Journal of Alloys and Compounds, 508 (1), 2010, L1- L4.

**52**. A.Khan, A. Aldwayyan, M. Alhoshan, **M.S. AlSalhi**, Synthesis and characterization of polyaniline/iron oxide nanoparticles composite by in-situ chemical oxidative polymerization", Polymer International, 59, 12, 2010.

**51**. Ansari, A.A., Alhoshan, M, **M.S. AlSalhi**, Aldwayyan, A.S " Prospects of nanotechnology in clinical immunodiagnostics" Sensors., V. 10, Issue 7, Pages 6535-6581, 2010.

**50**.M. Ahamed, **M.S. AlSalhi**, M.K. Siddiqui, " Silver nanoparticle applications and human health" Clinica chimica Acta, V. 411, Issue 23-24, 1841-1848, 2010.

**49**. V. Masilamani, T. Vijmasi, **M.S. AlSalhi**, K. Govindaraj, A.P. VijayaRaghavan "Cancer detection by native fluorescence of urine." J. Biomed. Opt., V 15,(5) 057003. 2010.

**48**. **M.S. AlSalhi**, V. Masilamani, T.Vijmasi, H. Al-Nachawati, A.P. VijayaRaghavan " Lung cancer detection by native fluorescence spectra of body fluids – a preliminary study" J Fluoresc. 2010 Mar;21(2):637-45. http://www.springerlink.com/content/j18038q2p331175t

**47**. M.A. Majeed Khan, M. Wasi Khan, Mansour Alhoshan, **M.S. AlSalhi**, A.S. Aldwayyan and M. Zulfequar " Structural, optical and electrical characterization of selenium sulphide nanostructured thin film, Materials letter, V.64, issue.16, 2010, 1929-1932.

**46**. M.A. Majeed Khan, M. Wasi Khan, Mansour Alhoshan, **M.S. AlSalhi**, A.S. Aldwayyan and M. Zulfequar "Influence of Pb doping on the structural, optical and electrical properties of nanocomposite Se–Te thin films, Journal of Non-Crystalline Solids, 502, Issue2 , 2010, 397- 401.

**45**. M.W.Khan, Khan, M.A.M. Alhoshan, **M.S. AlSalhi**, A.S. Aldwayyan,R. Kumar, S. Husain, "Influence of 190 MeV Ag+15 ion irradiation on electrical transport and magnetic properties of LaFe1- xNixO3 (x = 0.3 and 0.4) thin films, Journal Of Applied Physics, Volume: 107, Issue: 9, 093704, 2010.

**44**. M. A. Majeed Khan, M. Wasi Khan, Mansour Alhoshan, **M. S. AlSalhi** and A. S. Aldwayyan " Influences of Co doping on the structural and optical properties of ZnO nanostructured" Applied Physics A: Materials Science & processing, V. 100, No.1, 2010, 45-51.

**43**. **M. S. AlSalhi** " Amplified Spontaneous Emission from the Monomer of a Conjugate Polymer by Energy Transfer Process" Jpn. J. Appl. Phys, 2010, V.49, 032602.

2009

**42**. M.A. Majeed Khan, M.Naziruddin Khan, M.Alhoshan, A.S. Aldwayyan, **M.S. Alsalhi**, Anees A. Ansari "Optical properties of sol-gel derived nanoporous ZnO thin film" Bulletin of Material Science (2009).

**41**. Abdullah Saleh Al Dwayyan, Muhammad Naziruddin Khan, **M. S. AlSalhi**, Abdurahman Al Dukhail, Mansour Al Hoshan, Attieh Ali Al Ghamdi " Properties of luminescent silicon nanocrystallines doped sol gel for laser applications" Journal of Materials Science and Engineering., V. 3, No., 12, 2009, 44-51.

**40**. M. R. Baig, **M. S. AlSalhi**, A. H. Alfaraikh" Structural Investigation of latent Tracks of poly Ally Diglycol ( Cr-39) Irradiated with UV laser" J. King Saud Univ., V.21, Science, 2009, 57-60.

**39**. Al- Mohammedi, V. Masilamani, A. Al-kahtani, **M. S. AlSalhi**, " Fluorescence and laser raman Spectra of Cancer Tissues" J. King Saud Univ., V.21, Science, 2009, 61-66.

**38**. V. Masilamani, R. Kalaivani, M. Elangovan, **M.S. AlSalhi**, " Fluorescence and Synchronous characteristics of Urine for Early Cancer Detection" J. King Saud Univ., V.21, Science, 2009, 75-83.

**37**. **M. S. AlSalhi** " Optical Diagnosis of Sickle Cell Anaemia" J. King Saud Univ., V.21, Science, 2009, 149-152.

**36**. Masilamani, V, **M.S.Salhi,** Elangovan, M , Trinka, V, Diab, AA, Hajjar, W, Ainia, M, Mustapha, AA, A new unique lung cancer spectral biomarker. JOURNAL OF THORACIC ONCOLOGY 1556-08645.04,2009 4(9)

**35**. **MS Salhi,** Elangovan, M, Trinka, V, Masilamani, V , Diab, AA, Hajjar, W , Ainia, M , Mustapha, AA Spectral biopsy of lung cancer by auto fluorescence of cellular components of blood. Journal Of Thoracic Oncology.1556-0864,2009 4(9); S560-S561.

**34**. Trinka, V , **M.S. Al Salhi,** Elangovan, M, Masilamani, V , Al Diab, A, Hajjar, W, Ainia, M , Al Mustapha, A Spectral biopsy of lung cancer by auto fluorescence of urine. Journal of Thoracic Oncology.1556-0864, 2009 S871-S871

2008

**33**. A.S. Aldwayyan, R. H. Al-Hothlool, **M. S. AlSalhi**, M.Y. Raja" Neutron Irradiation Effects On Dynamical Characteristics Of Vertical Cavity Surface Emitting Lasers (VCSELS)" CJPAS, 2( 3 ), 2008, 557-565.

**32**. Kalaivani, V. Masilamani, K. Sivaji, M. Elangovan, V. Selvaraj, S. G. Balamurugan, **M. S. Al Salhi** " Fluorescence spectra of blood components for breast cancer diagnosis " Photomed Laser Surg, 26 (3), 2008, 251-256.

**31**. L.M. Sharaf El-Deen, **M.S. Al-Salhi**, M.M. Elkholy "IR AND UV Spectral Studies for Rare Earths doped Tellurite Glasses" Journal of Alloys and Compounds, 465( 1-2), 2008, 333- 339.

**30**. L.M. Sharaf El-Deen, **M.S. Al-Salhi** and M.M. Elkholy " Spectral properties of PbO-2O5 Glasses"Journal of Non-Crystalline Solids, 354( 31), Issue 31, 2008, 3762-3766.

**29**. L.M. Sharaf El-Deen, **M.S. Al-Salhi** and M.M. Elkholy " Radiation induced color centers in PbO-P2 O5 glasses" Journal of Non-Crystalline Solids, 354(52-54), 2008, 5453-5458.

2007

**28**. AbdulRahman Ibrahim Al-Diab, Vadivel Masilamani, Rudran Kalaivani, Krishnan Sivaji, **M.S.AlSalhi**, Fawzia Habib, Ahmad Al-Sagheir, Jaysingh Elenezer, Osama Al- Daghri, H Raja, S E Sivanandam, Lakshmanan Anand " Detection of pancreas by native fluorescence of blood components- a preliminary report" Emirates Medical Journal. 25(1).2007. 29-38.

**27**. V. Masilamani, K. H. Ibnaouf. **M. S. AlSalhi**. O. A. Yassin " Laser Properties of a Conjugate Polymer(MEH- PPV) in the liquid- Excimeric state"Laser Physics.17. No12. 2007. pp 1367-1372.

**26**. **M. S. AlSalhi**, K. H. Ibnaouf. V. Masilamani. O. A. Yassin " Excimer State of a Conjugate Polymer MEH-PPV in Liquid Solutions" laser Physics. 17. No12. 2007. pp 1361-1366.

**25**. Nayfeh. M Stupca, **M.S. AlSalhi**, M. AlSaud . M. Al-Muhanna.A" Enhancement of polycrystalline silicon solar cell using ultrathin films of silicon Nanoparticles " Appl.Phys. lett, 91, 063107, 2007.

2006

**24**. **M. S. AlSalhi**, M. S. AL-Ayed, U. A. Elani " A simplified Method for Infrared and Ultraviolet Solar Radiation Analysis in Riyadh Region, Saudi Arabia" JAABUS, V 2, 2006

**23**. **M.S. AlSalhi**, Ali A. Al-Hazmi, V. Masilamani, A.S.Aldwayyan, Osamah A. Al-Daghri, H.S.Alsalhi and F.M.Alothman "Fluorescence Characterization of Sickle Cell Anaemia" Al-Azhar Bulletin Of Science, V17,No1, June 2006

**22**. Masilamani, R. Kalavani, Osamah. Al-daghri, H. Raja, S. E. Sivanandam, Lakshman Anand, S. Ganesan, AbdulRahman Diab, **M.S. AlSalhi**, Chandra Mohan, R. Thirunarayan and K. Vijayasarathi " Optical diagnosis of cancer from blood components " Egypt. J. Biophys . V 12 (1) 2006, pp 15 – 30.

2005

**21**. K.H.Ibnaouf , V.Masilamani, A.S.Aldwayyan, and **M.S. AlSalhi** " Dual ASE Spectra from Superexciplex TICT States of Dye Molecules" laser Physics. V 15 No.9, 2005, pp 1-7.

2004 - 1988

**20**. Abdullah S. Aldwayyan, Hadi R. Al-Qahtani, **M.S. AlSalhi** and M. Yasin Akhtar Raja "Characteristics of GaAs / AlGaAs vertical – cavity surface – emitting lasers irradiated with Gamma rays" opt. Eng 43 (2004) 2184 – 2192

**19**. U. A. Elani, **M. S. AlSalhi**, S.A.Kamh, J.M.Al-Otaibi " The conductivity modulation of silicon Samples under dark and gamma irradiation conditions" Solar Energy 78 (2005) 23- 29.

**18**. G.Belomoin, **M.S.AlSalhi**, A.Al Aql, and M.H.Nayfeh" X-ray structure factors for Si nanoparticles" J.Appl.Phys,2004,V.95,No.9,1-4.

**17**. V. Masilamani, K. Al-Zhrani , **M.S.AlSalhi**, A. Aldiab , M. Al -Aqeily " Cancer Diagnosis by Autofluorescence of Blood Conponents "Journal of luminescence 109(3-4), 2004, 143-154.

**16**. **M.S. AlSalhi**, M.M. Ghannam, M.S. Alayed, S.U. Elkameesy, S. Roshdy "Effect of gamma irradiation on the biophysical and morphological properties of Corn" Nahrung/ Food,2004,No.2,95-98

**15**. **M.S. Alsalhi**, K.Al-zhrani, V. Masilamani, " Photophysical properties of photofrin II in Solution of Different pH " J. Saudi chem Soc. Vol.8, No. 3, pp 559-564 (2004).

**14**. A.A. AlGhamdi, A.S. Aldwayyan, V. Masilamani, T. AlSaud, **M.S AlSalhi** "Super–Exciplex from some Coumarin molecules using tunable Ti -sapphire laser" Jpn. J. Appl. Phys,2004,V.42,6610-6613.

**13**. **M.S.AlSalhi**, M.M. Ghannam, M.S Alayed, S.U. Elkameesy, S. Roshdy "Effect of gamma irradiation on the biophysical and morphological properties of Corn" Nahrung/ Food,2004,No.2,95-98

**12**. A. Smith, S. Chaieb, A. ALAQL, **M. S.AlSalhi**, M. H. Nayfeh " observation of the Assembly of Flourescent Si Nanoparticle Under the Influence of Electric Current " J. Nanoscience and Nanotechnology " 2002, vol 2, No. 5, 471-473.

**11**.A.A. Alaql, **M.S. AlSalhi**, M. AnsarI "precipitation in Ni-35 at pct Cr Alloys" J. Matter. Sci. Technol ,2002, V. 18 No .1 , 77-79.

**10**. **M.S.AlSalhi**, "Gamma Irradiation Effects in Silicon Solar Cells" Isotope & Rd. Res, 2001, V. 33, No. 3, 419-430

**9**. **M.S. Al-Salhi**, " spectral characteristics of photofrin II in organic solvents" Egyptian J. of biophysics, 2001, Vol 7, No .2 75-86.

**8**. **M.S. Al-Salhi**, A.A. ALAQL "Evolution of photoluminescence multiplex in Porous Silicon" science international, 2001, Vol 13. No 4, 311-313.

**7**. M.Mashni, A.S. AL-Dwayyan, A.M. Azzeer, **M.S. AlSalhi**, K.Homaidi, V. Masilamani, "Measurement of non-radiative processes in dye solution by laser optoacoustic method", J. Saudi Chem. Soc , 4( 2000 ), No3,327-336.

**6**. A.S. AlDwayyan, **M.S. AlSalhi**, A.M. Azzeer,M.A. Reda, M.A. Harith, "The low frequency fluctuation in Semiconductor lasers with external cavity at different temperature" J. King Saud University, Vol 12 (2000), 31.

**5**. A.M.Azzeer, A.S. AlDwayyan, **M.S. AlSalhi**, M. Kamal, M.A.Harith, "Optical probing of laser-induced shock waves in air" Appl. Phys. B63 (1996) 307.

**4**. A.M. Azzeer, V. Masilamani, **M.S. AlSalhi**, A.S. AlDwayyan, "Phase conjugation by stimulated scattering from organic liquids" The Arabian Journal for Science and Engineering, 17 ( 1992 ) 2 B , 245.

**3**. A.S.Naqvi, K. Naveedullah, A.M. Azzeer, **M.S. AlSalhi**, "Hybrid Transition in Sodium Dimers by laser absorption spectroscopy" Optics Communication 87(1992) 36.

**2**. **M.S. AlSalhi**, D. Shaw, P.J. Bryant, J.H.G . Hogg, "A PIXE investigation of inter diffusion in Pb1-xSnxTe/PbTe" Semicond. Sci. Technol. 3(1988) 1063-1066 .

**1. M.S. AlSalhi**, A study of PbSnTe diode lasers fabricated by the compositional interdiffusion technique" Ph.D. Thesis, Hull University, May 1988

**Papers published in scientific conferences**

**30**. K. Khun, Z. H. Ibupoto, J. Lu, **M.S. AlSalhi**, M. Atif, Anees A. Ansari, M. Willander (2013) Urea potentiometric biosensing applications of nanobiocomposite of chitosan-iron oxide particles Journal of Physics: Conference Series 414, 012024 (2013)

**29**. **M.S. AlSalhi**, M. Atif, Anees A. Ansari, Zafar Ibupoto, Magnus Willander , Magnetic nanoparticles as a seed layer for growing ZnO nanowires for optical applications Journal of Physics: Conference Series 414, 012019 (2013)

**28**. K. H. Ibnaouf, S. Prasad, A. Hamdan, **M. S. AlSalhi**, A.S. Aldwayyan,V. Masilamani, M. R. Karim and M. B. Zaman, Excimer-like Photoluminescence Spectra of CdSe/ZnS Quantum

Dots2013 2nd International Conference on Electronics and Opto-electronics Science (ICEOS 2013)

**27**. V. Vahitha, A. Jamal Mohamed, S. Kadar Basha, S. Devanesan, **M. S. AlSalhi**, V. Masilamani, International Conference on "Traditional Medicine: The Untapped Treasure In Modern Drug Discovery" "White biotechnology from green waste Camellia Sinensis . L" Jan 30-31-2013 Chennai- India

**26**. **M. S. AlSalhi**, A. S. Aldwayyan, A. H. M. Jasas, M. Atif, W Aslam Farooq, Study of the structural analysis of dye-silica core-shell nanoparticles (DSCSNPs), 978-1-4673-2890-6/12/$31.00 ©2012 IEEE.

**25**. **M. S. AlSalhi**, A. S. Aldwayyan, A. H. M. Jasas, M. Atif, W Aslam Farooq, Spectroscopic analysis of dye-silica core-shell nanoparticles (DSCSNPs), 978-1-4673-2890-6/12/$31.00 ©2012 IEEE.

**24**. **M.S. AlSalhi**, V.Trinka, V.Masilamani,D.Rabah,M.R.Turki, Trimodal spectra for high discrimination of benign and malignant prostate tissue International conference for SPIE USA-7895- 35- Jan 2011

**23**. V.Masilamani, V.Trinka**, M.S. Alsalhi**, K.Govindaraj, A.P.Vijayaragavan, Detection of cervical cancer by fluorescence and stokes' shift spectra of blood and urine- International conference for SPIE USA- 7895- 10- Jan 2011

**22**. V.Masilamani, **M. S. AlSalhi**, V.Trinka, D.Rabah, M.R.Turki, Trimodal spectra for high discrimination of benign and malignant prostate tissue- International conference for optical tomography and spectroscopy of tissue SPIE USA- 7895- 10- Jan 2011

**21**. **M.S. AlSalhi**, Z. Suliman A.M, V. Masilamani, Energy transfer process in conjugated polymer lasers-- International conference for organic Photonic materials and devices SPIE USA- 7895- 11-Jan 2011

**20**. V. Masilamani, **M.S. AlSalhi**, I.Khalid- Laser from liquid excimer - International conference for organic Photonic materials and devices SPIE USA- 7895- 12- Jan 2011

**19**. Danny Rabah, **M.S. AlSalhi**, Vadivel Masilamani,Hasan Abol enien, Ahamed Shoeir, Amira Awadalla, Mohamaed hamed, Fathallah Belal – Photodiagnosis of Urothelial Carcinoma using Plasma- an innovative diagnosistic technique- international conference in urology united kingdom Mar 2011

**18**. **M.S. Alsalhi**, D. Rabbah, S. Ben Amer, K.Farhat,S.Devanesan,M.Atif, V.Masilamani optical biopsy of breast cancer- international Laser physics conference Bosnia- July 12-2011.

**17**. S.Devanesan, **M.S. AlSalhi**, V.Masilamani, P .Agastin., International Conference on Impact of Biotechnology in Health care and Industry Participated in Oral-Spectral Diagnosis of Sickle Cell Anemia and Thalassemia - India- 21- Dec- 2011

**16**. A.Khan, A. Aldwayyan, M. Alhoshan, **M.S. Alsalhi**, "Synthesis and characterization of iron oxide-polyaniline core-shell nanoparticles" International Conference for nanotechnology Industries, Riyadh, April 5-7, 2009

**15**. A. Aldwayyan, **M.S. Alsalhi**, A. Alghamdi, G. Alchaar and M. Nayfeh "Stability of silicon nanoparticle dispersions in organosilicon liquids used in sol-gel processes", First Shargah International Conference on Nanothechnology and its Applications, AUS-NANO-07, April 10–12, 2007, Sharjah, United Arab Emirates.

**14**. Munir H. Nayfeh, Mathew C.Stupka and **M.S. Alsalhi** " Enhancement of Si Solar Cells in the Uv using Si Nanoparticles as Top Cells" MRS proceeding, Vol 891, Boston, 2005

**13**. A S Aldwayyan, H Al-Qahtani, **M.S. Alsalhi** and M.Y. A Raja "Characteristics of Vertical Cavity Surface Emitting lasers subjected to Gamma Ray Irradiation" SIOE 2003, Cardiff, 14-16 April 2003

**12**. Schaieb, A. D. Smith, M Nayfeh, A ALaql, **M .S. AlSalhi** " Tree – Like Assembly of Ultra small Si Nanoparticles Under The Influence of Electric Current " MRS proceeding, V

**11**. G. Belomoin, J.Therriem, M. H. Bauteh, **M.S. AlSalhi** and A. ALAql " Transition From Molecular/AmorphousTo Poly crystalline Behavior In Si Nanoparticles " MRS proceeding, Vol 738, Dwc 2-6, 2002.

**10**. **M. S. AlSalhi**, U. A. ELANI, “Renewable Energy Technology for the Water Desalination and Its Conservation “, (In Arabic), Presented at The Prince Sultan Research Center for Environment, Water and Desert Symposium, King Saud University, (Riyadh-Saudi Arabia), Chennai (Madras), India, 27th-30th Aug 2001.

**9**. **M. S. AlSalhi**, M. S. U. A. ELANI, “Civil Defense Technologies and the Latest Risks “, 18 Civil Defense Conference Proceeding, In Arabic,(Riyadh-Saudi Arabia), 2001.

**8**. **M.S. AlSalhi**, " Photo physical Properties of Photo sensitizer of PDT", 14World Congress of the International Society for Laser Surgery and Medicine, 2001

**7**. V. Masilamani, A. S. Al-Dwayyan, **M.S. AlSalhi**, S. A. M. Azzeer and R. J. Josephus," Diabetic Wound Healing by Laser ", 14World Congress of the International Society for Laser Surgery and Medicine, Chennai(Madras), India, 27th-30th Aug, 2001.

**6**. V. Masilamani, **M.S. AlSalhi**, S. A. M. Azzeer, A. S. Al-dwayyan, " Recent Trends in Photodynamic Therapy ", 14World Congress of the International Society for Laser Surgery and Medicine, Chennai(Madras), India, 27th-30th Aug, 2001.

**5**. V. Masilamani, **M.S. AlSalhi,** A. M. Azzeer, A. S. AlDwayyan, " New, Inexpensive Efficient Laser Source at 630 nm for PDT ", 14World Congress of the International Society for Laser Surgery and Medicine, Chennai(Madras), India, 27th-30th Aug, 2001.

**4**. **M.S. AlSalhi**, A. A. AlBassam, " X-Ray Analysis and Optical Absorption Characterization of CuInSe(CIS) Films ", A Proceeding of the Sharjah Solar Energy Conference, (Sharjah University, UAE), 2001, To be published.

**3**. **M.S. AlSalhi**, M. S. AlAyed and U. A. Elani, " Dimensionless Parameters for Infrared and Ultraviolet Solar Radiation Analyses in Riyadh Area ". A Proceeding of the Sharjah Solar Energy Conference, (Sharjah University, UAE), 2001, (Acceptance included, date of acceptance letter, 15-10- 2001).

**2**. **M.S. AlSalhi**, "The Effect of Communication and Information Systems on Physics Educational Programs ", Proc. of the First Science Conference, (Dhahran-Saudi Arabia), 2001, Part-Physics, 405-416.

**1**. A.S. AlDwayyan, **M.S. AlSalhi**, A. M. Azzeer, M. A. Reda and M. A. Harith, "Temperature Dependence of the Low-Frequency Fluctuation Semiconductor Lasers with Optical Feedback", 2 International Conference on Lasers & Applications, Advances in Science, Medicine & Technology, (Cairo-Egypt), 1996.

With Best Regards

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