CURRICULUM VITAE ALIREZA SALEHI

Name: Alireza Salehi,

BSc, MSc, PhD, Senior Member IEEE, Member InstP

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UNIVERSITY EDUCATION:

1992-1995	PhD in Microelectronics (University of Wales, College of Cardiff, UK)
1988-1992	MSc in Electronics (University of Bremen, Germany)
1982-1986	BSc in Electrical Engineering (FH Kiel, Germany)

ACADEMIC EMPLOYMENT:

1995-present	Professor at Khajeh Nassir Toosi (K.N. Toosi) University of Technology, Tehran, Iran
2018-now	Director General of the office of control, evaluation and quality assurance of K.N.Toosi University of technology
2016-2017	Visiting professor at Sheffield University, Sheffield, UK
2009-2014	Visiting Professor at Kingston University, London, UK
2011-2013	Head of the faculty of electrical engineering, K.N.Toosi University of Technology
2010-2011	Director general of the office for non-Iranian students in Iran, Ministry of Science, Research and Technology
2006- 2011	Scientific Representative of The Islamic Republic of Iran in The UK and Ireland, based in London
2004-2005	Visiting Professor at University of Manchester, (former UMIST), UK

ACADEMIC AND PROFESSIONAL MEMBERSHIPS:

2018- now	Member of the university council (university board) of K.N.Toosi
	university of technology
2018- now	Deputy Head of the counsil of control, evaluation and quality
	assurance of K.N.Toosi university of technology
2011-2013	Member of the committee of the scholarship department of the
	Ministry of Science, Research and Technology

2011-2017	Member of the evaluation committee for foreign degrees of the Ministry of Science, Research and Technology
2008-present	Senior Member of IEEE (SMIEEE)
2008-present	Member of The Institute of Physics (MIntP)
2000-2006	Member of the Microelectronics Committee of the Ministry of Industries of the Islamic Republic of Iran.
1998-present	1) Reviewer of the journal Thin Solid Films.

1) Reviewer of the journal Thin Solid Films, 1998-present

2) Reviewer of the journal Sensors and Actuators B 2) Reviewer of the journal Science and Technology, 3) Reviewer of the Journal of Engineering Science.

4) Reviewer of several international conferences.

PROFESSIONAL QUALIFICATION RECORDS:

2011	Chair of the International Conference "Iran and scientific relations in the world" 11-12 June 2011, Wales, UK
2010	Chair of the first International conference in humanities, London-Tehran, 17-18 September 2010
2010	IEEE-Transforming Engineering Education: Creating Interdisciplinary Skills for Complex Global Environments, Dublin, Ireland, 6-9 April 2010
2009	Chair of the International conference "International Iranian Academics Symposium in London" UCL, London, UK 25-26 April 2009
2006	Advisor to the Ministry of Industries of The Islamic Republic of Iran- Tehran, Iran, March-September 2006
2002-2004	Deputy Head of The Faculty of Electrical Engineering, Khajeh Nassir Toosi (K.N.Toosi) University of Technology for Research Affairs, Tehran, Iran
1998-2002	Head of Electronics Group at Khajeh Nassir Toosi (KNT) University of Technology, Tehran, Iran
April, 2000	MBE and CVD workshop for depositing different semiconductor materials e.g. III-V Semiconductors, University of Science and Technology, Tehran, Iran.
1996-1998	Senior Engineer at Semiconductor Industries, R&D Division, Tehran, Iran
1993-1994	SEM analysis (University of Wales, College of Cardiff).

1992 Project management-Practical training (University of

Clausthal, Germany, February-April 1992

1986-1988 Senior Engineer and Inspector of IEI in Germany

AWARDS:

- 1. Nominated researcher of the year 2003 by the Ministry of Higher Education of Iran
- **2.** Nominated researcher of the year 2001 by the K. N. Toosi University of Technology, Tehran, Iran

COURSES TAUGHT:

A) Courses taught at different academic years for post graduate students:

- 1) Optical Electronics (Devices),
- 2) Semiconductor Sensors,
- 3) Solid State Electronic Devices,
- 4) Semiconductor Devices I,
- 5) Semiconductor Devices II,
- 6) Transparent Conductors,
- 7) Theory and Technology of Semiconductor Device Fabrication,
- 8) Research Methodology
- 9) Characterisation and measurement of material and semiconductor devices
- 10) Bio Sensors

B) Courses taught at different academic years for under graduate students:

- 1) VLSI Design and Technology,
- 2) Modern Physics,
- 3) Solid State Electronics,

RESEARCH INTERESTS:

My current research interests are design and fabrication of semiconductor devices, especially using Si- and III-V semiconductor materials. Recently I started to work on graphene and organic materials with sensor and solar cell applications towards different gases. Moreover, I have been working on transparent conductors including Indium Tin Oxide for applications in optoelectronic devices and detectors.

A) PhD Projects: During the last years I supervised more than 10 PhD students:

B) MSc Projects:

During the last years I supervised more than 70 MSc projects.

REFEREED PUBLICATIONS

Peer reviewed Journal Papers:

- 1. M Fallahnejad, M.Vadizadeh, A.Salehi, A.Kashaninia, F.Razaghian, "Impact of channel engineering on the high frequency noise performance of junctionless InGaAs/GaAs FET: A numerical simulation study", Physica E: Low dimentional sysyems and nanostructures, Elsevier 115, 6 sep 2019
- 2. M.Fallahnejad, M.Vadizadeh and **A. Salehi**, "Performance enhancement of field effect transistor without doping junctions using InGaAs/GaAs for analog/RF applications", Int. J. Modern Physics B, vol33 (2019)
- 3. M. Hadiyan, A. Salehi, A. Koohi-Saadi, 'Sub ppm acetone gas sensing properties of free standing ZnO nano rods", Journal of Electroceramics, published online 04 January 2019
- 4. A. Poureslami, A. Salehi, "SWNT saturable absorption application in telecom wavelength range", J. Opt. Commun., 2018, pp
- 5. A. Poureslami, A. Salehi, "Linear and non linear optical attenuation of single wall carbon nano tubes used in fiber optic communication", Materials Focus, vol.7, 2018, pp.668-672.
- 6. A. Hasani, H. Sharif Dehsari, M. Asghari Lafmejani, **A. Salehi**, F. Afshar Taromi, K.Asadi, Soo Young Kim, "Ammonia Sensing Using a Composite of Graphyne Oxide and Conducting Polymer", Physica Status Solidi, RRL 2018, pp.1-7.
- 7. M Hakimi, **A. Salehi**, F.A. Boroumand, N.Mosleh, "Fabrication of a room temperature ammonia gas sensor based on polyaniline with n-doped graphyne quantum dots", IEEE sensors journals vol 18, no6 March 2018, pp.2245-2252.
- 8. **A. Salehi**, S. Zamani, "Increasing of the power conversion efficiency of In0.5Ga0.5P solar cell" Journal of Energi Engineering of Kashan university, vol7, no 4, March 2018, pp.12-19.
- 9. A. Hasani, J.N.Gavgani, R.Mohammadi Pashaki, S.Baseghi, A. Salehi, D.Heo, S.Young Kim, M.Mahyari, "Poly(3,4 ethylenedioxythiophene): Poly(styrenesulfonate)/Iron(III) Porphyrin Supported on S and N Co-Doped Graphene Quantum Dots as a Hole Transport Layer in Polymer Solar Cells" Science of Advanced Materials, vol.9, 2017, pp:1616-1625.
- 10. M.A. Eslamian, **A.Salehi**, Z.Miripour, "Comparing different ITO-metal thin film structures for ethanol and carbon dioxide sensing application", sensor review, Sep. 2017.
- 11. M.J.Kiani, A. Salehi, "Deposition of thin film gas sensors based on ZnO layer", Journal of Iranian Association of Electrical and Electronics Engineers, Vol.13, winter 2016, pp. 65-70.
- 12. M. Hakimi, **A. Salehi**, F.A. boroumand, "Fabrication and characterization of an ammonia gas sensor based on PEDOT-PSS with N-doped grapheme quantum dots dopant" IEEE sensors journal, 2016
- 13. M. Hakimi, **A. Salehi**, F.A.Boroumand, "Experimental study on PEDOT:PSS conductive polymer and N-doped grapheme quantum dots for H₂O₂ sensing", Bulletin de la societe royale des sciences de liege, vol. 85, 2016, pp:261-268.
- 14. M. Mohsennia, M. Massah Bigdeli, M.H.Khodami, **A. Salehi**, F. Akbari Boroumand, "Bulh-heterojunction polymer solar cells with polyaniline-silica nanocomposites as an efficient hole-collecting layer" Journal of Nanophotonics, vol.10(1), (Jan-Mar 2016), 016011(1-11).
- 15. J. Nasrollah Gavgani, A.H. Hassani, M. Nouri, M. Mahyari, **A. Salehi**, "Highly sensitive and flexible ammonia sensor based on S and N co-doped graphene quantum dots/polyaniline hybrid at room temperature", Sensors and Actuators B, volume 229, (28 Jan 2016), pp:239-248.
- 16. H.Sharifi Dehsari, J.N.Gavanchi, A.H.Hassani, M.Mahyari, E.Khodabakhshi Shalamzari, **A. Salehi**, F.Afshar Taromi, "Copper (II) phthalocyanine supported on three-dimentional nitrogen doped grapheme/PEDOT-PSS nanocomposite as highly

- selective and sensitive sensor for ammonia detection at room temperature", RSC advances (DOI:10.1039/C5RA13976G)11 Sep. 2015.
- 17. J. N. Gavgani, H.Sharifi Dehsari, A. Hassani, M. Mahyari, E. Khodabakhshi Shalamzari, **A. Salehi**, F. Afshar Taromi, "A room temperature volatile organic compound sensor with enhanced performance, fast response and recovery based on N-doped graphene quantum dots and poly (3.4-ethylenedioxythiophene)-poly(styrenesulfonate)nanocomposite", RSC Advances, 5 (2015) 57559-57567.
- 18. S.H. Badri, **A. Salehi**, "Realization on porous silicon multilayer bandpass filters in mid-infrared range", Science International (Lahore), 27(3), (2015) 2177-2181.
- 19. A. Hassani, H. Sharifi Dehsari, J. Nasrollah Gavgani, E. Khodabakhshi, **A. Salehi**, F. Afshar Taromi, Mojtaba Mahyari "Sensor for volatile organic compounds using an interdigitated gold electrode modified with a nanocomposite made from polypoly and ultra large graphene oxide", Microchima Acta, vol. 182, issue 7-8 (2015) 1551-1559.
- 20. A.H.Hassani, H.Sharifi Dehsari, A. Amiri Zarandi, A. Salehi, F.Afshar Taromi, H.Kazeroni, "Visible light-assisted photoreduction of graphene oxide using CdS nanoparticles and gas sensing properties", Journal of nano materials, Hindawi publishing corporation, volume 2015, (2015)
- 21. V. Nazerian, **A. Salehi**, "Room temperature hydrogen gas sensor using a Ni/Al₂O₃/Ni/n-Si magnetic tunneling transistor", International Journal of Natural and Engineering Sciences, Issue 2 (2012)
- 22. V. Nazerian, **A. Salehi**, "Theoretical analysis of magnetic tunnelling transistor as a novel hydrogen gas sensor based on spintronic", International Journal of Natural and Engineering Sciences, Issue 1 (2012)
- 23. H. Sadeghi, V. Nazerian, A. Salehi, "Improving the sensing response of SnO₂ hydrogen gas sensor using additive Ag as a catalyst", International Journal of Natural and Engineering Sciences, Issue 1 (2012)
- 24. **A. Salehi**, M Gholizadeh, "A highly sensitive MOSFET hydrogen sensor with transparent ITO gate electrode", IEEE sensor Journal, vol. 11, no. 5, May 2011, pp. 1201-1205
- 25. A.R.Amin, **A. Salehi**., M.H.Ghezelayagh, Y. Ghane Ghrebagh, "3 D experiments and simulation of the effect of the characteristics of the waves using FDTD process when submitted to electronic circuits", Tarbiat Modares Journal on Electrical Engineering, vol. 2, pp. 61-70, May 2010.
- 26. A.R.Amin, **A. Salehi**, M.H. Ghezelayagh, M.H. Rahdan, "Simulation and analysis of active transistor circuits when submitted to waves distributed by lines of a pattern circuit", Iranian Journal of Padafand-e Novin, pp. 53-60, March 2010
- 27. A.R. Amin, **A. Salehi**, M.H.Ghezelayagh, H. Khademkalan, "Design and simulation of the effect of powerful electromagnetic waves on electronic circuits", Journal of Engineering of the Iranian Ministry of Science, Research and Technology, November 2009
- 28. M Gholizadeh, M Safari Hasanabadi, A. Salehi, "Modelling and simulation of MOSFET gas sensor with platinum gate for hydrogen detection", Sensors and Actuators B141 (2009).1-6

- 29. M Gholizadeh, M Safari Hasanabadi, A. Salehi, Modelling and simulation of a MOSFET hydrogen gas sensor using Pt contact, Iran J Navigation Technology and Scienses, special issue (2008),12-16.
- 30. **A. Salehi**, A. Nikfarjam, D. Jamshidi, "Highly sensitive humidity sensor using Pd/porous-GaAs Schottky contact", IEEE sensors journal 6 (Dec 2006)1415-1421.
- 31. **A. Salehi**, D. Jamshidi "Characteristis of highly sensitive Au/porous-GaAs Schottky junctions as selective CO and NO gas sensors", Sensors and Actuators, B122 (2007) 69-74.
- 32. **A. Salehi**, V. Nazerian, "Characterization of magnetic Ni/n-Si Schottky contact for hydrogen gas sensing applications", Sensors and Actuators B122 (2007) 572-577.
- 33. **A. Salehi**, A. Nikfarjam, D. Jamshidi, "Pd/porous-GaAs Schottky contact for hydrogen sensing application", Sensor and Actuators, B 113 (2006) 419-427.
- 34. **A. Salehi**, A. Nikfarjam, "Room temperature carbon monoxide sensor using ITO/n-GaAs Schottky contacts", Sensors and Actuators, B101 (2004) 394-400.
- 35. **A. Salehi**, "A highly sensitive self heated SnO2 carbon monoxide sensor", Sensors and Actuators, B96 (2003) 88-98.
- 36. **A. Salehi**, "Preparation and characterization of implanted indium tin oxide selective gas sensors", Sensors and Actuators, B94 (2003) 173-179.
- 37. **A. Salehi**, M. Gholizadeh, "Gas sensing properties of indium-doped SnO2 thin film with variations in indium concentration", Sensors and Actuators B89 (2003) 173-179.
- 38. M Salimi, S. M T Bathaee, **A. Salehi**, M. Darvish Eskandari, "A novel control method used for connection of photovoltaic converters" Iranian Energy journal May 2003.
- 39. **A. Salehi**, "Selectivity enhancement of indium doped SnO2 gas sensors", Thin Solid Films, 416 (2002) 260-263.
- 40. **A. Salehi**, "Radiation damage in air annealed indium tin oxide layers", Thin Solid Films, 338 (1999) 297-200.
- 41. **A. Salehi**, "The effects of deposition rate and substrate temperature of ITO thin films on electrical and optical properties", Thin Solid Films, 324 (1998) 214-218.
- 42. **A. Salehi**, "Thermally evaporated ITO/GaAs Schottky barrier contacts", Electronics Letters, vol. 34 (1998).
- 43. **A. Salehi**, "Effects of thermal treatment in ITO/GaAs contacts", Electronics Letters, vol. 34 (1998).
- 44. D. V. Morgan, Aliyu, Bunce and **A. Salehi**, "Annealing effects on opto-electronic properties of sputtered and thermally evaporated indium tin oxide films", Thin Solid films, 312 (1998) 268-272.
- 45. D. V. Morgan, **A. Salehi**, Aliyu, Bunce, "Electro-optical properties of indium tin oxide films": Effects of thermal annealing, Renewable energy vol. 7, no.2 (1996), 205-208.
- 46. D. V. Morgan, **A. Salehi**, Aliyu, Bunce, Disket,"Radiation damage in ITO layers, Thin Solid Films, 258 (1995) 283-285.

Reviewed Conference Papers

- 47. A. Poureslami, A.Salehi, "Spectroscopy study of single wall carbon nanotubes", 27th Iranian conference on electrical engineering (ICEE2019) May 2019, Yazd, Iran
- 48. F.Karimpour, S.Valizadeh, A.Salehi' "Effect of PET and ITO substrates on PCE of bulk heterojunction organic solar cells with P3HT:PCBM active layer", 27th Iranian conference on electrical engineering (ICEE2019) May 2019, Yazd, Iran
- 49. M.Hadian, S.B.Mashari, A.Koohi Saadi, **A.Salehi**, "CO gas sensing behaviour of free standing ZnO nanowires", 27th Iranian conference on electrical engineering (ICEE2019) May 2019, Yazd, Iran
- 50. Z.Bahrami, A.Salehi, A Mahdlu, "AMPS-1D modelling of P3HT/PCBM bilayer and BHJ organic solar cell", 27th Iranian conference on electrical engineering (ICEE2019) May 2019, Yazd, Iran
- 51. S.M.Mirsadeghi, S.Valijam, **A. Salehi**, "Electrical simulation of SiC/Ge Schottky diode with graphene contact", 27th Iranian conference on electrical engineering (ICEE2019) May 2019, Yazd, Iran
- 52. T. Ghafouri, **A. Salehi**, H.Mahmoodnia, "Investigating a novel normally on AlGaN/GaN capped PHEMT and the effects of cap layers thickness on its gate leakage current", 26th Iranian conference on electrical engineering (ICEE2018), May 2018, Mashad, Iran
- 53. A. Amirpour, **A. Salehi**, S. Shams Beyranvand, "Fabrication of UV sensor using point's Schottky Pd/ZnO/Si contacts", 26th Iranian conference on electrical engineering (ICEE2018), May 2018, Mashad, Iran
- 54. P.Talebnia, F.A.Boroumand, **A.Salehi**, "Highly sensitive and flexible ammonia sensor based on polyaniline/SnO hybrid structure working at room temperature", 3rd International conference on senors engineering and electronics instrumentation advances, (SEIA 2017), 20-22 september 2017, Moscow, Russia.
- 55. S. Zamani, **A. Salehi**, "Modelling and analysis of shadow effect on solar cells' array", 24th ICEEE, 10-12 May 2016, Shiraz, Iran
- 56. A. Poureslami, **A.Salehi**, "Effect of CNT structures regarding the communications filters in the range of 1300-1600 nm", 24th ICEEE, 10-12 May 2016, Shiraz, Iran
- 57. J. Behnejad, **A. Salehi**, H. Mahmoodnia, "Electrical characteristics enhancement of Au/n-GaAs Schottky barrier diode using sulphur passivation of GaAs surface by (NH4)2Sx sulfurization technique", 25th ICEEE, 2-14 May 2017, Tehran, Iran
- 58. M. A. Eslamian, Eb. Nadimi, **A. Salehi**,"Effect of humidity on gas sensing properties of tin dioxide toward carbon monoxide: A first principle study", 2-4 May 2017, 25th ICEEE, Tehran, Iran
- 59. M.Hakimi, **A.Salehi**, F.A. Boroumand, "Ammonia sensor using N-doped graphene quantum dots/polyaniline composite", 3rd international conference Sciensce and Engineering Istanbul, Turkey, 2June 2016.
- 60. M.Hakimi, **A.Salehi**, F.A.Boroumand, "Experimental study on PEDOTT:PSS conductive polymer and n-doped graphene quantum dots for H2O sensing", International conference on electrical engineering, University of Tehran, Iran, May 2016.

- 61. P.Naderi, F.Akbari Boroumand, **A.Salehi**,"Hybrid Solar Cells using GaAs/Polymer", Confrence of Nano structure solar cells, Sharif University, Tehran, Iran, 17 Dec. 2015
- 62. M.H.Khodami, **A. Salehi**, F.Akabari boroumand, "Optimization of P3HT/C60 blend for fabrication of organic solar cells", 21st conference on optic and photonics and 7th conference on Iranian engineering and photonic technology, 13-15 January 2015, Shaeed Beheshti University, Tehran, Iran
- 63. M.H.Khodami, **A.Salehi**, F.Akbari Boroumand, M.Massah Bigedli, S.Ghanbari, "Improving organic solar cells based on MEH-PPV:C₆₀ heterostucture", Conference of nano structure solar cells, Sharif university,13.11.2014, Tehran, Iran
- 64. V. Nazerian, **A. Salehi**, "A new hydrogen sensor based on a Ni/Al₂O₃/Ni/n-Si magnetic tunneling transistor", submitted to 2012 IEEE sensors conference, October 28-31, 2012, Taipei, Taiwan.
- 65. **A. Salehi**, V. Nazerian, "Characterisation of Ni/Al₂O₃/Ni/n-Si magnetic transistor as a highly sensitive hydrogen gas sensor", IEEE sensors 2011 conference, Limerick, Ireland, October 28-31, 2011.
- 66. V. Nazerian, **A. Salehi**, "Presentation of a new gas sensor using magnetic tunnelling transistor based on spintronic", ICEE2011, Amirkabir University, 17-19 May 2011, Tehran, Iran.
- 67. A.R. Amin, A. Salehi, M.H. Ghezelayagh, "BJT Circuits Simulation including Self-Heating Effect using FDTD Method", China, APEMC2010.
- 68. **A. Salehi**, M Gholizadeh, "MOSFET sensor with transparent ITO gate electrode for carbon monoxide setection", First Bio-Sensing Technology Conference, Bristol, UK (10-12 November 2009)
- 69. **A. Salehi**, H. Sadeghi, M. Gholizadeh, M. J. Kiani, V. Nazerian, "Design and fabrication of SnO₂ thin layer gas sensor using sol gel technique", 17th Iranian conference on electrical engineering (ICEE2009), Tehran, Iran (12-14 May 2009)
- 70. M. Gholizadeh, M S. Hasan Abadi, A. Salehi, "Modelling and Simulating MOSFET Gas Sensor with Pt Gate for Hydrogen Detection", 213th ECS Meeting, The Electrochemical Society, USA, Phoenix, Arizona (18 23 May 2008)
- 71. V. Nazerian, **A. Salehi**, H. Sadeghi, "Ni/Si Magnetic Schottky sensor" 15th ICEE 2007, Tehran (15-18 May 2007)
- 72. **A. Salehi**, M. M. Lajvardi, M Gholizadeh, "Design and fabrication of MOS gas sensors using ITO thin layer" 15th ICEE 2007, Tehran (15-18 May 2007)
- 73. **A. Salehi**, D. Jamshidi Kalantari, A. Goshtasbi, "Rapid Response of Au/Porous-GaAs Humidity Sensor at Room Temperature" Optoelectronic and Microelectronic Materials and Devices, 2006 Conference on Volume, Issue, 6-8 Dec. 2006 Page(s):125 128
- 74. V. Nazerian, A. Salehi, "Magnetic Ni/n-Si- Schottky contact as hydrogen gas sensor", IEEE, COMMAD06I,D50, Australia, 2006.
- 75. **A. Salehi**, S.E. Mirzaee, M. Gholizade, "Design and Fabrication of thin film gas sensors using SnO₂ by ultra sonic waves" 14th ICEE 2006, Tehran (16-18 May 2006)
- 76. A. Salehi, A. Nikfarjam, D. Jamshidi Kalantari, "A room temperature operated fast response humidity sensor for diagnosis of pulmonary disease", Advanced Sensor

- Technologies Conference for "NDE and structural health monitoring II" 26 Feb-2 March 2006, San Diago, California, USA.
- 77. **A. Salehi**, D. Jamshidi Kalantari, "A room temperature operated fast response humidity sensor based on Schottky contacts", 10th Eropean conference on solid state chemistry (ECSSC), Sheffield, UK, 2005.
- 78. **A. Salehi**, A. Nikfarjam, D. Jamshidi Kalanatri, "Pd-porous GaAs Schottky contact for hydrogen sensing application at room temperature" COMMAD2004, Brisbane, Australia, 8-10 December 2004.
- 79. **A. Salehi**, "Gas sensing properties of proton implanted Indium-doped SnO2/GaAs Schottky contacts", International Conference on Atomic Collisions in Solids (ICACS21), Genova, Italy 4-9, 2004, p. 87.
- 80. M. Salimi, M. Bathaee, A. Salehi, "A new control method for photovoltaic converters" 18th international conf. on elect. Eng., Tehran, Sep. 2003.
- 81. M. Salimi, M. Bathaee, A. Salehi, "The losses in semiconductor facilities of power invertors", FACTS, Tehran, Oct. 2003.
- 82. **A. Salehi**, A. Bala-Rastaghi, "Design and fabrication of IR-LED as a detector using GaAs semiconductor", International Conference on Space Applications, Isfahan, Iran, Dec. 2003
- 83. **A.Salehi**, M. Gholizadeh, M. S. Lotfi Mtlagh, M. Dashti "Opto electronic properties of SnO2 thin film deposited by spray pyrolysis and its characteristics on gas sensors, ICEE2004 conference, Mashad, Iran, 12-14 May 2004.
- 84. **A. Salehi**, A. Nikfarjam, M. Hashemi, "Gas sensors using ITO/n-GaAs and Au/n-GaAs Schottky contacts", ICEE2004 conference, Mashad, Iran, 12-14 May 2004.
- 85. **A. Salehi**, M. Gholizadeh, "Improvement in gas sensing properties of indiumdoped SnO2 thin films", COMMAD 2002, IEEE, Sydney, Australia, Dec. 2002.
- 86. **A. Salehi**, M. Gholizadeh, "Design and Fabrication of thin film gas sensors by CVD method", ICEE (2002), Tabriz, Iran, May 2002.
- 87. **A. Salehi**, "Effects of proton implantation on selectivity enhancement of sputter deposited indium tin oxide gas sensors", IEEE sensors 2002, Aug. 2002, Orlando, USA.
- 88. **A. Salehi**, "Radiation damage in ITO/GaAs contacts", 19th international conf. on atomic collisions, Paris (2001).
- 89. **A. Salehi**, "Characteristics of ITO/AlGaInP LEDs" ICEE2001, 9th Iranian Conference on Electrical Engineering, May 2001, Tehran, Iran
- 90. H. Babaei, **A, Salehi**, "Characterization of graphite thick film fabricated by LPCVD", ICEE Tehran, Iran (1999).
- 91. D. V. Morgan, A. Salehi, "Post deposition annealing effects on opto-electronic properties in sputtered ITO thin films, ICEE (1998), Tehran.
- 92. **A. Salehi**, D.V.Morgan, R.W.Bunce,"The thermal stability of evaporated ITO/n-GaAs Schottky contacts in different atmospheres", ICEE (1995) Tehran.
- 93. D. V. Morgan, D.V.Morgan, Aliyu, A. Salehi, R. Bunce, "Sputter induced damage in ITO/n-GaAs Schottky barrier contacts", Workshop on compound semiconductor devices and integrated circuits, Cork, Ireland (1994).

Patents:

- 1) Pt-MOSFET hydrogen gas sensor, Patent No. 55359 (Iran-2009)
- 2) ITO-MOSFET hydrogen gas sensor Patent no. 55458 (Iran-2009)
- 2) Pt-MESFET gas sensor, Patent no. 57836 (Iran-2009)
- 4) ITO-MESFET gas sensor, Patent No. 57835 (Iran-2009)

Books:

- 1) Semiconductor Devices, Published by K.N.Toosi University of Technology, Tehran, Iran, 2004, 2015, ISBN:964-94808-9-7...
- 2) An Introduction to Semiconductor Microtechnology, Published by K.N.Toosi University of Technology, Tehran, Iran, ISBN:978-600-7867-11-2, 2002, 2015.
- 3) Study in the UK and Ireland, published by Gonbadhaye Firouzehei, Isfahan, Tehran, 2011, ISBN:978-600-90743-7-2
- 4) How to write a scientific article, published by K.N.Toosi university of Technology, 2014, ISBN:978-600-6383-60-6
- 5) Semiconductor Devices, 2nd Edition, Published by K.N.Toosi University of Technology, Tehran, Iran, 2014, ISBN:978-600-6383-58-3
- 6) Research methodology, published by K.N. Toosi university publication centre, 2014, ISBN: 978-600-6383-66-8