



Curriculum Vitae

Personal Particulars

Name	Mohamed Basheer Saleh (Mohamed B. Saleh)
Occupation	- Professor at Arab Academy for Science, Technology and Maritime Transport – South Valley Branch - Director of South Valley Branch
Nationality	Egyptian
Birth Date	17-11-1942
Languages	Arabic – Mother Tongue, English – Excellent French – Excellent

Contact Details

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Qualifications

Degree	Collage	Period
B.Sc.	Electronics, Alexandria University/ Faculty of Engineering,	Jun 1966
M.Sc.	Electronics, Alexandria University/ Faculty of Engineering	Feb 1973
Ph.D.(DSC)	Electronics, University Paul Sabatier de Toulouse/France.	Jun 1979

Work Experiences		
Position	Place	Period
Member of Solar Cells Fabrication Group	Alexandria University Research Center, Alexandria – Egypt	Jan 1979 - Sep 1980
Chairman of Photovoltaics Department	Photovoltaics Department Electronics	Jan 1979 - Dec 1980
Member of Solar Cells Fabrication Project	Alexandria University Research Center, EGYPT and Eindhoven University, HOLLAND	Jan 1982 - Jan 1987
Principal Researcher and Supervisor of Solar Cells Research Projects	Ministry of industry and Academy of Scientific Research and Technology, Cairo – EGYPT	Jan 1987 - Jan 1988
Chairman of Electronics and Computer Department	Electronics and Computer Department Arab Academy for Science & Technology, Alexandria – EGYPT	Jan 1990 - Jan 1994
Chairman of Electronics and Communications Department	Arab Academy for Science & Technology, Alexandria – EGYPT	Jan 1994 - Jan 1995
Chairman of Engineering Postgraduate Studies Department	Arab Academy for Science & Technology, Alexandria – Egypt	Jan 1995 - Jan 1998
Member of National Committee of Photovoltaic Cell	Academy of Scientific Research and Technology, Cairo-EGYPT	Jan 1996 - Jan 1997
Chairman of Electronics and Computer Department	Arab Academy for Science & Technology, ABU DHABI Branch	Jan 1998 - Jan 2001
Chairman of Electronics and Communications Department	Arab Academy for Science & Technology Cairo Branch	Jan 2001 - Jan 2005
Dean of Education Affairs	Arab Academy for Science, Technology & Maritime Transport, South Valley Branch-	Jan 2006 - Jan 2011
Director of South Valley Branch	Arab Academy for Science, Technology & Maritime Transport, South Valley Branch-Aswan	Jan 2011 - up till now

Fields of Interest	Material Science Engineering
	Solar cells
	Nanoparticles applications
	Carbon Nano- Tube (CNT) and Graphene applications
	Transparent Conducting Oxide thin films (FTO, ITO, AZO, ZnO....)
	THz Waveguide applications
	Functional Material in super-capacitors Applications
	Organic and non-organic solar cell
	MOSFET layout design
	Microstrip patch antenna in different applications

Teaching Courses

undergraduate students	<ul style="list-style-type: none"> • Solid states electronics • Electronic materials • Electronic devices I • Electronic devices II • Electronic Measurements • Acoustics • Measurements & instrumentation • photonic devices • VLSI fabrication &testing
Courses for postgraduate students (M.Sc. Students)	<ul style="list-style-type: none"> • Photonic Devices • Automated Measurements

Funds and Projects	<ul style="list-style-type: none"> • Solar Cells Fabrication Project Eindhoven University, HOLLAND Funded Project • Solar Cells Research Projects Ministry of industry and Academy of Scientific Research and Technology, Cairo – EGYPT Funded Project
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List of Publications

1. "Reduction of Noise in Fibrous Materials", M.B.Saleh, M.SC.Thesis Fac.Eng., Alex.Univ.,Egypt, June 1973.
2. "Contribution a l' Etude des Proprieties de Conduction Electronique et d'Elastoresistance des Couches Minces de Bismuth ", M.B.Saleh.,These Doctrat d'Etat, University Paul Sabatier de Toulouse, France , June 1979.
3. "Resistance de Forte Valeur par Implantation d'Ions Metalliques dans la Silice Thermique" , D,Esteve, J.Buxo,G.Sarrabayrouse and M.B.Saleh, 4eme Congres International A VISM,47,Toulouse, pp.302-311 , October 8-11,1974
4. Amelioration de la Derive dans le Temps, du Fluage et de la Derive Thermique des Capteurs de Pression a Jauges Deposés sous Vide" ,C.Pourcel , G.Dorville,M.B.Saleh, D.Esteve, J.Buxo, Rapport Annual de Contract DGRST.LAA.S.Ets Jules Richard,No.77-07-0110,1978 .
5. Amelioration de la Derive dans le Temps, du Fluage et de la Derive Thermique des Capteurs de Pression a Jauges Deposés sous Vide" ,C.Pourcel , G.Dorville,M.B.Saleh, J.Buxo, D.Esteve, J.Berty and M.Brieu, Rapport Annual de Contract DGRST.LAA.S.Ets Jules Richard,No.77-07-0110,1979 .
6. "Electrical and Elastoresistance Properties of Evaporated Thin Films of Bismuth" , M.B.Saleh, J.Buxo, G.Dorville, and G.Sarrabayrouse, Revue de Physique Appliquee, Tom 14 .pp.405-413,1979 .
7. "Structural Study of Bismuth Films and it Consequences on their Electrical Properties " , J.Buxo, M.B.Saleh, G.Sarrabayrouse, G.Dorville, J.Berty,and M.Brieu,Revue de Physique Appliquee,Tom 15 ,pp.961-972.1980.
8. " Electrical Conduction Mechanism in Ultra thin Metal Films " M.B.Saleh and Esmat A.F.Abdallah, Armed Forces Scientific Research Bulletin, Vol.IX,30,pp.103-112,1982.
9. "Effect of Annealing on silicon Rod Solar Cells",H.H.Afifi,M.B.Saleh, and F.Forrat, Bulletin of National Research Center, Vol.7,pp.605-610,1982 .
10. " Characterization of Fabricated Silicon Solar Cell " , H.F.Ragaie,S .Nashed, M.B.Saleh and M.M.Seddik, Second International Conference on Technology for the development, Vol.1,Cairo, May 15-18,pp. 297-305.1982 .
11. "Non – Radiative Recombination Centers in Zn-Diffused Gas Lifght Emitting Diodes " , 1.M.Motawie.M.B.Saleh, M.A.Riad, Armed Forces Scientific Research Bulletin,XV,34,pp.11-21 , 1984 .
12. "Design Parameters of Asymmetric Coupled Microstriplines" , Nabil A. El-Deep, Esmat A. Abdallah and M.B.Saleh, 25th Midwest Symposium on Circuits and Systems , pp.371-375, 30-31, August 1982 .

13. " Design Parameters of Inhomogeneous Asymmetrical Couples Transmission Lines ",Nabil A.El-Deeb , Esmat A.Abdallah and M.B.Saleh IEEE Transaction on Microwave Theory and Techniques , Vol.MTT-31, No.7, pp.592-596, 1983.
14. "P-N junction Silicon Solar Cell Fabrication by C.V.D Technique " Final Repport , M.B.Saleh and G.I .Mansour , Eindhoven , 1983 .
15. " Local Fabrication of Microstrip Circuits in NRC,Egypt " , Esmat A.F.Abdallah and M.B.Saleh , National Radio Science Symposium on Electromagnetic Waves ,Cairo, pp.314-326, February 21-22,1983 .
16. " Theory , Design and Fabrication of Microstrip Tapers for Impedance Matching Sections", Esmat A.F. Abdallah and M.B. Saleh , Bulletin of National Research Center, Vol.8,3, pp 379-389,1983.
17. "High Value Resistors for Microcircuits ", M.T.El-Hagry ,I.M.Motawie and M.B.Saleh , Armed Forces Scientific Research Bulletin , Vol.XVI,35, pp.133 -140 ,1984 .
18. " Comments on the Design Parameters of Nonsymmetrical Coupled Microstips", V.K.Tripathia , N.A.El-Deeb, E.A.F.Abdallah and M.B.Saleh, IEEE Trans. On Microwave Theory and Technology, Vol.MTT32, No.5,(Letter) , pp.561-563, 1984 .
19. " R & D of Micro- Electronics in Egypt ", M.B. Saleh and Esmat A. Abdallah, Workshop on Regional Silicon Foundary and Design Center, Algeria, January 27-29, 1986 .
20. "Dependence of Minority Carrier Lifetime in P-N Junction Silicon Solar Cells on Cooling Rate ", N.G. Gomaa , M.B. Saleh and M.M.Shabana, Bulletin of Fac. Eng.,Alex.Univ., Vol.XXXVI, pp.397-408, 1987 .
21. "Solar Cell Minority Carrier Diffusion Length Measurement Using Spectral Response Method " , N.G.Gomaa, M.B Saleh and M. M. Shabana , Bulletin of face .Eng .,Alex.Univ.,Vol.XXVI,,pp.409-415.1987 .
22. "Study of Series Combination of Non –Identical Solar Cell Panels",S.H . El-Hefnawi , M.B.Saleh and H.H.Afifi . Bulletin of National Research Center. Vol.13,3,pp.207-216,1988 .
23. "Front –Layer Design Optimization for Photovoltaic Solar Cell under Concentrated Sunlight " , M.B.Saleh , S.H. El-Hefnawi and Esmat A.Abdallah , Bulletin of National Research Center, Vol.13,3,pp.217-227,1988.
24. "Investigation of Aluminum Contact for use in Silicon Solar Cells" , M.B.Saleh , S.H.El-Hefnawi and M.A.Riad, Journal of Egyptian Society of Engineers , Vol.28,3,pp.44-46,1988 .
25. " New Characterization of P-N Junction Silicon Solar Cells", M.B.Saleh ., and N.G.Gomaa, Egyptian Journal of Solids , Vol.10,1,pp.11-17,1989 .
26. "Microcomputer Control Solar Tracking System", M.T.El-Hagry , M.B.Saleh and

I.M.Motawie,Cairo International Symposium on Renewable Energy Sources, Cairo,June13-16,1988.

27. "Determination of Series Resistance of Photovoltaic Array", M.B.Saleh, S.H.El-Hefnawi, H.H.Afifi and M.T.El-Hagry, Bulletin of National Research Center, Vol.13,3,pp.229-238,1988 .
28. "Role of Electricity on the Healing of Diaphysical Tibial Fracture", Bulletin of faculty of Medicine, University of Alexandria, Vol.23,1,pp.65-71,1988 .
29. "Optimization of Grid Design for Solar Cells at Different Illumination Levels", (short paper) , M.M.Shabana, M.B.Saleh and M.M.Soliman ,Chemtronics , published by Butterworth Scientific Ltd., Vol.4,pp.97-99. 1989 .
30. "Optimization of Grid Design for Solar Cells at Different Illumination Levels", M.M.Shabana, M.B.Saleh and M.M.Soliman , Solar Cells ,Vol 26, pp.177-187.1989 .
31. "Effect of Series Resistance on Solar Cell Performance at High Illumination Levels ", M.B.Saleh, M.M.Soliman, World Renewable Energy Congress , Reading, U.K.,September 23-28,pp.376-380.1990 .
32. "Fabrication and Characterization of Silicon Photovoltaic Cells for Solar Energy Conversion ", F.A.Soliman ,M.B.Saleh, M.H.El-Fouly and M.A.El-Ashry, World Renewable Energy Congress, Reading UK,September 23-28,pp.135-140.1990 .
33. "Controlable Diffusion Parameters with Chemical Vapour Deposition for P-N Junction Silicon Solar Cells ", M.B.Saleh and M.R.Rizk, N.G.Gomaa, Journal of Materials Science ,Vol25,pp.2077-2081,1990 .
34. "Environmental Study of Locally Made PV Modules in Egypt", M.B.Saleh, M.M.Shabana and M.R.Rizk, ISES Solar World Congress 1991 . Denver , Colorado , pp52-55.August 19-23,1991 .
35. "A New Analytical Model of GaAS MESFET's : DC and Sensitivity Analysis ", M.B.Saleh, M.R.M.Rizk , A.K.Abu El-Seoud and A.y.El-Sherif, 35 th Midwest Symposium on Circuits and Systems , Washington, DC, pp 404-407. August 9-12, 1992 .
36. "Photovoltaic Tracking Inverter", M.T.El-Hagry, M.B.Saleh and T.F.Elshater , 35 th Midwest Symposium on Circuits and Systems , Washington , DC, pp114-117. August 9-12,1992 .
37. "Solar Cell Characteristic Under High Level Injection", M.M.Shabana, M.B.Saleh and M.E.Attalla , Second World Renewable Energy Congress,Reading, U.K,pp.328-332.September 13-18,1992 .
38. "Evaluation of MIS Solar Cell Series Resistance ", M.B.Saleh and A.K.Aboul-Seoud, The Tenth National Radio Science Conference ,Cairo-Egypt ,pp.(1-8) 06 , February 16-18, 1993 .
39. "Intrinsic GaAS Mesfet Equivalent Circuit Generated from Analytical Model ", M.B.Saleh, A.Y.El-Sherif , A.K.Aboul-Seoud , and M.R.M.Rizk, 36th Midwest

Symposium on Circuits and Systems , Detroit , Michigan pp.574-577, August 16-18 , 1993 .

40. "Numerical Modelling of an Amorphous-Silicon – Based p-i-n Solar Cell." ,M.M.Shabana, M.B.Saleh and S.M.Mokhtar , The 5th International Energy Conference , Seoul, Korea, pp.647-655 October 18-22,1993 .
41. "Annealing – Induced Charges of Recombination Centers in Silicon Solar Cell"., N.G.Gomaa , M.B.Saleh, M.M.Shabana and M.Soliman , Third World Renewable Energy Congress, Reading , U.K., PP 1742-1744. September 11-16,1994 .
42. "Evaluation of Photovoltaic Pumping System Performance " , M.B.Saleh , E.M.El-Rafey , Third World Renewable Energy Congress, Reading U.K., , pp 1745-1747 . September, 11-16, 1994 .
43. "Bandgap Profiling of Amorphous Si-Ge p-i-n Solar Cells "M.M.Shabana , M.B.Saleh, T.A.Namour and S.N.Mokhtar , Presented at 13th European Photovoltaic Solar Energy Conference and Exhibition, Nice, France , October 23-27, 1995 .
44. "Evaluation of Microwave GaAS MESFET Performance" M.B.Saleh, A.Y.El-Sherif and M.R.M.Rizk 38th Midwest Symposium on Circuits and Systems, Rio De Janiro , Barazil , pp1216-1219,August 16-18,1995 .
45. "Engineering Graduate Studies in Arab Academy for Science & Technology " , T.S.El-Gamal, M.B.Saleh , Graduate Studies Conference, Cairo ,April 23-24,1996 .
46. Locally Fabricated Solar Panels.: Ten Years Evaluation M.B.Saleh, M.M.Soliman and M.M.Shabana, Fourth World Renewable Energy Congress , Denver,Colorado, USA, pp. 1464-1467, June 16-21,1996
47. " Solar Cells Shunt Resistance Effects- Efficiency and Hot Spot Analysis " M.M.El-Sherbini , M.M.Soliman and M.B.Saleh , Bulletin of Fac.Eng., Alex . Univ., Vol .35, No. 6.B 185-B193, 1996 .
48. "Investigation of Locally Available Solar Radiation Absorbents " , M.B.Saleh, E.M.El-Rafey , S.A.Attwi, H.M.Amer and H.A.Yakout , ISES Solar World Congress 1997 , Taejon , Korea, pp431-432 , August 24-30, 1997.
49. "Fuzzy Modelling of Photo Voltaic Panel Equivalent Circuit " M.T.El-hagry , M.B.Saleh , E.M.Abou-Thahab , A.A.El-Kousy and S.EL-Shater the 40th Midwest Symposium on Circuits and Systems , Sacemento, C, US, pp.60-63 , August 3-6, 1997 .
50. "Modeling of MIS Inversion Layer Solar Cell Performance " M.B.Saleh , A.K.Aboul-Seoud, M.M.Soliman and M.E.Attalla,accepted for publication in Journal of Solar Materials .
51. "Open Integrated Education Environment (OIEE) " , M.B.Saleh , M.El-Gamal and M.M.El-Shirbini , ICEE-1997, International Conference on Engineering Education , Chicago , Illinois , USA, August 14-15,1997 .
52. "Modeling of Photovoltaic Systems Equivalent Circuit Using Fuzzy Regression " . M.T.Elhagry , M.B.Saleh , E.M.Abou Elzahab, A.T.Elkousy and T.F.Elshater, , Fourth

IEEE International Conference ICEC.97,Cairo,pp.1329-1333, Dec.15-18,1997.

53. "Optimization of Graded Bandgap Solar Cells" M.B.Saleh, T.A.Namour and A.K.Aboul Seoud , accepted for presentation at the fifth World Renewable Energy Congress ,Florence , Italy, Sept.20-25,1998 .
54. "The Cross-Over Phenomena for Thin Film Heterojunction Solar Cells" M.M.Soliman , G.M.Eldallal , M.B.Saleh , accepted for presentation at the fifth World Renewable Energy Congress, Florence , Italy, Sept.20-25,1998.
55. "A New Model for MIS/IL Silicon Solar Cells " M.B.Saleh, A.K.Aboul-Seoud, M.M.Soliman and M.E.Attala , accepted for presentation at 2nd World Conference and Exhibition on Photovoltaic Solar Energy ,Conversion , Wien, Austria, July 6-10, 1998 .
56. "Solar Cell Materials" M.M.Shabana, M.B.Saleh, M.M.Soliman and N.M.Gaber , accepted for presentation at Riad , Saudi Arabia .
57. "Characterization of Materials used in Photovoltaics " M.M.Soliman, N.M.Gaber, M.B.Saleh and M.M.Shabana, accepted for presentation at Riad , Saudi Arabia .
58. "Effects of Material Properties on MIS/IL Silicon Solar Cells ,submitted for presentation in 1998 IEEE,M.B.Saleh, M.E,Attala and A.S.Hafez Asia Pacific Conference on Circuits and Systems, Nov.24-27,1998 Chiangmai , Thailand .
59. "Optimization of Graded Bandgap Profile in PIN a-si:H Solar Cells",M.B.Saleh, T.A.Namour, A.K.Aboul Seoud and S.M.Mokhtar, accepted for presentation at SPIE Microelectronic Device Technology II, Santa Clara, CA,Sepr.23024,1998 .
60. "ITO Transparent Gates Over Si₃ N₄ Layer for A Novel IT-CCD Image Sensor with Reduced Vo D Structure ."S.M.Abdallah , M.B.Saleh , and A.K.Aboul-soud . 19th National Radio Science Conference (NRSC 2002) , Alexandria , Egypt . pp 565-574 , March 19-21/2002.
61. " Temperature Dependence for Cross –Relaxation Rate of Thulium Doped Fiber Amplifiers in Different Glass Hosts " M.B.Saleh , M.H.ALY.and N.A.Hazzem , 22nd National Radio Science Conference (NRSC 2005) , PP.D71- D77. Cairo – Egypt , Marc 15-17 .
62. " Gain and Noise Figure of S-Band TM-Doped Fiber Amplifiers Using Different Hosts " M.B.Saleh, M.H.Aly , and N.A.Hazzem , Third Saudi Technical Conference and exhibition , 11-15 December , Riad , Saudi Arabia , Vol IV , PP 99-104, 2004 .
63. " An Analytical Model for Silicon MIS/IL Solar Cells Parameters Through Thermal Annealing " , A.K.Aboul – Seoud , M.B.Saleh , M.M.Soliman , and M.E.Attala . Solar Energy Materials & Solar Cells 55, pp 303-312, 1998 .
64. " Current Components Analysis of MIS/IL Solar Cells for different Fabrication Parameters " , M.E.Attala , M.B.Saleh , A.K.Aboul-Soud, and M.M.Soliman . Renewable Energy 23, pp 375-381, 2001 .
65. " Computer Modeling For MIS/IL Solar cells " ,M.B.Saleh , M.M.Soliman , M.E.Attala , and A.A.Hafez " 8th International Conference in Computer Theory and Applications ,

Alexandria – Egypt , pp 19-23, 15-17 Sept.,1998.

66. " A General Overview of Solid States Imaging Sensors Types " S.M.Abdallah, M.B.Saleh and A.K.Aboul –Soud , Third Workshop on Photonics and applications , Giza – Egypt , 5th Jan, pp 2-10, 2002 .
67. " Random Potential Perturbation Effect on A One Dimensional Parabolic Quantum Dot " , M.B.Saleh , H.M.El- Matbouly and Moatz .M.Soliman, 21st National Radio Science Conference (NRSC 2004) , March 16-18 NTI, Cairo , Egypt , 2004 .
68. " A Study of the spectral Density of a quantum Wire Using Propagator Expansion " , M.B.Saleh , H.M.El- Matbouly and Moatz .M.Soliman – Not yet Published .
69. " Gain and Noise Figure of S-band Tm-doped Fiber Amplifiers Using Different Hosts " M.B.Saleh , Moustafa .H.Aly , And N.Azzam . Third Saudi Technical Conference and Exhibition , Saudi Arabia , 11-15 Dec.2004, pp99-104 .
70. " Axial Temperature Distribution in w-tailored Optical Fibers " M.I.Shehata , Moustafa .H.Aly and M.B.Saleh , Fifth Saudi Technical Conference and Exhibtion , Saudi Arabia , 11-15 Dec 2008 .
71. " Duobinary Modulation Format and Unequal Channel Spacing Integration to Suppress Four-wave Mixing Crosstalk in WDM Systems " Bassem .K.Abdelrazek ., Moustafa .H.Aly , And M.B.Saleh , April 2011.
72. "Evaluation of photovoltaic properties of nanocrystalline-FeSi₂/Si heterojunctions" Shaban, M., Bayoumi, A. M., Farouk, D., Saleh, M. B., & Yoshitake, T, Solid-State Electronics 123, 111-118 2016.
73. "Preparation and Characterization of Fluorine Tin Oxide Using New Approach of Spray Technique and Electro Spinning Technique" Moataz B. Soliman, Mohamed B.Saleh, Sherif A.Khaleel, Marwa Adel. International Conference on Recent Innovations in Engineering and Technology (ICRIET) 25 -26 October 2016.
74. "Design of Wavelength Conveter Utilizing Various Types of Commercial SoAs Based On Fwm Technique And Operating At Speed Of 40Gbit/S" Mohamed B. Saleh, Osama A. Omer, Mohamed F. Ghazaly. International Conference on Recent Innovations in Engineering and Technology (ICRIET). 25 -26 October 2016.
75. "Two Inputs Xor Logic Gate Using Cross Phase Modulation Technique At Bit-rate of 10 Gbit/s" Mohamed B. Saleh, Osama A. Omer, Maram A. Abdelmawgoud. International Conference on Recent Innovations in Engineering and Technology (ICRIET). 25 -26 October 2016.
76. "Studying of Structural, Morphological, Optical and Electrical Properties of SnO₂: F Thin Films via Nebulizer Spray and Electro-spinning Techniques" M. B. Saleh, M .B .Soliman, S .A. Khaleel and M.Adel. 2nd International Conference on Advanced Technology and Applied Science (ICaTAS), 12-14, September 2017.