

Curriculum Vitae



Personal Data

First Name: Nouar

Middle Name: Amor

Family Name: Tabet

Occupation: Professor, Physics Department, KFUPM.

Nationality: Algerian

E-mail: natabet@kfupm.edu.sa

Web site: <http://faculty.kfupm.edu.sa/PHYS/natabet>

Research interest: Defects in semiconductors and oxides, Thin films for solar cells, Nanostructured materials, X-ray, Electron and Ion spectroscopies (SEM/EDS/EBIC, CL, XPS/XES/XAS, SIMS, ...)

Languages : Arabic, French, and English (fluent and advanced writing skills in the three languages).

Education

1988: Doctorat ès Sciences (PhD), in Materials Science, University of Orsay (Paris-Sud), France. Thesis entitled: "Electrical properties of bulk and grain boundaries of Ge polycrystals studied by Electron Beam Induced Current technique EBIC".

1980: Doctorat 3eme Cycle in Materials Science, University of Orsay, Paris, France, Thesis entitled: "Impurity diffusion of Co and Mg in pure and chromium doped nickel oxide".

1978: "Diplôme des Etudes Approfondies", DEA in Materials Science, (A grade), University of Orsay, Paris, France.

1977: DES (BSc) In Solid State Physics, University of Constantine, Algeria.

Awards

1. Research Excellence Award, KFUPM, 2011
2. Recipient of "Al Marai Prize for Innovation in Physics", 2004.
3. Award for Distinguished Services for the Physics Department and the College of Sciences, King Fahd University of Petroleum and Minerals, 2004.

Qualifications and Technical Skills

1. Extensive use of Scanning Electron Microscope (SEM) and related techniques, Experiment and Theory: Electron Beam Induced Current (EBIC) and Cathodoluminescence (CL).
2. Development of a Monte Carlo code to Simulate the Recombination Contrast of Extended Defects in Semiconductors.
3. Use of Surface and Bulk Analytical Techniques: Synchrotron based techniques: X-ray Photoelectron Spectroscopy (XPS), X-ray Absorption Spectroscopy (XAS), X-ray Emission Spectroscopy (XES), Energy and Waves Dispersive Spectroscopy (EDS/WDS), Secondary Ion Mass Spectroscopy (SIMS).

4. Use of WEBCT in teaching

Academic and administrative Positions

1. Coordinator of the Surface Science Laboratory, Physics Department, KFUPM, 1996-Now.
2. Member of the Executive Committee of the Center of Research Excellence in Renewable Energy (CoRERE), KFUPM, 2009-Now
3. Member of the Board of Directors of the Center of Excellence in Nanotechnology (CENT), KFUPM, 2008
4. Member of the Advisory Board of the Center of Mathematics and Theoretical Physics (CMTP), KACST, Saudi Arabia, 2007.
5. Member of the Selection Committee of the King Faisal International Prize for Science, 2000 and 2009.
6. Rector of the University of Constantine. Algeria, August 1990-October 1992 .
7. President of the Regional Council of the Eastern Universities of Algeria. 1990-1992.
8. Member of the National Scientific Committee (CNE), Algeria, 1992.
9. Member of the National Research Evaluation Committee, Algeria, 1990-1991.
10. Director of the Constantine University Review: "Science and Technology" 1991-1992.
11. Vice Rector of Constantine University in charge of Research and Graduate studies 1989-1990.
12. Director of the Cooperation and External Relations of the University of Constantine 1982-1984.
13. Director of the Solid State Physics Laboratory, Physics Department, University of Constantine, Algeria, 1982-1984.

Experience in Strategic Planning for Higher Education:

1. Member of the executive Committee of the 2nd Strategic Plan of King Fahd University for Petroleum and Minerals, 2011.
2. Member of KFUPM Consultant Team advising Hail University on academic affairs (teaching, faculty development and research), 2008.
3. Member of AAFAQ Team that developed a 25 year Strategic Plan for Higher Education in Saudi Arabia, Leader of the "Best Practices:" Team, 2007-2009.
4. Chairman of the Planning Committee of the College of Sciences, KFUPM, 2004-2005.
5. Chairman of the Planning Committee which developed a Strategic Plan for the Colleges of Sciences in the GCC, KFUPM, 2000.
6. Principal Investigator of a KFUPM funded Project entitled "Aligning Research with International trends". This project was part of KFUPM strategic Plan, 2007-2008

Scientific Visits

1. Visiting Scientist at MIT, Boston July 2009, May 2010, June 2011.
2. Visiting Scientist at the Advanced Light Source Division (ALS), Lawrence Berkeley National Laboratory, one month visits, July 2000 and June-July 2001, July 2009.

3. Visiting Scientist at the « Institut de Science et Genie des Materiaux », ODEILLO, CNRS / IMP FONT-ROMEUE, France. August 1998, July, 2002.
4. Visiting Scientist at the Institute of Physics and Technology, Almaty, Kazakhstan. August 2004. The visit was sponsored by the Comstech and the Islamic Development Bank (IDB).

Organization of International Conferences and Workshops

1. Member of the Scientific Program Committee of 26th ICDS 2013, Italy.
2. Co Chairman of the 11th *International Workshop on Beam Injection Assessment of Microstructures in Semiconductors (BIAMS11)*, to be held in Annaba, Algeria, 25-28 June 2012.
3. *“International Conference on Nanotechnology and Advanced Materials (ICNAM)”*, Bahrain 4-7 May 2009. Member of the International advisory committee
4. *“Nanotechnology: Little-Scale Revolutions to Mega-Scale Challenges in the Upstream E&P?”* SPE APPLIED TECHNOLOGY WORKSHOP, 3-6 February 2008 Dubai, United Arab Emirates, Member of the Steering Committee
5. Co-Chair of *“First Sharja International Conference on Nanotechnology and its Applications”*, Sharja, 10-12 April, 2007.
6. *“International Joint Conference on Knowledge Management for Composite Materials KMCM 2007 , Düsseldorf, Germany, 3-6 July, 2007”*, Member of Program Board
7. *Member of the International Scientific Committee of “Workshop on “Beam Assessment of Defects of Semiconductors (BIADS then BIAMS)*, Paris, (France, 1991), Bologna (Italy, 1993), El-Escorial (Madrid, Spain 1996), Wulkow) (Berlin, Germany 1998), Then the workshop became BIAMS (M for microstructures) and was held at Fukuoka, Japan, 12-16 November 2000, Lille (France), May 2003, St Petersburg, Russia, 11-14 June 2006, Toledo, Spain , 29-June-3 July 2008, Halle, Germany 4-8 July 2010.

Participation in International Conferences and Workshops

1. 38th IEEE Photovoltaic Specialist Conference, USA , Austin, Texas, 3-8 June 2012
2. International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials (ICWNCN), Delhi, India, 13-16 March 2012
3. 5th Saudi Science Conference”, Meccah, 2012
4. *“Saudi International Nanotechnology Conference 2010”*, Riyadh, 29-30 November 2010, *Invited talk*,
5. *“Saudi International Nanotechnology Conference 2010”*, Riyadh, 29-30 November 2010, *Invited talk*,
6. *“Summer Workshop on Clean Water and Clean Energy”*, MIT, Boston, 30 June-1 July 2009,
7. *“Seeing at the Nanoscale VII”*, Santa Barbara, CA, USA, 28-31 July 2009.
8. *“International Conference on Nanotechnology and Advanced Materials (ICNAM)”*, Bahrain 4-7 May 2009. Member of the International advisory committee.
9. *“Nanotechnology Conference”*, co-organized by the University of Jordan, the University of Illinois, and King Saud University, November 10-13, 2008 Amman, Jordan.
10. *“BIAMS’08 International workshop”*, Toledo, Spain, 29-June 3 July 2008.

11. *"Thin Films 2008 and NanoMan2008"*, Singapore. 13-16 July 2008.
12. *"Regional Workshop on Nanotechnology"*, Sultanate Oman, Mascot, 13th – 14th January, 2008, **Invited talk**.
13. *"International Workshop on Higher Education in the Kingdom of Saudi Arabia: Towards Excellence"*, London, 19-20 May 2007, Organized by AAFAQ Project and St Antony's College, University of Oxford, UK.
14. *"First Sharja International Conference on Nanotechnology and its Applications"*, Sharja, 10-12 April, 2007..
15. *"International Conference on MEMS and Nanotechnology"*, ICMN06, 11-14 March, 2006, Kuala Lumpur, Malaysia
16. *"Nanotech Insight 2005"*, Feb. 20-25th, Luxor, Egypt, 2005.
17. *"1st Nano-Engineering and Nano-Science Congress 2004"*, Singapore, 7-9 July 2004.
18. *"SESAME third users Meeting"*, Antalya, Turkey, 11 Oct. 2004 .
19. *"International Conference on Applied Physics AP2003"*, Spain, 13-18 Oct, 2003.
20. *"Beam Assessment of Microstructure of Semiconductors (BIAMS)"*, Lille, France , 25-29 May 2003.
21. *"7th International Conference on Nanometer scale Science and Technology (Nano-7- and 21st European Conference on Surface Science (ECOSS-21)"*, Malmo, Sweden, 24-28 June, 2002.
22. *"Asian Science Seminar on Synchrotron Radiation Science (JASS'02)"*, Al Balqa, Jordan, October 19-28, 2002, organized by the Japan Society for the Promotion of Science (JSPS).
23. *"Surface Physics Workshop SPW2002"*, Qaboos University, Muscat, Oman, 19-22 March. 2002.
24. *"First Saudi Science Conference"*, King Fahd University of Petroleum and Minerals, 2001.
25. *"Atomically Controlled Surfaces and Interfaces and Nanostructures (ACSIN-6)"*, Lake Tahoe, California, USA, July 9-12, 2001
26. *"Beam Assessment of Microstructure of Semiconductors (BIAMS)"*, 12-16 November 2000, in Fukuoka, Japan.
27. *"8th International Conference on Electronic Spectroscopy and Structure, ICEES-8"* held from 8 to 12 August, 2000, Berkeley, CA, USA
28. *"International Conference on Structure of Surfaces ICSOS-6"*, July 26-30, 1999 in Vancouver, Canada.
29. *"Vacuum Ultraviolet Radiation Physics (VUVXII)"*, San Francisco, USA, Aug. 3-7, 1998.
30. *"Beam Injection Assessment of Defects in Semiconductors (BIADS'98)"*, Wulkow, Berlin, Germany, Aug.31-Sept 4,1998
31. *"BIADS'96"*, El-Escorial, Madrid, Spain 1996
32. *"BIADS'93"*, Bologna, Italy, 1993.
33. *"Polycrystalline Semiconductors (POLYSE)"*, Malente, Germany, 1988
34. *"POLYSE'93"*, Saint Malo, France, 1993.
35. *"Maghreb Meeting of Materials"*, Algiers, Algeria, 1992.
36. *"American Society of Materials Meeting (ASM) on " Structure / Properties Relationship for Interfaces."*, Detroit, Michigan, USA, 1990, (Invited talk).
37. *"Intergranular and Interphase Boundary (IIB'89)"*, Paris, France, 1989.

38. "BIADS'88", Paris, France, 1988.
39. "NATO- Summer School on " Defects in Solids" , Cetraro, Italy, 1985.
40. "10th International Symposium on the Reactivity of Solids", Dijon, France, 1984.
41. "14th International Conference on Defects in Semiconductors ICDS-14", Paris, France, 1986.
42. "Third Arab Conference on Physics and Mathematics", Tunis, Tunisia, 1984.

Theses supervision

Theses in progress

1. M. Mekki, "Study of nanostructures obtained by ion irradiation of semiconductor surfaces", co-supervision, PhD, Durham, University. Sept.2006.
2. Asafa Tesleem: Ultra Thin SiGe for NEMS Applications" PhD thesis, Co-Supervision, cena-kacst sponsored research with INTEL (Leuven, Belgium).

Thesis committee member

1. Hasna AL Ali, King Faysal University, EL Ahsa, "Synthesis and characterization of Zn₂ SiO₄ nanoparticles via Sol-Gel Technique", 4 March 2012.
2. MUHAMMAD SALEEM : "FABRICATION AND CHARACTERIZATION OF IRON OXIDE THIN FILMS PREPARED BY THE THERMAL OXIDATION OF IRON", Master thesis in Physics, defense: 29-Apr-2012.
3. Adesina, Ayuba Adegoke, PhD Thesis, Chemical Engineering Department, KFUPM, May 2011.
4. Ghada Hadi Saud Sheetah " Sol gel Parameters effect on the structural and optical properties of ZnO Nanomaterials", MS thesis in Physics, King Faisal University, AL Ahsa, January 2011
5. Abdulaziz Hussain Al-Aswad: "Energy efficient coatings based on WO₃/Metal multilayers", Master Thesis, KFUPM, 28 January 2009.
6. Mahdi Al Maghrabi, "ZnO Thin films " Master Thesis, KFUPM, December 2008.
7. Bader Saad Al-HArthi: "Magnetic and Transport Properties of Er_{0.55}Sr_{0.45}Mn_{1-x}CrxO₃ Manganites" Master Thesis, KFUPM, Dec. 2008
8. Atif Ismael Abdurazzak " Synthesis and Magnetic Properties of ZnO:Cu Doped with Magnetic Impurities", Master Thesis, KFUPM, June 2008
9. Yin Ruchuan, "Carburization Behaviour of Iron -Based Alloys in Methane/Hydrogen Gas Mixtures", Phd Thesis, Mechanical Engineering Department, KFUPM, May 2002.
10. Hala Hashem Muhammed: " Study of the effect of Gamma-ray Radiations on the Magnetic and superconducting Properties of GdBa₂Cu₃O_{7-x} ", Master Thesis, Girls College, Dammam, 2006.
11. Fuad Enaya : "Magnetic and Scaling Properties of YBa₂Cu₄O₈ High Temperature Superconductor", Master Thesis, KFUPM, 1998
12. Ezzat Omar Abdullah Abu Azzah: " Localization and Delocalization Studies in One Dimensional Electronic Disordered Systems", Master Thesis, KFUPM, 1998.

Theses supervised and completed

1. R. Al Gaashani, "Design and Test of a Microwave Heater", KFUPM, June 2008.
2. M. Hezam, "Study of the electrical and structural properties of pure and doped ZnO thin films obtained by reactive DC- Magnetron Sputtering.", Master Thesis, KFUPM, 2006
3. Amal Lafi Al-Oteibi, PhD Thesis, Physics Department, Girls College of Girls, Dammam, Saudi Arabia, "Study of the growth and the electrical properties of Zinc Oxide films" September 2006
4. N. Boulares, PhD thesis, Physics Department, University of Constantine, Algeria. Title: " Synthesis and study of the structural and catalytic properties of Zinc Oxide nanopowders". June 2005.
5. Mohamed Ledra, PhD thesis, Physics Department, University of Constantine, Algeria. Title: "Monte Carlo Simulation of the recombination Contrast of Defects in Semiconductors". Expected end: June 2006.
6. Lafi Al-Oteibi, Master Thesis, Physics Department, Girls College, Dammam, Saudi Arabia, . "X-ray Photoelectron Spectroscopy (XPS) Investigation of Ge surface oxidation under dry oxygen, 2000.
7. Jihad H. Al-Sadah "XPS Study of the Growth Kinetics of Germanium Oxide Thin Films Obtained by Thermal Oxidation of Germanium Single Crystals" Physics Department, KFUPM, 1999.
8. Y. Beggah, Master Thesis, University of Constantine, Algeria, (1992), Title: "EBIC signal Modeling, effect the generation function shape on the efficiency curves of a Schottky contact".
9. T. Ait Ahcene, Master Thesis, University of Constantine, Algeria (1992). "Synthesis and characterization of ZnS thin films prepared by evaporation techniques" .
10. N. Boulares , Master Thesis, University of Constantine, Algeria (1994), "on the fabrication and characterisation of ZnO varistors"
11. Mekki D., Doctorat d'Etat (PhD), University of Annaba, Algeria, (1994). "on the EBIC contrast of defects and Injection level effect on the collection efficiency of Schottky diodes"
12. M. Ledra, Master Thesis, University of Constantine, Algeria (1996), " Simulation of the electron trajectories in semiconductor and calculation of the generation function of electron-hole pairs".
13. L. Bouchetout Master Thesis, University of Constantine, Algeria (1986) "On the germanium diffusion in silicon". The thesis was co-supervised by C. Monty LPM-CNRS-Bellevue, France.

Research

Funded Project

1. "PV Fundamentals", course on PV technologies, funded by KFUPM, in collaboration with MIT. Start: Sept 2011
2. "Preparation and Study of Nanostructural and Optical properties of Zinc Oxide: Amal AL Oteibil, Dammam University , Consultant, Start Sept 2011

3. "Investigation of the electrical properties of novel a-Si thin films based structures for solar cells" Proposal, N. Tabet (PI) Co-Is: A. Amir, A. Afzaal, K. Hossain, Dr Said Seyed Submitted to NSTIP. 2010.
4. "Oxygen vacancies effects on the properties of ZnO-TM". K. Ziq (PI), **N. Tabet** (Co-I), A. Ghannam, A. F. Salem, M. Dastageer, KFUPM Funded Projected, 2010. Start Sept. 2010
5. "Biocompatible and Biodegradable Polymer Nanoparticles For Cancer Cell Imaging", N. Maalej (PI), Abdul Hafez Selim, Hasan Al-Muallem, Bassam Alamuddine and **N. Tabet**, NSTIP Funded Project, 2010,
6. "*Synthesis of Nanostructured ZnO and Development of sensing and biomedical applications*", N. Tabet (PI), M. Faiz, N. Maalej, A. Mekki, A. Sunaidi, Z. Yamani. Funded by KACST 2009. Completed
7. "Electronic Enhancement of a-Si:H via Engineering Thin-Film Stress " as of Sept. 1/2011", N. Tabet (PI), A. Amir S. Said, A Sunaidi, collaboration with MIT (USA) ; T. Buonassisi (PI), J Grossman, E Johlin, and T. Mueller
8. "*Study of the Structural Properties and Hydrodesulfurization Activity of MoS₂ and Co/MoS₂ Catalysts Prepared by Laser Pyrolysis*", Z. Yamani (PI), N. Tabet, S. Ali, F. Schuster (CEA-France), Funded by Center of Excellence on Nanotechnology (CENT-KFUPM), Approved. start on September 2008.
9. "*Investigation of the Possibility of Enhancing the Processability of Polyolefins by using Nanoclay Additives*" Approved for funding to KACST, 2008. Ibnelwaleed A. Hussein (PI) , Abdulhadi A. Al-Juhani and Nouar Tabet (Cols), Jose Covas (Consultant).
10. "*Aligning research at KFUPM with International Trends*", Approved and Funded by Office of Quality, KFUPM, Jan. 2007. N. Tabet (PI), B. Yilbas, I. Hussain and M. Kariapper (Co-Is), 2007. Final report submitted, April 2009.
11. "*DC-Magnetron sputtering Synthesis and characterization of the physical properties of Zinc oxide thin films*", KFUPM funded Project, N. Tabet (PI), A. Mekki (Co-I) and K. Mezghani (Co-I), INT-2006/299. Completed.
12. "*Investigation of the effect of the preparation conditions on the properties of barium cuprate thin films obtained by DC magnetron sputtering technique*", SABIC project, 2004-2006, M. Faiz (PI), N. Tabet Co-I. Completed.
13. "*Design of a microwave heater to be used in a kitchen microwave oven* " S. Al Quraishi and N. Tabet, College Grant, 2006. Completed
14. "*Investigation of the growth and the electrical properties of thin oxide layers obtained by dry oxidation of zinc substrates*", KFUPM, Fast track Project FT-2002/03, N. Tabet (PI), M. Faiz (Co-I). Completed.
15. "*X-ray Photoelectron Spectroscopy (XPS) and Magnetization Studies of Strontium-Borate Vanadate Glasses*" KFUPM, Fast track Project FT-2002/05, Dr. G. Khattak (PI), N. Tabet (Co-I), Completed, 2004
16. "*Carburization and Metal Dusting Failures of High temperature Alloys*", Co-investigator, KACST Project, No AT-17-33, KFUPM, 1999-2002. Completed
17. "*Galvanization of Steels containing silicon*" , Co-investigator ONRS project, 1982-1984
18. "*Elaboration and characterization of ZnO varistors*", Principal Investigator, DRS/MES Project, Algeria, 1992- 1994. Completed

19. "Elaboration and characterization of II-VI materials", Co-investigator, DRS/MES project, Algeria, 1990.
20. " Study of the properties of Germanium used for Infra-red Applications", Contract # AFME/MINIMET/CNRS, France, 1987-1988.

2. Contribution to International Research Programs

1. "Use of Combined Spectroscopic Techniques in Material Sciences: Case study on Diluted Magnetic Semiconductors" N. Hamdan, American University, Sharja (AUS), **N. Tabet**, King Fahd University of Petroleum and Minerals (KFUPM), Saudi Arabia and Z. Hussain, Advanced Light Source, National Livermore Berkeley Laboratory (LNBL), California, USA. Project supported by International Atomic Energy Agency (IAEA), 2007.
2. "Electrical properties of defects in semiconductors and ceramics", Principal Investigator, Collaboration program between LPM/CNRS (France) and the University of Constantine, Algeria 1989-1992.
- 3 "Study of surface and interface defects in metals and semiconductors", Principal Investigator, Collaboration program between the Louis-Pasteur University of Strasbourg, France and the Universities of Constantine and Setif: 1990-1994.

Technology Disclosures Submitted to TLO (MIT-KFUPM).

- **15308J** – Engineered Micromorph Silicon for Solar Cells of Enhanced Efficiency; A. Abdallah, A. (Tonio) Buonassisi, M. K. Hossain, E. Johlin, S. A. Said, **N. Tabet**; 12/6/2011
- Microwave Assisted Crystallization of Amorphous Silicon Thin Films; **Nouar Tabet**, Abdallah Amir, Seyed Ahmed Said, Tonio Buonassisi, Eric Johlin, Christie Simmons; 6/30/2011

Publications

1. "XPS and optical studies of different morphologies of ZnO nanostructures prepared by microwave methods" R. Al-Gaashani, S. Radiman, A. R. Daud, N. Tabet and Y. Al-Douri, Ceram. Int. 2012, Accepted.
2. "Effect of Crystallinity on the Toxicity of ZnO Nanoparticles to Cancer Cells", A. Selim, A. Al-Sunaidi and N. Tabet, Materials Science and Engineering C 32 (2012) 2356–2360.
3. "Ambipolar operation of hybrid SiC-carbon nanotube based thin film transistors for logic circuits applications" B. Aissa, M. Nedil, A. H. Esam, N. Tabet, D. Therriault, and F. Rosei APPLIED PHYSICS LETTERS 101, 043121 (2012).
4. "Electromagnetic energy absorption potential and microwave heating capacity of SiC thin films in the 1–16 GHz frequency range" B. Aissa , N. Tabet , M. Nedil , D. Therriault , F. Rosei, R. Nechachee, Applied Surface Science 258 (2012) 5482– 5485.
5. "Structural origins of intrinsic stress in amorphous silicon thin films" . Eric Johlin, Nouar Tabet, Sebastián Castro-Galnares, Amir Abdallah, Mariana I. Bertoni , Tesleem Asafa, Jeffrey C. Grossman, Syed Said and Tonio Buonassisi, Phys.Rev. B, 85, (2012) 075202.

6. "Optical Properties of SnO₂ Nanostructures Prepared via One-step Thermal Decomposition of Tin (II) Chloride Dihydrate", R. Al-Gaashani, S. Radiman, N. Tabet and A. R. Daud, *Materials Science and Engineering B* 177 (2012) 462– 470.
7. "Synthesis, Optical Properties and Possible Growth Mechanism of Mg(OH)₂ and MgO Nanostructures Obtained via Novel Microwave-assisted Methods " R. Al-Gaashani, S. Radiman, N. Tabet and A. Razak Daud, *Journal of Alloys and Compounds*, 521, (2012), 71–76
8. "Rheology and Enhancement of Extrusion of Linear and Branched Polyethylenes Using Low Amount of Organoclay" Ayuba A. Adesina, Abdulhadi A. Al-Juhani, Nouar Tabet, Anwar Ul-Hamid, Ibnelwaleed A. Hussein, *Journal of Applied Polymer Science*, 126 (2) , 2012, pp. 713-723.
9. "Low temperature synthesis of hexagonal ZnO nanorods and their hydrogen sensing properties", Ahsanulhaq Qurashi, M. Faiz, N. Tabet, Mir Waqas Alam Superlattice. *Microst.* 50 (2011) 173.
10. "Synthesis and Optical Properties of CuO Nanostructures obtained via a Novel Thermal Decomposition Method" R. Al-Gaashani, S. Radiman, N. Tabet and A. Razak Daud. *Journal of Alloys and Compounds* 509 (2011) 8761.
11. "Low temperature synthesis of hexagonal ZnO nanorods and their hydrogen sensing properties", A. Qurashi, M. Faiz, N. Tabet, and M.W. Alam, *Superlattice. Microst.* 50 (2011) 173.
12. "Growth of Zinc oxide Nanostructures via Thermal Oxidation of DC-Sputtered Zinc films" Amir Abdallah, Nouar Tabet, Mohamed Dastageer and Syed Said, *Phys. Stat Solid. (c)*, *Phys. Status Solidi C* 8, No. 4, (2011) 1377–1379.
13. "Effect of Laser Pulse Frequency on the Microstructure and Morphology of Duplex Treated Ti-6Al-4V Alloy", N Aqeeli, B. Yilbas and **N. Tabet**, *Surface & Coatings Technology* 205 (2011) 3073.
14. "Effect of Microwave Power on the Morphology and Optical Property of Zinc Oxide Nanostructures Prepared via a Microwave-assisted Aqueous Solution Method", R. Al-Gaashani, S. Radiman, **N. Tabet** and A. Razak Daud, *Materials Chemistry and Physics* 125 (2011) 846.
15. "Synthesis and Characterization of ZnO/PVA Composite Nanofibers by Electrospinning" Ramdane Bouzerara, Slimane Achour, Nouar Tabet and Salah Zerkout, *International Journal of Nanoparticles (IJNP)*, Vol. 4, No. 1, (2011) 10.
16. "Synthesis and characterization of DC magnetron sputtered ZnO thin films under high working pressures "Hezam, M., **Tabet, N.**, Mekki, A, *Thin Solid Films* 518 (2010) e161–e164
17. "Influence of bias voltage on the structure and deposition mechanism of diamond-like carbon films produced by rf (13.56MHz) CH₄ plasma", M. Ouchabane , H. Salah, M. Herrmann, **N. Tabet**, K. Henda, B. Touchrift, and M. Kechouane, *Phys. Status Solidi A*, 1–8 (2010).
18. " Fabrication of Well-Aligned and Dumbell-Shaped Hexagonal ZnO Nanorod Arrays and Their Dye Sensitized Solar Cell Applications", Ahsanulhaq Qurashi, M.F. Hussain, M. Faiz, N. Tabet, Mir Wakas Alam N.K. Reddy, *Journal of Alloys and Compounds*, 2010, Volume 503, 2, (2010), L40-L43.
19. "Science and Engineering at the Nanoscale", Preface of Theme Issue of the *Arabian Journal for Science and Engineering (AJSE)*, **N. Tabet**, Lead Technical Editor, Vol. 35, 1C, 2010.

20. "Laser gas assisted Nitriding of Steel Residual Stress Analysis" B.S. Yilbas, A.M.F. Arif, C. Karatas, B.J. Abdul Aleem, S. Danisman, **N. Tabet**, Industrial Lubrication and Tribology, 62, (4), (2010) 214.
21. "Ultra-fast microwave synthesis of ZnO nanowires and their dynamic response toward hydrogen gas" Ahsanulhaq Qurashi , **N. Tabet** , M. Faiz and Toshinari Yamzaki, Nanoscale Res. Lett. 4 (2009), 948.
22. "Ultra Fast Synthesis of Zinc Oxide Nanostructures by Microwaves " **N. Tabet** , R. Al Ghashani and S. Achour, Superlattices and Microstructures 45 (2009) 598.
23. "Monte Carlo Simulation of the EBIC Collection Efficiency of a Schottky Nanocontact", M. Ledra and **N. Tabet**, Superlattices and Microstructures 45 (2009) 444.
24. "Synthesis and Characterization of Nitrogen-doped ZnO Thin Films", A. Mekki, **N. Tabet** and M. Hezam, , Int. J. Nano and Biomaterials, Vol. 2, Nos. 1/2/3/4/5, (2009) 216.
25. "Synthesis and Characterization of Nanostructured Barium Cuprate Thin Films", M. Faiz and **N. Tabet** , Int. J. Nano and Biomaterials, Vol. 2, Nos. 1/2/3/4/5, (2009)234.
26. "Electron Beam Induced Current at a Schottky Nanocontact", M. Ledra and **N. Tabet**, Int. J. Nano and Biomaterials, Vol. 2, Nos. 1/2/3/4/5, (2009)307.
27. "Mullite and alumina composites preparation from cordierite and aluminium hydroxide" Aklouche, N.; Achour, S. and **Tabet, N.** Materials Research Bulletin (2008), 43(5), 1297.
28. "XPS Study of Nitrogen-implanted ZnO Thin Films obtained by DC-Magnetron Reactive Plasma" **N. Tabet**, M. Faiz and A. Al-Oteibi, Journal of Electron Spectroscopy and Related Phenomena 163 (2008) 15–18
29. "TiN-Fe Nanocomposites Thin Films Deposited by Reactive Magnetron Sputtering" S. Zerkout, S. Achour and **N. Tabet** , J. Phys. D: Appl. Phys. 40 (2007) 7508.
30. "Growth of ZnO Nanostructures on Zinc and Pt substrates", **N. Tabet**, M. Faiz and A. L. Oteibi, Int. J. Nanoscience 6, 1, (2007) 23.
31. "Effect of tantalum addition on the microstructure and optical properties of TiN thin films", Bourbia , S. Achour , **N. Tabet** , M. Parlinska , A. Harabi, Thin Solid Films 515 (2007) 6758.
32. "XANES Investigation of Vanadium-doped ZnO Thin Films", M. Faiz, **N. Tabet**, A. Mekki, B.S. Mun, and Z. Hussain, Thin Solid Films 515 (2006) 1377.
33. "Irradiation-Induced gold silicide formation and stoichiometry effects in ion beam-mixed layer" , R. Khalfaoui, C. Benazzouz, A. Guittoum, **N. Tabet** and S.Tobbeche, Vacuum , 81(1) (2006), 45.
34. "Effect of zinc nitride precursor on ZnO thin films nanostructure and optical properties" N Toumiat, S Achour, A Harabi, **N Tabet**, M Boumaour and M Maallemi, Nanotechnology 17 (2006) 658.
35. "Monte Carlo simulation of the contrast of SEM charge-collection images of dislocations in semiconductors, M Ledra and **N Tabet** 2005 J. Phys. D: Appl. Phys. 38 3845
36. "Structural properties of strontium-vanadate and strontium-borovanadate glasses" G.D. Khattak , **N. Tabet** and L.E. Wenger", Phys. Rev. B, 72 (2005) 104203.

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1. Technical Lead Editor of Special Issue of AJSE Journal (Springer) entitled : Science and Engineering at the Nanoscale", 2010.
2. Member of Editorial Board of ISRN Nanotechnology, Hindawi Publisher, 2011.
3. Member of the editorial Board of Journal "Nature & Technologie", published by University Hassiba Benbouali Chlef, Algeria.
4. Advisory Board of "Journal of new technology and materials (JNTM)", published by University of Oum Bouaghi, Algeria.

Conference presentations

1. "*Influence of Structural Phenomena on Time-of-Flight Hole Mobility in Hydrogenated Amorphous Silicon Thin Films*" Eric Johlin, Christie B. Simmons, Nouar A. Tabet, Syed Said, Jeffrey C. Grossman, Tonio Buonassisi, submitted to MRS Meeting, November 25 - 30, 2012, Boston, MA, USA
2. "*The effect of the Schottky Nanocontact depletion region on the electron beam induced current*" N. Ounissi, M. Ledra and N Tabet, BIAMS11, Annaba, 25-28 June 2012.
3. "Electron Beam Induced Current collected from amorphous silicon thin film containing an array of Si-crystallized microdots" M. Ledra and N. Tabet, BIAMS11, Annaba, 25-28 June 2012.
4. "*Raman Study of Laser Induced Recrystallization of Amorphous Silicon Thin Films for Solar Cells*" N. Tabet, E. Johlin, C. Simmons, Wang X, Yang, X, S. Said and T. Buonassisi, Beam Injection Assessment of Microstructures in Semiconductors (BIAMS), Annaba, 25-28 June 2012, Algeria.
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9. "*Gas Sensing Properties of 1-D ZnO Nanostructures*" Mohammed Faiz, Nabil Maalej and Nouar Tabet, 5th Saudi Science Conference SSC5'2012, Mekkah, 16-18 April 2012.

10. "*Gas sensing, Photocatalytic Properties and Selective Toxicity of nanostructured ZnO*", Invited Talk, International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials (ICWNCN), Delhi, India, 13-16 March 2012.

11. "*Stress Engineering in Amorphous Silicon Thin Films*" Eric Johlin, Sebastian Castro-Galnares, Amir Abdallah, Nouar Tabet, Mariana Bertoni, Tesleem Asafa, Jeffrey Grossman, Said Sayed, Tonio Buonassisi, 37th IEEE Photovoltaic Specialist Conference, 19-24 June, 2011, Washington, USA,

12. "*Nanostructured Oxides and their Applications in Gas Sensing and Photocatalysis*" N. Tabet M. Faiz, N. Maalej, A. Mekki A. Sunaidi and Z. Yamani, International Conference on New Materials and Active Devices (NMCA'2011), Oum Bouaghi, Algeria, 23-25 May 2011, **Invited Talk**.

13. "*Synthesis and Optical Properties of CuO Nanostructures obtained via a Novel Method*" R. Al-Gaashani, S. Radiman, N. Tabet and A. Razak Daud: 3rd International Conference on Nanoscience and Nanotechnology (NANO-SciTech 2011), 02-03 March 2011, Malaysia .

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Short Courses and Workshops

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2. MIT Team: Eric Johlin, Tim Mueller, Christie Simmons*, Mark Winkler, Hyunjoo Choi, Jeffrey Grossman, Tonio Buonassisi
3. "Solar Cell Day", 8 May 2011, KFUPM.
4. "Physics for High School Teachers" (in Arabic): KFUPM (Dhahran): 10-21/2/2001, 25-29/8/2001, 24 - 28/08/2002 , 30/08/ - 4/09/03, 6-11 /09/03, Sept. 2005, Jeddah: Aug 2005, KFUPM, Dhahran, Aug. 2006.
5. Short Course on" Surface Techniques and Industrial Problems in Catalysis and Corrosion", KFUPM, November, 15-19, 1997.

Seminars and Lectures

1. "Best Practices in Successful Higher Education Systems", Invited Seminar, BADJI MOKHTAR University , 25 June 2012. Annaba, Algeria
2. "*Nanostructured ZnO Synthesis and Applications*", Invited lecture, Qatar Foundation, Doha, 22 Sept. 2011.
3. "*Science and Engineering at the Nanoscale*". Invited Public lecture, *Saudi Scientific Society for Electrical Engineers* , Meridien Hotel, Al-Khobar, October 9th 2011.
4. "*Solar Cells: Past achievements and challenges ahead*", "Solar Cell Day", KFUPM, 8 May 2011.
5. "*Enhancing the Efficiency of Si-Based Solar Cells: Research Program at COREE*", N. Tabet, Regional Expert Meeting to Review the Renewable Energy Strategy and Energy Profile in the Gulf Region, Jeddah, 25-27 January 2010.
6. "*Solar cell Efficiency*", N. Tabet, Physics Department, KFUPM, 22 March 2010.
7. "*Solar cells: Understanding the Physics, Engineering the Device*" N. Tabet, King Abdullah Institute of Nanotechnology (KAIN), Riyadh , March 30th , 2010. **Invited.**
8. "*Solar cells: Quest for Efficiency* " N. Tabet, Physics Department, Durham University, 21st July 2010. **Invited.**
9. "*Solar cells*", N. Tabet, Physics Department, UKM, Malaysia, 4th August 2010. **Invited.**
10. Solar Cells Understanding the Physics, Engineering the Device" King Abdullah Institute of Nanotechnology (KAIN), Riyadh , March 30th, 2010. **Invited.**
11. "*Solar cells : Recent Developments*", N. Tabet , KFUPM, Nov. 22, 2009.
12. "*Surface and bulk analytical techniques for materials*", 7th, June 2008, Physics Department, King Khaled University, Abha, Saudi Arabia, ". **Invited.**
13. "*Nanotechnology, recent developments*", 8th June 2008, Physics Department, King Khaled University, Abha, Saudi Arabia. **Invited.**
14. "*Synthesis and Applications of Nanostructured Zinc Oxide*", 4th May, 2008, Physics day organized by the Physics Department, Girls College, King Faisal University, Dammam, Saudi Arabia. **Invited.**

15. Panel Discussion entitled "Nanotechnology: *"The opportunities, the challenges and the applications in the Kingdom"* organized by the Arabian International Chemical Sciences, a Chapter of the American Chemical Society, (SAICSC-ACS), June 1, 2008, Gulf Meridian Hotel, Al-Khobar, Saudi Arabia. **Invited.**
16. "*Lectures on Semiconductors*", Organized by Saudi Physics Society (SPS), through Internet, 24 April 2008.
17. "*Nanotechnology: The idea and its applications*"; Imam University, Riyadh, 20 November 2007. **Invited.**
18. "*Introduction to Nanotechnology*", Program for gifted students, KFUPM, 1 July 2007.
19. "*What is Nanotechnology?*", Public lecture, 12 Oct. 2006 SciTech, Khobar
20. "*From Nuclear Technology to Nano-technology*", N. Tabet, Teachers College, Dammam, 27th November, 2006. **Invited.**
21. *Workshop on "Nanotechnology and its possibilities"*, Khobar, 8 Sept. 2006, as part of "The Peer Group Leadership Training Camp" Organized by Center for Information and Guidance of India (CIGI). **Invited.**
22. "*Nanotechnology: Small and Luminescent*", **Invited talk** at First Meeting of the Colleges of Education of Girls, Jeddah, 23 April, 2006
23. "*Nanotechnology*" , **Invited talk**, Physics Department, King Abdulaziz University, 12 April, 2006.
24. "*Nanotechnology: The power of the Small*", KFUPM, Seminar, 19Feb. 2006
25. "*Nanotechnology* ", March 17th, 2005, King Abdulaziz University (women). **Invited Talk .**
26. *Nanocrystalline Zinc Oxide in Catalysis and Optoelectronics*, KFUPM, March 7th, 2004
27. « *Naissance et Developement de la Nanotechnologie* », **Invited Talk**, 25 June , 2005, University of Constantine, Algeria
28. "*Nanotechnology*" KFUPM, Lecture for High School Teachers 6-10 Sept, 2003.
29. "*Major inventions which led to the birth of Nanotechnology*", KFUPM Program Gifted Students, July 2003.
30. "*What is Nanotechnology?*", Khobar High School, 13 May, 2003-05-13
31. "*Interfaces in Materials and Devices*" KFUPM, Ma, 4th , 2003.
32. "*Nanotechnology from the visualization of atoms to their manipulation. What is the next?* KFUPM, March, 8th, 2003 .
33. "*How it became possible to observe atoms*", KFUPM Program for Gifted Students, June 2002.
34. "*Nanotechnology challenges*", KFUPM 21 Oct. 2001.
35. "*Defects in Solids*", N. Tabet, KFUPM, 3 Oct. 1999.
36. "*Growth Kinetics of Ultra-thin oxide Layers on Ge Surfaces*", N. Tabet, KFUPM, Sept. 27, 1998.
37. "*Local Injection Techniques for Defects Assessment in Semiconductors*", N. Tabet, Mini-workshop on Semiconductors and Technology, KFUPM, 11 March 1997.

38. '*Monte Carlo Simulation of the Recombination Contrast of Extended Defects in Semiconductors*', N. Tabet, in 'Mini-symposium on Computer Simulation and its Applications', KFUPM, 21 May, 1996.
39. "*SEM/EBIC Investigations of the Electrical Properties of Grain Boundaries in Germanium*", N. Tabet, KFUPM, Dec. 1994.