Curriculum Vitae

Personal Data

Name: Nouar Tabet.
Occupation: Dean of the College of ScienceS,
University of Sharjah, 2019.
E-mail: ntabet@sharjah.ac.ae

Research interest:

Solar Cells, Nanostructured materials, Defects in mateials, Thin films, X-ray, Electron and Ion based spectroscopies.

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) (Degree in Advanced Studies), in Materials Sciences, 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

Academic and Administrative Positions

1. Dean of the College of Science, University of Sharjah, 2019-Now.,
2. Professor at University of Sharjah, 14 Jan 2019 - Now.
3. Chief Scientist, Leader of PV Research Program at Qatar Environment and Energy research Institute (QEERI), Doha, 2018. Principal Investigator from 2013-2018.
4. Professor (Joint Position), College of Science, Hamad Bin Khalifa University (HBKU), Doha, Qatar.
5. Professor, Coordinator of the Surface Science Laboratory, Physics Department, King Fahd University of Petroleum and Minerals (KFUPM), 1994-2013.
6. Member of the Executive Committee of the Center of Research Excellence in Renewable Energy (CoRERE), KFUPM, 2009-2012

7. Member of the Board of Directors of the Center of Excellence in Nanotechnology (CENT), KFUPM, 2008 -2013
8. Member of the Advisory Board of the Center of Mathematics and Theoretical Physics (CMTP), KACST, Saudi Arabia, 2007.
9. Rector of the University of Constantine. Algeria, August 1990-October 1992 .
10. President of the Regional Council of the Eastern Universities of Algeria. 1990-1992.
11. Member of the National Scientific Committee (CNE), Algeria, 1992.
12. Member of the National Research Evaluation Committee, Algeria, 1990-1991.
13. Director of the Constantine University Review: "Science and Technology" 1991-1992.
14. Vice Rector of Constantine University in charge of Research and Graduate studies 1989-1990.
15. Director of the Cooperation and External Relations of the University of Constantine 1982-1984.
16. Director of the Solid State Physics Laboratory, Physics Department, University of Constantine, Algeria, 1982-1984.

Teaching

Undergraduate Courses: Mechanics, Electromagnetism and Electricity, Thermodynamics and Statistical Physics, Solid State Physics, Materials Sciences.

Graduate Courses

Surface Science, Solid State Physics, Semiconductor Devices.

International 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-ROMEU, 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).

Theses supervision

1. Ahmer Baloch, PhD thesis on "Performance of n-type Si based Bifacial PV panels under desert environment", College of Science and Engineering , Hamad Bin Khalifa University, Start: 2016.
2. Life cycle Assessment of Photovoltaic modules : crystalline and multi crystalline silicon cell", Meaad Yousif Abdulla Al Jassim., Master of Science in Sustainable Energy, Hamad Bin Khalifa University (HBKU), 2018. Co Supervisor.
3. Asafa Tesleem: PhD thesis, title: ultra Thin SiGe for NEMS Applications" PhD thesis, Co-Supervision, cena-kacst sponsored research with INTEL (Leuven, Belgium). Completed in 2010

4. R. Al Gaashani, “Design and Test of a Microwave Heater”, KFUPM, June 2008.
5. 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
6. 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
7. 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.
8. 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.
9. 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.
10. 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.
11. 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".
12. T. Ait Ahcene, Master Thesis, University of Constantine, Algeria (1992). "Synthesis and characterization of ZnS thin films prepared by evaporation techniques" .
13. N. Boulares , Master Thesis, University of Constantine, Algeria (1994), "on the fabrication and characterisation of ZnO varistors"
14. Mekki D., Doctorat d'Etat (PhD), University of Annaba, Algeria, (1994). "on the EBIC contrast of defects and lnjection level effect on the collection efficiency of Schottky diodes"
15. 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".
16. 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.

Thesis committee member

1. Amna Al-Tayeeb, Executive Master in Energy and Resources, Hamad Bin Khalifa University, “Minimizing Qatar’s Energy Sector Carbon Footprint”, Doha, 2016
2. Maha Al-Marri, Executive Master in Energy and Resources, Hamad Bin Khalifa University, “ The feasibility of converting fleets of small and large vehicles from diesel to 100% natural gas in Qatar” , Doha, 2016
3. Iqbal Zafar, ME Deaprtment, “Development of Rh based Pin Tool for friction stir Welding of Steels”, PhD Thesis, September 2012.
4. Hasna AL Ali, King Faysal University, EL Ahsa, “Synthesis and characterization of Zn2 SiO4 nanoparticles via Sol-Gel Technique”, 4 March 2012.

5. 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.
6. Adesina, Ayuba Adegoke, PhD Thesis, Chemical Engineering Department, KFUPM, May 2011.
7. 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
8. Abdulaziz Hussain Al-Aswad: "Energy efficient coatings based on WO3/Metal multilayers", Master Thesis, KFUPM, 28 January 2009.
9. Mahdi Al Maghrabi, "ZnO Thin films " Master Thesis, KFUPM, December 2008.
10. Bader Saad Al-Harthi: "Magnetic and Transport Proeprties of Er0.55Sr0.45Mn 1-xCrxO3 Manganites" Master Thesis, KFUPM, Dec. 2008
11. Atif Ismael Abdurazzak " Synthesis and Magnetic Properties of ZnO:Cu Doped with Magnetic Impurities", Master Thesis, KFUPM, June 2008
12. Yin Ruchuan, "Carburization Behaviour of Iron –Based Alloys in Methane/Hydrogen Gas Mixtures", Phd Thesis, Mechanical Engineering Department, KFUPM, May 2002.
13. Hala Hashem Muhammed: " Study of the effect of Gamma-ray Radiations on the Magnetic and superconducting Properties of GdBa2Cu3O7-x ",Master Thesis, Girls College, Dammam, 2006.
14. Fuad Enaya : "Magnetic and Scaling Properties of YBa2Cu4O8 High Temperature Superconductor", Master Thesis, KFUPM,1998
15. Ezzat Omar Abdullah Abu Azzah: " Localization and Delocalization Studies in One Dimensional Electronic Disordered Systems", Master Thesis, KFUPM, 1998.

Supervision of student Projects

1. "Deposition of TiO2 thin films by sputtering technique" **,** S. Nezar, Center of Advanced Techniques, Algeria, April-May 2015.

2. Basem Hindi, and Maher Armoush, Qatar Leadership Program (QLSP), Texas A&M University at Qatar Internship entitled: "Performance Measurement of Monofacial and Bifacial), PV Panels in Qatar's Climate"**,** QEERI, May 15-July 21, 2016.

Research

QNRF Funded Projects

1. CRANN-QEERI initiative for Solar Energy Harvesting Materials: CRAQSolar (PI), QNRF (NPRP 8 – 090 – 2 - 047), Budget: 809,402 USD, Jan 2016 - Jan 2019
2. Developing Transition Metal Dichalcogenide Based Alternative Absorbers (WS_2 & MoS_2) for Cost Effective Photovoltaic Applications (PI), QNRF (NPRP 6 - 931 - 2 - 382), Budget: 1,046,400 USD, Nov 2013 - Jan 2018
3. Hybrid quantum dot perovskite solar cells (PI) , QNRF (NPRP8-086-1-017 , Budget: 810,000 USD, Duration: 18/7/2016 – 17/7/2019

4. Passivated hole contacts for next-generation industrial silicon wafer solar cells (PI) , QNRF (NPRP9-021-2-009), Budget : 721,424 USD, Dates: Dec 26th 2016 to Dec 26th 2019

Internally Funded Projects

1. PV PORTFOLIO, Lead, internally funded by QEERI, Qatar Foundation. The project includes three pillars: Module reliability , Silicon technology and Emerging Technologies, Sept. 2017,
2. "Silicon Growth and defect engineering: GC 3000 Project, Internally funded by QEERI, Qatar Foundation, start: July 2014.
3. Perovskite solar cell: Device optimization", GC3007, Internally funded by QEERI, Qatar Foundation, start: July 2014.

PROJECTS COMPLETED BEFORE JOINING QEERI/HBKU

4. "PV Fundamentals", course on PV technologies, funded by KFUPM, in collaboration with MIT. Start: Sept 2011. Completed 2012
5. "Preparation and Study of Nanostructural and Optical properties of Zinc Oxide: Amal AL Oteibi, Dammam University , Consultant, Start Sept 2011. Completed 2013.
6. "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 .
7. "*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
8. "Electronic Enhancement of a-Si:H via Engineering Thin-Film Stress " as of Sept. 1/2011", N. Tabet (PI), S. Said, collaboration with MIT (USA) ; T. Buonassisi (PI), J Grossman, E Johlin, and T. Mueller
9. "*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 Nanotechnolgy (CENT-KFUPM), September 2008. Completed.
10. *"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 (CoIs), Jose Covas (Consultant). Completed.
11. "*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. Completed.
12. "*DC-Magnetron sputtering Synthesis and characterization of the physical properties of Zinc oxide thin films*", KFUPM funded Project, N. Tabet (PI)_, A. Mekki (CoI) and K. Mezghani (Co-I), INT-2006/299. Completed.
13. "*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.
14. "*Design of a microwave heater to be used in a kitchen microwave oven* " S. Al Quraishi and N. Tabet, College Grant, 2006.Completed

15. "I*nvestigation 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 (CoI). Completed.
16. *"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 (CoI), Completed, 2004
17. "*Carburization and Metal Dusting Failures of High temperature Alloys",* Co-investigator, KACST Project, No AT-17-33, KFUPM, 1999-2002. Completed
18. " *Galvanization of Steels containing silicon*" , Co-investigator ONRS project, 1982-1984
19. "*Elaboration and characterization of ZnO varistors*", Principal Investigator, DRS/MES Project, Algeria, 1992- 1994. Completed
20. "*Elaboration and characterization of II-VI materials*", Co-investigator, DRS/MES project, Algeria, 1990.
21. " *Study of the properties of Germanium used for Infra-red Applications*", Contract # AFME/MINIMET/CNRS, France, 1987-1988.
22. "*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.
23. "*Electrical properties of defects in semiconductors and ceramics",* Principal Investigator, Collaboration program between LPM/CNRS (France) and the University of Constantine, Algeria 1989-1992.
24. *"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.

Patents

1. "*A process for selective deep hydrodesulfurization of a hydrocarbon feedstock using an unsupported nanocatalyst made by laser pyrolysis*", Zain Yamani, Syed Ahmed Ali, Nouar Tabet, Yann LECONTE, Axelle QUINSAC and Frédéric SCHUSTER, US Patent 10023813, issued on 17 July 2018.
2. "*Method of preparing silver nanoparticles and silver nanorings"* , Qasem Ahmed Drmosh, Mohamma Kamel Hossain, and Nouar Tabet, US Patent 9745645B2, 29 Aug, 29, 2017.
3. "*Photovoltaic System for spectrally resolved solar light"* Jihad Al-Sadah and Nouar Tabet, KFUPM U.S. Patent 9876133B2, 23 Jan 2018.
4. "Photovoltaic Perovskite Oxychalcogenide Materials and Optoelectronic Devices including the Same", Fedwa EL-Mellouhi, Fahhad Hussain Al Harbi, Heesoo Park, Sanvitos, Nouar Tabet, Filed, US 2019 / 0122829 A1, published on Apr . 25th , 2019.

5. "Cesium-niobium-chalcogenide and semiconductor devices including the same" Fadwa EL-Mellouhi, Heesoo Park, Nouar Tabet Fahhad Hussain Al Harbi, Sanvitos, Provisional patent Feb 7th 2018, 2018-001, US, 62/627494

6. “Intrinsic stability enhancement and ionic migration mitigation by fluorinated cations incorporation in Hybrid Lead Halide Perovskites “
   Inventors: Fedwa El-Mellouhi, Nouar Tabet, Fahhad H Alharbi, Abdelhak Belaidi, Belabbes Merzougui, Sergey Rashkeev, Provisional Patent , US 62/642,910.

Publications

1. *"Learn and Match Molecular Cations for Perovskites"* _Park, Heesoo; Mall, Raghvendra ; Alharbi, Fahhad; Sanvito, Stefano; Tabet, Nouar; Bensmail, Halima; El-Mellouhi, Fedwa, submitted 2019
2. “*Intrinsic Stability Enhancement and Ionic Migration Reduction by Fluorinated Cations Incorporated in Hybrid Lead Halide Perovskie”,* Fedwa El-Mellouhi, Sergey N. Rashkeev, Asma Marzouk, Lara Kabalan, Abdelhak Belaidi,1 Belabbes Merzougui, Nouar Tabet, and Fahhad H. Alharbi, J. Mater. Chem. C, 21, 2019, 2821- 10.1039/C8TC06308G
3. *“Exploring New Approaches towards the Formability of Mixed-Ion Perovskite by DFT and Machine Learning”* Heesoo Park, Raghvendra Mall, Fahhad H Alharbi, Stefano Sanvito, Nouar Tabet, Halima Bensmail, and Fedwa El-Mellouhi, Phys. Chem. Chem. Phys., 2019,21, 1078-1088

4. "*Analysis of Photocarrier Dynamics at Interfaces in Perovskite Solar Cells by Time Resolved Photoluminescence*" Baloch, Ahmer; Alharbi, Fahhad; Grancini, Giulia; Hossain Mohammad; Nazeeruddin Mohammad, Tabet Nouar, J. Phys. Chem. C, 2018, 122 (47), 26805–26815

5. “*A water-repellent low dimensional fluorous perovskite as an interfacial coating for 20% efficient solar cells",* Cho Kyung Taek; zhang yi, Orlandi Simonetta, Cavazzini Marco, Zimmermann Iwan, Lesch Andreas, Tabet Nouar, Pozzi Gianluca, Grancini Giulia, Nazeeruddin Mohammad, Nano Lett., 2018, 18 (9), 5467–5474
6. *“Tetrathienoanthracene and Tetrathienylbenzene Derivativesas Hole-Transporting Materials for Perovskite Solar Cell”* Diana Elizabeth Meza Rojas, Kyung Taek Cho, Yi Zhang, Maxence Urbani, Nouar Tabet,, Gema dela Torre, Mohammad Khaja Nazeeruddin, and Tomás Torres , Adv. Energy Materials, 8, 25, (2018) 1800681.

7. “*Electrochemical Deposition of Bulk MoS2 Thin Films for Photovoltaic Applications”* Md. Anower Hossain, Belabbes A. Merzougui, Fahhad H Alharbi, and Nouar Tabet , Solar Energy Materials and Solar Cells, 186 (2018) 165–174.

8. *“Searching for Photoactive Polymorphs of CsNbQ₃ (Q=O,S,Se,Te) with Enhanced Optical Properties and Intrinsic Thermodynamic Stabilities*" Park, Heesoo; Alharbi, Fahhad; Sanvito, Stefano; Tabet, Nouar ; El-Mellouhi, Fedwa, J. Phys. Chem. C, 2018, 122 (16), pp 8814–8821

9. "*Design Optimization of Solar Cell with Molybdenum Sulfide as Light Absorber*" MI Hossain, FH Alharbi, FE Mellouhi, and N Tabet, Journal of Photonics for Energy, 8(2), 2018, 025501-1.

10. "*Development of microwave susceptors based on SiC composites and their application for a one-step synthesis of ZnO nanostructures"* R. Al-Gaashani, S. Radiman, B. Aissa, F.H.Alharbi, N. Tabet, Ceramics International, 44, (2018) 7674

11. *"Practical Efficiency Limit of Methylammonium Lead Iodide Perovskite (CH3NH3PbI3) Solar Cells*" Ahmer A.B. Baloch, M.I. Hossain, N. Tabet, and F.H. Alharbi, J. Phys. Chem. Lett. 9, (2018), 426−434.

12. Elucidating the Impact of Chalcogen Content on the Photovoltaic Properties of Oxychalcogenide Perovkskites NaMO3-xQx (M=Nb,Ta, and Q=S,Se,Te)" Heesoo Park,, Fahhad H Alharbi,{ Stefano Sanvito, Nouar Tabet, and Fedwa El-Mellouhi, ChemPhysChem, Chemphyschem., 19(6): 2018, 703-714

13. "Development of SiC based composites as microwave susceptors and their use for one-step synthesis of ZnO nanostructures" R.Al-Gaashani, S.Radiman, B. Aïssa, F.H.Alharbi, N.Tabet, Ceramics International, 44(7), 2018, 7674-7682.

14. "*Approaches for selective synthesis of Ullazine donor-acceptor systems"* Mohammad Khaja Nazeeruddin, Nikita Drigo, Paek Sanghyun, Aron Huckaba, Pascal. Schouwink, Nouar Tabet, Chemistry, A European Journal, 23(68), 2017, 17209-17212.

15. *"Effects of RF magnetron sputtering deposition process parameters on the properties of molybdenum thin films" ,* Thin Solid Films, 638, (2017), 213.

16. "*Kirkendall Effect vs Corrosion of Silver Nanocrystals by Atomic Oxygen: From Solid Metal Silver to Nanoporous Silver Oxide*" El Mel Abdel-Aziz; Stephant Nicolas; Molina-Luna Leopoldo; Gautron Eric; Haik Yousef; Tabet Nouar; Tessier Pierre-Yves; Gautier Romain, The Journal of Physical Chemistry C, J. Phys. Chem. C, 121 (35) 2017, 19497.

17. *"Femtosecond Charge Injection Dynamics at Hybrid Perovskite Interfaces*" Giulia Grancini, Daniele Viola, Yonghui Lee,Michael Saliba, Sanghyun Paek, Kyung Taek Cho, Simonetta Orlandi, Marco Cavazzini, Fernando Fungo, Mohammad I. Hossain, Abdelhak Belaidi, Nouar Tabet, Gianluca Pozzi, Giulio Cerullo, Mohammad Khaja Khaja Nazeeruddi, ChemPhysChem, 2017 Vol.18, 17, 2017, 2381, DOI: 10.1002/cphc.201700492
18. *"Towards an optimum silicon heterojunction solar cell configuration for high temperature and high light intensity environment"* Amir Abdallah, , Ounsi El Daif, Brahim Aïssa, b, Maulid Kivambe, Nouar Tabet, Johannes Seif, Jan Haschke, Jean Cattin, Mathieu Boccard, Stefaan De Wolff, Christophe Ballif, Energy Procedia, Energy Procedia, 124, 2017, 331–337
19. "*Full space device optimization for solar cells"* Ahmer Baloch, Shahzada Aly, Mohammad Hossain, Fedwa El-Mellouhi, Nouar Tabet, and Fahhad Alharbi, Scientific reports, 7: 11984 , DOI:10.1038/s41598-017-12158-0, 2017.
20. *"The Impact of Silicon Solar Cell Architecture and Cell Interconnection on Energy Yield in Hot & Sunny Climates*", Jan Haschke, Johannes P. Seif, Yannick

Riesen, Andrea Tomasi, Jean Cattin, Loïc Tous, Patrick Choulat, Monica Aleman, Emanuele Cornagliotti, Angel Uruena, Richard Russell, Filip Duerinckx,b Jonathan Champliaud, Jacques Levrat, Amir A. Abdallah, Brahim Aïssa, Nouar Tabet, Nicolas Wyrsch, Matthieu Despeisse, Jozef Szlufcik,b Stefaan De Wolf, Christophe Ballif, to be published in Energy and Environmental Science, 2017.

21. *"Computational Analysis of Temperature Effects on Solar Cells Efficiencies*," MI Hossain, A Bousselham, FH Alharbi, and N Tabet, J Comput Electron (2017) 16:776–786DOI 10.1007/s10825-017-1016-5
22. *"Controlled Growth of Cu2O Thin Films by Electrodeposition Approach*", Md. Anower Hossain, Rashad Al-Gaashani, Hicham Hamoudi, Mohammed J.F Al Marri, Ibnelwaleed A. Hussein, Abdelhak Belaidi, Belabbes A Merzougui, Fahhad H Alharbi, and Nouar Tabet, Materials Science in Semiconductor Processing, 63 (2017) 203 .
23. "*Highly oriented and conducting Bi doped ZnO (BZO) layers chemically sprayed with nitrogen gas carrier" ,* F. Chouikh, *A*. Beggah, N. Tabet, N. Ariche, and M. Aida, Materials Science in Semiconductor Processing, 64, 2017, 39-46
24. *"Rapid microwave assisted synthesis of Zn1−xInxO heterostructured nanotetrapods and their hydrogen sensing properties*", M. Faiz, Ahsanulhaq Qurashi and N. Tabet, Vacuum, 130, (2016), 159.
25. *"The effect of embedded nanostructures on the built-in electric field of a-Si:H p-i-n devices",* T. Kirkpatrick, C.B. Simmons, A.J. Akey, N. Tabet, J.C. Grossman, T. Buonassisi. J. Appl. Phys. 119, (2016) 194501
26. *"Enhancing the Carrier Thermalization Time in Organometallic Perovskites by Halide Mixing",* Mohamed El-Amine El-Amine Madjet, Alexey Akimov, Fedwa El-Mellouhi, Golibjon Berdiyorov, Sahel Ashhab, Nouar Tabet and Sabre Kais Phys. Chem. Chem. Phys., 2016, *DOI: 10.1039/C5CP06603D*
27. *"Enhanced photovoltaic performance with co-sensitization of ruthenium (II) sensitizer and an organic dye in dye-sensitized solar cell"* Umer Mehmood, Ibnelwaleed A. Hussein; Khalil Harrabi ; Nouar Tabet; Golib Berdiyorov, RSC Advances, 2016, 6, 7897 – 7901.
28. *"Emerging frontiers of N-Type silicon material for photo- voltaic applications: The impurity-defect interactions"* Aïssa B, Kivambe MM, Hossain MI, El-Daif OE, Abdallah AA, Ali F and Tabet N, Front Nanosci Nanotech, 1 (2015), 2-12.
29. "*Derivatization and diffusive motion of molecular fullerenes: Ab initio and atomistic simulations*", G. Berdiyorov, K. Harrabi, U. Mehmood, F. M. Peeters, N. Tabet, J. Zhang, I. A. Hussein, and M. A. McLachlan, J.A.P 118, (2015) 025101.
30. "An Efficient Descriptor Model for Designing Materials for Solar Cells" Fahhad H Alharbi, Sergey N Rashkeev , Fedwa El-MellouhI, Hans P Lu¨thi , Nouar Tabet, and Sabre Kais, *npj Computational Materials*, 2015.
31. "*Copper Oxide as Inorganic Hole Transport Material for Lead Halide Perovskite Based Solar Cells of Enhanced Performance*" Mohammad I Hossain, Fahhad H Alharbi, and Nouar Tabet, Solar Energy, 120, 2015, 370–380
32. *"Revealing the role of organic cations in hybrid halide perovskites CH3NH3PbI3"* Carlo Motta, Fedwa El Mellouhi, Sabre Kais, Nouar Tabet, Fahhad Alharbi, and Stefano Sanvito, Nature Communications 6, 7026, doi:10.1038/ncomms8026
33. *"Hybrid TiO2-multi wall carbon nanotubes (MWCNTs) photoanodes for efficient dye sensitized solar cells (DSSCs)",* Umer Mehmood, Khalil Harrabi, M. B. Mekki,

Shakeel Ahmed, Nouar Tabet, Ibnelwaleed A. Hussein, Solar Energy Materials and Solar Cells, 140, (2015), 174–179.

34. "*Prospects of molybdenum disulfide (MoS2) as an alternative absorber layer material in thin film solar cells from numerical modeling",* H. Rashid ; K. S. Rahman ; M. I. Hossain ; N. Tabet ; F. H. Alharbi ; N. Amin, Chalcogenide Letters, Vol. 11, No. 8, (2014), p. 397-403.
35. *"Morphological, structural and optical properties of silver treated zinc oxide thin film",* Q. A. Drmosh, M. K. Hossain, F. H. Alharbi and N. Tabet, J Mater Sci: Mater Electron. Published online first on 28 Oct 2014. DOI 10.1007/s10854-014-2375-3.
36. *"Thickness effect on the structural and electrical properties of poly-SiGe films",* T.B. Asafa, A. Witvrouw , D. Schneider , A. Moussa , N. Tabet , S.A.M. Said, Materials Research Bulletin 49 (2014) 102–107
37. "*Fabrication of Silver Nanoparticles on Zinc Oxide: An Approach to Plasmonic PV solar cell,"* QA Drmosh, MK Hossain, FH Alharbi, and N Tabet, Advanced Materials Research Vol. 938 (2014) pp 280-285
38. " *Multiple oscillator models for the optical constants of polycrystalline zinc oxide thin films over a wide wavelength range*" J. M. Khoshman, J. N. Hilfiker, N. Tabet, M. E. Kordesch, Applied Surface Science, 307, 2014, 558–565
39. " *Co-sprayed manganese doped zinc sulfide films*" Bouznit, Y. Beggah, Mingsong Wang, and N. Tabet, Journal of Luminescence 151 (2014) 76-81 .
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Conference presentations

1. "PV Technology: Desert Challenges", Invited Talk at ICEE18 Conference, 17-18 Dec. El-Oued, 2018, Algeria.
2. "Transition metal oxides as passivated hole-contacts layer for silicon wafer PERC solar cells: Intrinsic and extrinsic defects in MoO3 from first-principles calculations", Authors: Md. Anower Hossain, Sergey Rashkeev, Tian Zhang, Bram Hoex, Nouar Tabet, Amir Abdallah. Conference paper published in the Proceedings of the 35th European Photovoltaic Solar Energy Conference and Exhibition (Brussels, Belgium, Sept. 24-28, 2018), ISBN: 3-936338-50-7, pages 15-19, Paper DOI: 10.4229/35thEUPVSEC20182018-1AO.1.6
3. "Inorganic Cesium Carbonate Electron Transport Layer for High Efficiency Perovskite Solar Cells" M. I. Hossain, I. Zimmermann, N. Tabet, M. Khaja Nazeeruddin, A. Belaidi, 35th EUPVSEC, 24-28 Sept, 2018, Brussels, Belgium.
4. "High-throughput Investigation of Octahedral Distortion in Chalcogenide and Halide Perovskites by Machine Learning Algorithm" Heesoo Park Raghvendra Mall, Fahhad H Alharbi, Stefano Sanvito, Nouar Tabet, Halima Bensmail, and

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6. "Nanocrystalline Silicon Oxide Stacks for Silicon Heterojunction Solar Cells for Hot Climates" Jan Haschke1, Raphaël Monnard, Luca Antognini, Jean Cattin, Amir A. Abdallah, Brahim Aïssa, Maulid M. Kivambe, Nouar Tabet, Mathieu Boccard, Christophe Ballif, 8th International Conference on Silicon Photovoltaics, Lausanne, Switzerland, 2018
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16. "Fabrication of Hybrid Organic-Inorganic Perovskite Solar Cells and Photoluminescence Study of the Charge Dynamics" Mohammad I. Hossain, Abdelhak Belaidi, **Nouar Tabet**, Giulia Grancini, Cristina Roldan Carmona, Md Khaja Nazeeruddin, 26th International Photovoltaic Science and Engineering Conference (PVSEC-26), 24 - 28 October 2016, Singapore.
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31. "Hole Mobility and Stresses in PECVD a-Si Thin Films" Nouar Tabet, Eric Johlin, Christie B. Simmons, Syed Said, Jeffrey C. Grossman, Tonio Buonassisi, Mediterranean Materials Congress on Energy and Infrastructure Systems (MEMA2015), Doha, Qatar 11-14 January 2015.
32. "Prospects of Hetero-Junction WS2 Based Thin Film Solar Cells from Numerical Modeling" Haroon Rashid, Kazi S Rahman, Mohammad Istiaque Hossain, Fahhad H Alharbi, Nouar Tabet, Nowshad Amin, International Conference on Electronic Materials and Nanotechnology for Green Environment (ENGE-2014)- 16-19 Nov. 2014.
33. "Silver nanoparticles on ZnO thin films: An insight on fabrication and characterization", MK Hossain, QA Drmosh, Z. H. Yamani, , and N Tabet, International Conference on Structural Nano Composites (NANOSTRUC 2014) OP Conf. Series: Materials Science and Engineering 64 (2014)
34. "Stress Engineering and Hole Mobility in a-Si thin films", N. Tabet, . Johlin, C. Simmons, S. Castro-Galnares, A. Abdallah, S. Said , J. Grossman and T. Buonassisi, Tsukuba, Japan, 23-26 May 2014.

35. 'Solar Cells: R&D Paths to achieve higher efficiency and lower cost", Invited Talk, 2nd International Conference on New Materials and Active Devices", 25-26 May 2014, Oum Bouaghi, Algeria,
36. PV Technology From Silicon to Perovskites: The Quest for Efficiency at Lower cost", (Invited)ARC Conference , 24-25 November2013, Doha, Qatar
37. *"Metallic Quantum Dots as Sensitizers for SolarCells"* Fahhad H. Alharbi, Qasem A. Drmosh, Mohammad K. Hossain, and Nouar Tabet , 39 IEEE Photovoltaic Conference, Florida, June 16-21, 2013.
38. "*Amorphous Silicon Solar Cells: The Mobility Challenge*" Invited talk, 2nd Electronics, Communications and Photonics International Conference", 27-30 April 2013, Riyadh, Saudi Arabia
39. "*Synthesis, Structural and Optical properties of Mo-doped ZnO Thin Films",* A. Mekki and N. Tabet, 3rd International Advances in Applied Physics and materials Sciences Congress, Turkey, 24-28 April 2013
40. "*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, MRS Meeting, November 25 - 30, 2012, Boston, MA, USA.
41. "*Photon Science for Renewable Energy*" , Z. Hussain and N. Tabet, Invited Talk, Z. Hussain and N. Tabet. BIAMS11, Annaba, 25-28 June 2012.
42. "*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.
43. "*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.
44. "*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.
45. "*Laser Processing for Crystalline Silicon Photovoltaics: An Enabler for Low-Cost, High-Efficiency Solar Cell Manufacturing"* M.T. Winkler, C.B. Simmons, J.T. Sullivan, R. Brandt, D. Recht, E. Ertekin, N. Tabet**,** E. Mazur, M. Mendes, S. Hegedus, J.C. Grossman, M.J. Aziz, and T. Buonassisi, **Invited talk**, SPIE Optics+Photonics conference San Diego, USA, 12-16 August 2012.
46. "*Raman Study of Localized Recrystalization of Amorphous Silicon Induced by Laser Beam*" Tabet N , A. Al-Sayoud , Said S , Syed A , Yang X, Yang Y, Diallo E, Wang Z, Wang X, Johlin E, Simmons C, and Buonassisi T. Proceedings of 38th IEEE Photovoltaic Specialist Conference, USA , Austin, Texas, 3-8 June 2012.
47. "*Engineering the Properties of Amorphous Silicon to Enhance Solar Cells Efficiency*" N. Tabet, E. Johlin, C. Simmons, X. Wang, S. Said and T. Buonassisi, 2nd Asia-Arab Sustainable Energy Forum and 4th International workshop on Sahara Solar Breeder, May 15 & 16, 2012, Oran, Algeria.
48. "*Gas Sensing Properties of Nanostructured ZnO Thin Films*" Abdelkrim Mekki*, Nabil Maalej and Nouar Tabet, 5th Saudi Science Conference SSC5'2012, Mekkah, 16-18 April 2012.

49. "*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.
50. "*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.
51. "*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,
52. "*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.**
53. *"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 .
54. *'Synthesis of Nanostructured oxides and their Applications in Photocatalysis and Gas Sensing ", Invited talk,* Saudi International Nanotechnology Conference 2010", Riyadh, 29-30 November 2010.
55. " *Fractal Dimension in Amorphous Silicon Thin Films"* Sebastián Castro-Galnares, Nouar Tabet , Mariana Bertoni, Amir A. Abdallah, Syed A. Said, Tonio Buonassisi, 25th European Photovoltaic Solar Energy Conference and Exhibition (25th EU PVSEC) / 5th World Conference on Photovoltaic Energy Conversion (WCPEC-5), 6-10 Sept. 2010, Valencia, Spain.
56. *"Growth of Zinc oxide Nanostructures via Thermal Oxidation of DC-Sputtered Zinc films*" Amir Abdallah, Nouar Tabet, Mohamed Dastageer and Syed Said, International Workshop on "Beam Injection Assessment of Microstructure in Semiconductors (BIAMS)" , 4-8 July 2010, Halle, Germany.
57. "*AFM Study of the Microstructure of Amorphous Silicon PECVD Thin Films*" Nouar Tabet, Sebastián Castro-Galnares, Tonio Buonassisi, Amir A. Abdallah and Syed A. Said , International Workshop on "Beam Injection Assessment of Microstructure in Semiconductors (BIAMS)" , 4-8 July 2010, Halle, Germany.
58. "*The effect of aluminum and nitrogen on the growth of ZnO nanorods.*" Amor Toumiat, Slimane Achour, Michel Troyon and Nouar Tabet, presented at the Fourth Saudi Science Conference, 21-24 March 2010, Taybah University, Madinah, KSA.
59. "*Synthesis and Characterization of Mo doped ZnO Thin Films*", A. Mekki and **N. Tabet**, presented at the 4th Saudi Science Conference, 21-24 March 2010, Taiba University, Madinah, KSA
60. "Towards higher efficiency, scalable thin silicon material and solar cells" N. Tabet, Syed Said, A. Abdallah, C. Sebastian and Tonio Buonassisi, MIT-KFUPM Workshop, 10 Jan. 2010.
61. " CoRERE Research Program on amorphous Silicon Solar Cells " N. Tabet, Presentation at Regional Expert Meeting to Review the Renewable Energy Strategy and Energy Profile in the Gulf Region, Jeddah, 25-27 January 2010.

62. "Effect of Substrate Temperature on the Growth of Nanostructured ZnO Thin Films Prepared Using DC Magnetron Sputtering", Mahmoud Hezam, Nouar Tabet, Abdelkarim Mekki, Poster presented at the "International Conference on Nanotechnology and Advanced Materials (ICNAM)", Bahrain 4-7 May 2009
63. " *Stress Engineering of a-Si Morphology Characterized With Fractal Dimension" S.* Castro-Galnares, N. Tabet, M. Bertoni, A. Abdallah, T. Buonassisi, MRS Fall Meeting, 30Nov-4Dec. 2009, Boston, USA.
64. "*On The structure Of Deposited Diamond-Like Carbon Films Produced By Rf (13.56MHz) CH4 Plasma*" M. Ouchabane, M. Kechouane, K. Henda, H. Salah, B. Touchrift, and **N. Tabet**, in " LASER AND PLASMA APPLICATIONS IN MATERIALS SCIENCE" First International Conference on Laser Plasma Applications in Materials Science—LAPAMS'08", AIP Conf. Proc. 2008, Volume 1047, pp. 123-126,
65. "*XPS/XRD/AFM Characterization of* $Mg_{1-x}Al_xB_2$ *Superconductor",* 'M. Faiz, A. F. Salem, N. Tabet, and Kh. A. Ziq, International Conference on Superconductivity and Magnetism (ICSM2008), Ankara, Turkey, 25-29 August 2008.
66. "*Nanomaterials and Nanodevices*"., International Workshop, Sultan Qaboos University, 13-14 January 2008**. Invited.**
67. *"Critical Analysis of the South Korean Experience in Higher Education"*, (In Arabic), N. Tabet and S. Selim, 2nd Arab Conference on Planning and Development of Education and Scientific Research in the Arab World, KFUPM 24-27 Feb. 2008, Volume 1, pp.3-16
68. "*Bulk and Surface Analytical Techniques: EDS, SIMS and XPS/AES ",* Workshop on Characterization Tools for Condensed Matter, organized by Saudi Physics Society (SPS) and King Abdulaziz City of Sciences and technology (KACST), March, 25th, 2008, Riyadh, Saudi Arabia. **Invited.**
69. "*Monte Carlo Simulation of the Electron Beam Induced Current at a Nano Schottky Contac*t", M. Ledra and N. Tabet, in "Proceedings of International Conference on Physics and Its Applications (CIPA 2007)", 2-4th December 2007, Oran Algeria, p. 664.667.
70. *"Synthesis and Characterization of ZnO Nanostructures"*, M. Faiz and **N. Tabet,** AIP Proceedings of First Sharja International Conference on Nanotechnology and its Applications, 10-12 April, 2007, pp.147-151.
71. "*Growth of ZnO nanorods from Zn and Zn- Zn3N2 films"* A. Toumiat, S. Zerkout, S. Achour, **N . Tabet**, and L. Guarbous , AIP Proceedings of First Sharja International Conference on Nanotechnology and its Applications, 10-12 April, 2007, pp.59-63.
72. *"Synthesis and XRD/PL studies of pure and Sb2O3 doped ZnO nanophases"*N. Boulares, K. Guergouri, **N. Tabet,** C. Monty, AIP Proceedings of First Sharja International Conference on Nanotechnology and its Applications, 10-12 April, 2007, pp.172-176.
73. "*Microwave Synthesis of Nanostructured ZnO*" S. Al-Quraishi and **N. Tabet,** First Sharja International Conference on Nanotechnology and its Applications, Sharja, 10-12 April, 2007.
74. **"***DC Magnetron Synthesis of Nanostructured ZnO Thin Films at High Pressure"* M. Hezam, **N. Tabet,** A. Mekki, First Sharja International Conference on Nanotechnology and its Applications, Sharja, 10-12 April, 2007.

75. "*Community Colleges in AAFAQ- Strategy for Higher Education in KSA*" , Workshop on Higher Education in Saudi Arabia, 20 May 2007, London, UK.
76. "*Properties of nanostructured Zinc Oxide"* A. Mekki , N. Tabet , N Toumiat and S Achour, 8th International Workshop on Beam Injection Assessment of Microstructures in Semiconductors, June 11-14, 2006, Saint Petersburg, Russia.
77. *"Nanostructured Zinc Oxide: Synthesis and Properties",* **N. Tabet,** International Conference on MEMS and Nanotechnology, ICMN06, 14-15 March, 2006, Kuala Lumpur, Malaysia.
78. *"The Shift from Micro-to-Nanoelectronics*" , N. Tabet, Third Meeting on Science and Education, 9 May, 2006, Dhahran, Saudi Arabia. **Invited Talk**
79. *."XRD and Photoluminescence studies of pure and In_2O_3 doped ZnO Nanophases"* , N. Boulares , K. Guergouri, **N. Tabet** , A . Lusson and C. Monty, Materials Forum, Vols. 480-481 (2005) 393.
80. *"Structure of Ti1-xTaxN thin films prepared by Magnetron Sputtering*" O. Bourbia, N. Guerfi S, Achour, **N. Tabet** and A. Mosser, Materials Forum, Vols. 480-481 (2005)387
81. *"Synthesis and properties of Nanostructured Zinc oxide"*, Saudi Physical Society Symposium, 22 Nov 2005, Mekka, Saudi Arabia
82. *"Synthesis and Properties of Nanocrystalline ZnO",* **N. Tabet**, N. Boulares, M. Faiz and C. Monty, "International Conference on Nanotechnology: Science and Applications (Nano Insight 2005, Luxor, 20-25 Feb. 2005, Egypt.
83. *"Luminescence and photocatalytic Properties of ZnO nanopowders"* N. Boulares, **N. Tabet**, K. Guergouri, R. Zouaghi, A . Lusson, F. Sibieude and C. Monty, Presented at 1st Nano-Engineering and Nano-Science Congress 2004, 7-9 July 2004, Singapore.
84. "*Surface Investigation on Thermal Stability of Tungstophosphoric Acid using Synchrotron Radiation*", M. Faiz, J. Pasl and **N. Tabet**, SEZAME third users Meeting, Antalya, Turkey, 11 Oct. 2004.
85. *"Photocatalytic Properties of Nanocrystalline ZnO*", SEZAME third users Meeting, Antalya, Turkey, 11 Oct. 2004 .
86. *"Irradiation-induced silicide formation in ion beam-mixed Au/Si(100) system at room temperature"* R.Khalfaoui, C.Benazzouz, A.Guittoum, S.Tobbeche and **N.Tabet,** presented at **"**V-th International Conference on Ion Implantation and Other Applications of Ions and Electrons" ION 2004, Kazimierz Dolny, Poland, 14-17 June, 2004.
87. *"Local structure and redox state of vanadium in Vanadium-Strontium-Borate [(V2O5)0.5(SrO)0.5-y(B2O3)y] Oxide Glasses"* G.D. Khattak, **N. Tabet**, A. Mekki, 7th Conference on Glass Science Technology, April 25-28, 2004, Athena, Greece.
88. *"SEM/XPS study of Zinc oxidation"* **N. Tabet**, M. Faiz and A. Oteibi, presented at 2nd Saudi Science Conference, Jeddah, March 15-17, 2004.
89. *"EBIC Contrast of Extended Defects: Theory, Experiment and Monte Carlo Simulations*" M. Ledra and **N. Tabet** and**,** presented at 2nd Saudi Science Conference, Jeddah, March 15-17, 2004.
90. *"X-ray Photoelectron Spectroscopy (XPS) Studies of strontium-vanadate (SrO)x(V2O5) 1-x Oxide Glasses"* G.D. Khattak and **N. Tabet**, presented at 2nd Saudi Science Conference, Jeddah, March 15-17, 2004.

91. "*EBIC/XPS study of antimony equilibrium segregation at the germanium surface",* **N. Tabet**, Defects and Diffusion Forum, 200-2, Chapter 17, (2002) 259.
92. "*XPS Study of the Surface Segregation of Antimony at Germanium Surface"* , **N**. **Tabet**, published in Proceedings of the Surface Physics Workshop (SPW2002), 19-22 March. 2002, Muscat, Sultanat of Oman Edited by S.H. Al Harthi, M.E. El Zain and T. Mohiuddin.
93. "*High Resolution XPS study of germanium oxide layers using synchrotron radiation",* 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). **Invited.**
94. "*Application of X-Ray Photoelectron Spectroscopy to the Surface Segregation of Impurities in Semiconductors and Alloys*", **N. Tabet**, Proceedings of 'The First Saudi Science Conference",Part 1 (Physics), King Fahd University of Petroleum and Minerals Printing Press, 2001, pp. 253
95. "*X-Ray Photoelectron Spectroscopy Study of Ge Oxidation*", J. Al-Sadah, N. Tabet and M. Salim, Proceedings of 'The First Saudi Science Conference",Part 1 (Physics), King Fahd University of Petroleum and Minerals Printing Press, 2001, pp. 261.
96. "Monte Carlo Simulation of the Recombination Contrast of Dislocations", N. Tabet, Solid State Phenomena, Vols 63-64 (1998) 89-96.
97. "Cathodoluminescence Dependence on the Beam generation Conditions and Surface Properties of Materials", S. Achour, M.T. Belahrache, A. Harabi and N. Tabet, Solid State Phenomena, Vols 63-64 (1998) 243-250.
98. "Oxidation of CP4 Etched Germanium Surface", N. Tabet, A. L. Al-Oteibi and M. Salim, in "Recent Developments in Material Processing and Modeling", Ed. by KFUPM Press, (1998) 359-370.
99. "Electrical Activity of Grain Boundaries in Germanium', N. Tabet, in 'International Workshop on Defects and Structure of Materials', Doha, Qatar, 15-18 April 1996.
100. 'Injection Level and Temperature Dependencies of the Recombination Activity of Grain boundaries in germanium' , N. Tabet and C. Monty, in 'Intergranular and Interphases Boundaries in Materials', Vol. 207-209, Eds A.C. Ferro, J.P. Conde and M.A. Fortes, Transtec Publications, 1996
101. "Investigation of the electrical properties of ZnO varistors". N. Tabet , N. Boulares and C. Monty. Solid State Phenomena Vols 37-38, (1994), 399.
102. "SEM/EBIC investigations of recombination properties of Grain Boundaries in Germanium", N. Tabet, Invited Lecture, published as a chapter of a book entitled "Structure and property relationships for interfaces", Chapter # 17, Published by the American Society for Materials (ASM), Ed. by J.L. Walter, A.H. King, K Tangri, (1991) pp 361-372.
103. "*SEM-EBIC investigations of the electrical activity of grain boundaries in germanium", N. Tabet, C. Monty, in* "Polycrystalline semiconductors" Ed. by J.h. Werner, H.J., Moller, and H.P. Strunk, Springer Verlag-Berlin- Heidelberg, (1989).
104. "*Analysis of the temperature effect on grain boundaries EBIC contrast in germanium*", N. Tabet and C. Monty in "Interganular and Interfaces Boundaries in Materials. IIB'S 89- Paris, 1989.

105. "*EBIC Measurements of bulk and surface recombination p-type silicon. Influence of oxidation and hydrogenation".* I. Delidais, P. Maugis, D. Ballutaud, N. Tabet and J.L. Maurice. Rev. Phys. Appl. C5, 6,24, (1989), 187.
106. "*Germanium impurity diffusion in boron doped silicon",* A.L. Bouchetout, N. Tabet and C. Monty in "Defects in semiconductors" Ed. by H.J. Von, Vardeleben, Mat. Sc.Forum, Vol. 1012. (1986), 127.
107. "*Co an Mg impurity diffusion in pure and Cr doped NiO*" , N. Tabet, C. Dolin and C. Monty" in "Reactivity of solids" Ed. P. Barret, L.C. Dufour, Elsevier 1985.
108. "*Cobalt Impurity diffusion in NiO",* **N. Tabet** and C. Monty in "Reactivity of solids" Ed. by Dyrek, Novotny, Elsevier 1982.
109. "*Microanalysis by SIMS technique. Application to the de determination of diffusion profiles in solids".* **N. Tabet***,* in Proceedings of the third Arab conference on Physics and Mathematics, Tunis, 1984.

Technical Reports

1. *"Synthesis and Toxicity of ZnO Nanostructures to Cancer Cells and Fungi*", N. Tabet (PI), and K. Amjad , A. Al Sunaidi, NSTIP Proposal, 7th cycle, Sept. 2012.
2. *"Synthesis of Nanostructured ZnO and Development of sensing and biomedical applications" Final report, NSTIP Project,* 08-NAN92-4, Feb 2012. N. Tabet (PI), M. Faiz, A. Mekki, N. Maalej, A. Al Sunaidi and Z. Yamani.
3. "*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.
4. "Benchmarking Best Practices in Higher Education: Korea, Australia, Finland, Malaysia and USA", Final Report of Task Force including 10 members, AAFAQ Project , KFUPM, December 2006.
5. "Research, Innovation, and Graduate Studies: Current realities in Saudi Arabia", Final Report produced by "Research and Innovation" Track-Team, AAFAQ Project, September, 2006.
6. "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, Progress report #1, Sept. 2003 and Final report , 2004
7. "X-ray Photoelectron Spectroscopy (XPS) and Magnetization Studies of Strontium-Borate Vanadate Glasses" KFUPM, Fast track Project FT-2002/05, Progress report #1, Sept. 2003 and Final Report, April 2004
8. "Carburization and Metal Dusting Failures of High Temperature Alloys", I.M. Allam, A.N. Shuaib, **N. Tabet** and A.A. Al-Farayedhi, KACST Project No. AT-17-33, Progress Report #1, Sept. 28, 1999, . Progress Report # 2, April . 2000. Report #3, Nov, 2000. Final Report Dec. 2002.

Short Courses and Workshops

1. Workshop on Photovoltaics and Integration of Renewable energies in the Grid", University Larbi N=Ben Mhidi, Oum Bouaghi, Algeria, 12-14 April, 2018

2. “Electronic Enhancement of Amorphous Silicon Photovoltaic Absorbers via Microstructure Engineering” **N. Tabet**, Amir Abdallah, Abdullah Al-Sunaidi, Syed Said, 7th KFUPM-MIT Workshop , 8-10 January 2012.
3. MIT Team: Eric Johlin, Tim Mueller, Christie Simmons*, Mark Winkler, Hyunjoo Choi, Jeffrey Grossman, Tonio Buonassisi
4. “Solar Cell Day”, 8 May 2011, KFUPM.
5. “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.
6. Short Course on” Surface Techniques and Industrial Problems in Catalysis and Corrosion”, KFUPM, November, 15-19, 1997.

Seminars and Public Lectures

1. “PV Technology: The Quest for Efficiency”, Invited Seminar, American University of Sharjah, 25 March 2019.
2. “Investigation of the Charge Dynamics in Perovskite Solar Cells by Time Resolved Photoluminescence”, Invited Talk at Workshop on “Materials for Energy and Environment”, American University of Sharjah (AUS), 10 March 2019.
3. “PV Technology R& D Paths from Silicon to Perovskites”, University of Sharjah, 17 Feb.2019.
4. PV Technology Trends”, Invited Talk, University of Batna, Algeria, 19 Dec. 2018.
5. PV Technology: Desert Challenges”, Invited Seminar, CDER, Ghardaia, 27 Dec. 2019, Algeria
6. PV Technology Trends from Silicon to Perovskites”, INVITED SEMINAR , CRSTE, Algiers, 2 Jan. 2019.
7. Nanotechnology, Public Seminar, University Larbi Ben Mhidi, Oum Bouaghi, 12 April, 2018
8. “The exponential technologies”, Invited Public Lecture , Constantine, Algeria, 14 April 2018.
9. “Photovoltaic challenges”: Lecture organized by Helios Club, University of Blida, 16 April, 2018.
10. “Carrier Lifetime Measurements in semiconductors”, Public Seminar, Qatar environment and Energy Research Institute, 20 April 2017.
11. “Solar cells: Fundamentals” series of lectures , QEERI, April 2015
12. “Perovskite Based Hybrid Cells: An Emerging Alternative PV Technology “ Nouar Tabet , KFUPM, 16 Dec. 2014
13. “Photovoltaics: From the cell to the Panel”, QEERI, 9 March 2015
14. *“Engineering the Properties of amorphous silicon for solar cells”,* Invited talk, Research Center at the College of Sciences, Imam University, Riyadh, 7 October 2012
15. "Best Practices in Successful Higher Education Systems”, Invited Seminar, BADJI MOKHTAR University , 25 June 2012. Annaba, Algeria
16. “*Nanostructured ZnO Synthesis and Applications*”, Invited lecture, Qatar Foundation, Doha, 22 Sept. 2011.

17. *"Science and Engineering at the Nanoscale*". Invited Public lecture, *Saudi Scientific Society for Electrical Engineers ,* Meridien Hotel, Al-Khobar, October 9th 2011.
18. *"Solar Cells: Past achievements and challenges ahead*", "Solar Cell Day", KFUPM, 8 May 2011.
19. "*Enhancing the Efficiency of Si-Based Solar Cells: Research Program at CORERE*", N. Tabet, Regional Expert Meeting to Review the Renewable Energy Strategy and Energy Profile in the Gulf Region, Jeddah, 25-27 January 2010.
20. "*Solar cell Efficiency",* N. Tabet, Physics Department, KFUPM, 22 March 2010.
21. "*Solar cells: Understanding the Physics, Engineering the Device*" N. Tabet, King Abdullah Institute of Nanotechnology (KAIN), Riyadh , March 30th , 2010. **Invited.**
22. "*Solar cells: Quest for Efficiency* " N. Tabet, Physics Department, Durham University, 21st July 2010. **Invited.**
23. *" Solar cells",* N. Tabet, Physics Department, UKM, Malaysia, 4th August 2010. **Invited.**
24. Solar Cells Understanding the Physics, Engineering the Device" King Abdullah Institute of Nanotechnology (KAIN), Riyadh , March 30th, 2010. **Invited.**
25. "*Solar cells : Recent Developments*", N. Tabet , KFUPM, Nov. 22, 2009.
26. "*Surface and bulk analytical techniques for materials"*, 7th, June 2008, Physics Department, King Khaled University, Abha, Saudi Arabia, **". Invited.**
27. "*Nanotechnology, recent developments*", 8th June 2008, Physics Department, King Khaled University, Abha, Saudi Arabia. **Invited.**
28. "*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.**
29. 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.**
30. "*Lectures on Semiconductors*", Organized by Saudi Physics Society (SPS), through Internet, 24 April 2008.
31. "*Nanotechnology: The idea and its applications*"; Imam University, Riyadh, 20 November 2007. **Invited**.
32. "*Introduction to Nanotechnology",* Program for gifted students, KFUPM, 1 July 2007.
33. " *What is Nanotechnology?",* Public lecture, 12 Oct. 2006 SciTech, Khobar
34. "*From Nuclear Technology to Nano-technology*", N. Tabet**,** Teachers College, Dammam, 27th November, 2006. **Invited.**
35. *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.**
36. *"Nanotechnology: Small and Luminescent" ,* **Invited talk** at First Meeting of the Colleges of Education of Girls, Jeddah, 23 April, 2006
37. *"Nanotechnology "* , **Invited talk**, Physics Department, King Abdulaziz University, 12 April, 2006.
38. "*Nanotechnology:* The power of the Small", KFUPM, Seminar, 19Feb. 2006

39. *"Nanotechnology "*, March 17th, 2005, King Abdulaziz University (women). **Invited Talk** .
40. *Nanocrystalline Zinc Oxide in Catalysis and Optoelectronics*, KFUPM, March 7th, 2004
41. *« Naissance et Developement de la Nanotechnolgie »*, **Invited Talk**, 25 June , 2005, University of Constantine, Algeria
42. "*Nanotechnology*" KFUPM, Lecture for High School Teachers 6-10 Sept, 2003.
43. "*Major inventions which led to the birth of Nanotechnology*", KFUPM Program Gifted Students, July 2003.
44. "*What is Nanotechnology?*", Khobar High School, 13 May, 2003-05-13
45. "*Interfaces in Materials and Devices*" KFUPM, Ma, 4th , 2003.
46. "*Nanotechnology from the visualization of atoms to their manipulation. What is the next*? KFUPM, March, 8th, 2003 .
47. " *How it became possible to observe atoms*", KFUPM Program for Gifted Students, June 2002.
48. "*Nanotechnology challenges*", KFUPM 21 Oct. 2001.
49. "*Defects in Solids*", N. Tabet, KFUPM, 3 Oct. 1999.
50. "*Growth Kinetics of Ultra-thin oxide Layers on Ge Surfaces*", N. Tabet, KFUPM, Sept. 27, 1998.
51. "*Local Injection Techniques for Defects Assessment in Semiconductors*", N. Tabet, Mini-workshop on Semiconductors and Technology, KFUPM, 11 March 1997.
52. '*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.
53. "S*EM/EBIC Investigations of the Electrical Properties of Grain Boundaries in Germanium*", N. Tabet, KFUPM, Dec. 1994.

Organization of International Conferences and Workshops

1. International Sharjah Conference on Phyhsics of Adsvanced Materials (SICPAM 2020), Sharjah, 23-35 March 2010, Chair of the Scientific Commitee
2. "Workshop on Science and Tools for Solar Energy Conversion" 13-14 April, 2014, QEERI, Qatar Foundation, Doha, Qatar.
3. Member of the technical program committee of the "2nd Electronics, Communications and Photonics International Conference", 27-30 April 2013, Riyadh, Saudi Arabia
4. Member of the Scientific Program Committee of 26th ICDS 2013, Italy.
5. Co Chairman of the *11th International Workshop on Beam Injection Assessment of Microstructures in Semiconductors (BIAMS11),* held in Annaba, Algeria, 25-28 June 2012.
6. *"International Conference on Nanotechnology and Advanced Materials (ICNAM)*", Bahrain 4-7 May 2009. Member of the International advisory committee
7. "*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

8. Co-Chair of "*First Sharja International Conference on Nanotechnology and its Applications"*, Sharja, 10-12 April, 2007.
9. *"International Joint Conference on Knowledge Management for Composite Materials KMCM 2007 , Düsseldorf, Germany, 3-6 July, 2007",* Member of Program Board
10. *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, Annaba, Algeria, 23-26 June 2012, Tsukuba, Japan, 25-28 June 2014, Paris, to be held in 2016.

Participation in International Conferences and Workshops

1. HOPV, Lausanne, 21-24 May 2017
2. EMRS, Strasbourg: 22-26 May 2017
3. International Conference on "Frontiers in Theoretical and Applied Physical Sciences", 22-26 Feb. 2016, **Invited Talk,** American University of Sharja (AUS), United Arab Emirates.
4. 26th International Photovoltaic Science and Engineering Conference (PVSEC-26), 24 - 28 October 2016, Singapore.
5. 26th edition of the International Photovoltaic Science and Engineering Conference (PVSEC-26), 24 - 28 October 2016, Singapore.
6. BIAMS 13, Paris Versailles, 5-9 June 2016, Oral communication, Chaired a session of the conference
7. International Conference on Nanotechnology, Kuwait, Feb 9-11, 2015, **Invited speaker**
8. 1st International Conference on Perovskite Solar Cells and Optoelectronics (PSCO 2015), Lausanne, Switzerland, 27-29 September, 2015.
9. 31st European Photovoltaic Solar Energy Conference (EUPVSEC), 14-18 Sept. 2015, Hamburg. Germany
10. 7th International Conference on Hybrid and Organic Photovoltaics (HOPV), 10-13 May 2015, Rome, Italy,
11. European Materials Science Society (EMRS), 13-15, May 2015, Lille, France
12. PV Workshop, 12 April, Doha, 2015
13. International Conference on Materials for Energy and Environmental Engineering", Algiers, 22-25 NOVEMBER 2014, Invite talk.
14. 3rd International Symposium on Environment-Friendly Energies and Applications (EFEA 2014), Paris, France, 19-21 November 2014. Oral talk
15. TMS-MEMA , 11-14 January 2015, DOHA, QATAR
16. BIAMS'12 International workshop", 23-26 June,2014, Tsukuba, Japan
17. 2nd International Conference on New Materials and Active Devices", 25-26 May 2014, Oum Bouaghi, Algeria, **Invited Talk**.
18. 38th IEEE Photovoltaic Specialist Conference, USA , Austin, Texas, 3-8 June 2012
19. International Conference and Workshop on Nanostructured Ceramics and other Nanomaterials (ICWNCN), Delhi, India, 13-16 March 2012

20. 5th Saudi Science Conference", Meccah, 2012
21. "*Saudi International Nanotechnology Conference 2010*", Riyadh, 29-30 November 2010, *Invited talk,*
22. "*Saudi International Nanotechnology Conference 2010*", Riyadh, 29-30 November 2010, *Invited talk,*
23. "*Summer Workshop on Clean Water and Clean Energy*", MIT, Boston, 30 June-1 July 2009,
24. *"Seeing at the Nanoscale VII*", Santa Barbara, CA, USA, 28-31 July 2009.
25. *"International Conference on Nanotechnology and Advanced Materials (ICNAM)*", Bahrain 4-7 May 2009. Member of the International advisory committee.
26. "*Nanotechnology Conference",* co-organized by the University of Jordan, the University of Illinois, and King Saud University, November 10-13, 2008 Amman, Jordan.
27. "*BIAMS'08 International workshop*", Toledo, Spain, 29-June 3 July 2008.
28. "*Thin Films 2008 and NanoMan2008*", Singapore. 13-16 July 2008.
29. "Regional Workshop on Nanotechnology", Sultanate Oman, Mascat, 13th – 14th January, 2008, **Invited talk.**
30. "*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.
31. "*First Sharja International Conference on Nanotechnology and its Applications*", Sharja, 10-12 April, 2007..
32. "*International Conference on MEMS and Nanotechnology"*, ICMN06, 11-14 March, 2006, Kuala Lumpur, Malaysia
33. "*Nanotech Insight 2005*", Feb. 20-25th, Luxor, Egypt, 2005.
34. *"1st Nano-Engineering and Nano-Science Congress 2004",* Singapore, 7-9 July 2004.
35. "*SESAME third users Meeting"*, Antalya, Turkey, 11 Oct. 2004 .
36. *"International Conference on Applied Physics AP2003"*, Spain, 13-18 Oct, 2003.
37. "*Beam Assessment of Microstructure of Semiconductors (BIAMS)",* Lille, France , 25-29 May 2003.
38. "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.
39. *"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).
40. *"Surface Physics Workshop SPW2002",* Qaboos University, Muscat, Oman, 19-22 March. 2002.
41. "*First Saudi Science Conference"*, King Fahd University of Petroleum and Minerals, 2001.
42. *"Atomically Controlled Surfaces and Interfaces and Nanostructures (ACSIN-6)",* Lake Tahoe, California, USA, July 9-12, 2001
43. "*Beam Assessment of Microstructure of Semiconductors (BIAMS)",* 12-16 November 2000, in Fukuoka, Japan.
44. "*8th International Conference on Electronic Spectroscopy and Structure, ICEES-8"* held from 8 to 12 August, 2000, Berkeley, CA, USA

45. *"International Conference on Structure of Surfaces ICSOS-6",* July 26-30, 1999 in Vancouver, Canada.
46. *"Vacuum Ultraviolet Radiation Physics (VUVXII*)", San Francisco, USA, Aug. 3-7, 1998.
47. "*Beam Injection Assessment of Defects in Semiconductors (BIADS'98)",* Wulkow, Berlin, Germany, Aug.31-Sept 4,1998
48. "*BIADS'96"*, El-Escorial, Madrid, Spain 1996
49. *"BIADS'93",* Bologna, Italy, 1993.
50. *"Polycrystalline Semiconductors (POLYSE)",* Malente, Germany, 1988
51. *"POLYSE'93",* Saint Malo, France, 1993.
52. *"Maghrebin Meeting of Materials*", Algiers, Algeria, 1992.
53. *"American Society of Materials Meeting (ASM) on " Structure / Properties Relationship for Interfaces."*, Detroit, Michigan, USA, 1990, (Invited talk).
54. *"Intergranular and Interphase Boundary (IIB'89*)", Paris, France, 1989.
55. *"BIADS'88",* Paris, France, 1988.
56. "*NATO- Summer School on " Defects in Solids*" , Cetraro, Italy, 1985.
57. *"10th International Symposium on the Reactivity of Solids*", Dijon, France, 1984.
58. *"14th International Conference on Defects in Semiconductors ICDS-14",* Paris, France, 1986.
59. "*Third Arab Conference on Physics and Mathematics",* Tunis, Tunisia, 1984.

Services

1. Served in CSE /HBKU Curriculum Committee, as a member
2. Member of the executive Committee of the 2nd Strategic Plan of King Fahd University for Petroleum and Minerals, 2011.
3. Member of KFUPM Consultant Team advising Hail University on academic affairs (teaching, faculty development and research), 2008.
4. 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.
5. Chairman of the Planning Committee of the College of Sciences, KFUPM, 2004-2005.
6. Chairman of the Planning Committee which developed a Strategic Plan for the Colleges of Sciences in the GCC, KFUPM, 2000.
7. Member of the Selection Committee of the King Faisal International Prize for Science, 2000 and 2009.