

### Education

- 2008 **HDR**, *Faculty of Sciences of Oujda*, Mohammed 1st University.
- 1996 – 1999 **Ph.D., degree**, "*Conception of Microelectronic and Micro-systemes*", PhD Thesis prepared at LAAS-CNRS, Université de Paul Sabatier, Toulouse, France.
- 1994 – 1995 **DEA degree in Microelectronics**, *Conception of Microelectronic and Micro-systemes*, INSA, Toulouse, France.
- 1994 **Licence EEA**, *Faculty of Sciences of Oujda*, Mohammed 1st University.

### Experience & Position held

- 2015-Now **Professor**, *National School of Applied Sciences - Oujda*.  
Mohammed 1st University
- 2016-Now **Head**, of "*Renewable Energy, Embedded Systems and Information Processing*" Laboratory,  
*National School of Applied Sciences - Oujda*.  
Mohammed 1st University
- 2016-Now **Head**, of "*Energy and Embedded Systems*" Research Team, *National School of Applied Sciences - Oujda*.  
Mohammed 1st University
- 2010 – 2016 **Head**, of "*Micro and Nano Systems and Devices*" Research Team, *National School of Applied Sciences - Oujda*.  
Mohammed 1st University
- 2010 – 2014 **Head**, of "*Electrical Engineering Departement*", *National School of Applied Sciences - Oujda*.  
Mohammed 1st University
- 1999 – 2002 **Engineer at ST-Microelectronics**, *Casablanca-Morocco*, "Responsible of Assembly Engineering Area", Production line : DPAK & TO220.
- 1996 – 1999 **3 years experiences in Cleanroom Manufacturing** , at LAAS-CNRS, Toulouse, France.

### International scientific committee of conferences

- May 2022 **General Chair**, of "*The 3rd International Conference on Electronic Engineering and Renewable Energy Systems (ICEERE'22)*".  
20-22 May 2022, Saidia, Morocco
- April 2020 **General Chair**, of "*The 2nd International Conference on Electronic Engineering and Renewable Energy Systems (ICEERE'20)*".  
13-15 Avril 2020, Saidia, Morocco
- April 2019 **General Chair**, of "*The First International on Electric Engineering and Renewable Energy (ICEERE'18)*".  
15-17 April 2018, Saidia, Morocco
- April 2019 **Co-Chair**, of "*The 5th IEEE International Conference on Wireless Technologies, Embedded and Intelligent Systems (WITS'19)*".  
3-4 April 2019, Fes, Morocco
- November 2018 **Chair**, of "*The International Workshop on Power and Electric System*" (IWPEs'18) :.  
IEEE- International Symposium on Advanced Electrical and Communication Technologies (ISAECT2018), 21-23 November 2018, Rabat, Morocco

2016 - Now **Reviewer**, for several *International conferences* : .

ICMCS'16(Marrakech), ICMCS'17(Tangier),IRSEC'16(Marrakech),IRSEC'17(Marrakech),  
IRSEC'19(Marrakech),WITS'17(Fes), WITS'19(Fes),WITS'20(Fes),ICAT'2017(Safi)  
ICECOCS'18(Kenitra),ICECOCS'20(Kenitra),ICSDE'18(Rabat),CETIS'18(Fes),ISAECT'18(Rabat)  
ISAECT'20(Kenitra),ICOA'19 (Kenitra),ICOA'20(Kenitra),ICDTA'21(Fes),Smartic'19(Saidia)

November **Chair**, of *The International Workshop "Micro-Technology & Embedded Systems" (MT-SE'12)*.

25 Mai 2012, ENSA d'Oujda, Morocco

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## Skills

- ▷ Solar PV Systems, Photovoltaic Thermal (PV/T) hybrid Systems, Energy Management and Artificial Intelligence
- ▷ Development of ChemMFETs sensors and Embedded Systems
- ▷ Conception of Microelectronic and Micro-systemes
  - Proficiency in HDL (VHDL, Verilog and System-C) and using VLSI IC Design CAD tools (Synopsys, CADENCE, Mentor, Mathlab, Simulink, Xilinx, Altera)
- ▷ Design and test of digital ASICs and/or FPGAs

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## COURSES TAUGHT

- ▷ Solar Energy and Energy Management
- ▷ Electronic Circuits and Systems
- ▷ VHDL, Field Programmable Gate Array (FPGA)& Embedded Systems

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## PUBLICATIONS

### Books and chapter in books

- **Editors** : **B. HAJJI**, A. Mellit, L. Bouselham : "A Practical Guide for Simulation and FPGA Implementation of Digital Design", Computer Architecture and Design Methodologies (CADM), Springer Nature Singapore Pte Ltd. 2022, DOI <https://link.springer.com/book/10.1007/978-981-19-0615-2>.
- **Editors** : **B. HAJJI**, A. Mellit, A. Gagliano, A. Rabhi, Mohammed Amine Koulali : "Proceedings of the 3rd International Conference on Electronic Engineering and Renewable Energy Systems", Lecture Notes in Electrical Engineering book series (LNEE, volume 954), Springer Nature Singapore Pte Ltd. 2023, DOI <https://link.springer.com/book/10.1007/978-981-19-6223-3>.
- **Editors** : **B. HAJJI**, A. Mellit, M. Tina, A. Rabhi, J. Launay and S.E. Naimi : "Proceedings of the 2nd International Conference on Electronic Engineering and Renewable Energy Systems", Lecture Notes in Electrical Engineering book series (LNEE, volume 681), Springer Nature Singapore Pte Ltd. 2021, DOI <https://doi.org/10.1007/978-981-15-6258-7>.
- **Editors** : **B. HAJJI**, M. Tina, K. Ghomid, H. Rabhi and A. Mellit : "Proceeding of the first International on Electric Engineering and Renewable Energy", Lecture Notes in Electrical Engineering book series (LNEE, volume 519), Springer Nature Singapore Pte Ltd. 2019, DOI <https://doi.org/10.1007/978-981-13-1405-6>.
- L. Bouselham, A. Rabhi, **B. HAJJI** : "New Reconfiguration Method Based on Logic Gates for Small Dynamic Photovoltaic Array", A Practical Guide for Advanced Methods in Solar Photovoltaic Systems, Advanced Structured Materials book series-Springer, 2020, DOI <https://doi.org/10.1007/978-3-030-43473-1>.

### Publications in international journals and conference proceedings

1. Benzaouia, M., **B. HAJJI**, Rabhi, A., Benzaouia, S., Mellit, A. : "Real-time Super Twisting Algorithm based fuzzy logic dynamic power management strategy for Hybrid Power Generation System", Journal of Energy Storage, 2023, 65, 107316.
2. Jalti, F., **B. HAJJI**, Aciri, A., Cali, M. : "An Advanced Rider-Cornering-Assistance System for PTW Vehicles Developed Using ML KNN Method", Sensors, 2023, 23(3), 1540.
3. Safae Margoum, Chaimae El Fouas, **B. HAJJI**, Stefano Aneli, Marco Giuseppe Tina and Antonio Gagliano : "Modelling and performances assessment of a nanofluids-based PV/T hybrid collector", Energy Sources, Part A : Recovery, Utilization, and Environmental Effects Volume 45, 2023.
4. Michele Cali, **B. HAJJI**, Gioele Nitto and Alberto Aciri : "The Design Value for Recycling End-of-Life

Photovoltaic Panels", Appl. Sci. 2022, 12, 9092.

5. Zineb Aqachmar, Mustapha Raoufi, Abdelali El Gourari, Tarik Bouhal, Mariame Jenhi, **B. HAJJI**, Abdelfettah Barhdadi : "Modelization and Simulation of a Low Cost Concentrated Photovoltaic Solar Cell : Parametric and Sensitivity Study under MATLAB", Instrumentation Mesure Métrologie, Vol. 21, No. 1, February, 2022, pp. 1-6.
6. Chaimae El Fouas , Nelu Cristian Cherecheş , Sebastian Valeriu Hudişteanu, **B. HAJJI**, Emilian Florin Ţurcanu, and Monica Lilioara Cherecheş : "Numerical and Parametric Analysis for Enhancing Performances of Water Photovoltaic/Thermal System", Appl. Sci. 2022, 12(2), 646.
7. Loubna Bouselham , Abdelhamid Rabhi, **B. HAJJI**, Adel Melli : "Photovoltaic array reconfiguration method based on fuzzy logic and recursive least squares : An experimental validation", Energy, Volume 232, 1 October 2021, 121107.
8. Oussama El Manssouri, **B. HAJJI**, Giuseppe Marco Tina, Antonio Gagliano and Stefano Aneli : "Electrical and Thermal Performances of Bi-Fluid PV/Thermal Collectors", Energies 2021, 14(6), 1633.
9. C. El Fouas, **B. HAJJI**, A. Gagliano, G.M. Tina and S. Aneli : "Numerical model and experimental validation of the electrical and thermal performances of photovoltaic/thermal plant", Energy Conversion and Management, 2020.
10. Benslimane, A., Bouchnaif, J., Essoufi, M., **B. HAJJI** and el Idrissi, L : "Comparative study of semiconductor power losses between CSI-based STATCOM and VSI-based STATCOM, both used for unbalance compensation", Protection and Control of Modern Power Systems, Springer 2020.
11. K. GHOU MID, E.-M. AR REYOUCHI, A. GHADBANE, **B. HAJJI**, R. YAHIAOUI and T. GHARBI : "Signal breathing losses in filters based on optical channel with high index modulation", International Journal of Electronics and Communications (AEU) Vol. 73 (2017), pp 9–15.
12. E.-M. AR REYOUCHI, Y. CHATEI, K. GHOU MID, M. HAMMOUTI and **B. HAJJI** : "Efficient coding techniques algorithm for cluster-heads communication in wireless sensor networks", International Journal of Electronics and Communications (AEU) Vol. 82 (2017), pp 294–304.
13. Safae Margoum, **B. HAJJI**, Chaimae El Fouas, Oussama El Manssouri, Stefano Aneli, Antonio Gagliano, Giovanni Mannino and Giuseppe Marco Tina : " Prediction of Electrical Power of Ag/Water-Based PVT System Using K-NN Machine Learning Technique", Lecture Notes in Networks and Systems , 2023, 668 LNNS, pp. 125–132.
14. Hanane El Oualy, **B. HAJJI**, Khadija Mokhtari, Mouhsine Omari & Hamid Madani : " Evaluation of Machine Learning and Ensemble Methods for Complications Related to Port a Cath", Lecture Notes in Networks and Systems, 2023, 668 LNNS, pp. 133–142.
15. Benzaouia, M., **B. HAJJI**, Rabhi, A. : " Cascaded Control Based on Super Twisting Algorithm for DC-DC Converter", Lecture Notes in Networks and Systems , 2023, 669 LNNS, pp. 561–569.
16. Mellit, A., **B. HAJJI**, Rabhi, A. : " Smart Greenhouse with Plant Diseases Classification Using Transfer Learning and Deep CNNs", Lecture Notes in Electrical Engineering , 2023, 954, pp. 621–629.
17. Margoum, S., El Fouas, C., **B. HAJJI**, Stefano Aneli, Antonio Gagliano, Giovanni Mannino & Giuseppe M. Tina : " Study Effect of Nanofluids on the Performance Enhancement of PV/T Collector", Lecture Notes in Electrical Engineering , 2023, 954, pp. 905–916.
18. Oussama El Manssouri, João Silva, **B. HAJJI**, José Teixeira, Senhorinha Teixeira & Mohamed Hajji : " Simulation Numerical of a Bi-fluid Photovoltaic/Thermal Solar Panel", Lecture Notes in Electrical Engineering , 2023, 954, pp. 971–978.
19. Jalti, F., **B. HAJJI**, Mbarki, A. : " Controlling Powered Two-Wheeled Vehicles in Bends Using Machine Learning", Lecture Notes in Electrical Engineering , 2023, 954, pp. 571–581.
20. Stefano Aneli, Antonio Gagliano, **B. HAJJI**, Giovanni Mannino & Giuseppe M. Tina : " Energy Performances of a Photovoltaic Thermal Plant Using Different Coolant Nanofluid", Lecture Notes in Electrical Engineering , 2023, 954, pp. 733-739.
21. Mohammed Boutaybi, Yamina Khelifi, **B. HAJJI** : " Efficient Fuzzy Logic MPPT Controls for Sudden Change in Load", Lecture Notes in Electrical Engineering , 2023, 954, pp. 461-470.
22. Chaimae El Fouas, Mohamed Hajji, Oussama El Manssouri, **B. HAJJI**, Antonio Gagliano & Giuseppe Marco Tina : " Performances Comparison of PV/T Solar Plants with Roll-Bond and Sheet-and-Tube Absorbers", Lecture Notes in Electrical Engineering , 2023, 954, pp. 707-716.

23. Hanane El Oualy, **B. HAJJI**, Adel Mellit, Mouhsine Omari, Kamal Ahsayan & Hamid Madani : " Prediction of Port A Cath Complications Using Machine Learning Techniques", Lecture Notes in Electrical Engineering , 2023, 954, pp. 317-327.
24. Benzaouia Mohammed, **B. HAJJI**, Mokhtari Hassan & Chaabane Khalid : " Neural Network-Based Precision Irrigation Scheduling and Crop Water Stress Index (CWSI) Assessment", Lecture Notes in Electrical Engineering , 2023, 954, pp. 661-669.
25. Safae Margoum, Chaimae El Fouas, Mohamed Hajji, **B. HAJJI**, & Abdelhamid Rabhi : " Numerical and Parametric Analysis of Nanofluid-Based PV/T System for Hydrogen Production", Lecture Notes in Electrical Engineering , 2023, 954, pp. 979-987.
26. Nabil Ayadi, **B. HAJJI**, Ahmet Lale, Jerome Launay & Pierre Temple-Boyer : " SiNW-ISFET Sensor Modeling Using the k-Nearest Neighbor Machine Learning", Lecture Notes in Electrical Engineering , 2023, 954, pp. 357-365.
27. M. Essoufi, **B. HAJJI**, & Abdelhamid Rabhi : " Modeling and Analysis of a Fuel Cell-Battery Hybrid Electric Vehicle", Lecture Notes in Electrical Engineering , 2023, 954, pp. 583-597.
28. Mohammed Benzaouia, **B. HAJJI**, Abdelhamid Rabhi & Adel Mellit : " Energy Management Strategy Based on Neural Network for Hybrid Renewable System", Lecture Notes in Electrical Engineering , 2023, 954, pp. 388-394.
29. Fakhreddine Jalti, **B. HAJJI** & Abderrahim Mbarki : " New Approach for Controlling PTW Vehicle Dynamics : Characterization of Critical Scenarios", Lecture Notes in Electrical Engineering , 2022, 745, pp. 431-444.
30. Oussama El Manssouri, **B. HAJJI**, Antonio Gagliano & Giuseppe Marco Tina : " Numerical Analysis of Bi-fluid PV/T Hybrid Collector Using the Finite Difference Method", Lecture Notes in Electrical Engineering , 2022, 745, pp. 769-779.
31. Nabil Ayadi, **B. HAJJI**, Abdelghafour Galadi, Ahmet Lale, Jerome Launay & Pierre Temple-Boyer : " Study of Parameters Influencing on the Performance of SiNW ISFET Sensor", Lecture Notes in Electrical Engineering , 2022, 745, pp. 445-455.
32. F. Jalti, **B. HAJJI** & A. Mbarki : " The Potential Outcomes of Artificial Intelligence Applied to the Powered Two-Wheel Vehicle : Analytical Review", Lecture Notes in Networks and Systems, 2021, 211 LNNS, pp. 1595-1605.
33. N. Ayadi, **B. HAJJI**, H. Madani, A. Lale, J. Launay & P. Temple-Boyer : " Simulation and performance study of silicon nanowire (Si-NW) field-effect transistor (FET) pH microsensor", Lecture Notes in Electrical Engineering, 2021, 681, pp. 387-398.
34. Y. Amari, S. Labdai, M. Hasni, A. Rabhi, **B. HAJJI** & A. Mellit : " Behavior study of a new inverter topology for photovoltaic applications", Lecture Notes in Electrical Engineering, 2021, 681, pp. 753-760.
35. Mohammed Benzaouia, **B. HAJJI**, Abdelhamid Rabhi, Adel Mellit, Anas Benslimane & Anne Migan Dubois : " Energy management strategy for an optimum control of a standalone photovoltaic-batteries water pumping system for agriculture applications", Lecture Notes in Electrical Engineering, 2021, 681, pp. 855-868.
36. Stefano Aneli, Antonio Gagliano, Giuseppe M. Tina, **B. HAJJI** : " Analysis of the energy produced and energy quality of nanofluid impact on photovoltaic-thermal systems", Lecture Notes in Electrical Engineering, 2021, 681, pp. 739-745.
37. Mohammed Chaker, Driss Yousfi, **B. HAJJI**, Mustapha Kourchi, Mohamed Ajaamoum, Ahmed Belarabi, Nasrudin Abd Rahim & Jeyrage Selvaraj : " Design and implementation of a photovoltaic emulator using an insulated full bridge converter based switch mode power supply", Lecture Notes in Electrical Engineering, 2021, 681, pp. 531-541.
38. Oussama El Manssouri, Chaimae El Fouas, **B. HAJJI**, Abdelhamid Rabhi, Giuseppe Marco Tina & Antonio Gagliano : " Mass flow rates effect on the performance of PV/T bi-fluid hybrid collector (single and simultaneous modes)", Lecture Notes in Electrical Engineering, 2021, 681, pp. 869-878.
39. C. El Fouas, O. El Manssouri, **B. HAJJI**, G. M. Tina & A. Gagliano : " Study and modeling of energy performance of PV/T solar plant for hydrogen production", Lecture Notes in Electrical Engineering, 2021, 681, pp. 879-891.

40. M. Essoufi, **B. HAJJI** & A. Rabhi : " Energy management strategy based on a combination of frequency separation and fuzzy logic for fuel cell hybrid electric vehicles", Lecture Notes in Electrical Engineering, 2021, 681, pp. 593-606.
41. N. Rouibah, L. Barazane, A. Rabhi, **B. HAJJI**, R. Bouhedir, A. Hamied & A. Mellit : " Experimental assessment of perturb & observe, incremental conductance and hill climbing MPPTs for photovoltaic systems", Lecture Notes in Electrical Engineering, 2021, 681, pp. 461-467.
42. N. Ayadi, **B. HAJJI**, H. Madani, J. Launay and P. Temple-Boyer : "Modelling and performance evaluation of Si-NW ISFET microsensor", IEEE, International Conference on Electrical and Information Technologies, ICEIT 2020.
43. M. Essoufi, **B. HAJJI** and A. Rabhi : "Fuzzy Logic based Energy Management Strategy for Fuel Cell Hybrid Electric Vehicle", IEEE, International Conference on Electrical and Information Technologies, ICEIT 2020.
44. O. El Manssouri, C. El Fouas, **B. HAJJI**, G.M. Tina and A. Gagliano : "Modeling and performances assessments of PV/T bifluid hybrid collector : Three cooling modes operation case", IEEE, International Conference on Electrical and Information Technologies, ICEIT 2020.
45. Oussama El Manssouri, Chaimae El Fouas, **B. HAJJI**, Loubna Bouselham, Abdelhamid Rabhi, Giuseppe Marco Tina and Antonio Gagliano : "Performance Analysis of Bi-fluid Photovoltaic/Thermal (PV/T) Solar Collector", Proceedings of 2019 7th International Renewable and Sustainable Energy Conference, IRSEC 2019.
46. Loubna Bouselham, Abdelhamid Rabhi, **B. HAJJI**, Adel Mellit and Chaimae El Fouas : "An Intelligent Irradiance Equalization Approach based on Fuzzy Logic for Small Reconfigurable PV Architecture", Proceedings of 2019 7th International Renewable and Sustainable Energy Conference, IRSEC 2019.
47. Mohammed Benzaouia, Loubna Bouselham, **B. HAJJI**, Anne Migan Dubois, Anas Benslimane and Mostafa El Ouariachi : "Design and Performance Analysis of a Photovoltaic Water Pumping System based on DC-DC Boost Converter and BLDC Motor", Proceedings of 2019 7th International Renewable and Sustainable Energy Conference, IRSEC 2019.
48. Chaimae El Fouas, Oussama El Manssouri, **B. HAJJI**, Loubna Bouselham, Giuseppe Marco Tina and Antonio Gagliano : "Modeling of Dust Deposition Impact on PV/T Hybrid Collector Performances", Proceedings of 2019 7th International Renewable and Sustainable Energy Conference, IRSEC 2019.
49. N. Rouibah, L. Barazane, A. Mellit, **B. HAJJI** and A. Rabhi : "A low-cost monitoring system for maximum power point of a photovoltaic system using IoT technique", IEEE, International Conference on Wireless Technologies, Embedded and Intelligent Systems, WITS 2019.
50. H. Sellamna, A. Mellit, A. Rabhi and **B. HAJJI** : "Micro-grid reactive power sharing using an adaptive virtual impedance technique", IEEE, International Conference on Wireless Technologies, Embedded and Intelligent Systems, WITS 2019.
51. L. Bouselham, **B. HAJJI**, A. Mellit, A. Rabhi and K. Kassmi : "Hardware implementation of new irradiance equalization algorithm for reconfigurable PV architecture on a FPGA platform", IEEE, International Conference on Wireless Technologies, Embedded and Intelligent Systems, WITS 2019.
52. Y. Khlifi, **B. HAJJI**, and A. Messaoudi : " A New Maximum Power Point Tracking PV Control for Rapid Changes in Irradiation Level ", Lecture Note in Electrical Engineering, Springer (2019), pp 384–391.
53. L. Bouselham, **B. HAJJI**, A. Mellit, A. Rabhi, and A. Mazari : "A Reconfigurable PV Architecture Based on New Irradiance Equalization Algorithm ", Lecture Note in Electrical Engineering, Springer (2019), pp 470–477.
54. D. Yousfi, **B. HAJJI** , M. El Hafyani, M. Kourchi, H. Mohssine, N. Abd Rahim, and J. Selvaraj : " Design, Simulation and Implementation of an Isolated Switched-Mode Power Supply ", Lecture Note in Electrical Engineering, Springer (2019), pp 350–358.
55. C. El Fouas, M. Hajji, H. Bouali, **B. HAJJI**, G. M. Tina and Y. Khlifi : " Absorber Designs Effect on the Performance of PV/T Water Hybrid Collector", Lecture Note in Electrical Engineering, Springer (2019), pp 679–689.

56. H. Sellamna, N. Rouibah, A. Mellit, G. M. Tina and **B. HAJJI** : "Power Flow Control in Autonomous Micro-grid Operation Using Ants Colony Optimization Under Variable Load Conditions", Lecture Note in Electrical Engineering, Springer (2019), pp 392–398.
57. L. Bousalham, M. Hajji, **B. HAJJI**, H. BOUALI : "A New MPPT-based ANN for Photovoltaic System under Partial Shading Conditions", Energy Procedia, Vo 111 (2017), pp 924-933.
58. C. El Fouas, M. Hajji, L. Bouselham, **B. HAJJI**, A.El Mehdi, H. Bouali : "Analysis and design of an energy system based on PVT water collector for building application", IEEE, Renewable and Sustainable Energy Conference (IRSEC), 2017.
59. L. Bouselham ; M. Hajji ; **B. Hajji** ; H. Bouali : "A MPPT-based ANN controller applied to PV pumping system", IEEE, Renewable and Sustainable Energy Conference (IRSEC), 2016.
60. L. Bousalham, M. Hajji, **B. HAJJI**, A. El Mehdi, H. Hajji : "Hardware implementation of Fuzzy logic MPPT controller on a FPGA Platform", IEEE, Renewable and Sustainable Energy Conference (IRSEC), 2015.
61. M. Hajji, S. Naimi, **B.HAJJI**, A. El Mehdi, M. El Hafyani : "Performance analysis of hybrid photovoltaic/thermal (PVT) collector",IEEE, Renewable and Sustainable Energy Conference (IRSEC), 2015.
62. L. Bouselham, ,**B. Hajji**, H. Hajji : "Comparative study of different MPPT methods for photovoltaic system", Renewable and Sustainable Energy Conference (IRSEC), 2015.
63. S.E. Naimi, **B. Hajji**, I. Humenyuk , J. Launay, P. Temple-Boyer : "Temperature influence on pH-ISFET sensor operating in weak and moderate inversion regime : Model and circuitry", Sensors and Actuators B 202 (2014), pp 1019–1027.
64. M. Hajji, S.E. Naimi, **B. Hajji**, M.L. El Hafyani : "A comparative study between two structures of hybrid photovoltaic/thermal (PV/T) collectors for water pumping systems",IEEE, Renewable and Sustainable Energy Conference (IRSEC), 2014 International.
65. M. Hajji, S.E. Naimi, **B. Hajji**, M.L. El Hafyani : : A numerical modeling of hybrid photovoltaic/thermal(PV/T) collector", ICM 2014 26th IEEE International Conference on.
66. S. E. Naimi, **B. Hajji**, Y. Habbani, I. Humenyuk, J. Launay, P. Temple-Boyer : "Modeling of the pH-ChemFET response and using Genetic Algorithm as extraction parameters method",IEEE 2011 Faible Tension Faible Consommation (FTFC), pp 103-106.
67. S. E. Naimi, **B. Hajji**, Y. Habbani, I. Humenyuk, J. Launay, P. Temple-Boyer : "Modeling of The pH-ISFET Thermal Drift",IEEE 2009 International Conference on Microelectronics, pp 288-291.
68. **B. Hajji**, S. E. Naimi I. Humenyuk, J. Launay, P. Temple-Boyer : "Behavioral Modeling of The pH-ISFET Temperature Influence", IEEE 2007 International Conference on Electronics, Circuits and Systems, pp 419-422.
69. **B. Hajji**, P. Temple-Boyer, J. Launay, A. Martinez : "pH, pK and pNa detection properties of SiO<sub>2</sub>/Si<sub>3</sub>N<sub>4</sub> ISFET chemical sensors", Microelectronics Reliability 40(4)(2000), pp 783-786.
70. Temple-Boyer, J. Launay, **B. Hajji**, G. Sarabayrouse, A. Martinez : "Study of capacitive structures for amplifying the sensitivity of FET basedchemicalsensors", Sensors and Actuators B78 (2001), pp 285-290.