

Liste des contributions indexées de l'EPST CDER pour l'année 2015

1. Abdelaziz, R., Mawloud, G., Djelloul, D. & Mohamed, Z. Radial basis function neural networks model to estimate global solar radiation in semi-arid area. *Leonardo Electronic Journal of Practices and Technologies* 14, 177–184 (2015).
2. Abdelmalek, S., Barazane, L. & Larabi, A. Unknown input observer for a doubly fed induction generator subject to disturbances. *International Journal of Power Electronics and Drive Systems* 6, 781–787 (2015).
3. Abderrezek, M., Fathi, M., Mekhilef, S. & Djahli, F. Effect of temperature on the GaInP/GaAs tandem solar cell performances. *International Journal of Renewable Energy Research* 5, 629–634 (2015).
4. Allali, M., Tamali, M. & Rahli, M. The Impact of CO₂ Emission on Output in Algeria. in *Energy Procedia* 74, 234–242 (2015).
5. Aoun, N., Nahman, B., Chenni, R. & Bouchouicha, K. Effect of weather conditions on the energy and exergy efficiencies of mono-crystalline photovoltaic module. *International Journal of Mechanical and Mechatronics Engineering* 15, 61–67 (2015).
6. Azri, M. & Zerouali, D. Removal of N,N methylene-bis-morpholine pollutant in water by advanced oxidation process 'electro-Fenton'. *Desalination and Water Treatment* (2015). doi:10.1080/19443994.2015.1060162
7. Azzouzi, D., Boumeddane, B., Abene, A. & Said, N. Experimental and parametric study of a solar paraboloid designed to receive a Stirling engine. *Mechanics and Industry* 16, (2015).
8. Baghdadi, F., Mohammedi, K., Diaf, S. & Behar, O. Feasibility study and energy conversion analysis of stand-alone hybrid renewable energy system. *Energy Conversion and Management* 105, 471–479 (2015).
9. Bandou, F. et al. Evaluation performance of photovoltaic modules after a long time operation in Saharan environment. *International Journal of Hydrogen Energy* 40, 13839–13848 (2015).
10. Behar, O., Khellaf, A. & Mohammedi, K. A novel parabolic trough solar collector model - Validation with experimental data and comparison to Engineering Equation Solver (EES). *Energy Conversion and Management* 106, 268–281 (2015).
11. Behar, O., Khellaf, A. & Mohammedi, K. Comparison of solar radiation models and their validation under Algerian climate - The case of direct irradiance. *Energy Conversion and Management* 98, 236–251 (2015).
12. Bekhti, A., Guerri, O. & Rezoug, T. Numerical simulation of fluid flow around free vibrating wind turbine airfoil. in *AIP Conference Proceedings* 1648, (2015).
13. Bekkouche, S. M. A. et al. Judicious choice of the building compactness to improve thermo-aeraulic comfort in hot climate. *Journal of Building Engineering* 1, 42–52 (2015).
14. Belabes, B., Youcefi, A., Guerri, O., Djamaï, M. & Kaabeche, A. Evaluation of wind energy potential and estimation of cost using wind energy turbines for electricity generation in north of Algeria. *Renewable and Sustainable Energy Reviews* 51, 1245–1255 (2015).
15. Belhadj, M. M., Bouguettaia, H., Marif, Y. & Zerrouki, M. Numerical study of a double-slope solar still coupled with capillary film condenser in south Algeria. *Energy Conversion and Management* 94, 245–252 (2015).
16. Bellarbi, S., Koussa, D. S. & Rennane, A. Power control of a wind energy conversion system. in *2015 6th International Renewable Energy Congress, IREC 2015* (2015). doi:10.1109/IREC.2015.7110906
17. Beltagy, H., Semmar, D. & Said, N. Performance of Medium-power Fresnel Concentrator Solar Plant in Algerian Sites. in *Energy Procedia* 74, 942–951 (2015).
18. Benabdellah, A., Belarbi, H., Ilikti, H., Benabdallah, T. & Hatti, M. Magnetic properties of polyanihne/ZFe₂O₄ nanocomposites synthesized in CTAB as surfactant and ionic liquid. *Tenside, Surfactants, Detergents* 52, 484–492 (2015).
19. Benchouia, N. E. et al. An adaptive fuzzy logic controller (AFLC) for PEMFC fuel cell. *International Journal of Hydrogen Energy* 40, 13806–13819 (2015).
20. Bendib, B., Belmili, H. & Krim, F. A survey of the most used MPPT methods: Conventional and advanced algorithms applied for photovoltaic systems. *Renewable and Sustainable Energy Reviews* 45, 637–648 (2015).
21. Benhabiles, O., Mahmoudi, H., Lounici, H. & Goosen, M. F. A. Effectiveness of a photocatalytic organic membrane for solar degradation of methylene blue pollutant. *Desalination and Water Treatment* (2015). doi:10.1080/19443994.2015.1061954

Liste des contributions indexées de l'EPST CDER pour l'année 2015

22. Benhammou, M., Draoui, B., Zerrouki, M. & Marif, Y. Performance analysis of an earth-to-air heat exchanger assisted by a wind tower for passive cooling of buildings in arid and hot climate. *Energy Conversion and Management* 91, 1–11 (2015).
23. Benhammou, M. & Draoui, B. Parametric study on thermal performance of earth-to-air heat exchanger used for cooling of buildings. *Renewable and Sustainable Energy Reviews* 44, 348–355 (2015).
24. Bennaceur, S. et al. Determination of the Moisture-Sorption Isotherms and Isotheric Heat of Henna Leaves. *Journal of Engineering Physics and Thermophysics* (2015). doi:10.1007/s10891-015-1167-9
25. Bennaceur, S. et al. Determination of the moisture-sorption isotherms and isotheric heat of henna leaves. *Journal of Engineering Physics and Thermophysics* 88, 52–62 (2015).
26. Bensaha, H., Abdelhakem, S. & Bensaha, L. Impact of foreign labor on the dynamics and sustainability of agricultural production units, case of ghardaia region (Algeria northern Sahara). *Research Journal of Applied Sciences, Engineering and Technology* 10, 408–413 (2015).
27. Benyettou, L., Benslimane, T., Abdelkhalek, O., Abdelkrim, T. & Bentata, K. Faults diagnosis in five-level three-phase shunt active power filter. *International Journal of Power Electronics and Drive Systems* 6, 576–585 (2015).
28. Boudaoud, L., Khelifi, S., Mostefaoui, M., Rouabhia, A. K. & Sahouane, N. Numerical Study of InGaN based Photovoltaic by SCAPs Simulation. in *Energy Procedia* 74, 745–751 (2015).
29. Boudaoud, S., Khellaf, A., Mohammedi, K. & Behar, O. Thermal performance prediction and sensitivity analysis for future deployment of molten salt cavity receiver solar power plants in Algeria. *Energy Conversion and Management* 89, 655–664 (2015).
30. Boudia, S. M. & Guerri, O. Investigation of wind power potential at Oran, northwest of Algeria. *Energy Conversion and Management* 105, 81–92 (2015).
31. Boukli Hacène, F., Kasbadji Merzouk, N., Abdelbaki, C., Sheu, E. & Bouhadda, Y. Assessment of using wind energy for pumping water: a case study from Ténès (Algeria). *Desalination and Water Treatment* (2015). doi:10.1080/19443994.2015.1031705
32. Boulifa, M., Adane, A., Rezagui, A. & Ameer, E. Z. Estimate of the Global Solar Radiation by Cloudy Sky Using HRV Images. in *Energy Procedia* 74, 1079–1089 (2015).
33. Bouraiou, A. et al. Analysis and evaluation of the impact of climatic conditions on the photovoltaic modules performance in the desert environment. *Energy Conversion and Management* 106, 1345–1355 (2015).
34. Bouraiou, A. et al. Modeling and Simulation of Photovoltaic Module and Array Based on One and Two Diode Model Using Matlab/Simulink. in *Energy Procedia* 74, 864–877 (2015).
35. Bouzid, Z., Ghellai, N. & Benmedjahed, M. Estimation of solar radiation, management of energy flow and development of a new approach for the optimization of the sizing of photovoltaic system; application to Algeria. *International Journal of Renewable Energy Research* 5, 317–324 (2015).
36. Chekir, N., Benhabiles, O., Tassalit, D., Laoufi, N. A. & Bentahar, F. Photocatalytic degradation of methylene blue in aqueous suspensions using TiO₂ and ZnO. *Desalination and Water Treatment* (2015). doi:10.1080/19443994.2015.1060533
37. Chergui, T. et al. Improved thermo-hydrodynamic field quality in the solar chimneys. in 2015 6th International Renewable Energy Congress, IREC 2015 (2015). doi:10.1109/IREC.2015.7110972
38. Daoud, D., Douadi, T., Hamani, H., Chafaa, S. & Al-Noaimi, M. Corrosion inhibition of mild steel by two new S-heterocyclic compounds in 1 M HCl: Experimental and computational study. *Corrosion Science* 94, 21–37 (2015).
39. El Gharbi, N., Blanchard, R., Absi, R., Benzaoui, A. & El Ganaoui, M. Near-wall models for improved heat transfer predictions in channel flow applications. *Journal of Thermophysics and Heat Transfer* 29, 732–736 (2015).
40. El Wahid Hamza, K. A., Linda, H. & Cherif, L. LCL filter design with passive damping for photovoltaic grid connected systems. in 2015 6th International Renewable Energy Congress, IREC 2015 (2015). doi:10.1109/IREC.2015.7110945
41. Fathi, M., Abderrezek, M., Djahli, F. & Ayad, M. Study of Thin Film Solar Cells in High Temperature Condition. in *Energy Procedia* 74, 1410–1417 (2015).

Liste des contributions indexées de l'EPST CDER pour l'année 2015

42. Fedailaine, M. et al. Modeling of the anaerobic digestion of organic waste for biogas production. in *Procedia Computer Science* 52, 730–737 (2015).
43. Ghennam, T., Aliouane, K., Akel, F., Francois, B. & Berkouk, E. M. Advanced control system of DFIG based wind generators for reactive power production and integration in a wind farm dispatching. *Energy Conversion and Management* 105, 240–250 (2015).
44. Ghezloun, A., Saidane, A., Oucher, N. & Merabet, H. Actual Case of Energy Strategy in Algeria and Tunisia. in *Energy Procedia* 74, 1561–1570 (2015).
45. Guellal, A., Larbes, C., Bendib, D., Hassaine, L. & Malek, A. FPGA based on-line Artificial Neural Network Selective Harmonic Elimination PWM technique. *International Journal of Electrical Power and Energy Systems* 68, 33–43 (2015).
46. Guenounou, A., Malek, A., Aillerie, M. & Mahrane, A. LabVIEW interface for controlling a test bench for photovoltaic modules and extraction of various parameters. *International Journal of Power Electronics and Drive Systems* 6, 498–508 (2015).
47. Haddad, S., Touafek, K. & Khelifa, A. Investigation of the electrical and thermal performance of a PV/T hybrid system. in *2015 10th International Conference on Ecological Vehicles and Renewable Energies, EVER 2015* (2015). doi:10.1109/EVER.2015.7112928
48. Haloui, H., Touafek, K., Zaabat, M., Hocine, H. B. C. E. & Khelifa, A. The Copper Indium Selenium (CuInSe₂) thin Films Solar Cells for Hybrid Photovoltaic Thermal Collectors (PVT). in *Energy Procedia* 74, 1213–1219 (2015).
49. Hamane, D., Guerri, O. & Larbi, S. Investigation of flow around a circular cylinder in laminar and turbulent flow using the Lattice Boltzmann method. in *AIP Conference Proceedings* 1648, (2015).
50. Hatti, M. & Rahmani, H. Fine-tuning genetic algorithm for photovoltaic-proton exchange membrane fuel cell hybrid system optimization. in *SMARTGREENS 2015 - 4th International Conference on Smart Cities and Green ICT Systems, Proceedings* 234–240 (2015).
51. Hocine, H. B. C. E., Touafek, K., Kerrou, F., Haloui, H. & Khelifa, A. Model Validation of an Empirical Photovoltaic Thermal (PV/T) Collector. in *Energy Procedia* 74, 1090–1099 (2015).
52. Igoud, S. et al. Diagnostic of electricity consumption, its cost and greenhouse gas emission in the wastewater treatment sector of Algeria. *Desalination and Water Treatment* 55, 1725–1734 (2015).
53. Igoud, S. et al. Wastewater disinfection using ultraviolet (UVA, UVC) and solar radiation. *Desalination and Water Treatment* 56, 2646–2652 (2015).
54. Igoud, S. et al. Efficiency evaluation of solar photolysis and solar photocatalysis processes used for the wastewater disinfection. *Desalination and Water Treatment* 53, 2049–2058 (2015).
55. Kahoul, N., Houabes, M. & Neçaibia, A. A comprehensive simulator for assessing the reliability of a photovoltaic panel peak power tracking system. *Frontiers in Energy* 9, 170–179 (2015).
56. Kessaissia, F. Z., Zegaoui, A., Arab, A. H., Loukarfi, L. & Aillerie, M. Comparison of Two PV Modules Technologies Using Analytical and Experimental Methods. in *Energy Procedia* 74, 389–397 (2015).
57. Ketfi, O., Merzouk, M., Merzouk, N. K. & Metenani, S. E. Performance of a Single Effect Solar Absorption Cooling System (Libr-H₂O). in *Energy Procedia* 74, 130–138 (2015).
58. Khedidji, S. et al. Assessment of dioxin-like activity in PM₁₀ air samples from an industrial location in Algeria, using the DRE-CALUX bioassay. *Environmental Science and Pollution Research* 1–10 (2015). doi:10.1007/s11356-015-5841-4
59. Khelifa, A. et al. Analysis of a Hybrid Solar Collector Photovoltaic Thermal (PVT). in *Energy Procedia* 74, 835–843 (2015).
60. Khelifi, S. et al. Analysis of intermediate band photovoltaic solar cell based on ZnTe:O. *Journal of Nanoelectronics and Optoelectronics* 10, 333–337 (2015).
61. Khitous, M., Moussous, S., Selatnia, A. & Kherat, M. Biosorption of Cd(II) by *Pleurotus mutilus* biomass in fixed-bed column: experimental and breakthrough curves analysis. *Desalination and Water Treatment* (2015). doi:10.1080/19443994.2015.1081625

Liste des contributions indexées de l'EPST CDER pour l'année 2015

62. Khitous, M., Salem, Z. & Halliche, D. Sorption of Cr(VI) by MgAl-NO₃ hydrotalcite in fixed-bed column: Experiments and prediction of breakthrough curves. *Korean Journal of Chemical Engineering* (2015). doi:10.1007/s11814-015-0170-3
63. Koussa, D. S., Djoudi, A. & Koussa, M. Analysis for grid connected wind power system in the arid region. in 2015 6th International Renewable Energy Congress, IREC 2015 (2015). doi:10.1109/IREC.2015.7110927
64. Koussa, D. S. & Koussa, M. A feasibility and cost benefit prospection of grid connected hybrid power system (wind-photovoltaic) - Case study: An Algerian coastal site. *Renewable and Sustainable Energy Reviews* 50, 628–642 (2015).
65. Koussa, M. et al. Effect of parallel and serie connection configuration of solar collector on the solar system performances. in 2015 6th International Renewable Energy Congress, IREC 2015 (2015). doi:10.1109/IREC.2015.7110957
66. Lebbi, M. et al. Tower outlet/inlet radii ratio effects on the turbulent flow control in a solar chimney. in 2015 6th International Renewable Energy Congress, IREC 2015 (2015). doi:10.1109/IREC.2015.7110859
67. Mahfoud, O., Moummi, A., Kadja, M., Moummi, N. & Mebrouk, R. Dynamic and thermal study of air flow control by chicanes with inclined upper parts in solar air collectors. *International Journal of Sustainable Energy* 34, 113–127 (2015).
68. Maouedj, R., Mammeri, A., Draou, M. D. & Benyoucef, B. Techno-economic Analysis of a Standalone Hybrid Photovoltaic-wind System. Application in Electrification of a House in Adrar Region. in *Energy Procedia* 74, 1192–1204 (2015).
69. Mesrane, A., Rahmoune, F., Mahrane, A. & Oulebsir, A. Design and simulation of InGaN p-n junction solar cell. *International Journal of Photoenergy* 2015, (2015).
70. Misztal, P. K. et al. Atmospheric benzenoid emissions from plants rival those from fossil fuels. *Scientific Reports* 5, (2015).
71. Mohamed, M. & Rabah, D. Aerodynamic and aeroacoustic for wind turbine. in *AIP Conference Proceedings* 1648, (2015).
72. Mostefaoui, M., Mazari, H., Khelifi, S., Bouraiou, A. & Dabou, R. Simulation of High Efficiency CIGS Solar Cells with SCAPS-1D Software. in *Energy Procedia* 74, 736–744 (2015).
73. Mraoui, A., Hassaine, L. & Benyoucef, B. Study of the influence of GPV's tilt angle on the end product: Case study of hydrogen production. in 2015 6th International Renewable Energy Congress, IREC 2015 (2015). doi:10.1109/IREC.2015.7110921
74. Nacer, T., Hamidat, A. & Nadjemi, O. Techno-economic Impacts Analysis of a Hybrid Grid Connected Energy System Applied for a Cattle Farm. in *Energy Procedia* 75, 963–968 (2015).
75. Nacer, T., Nadjemi, O. & Hamidat, A. Optimal sizing method for grid connected renewable energy system under Algerian climate. in 2015 6th International Renewable Energy Congress, IREC 2015 (2015). doi:10.1109/IREC.2015.7110956
76. Neçaibia, A., Ladaci, S., Charef, A. & Loiseau, J. J. Fractional order extremum seeking approach for maximum power point tracking of photovoltaic panels. *Frontiers in Energy* 9, 43–53 (2015).
77. Nour-Eddine, B., Belkacem, Z. & Abdellah, K. Experimental study and simulation of a solar dryer for spearmint leaves (*Mentha spicata*). *International Journal of Ambient Energy* 36, 50–61 (2015).
78. Oucher, N., Kerbachi, R., Ghezloun, A. & Merabet, H. Magnitude of Air Pollution by Heavy Metals Associated with Aerosols Particles in Algiers. in *Energy Procedia* 74, 51–58 (2015).
79. Rafa, S., Essounbouli, N. & Hamzaoui, A. The type-2 fuzzy logic control of the induction motor. in *AIP Conference Proceedings* 1648, (2015).
80. Rezzouk, H. & Mellit, A. Feasibility study and sensitivity analysis of a stand-alone photovoltaic-diesel-battery hybrid energy system in the north of Algeria. *Renewable and Sustainable Energy Reviews* 43, 1134–1150 (2015).
81. Rouabhi, R., Abdessemed, R., Chouder, A. & Djerioui, A. Power quality enhancement of grid connected doubly-fed induction generator using sliding mode control. *International Review of Electrical Engineering* 10, 266–276 (2015).
82. Saba, D., Laallam, F. Z., Hadidi, A. E. & Berbaoui, B. Contribution to the Management of Energy in the Systems Multi Renewable Sources with Energy by the Application of the Multi Agents Systems 'mAS'. in *Energy Procedia* 74, 616–623 (2015).

Liste des contributions indexées de l'EPST CDER pour l'année 2015

83. Saba, D., Laallam, F. Z., Hadidi, A. E. & Berbaoui, B. Optimization of a Multi-source System with Renewable Energy Based on Ontology. in *Energy Procedia* 74, 608–615 (2015).
84. Saber, M. Designing biogas units for cleaner energy production from different wastewater effluents. *Desalination and Water Treatment* (2015). doi:10.1080/19443994.2015.1022002
85. Sahnoune, F. S., Belhamel, M. & Zelmat, M. Performance improvement of large-scale solar water heating systems by using remote monitoring. *Revista Tecnica de la Facultad de Ingenieria Universidad del Zulia* 38, 105–113 (2015).
86. Sahouane, N., Zerga, A. & Oussama, Z. Effect of the Back Surface Reflector and Passivated Rear Contacts With PERT Solar Cells. *Journal of Solar Energy Engineering, Transactions of the ASME* 137, (2015).
87. Salah, L. & Tahar, B. SVPWM Performance of PMSM Variable Speed and Impact of Diagnosis Sensors Faults. in *Energy Procedia* 74, 679–689 (2015).
88. Sami-Mecheri, S., Semmar, D. & Hamid, A. Determination of the Energetic Needs of Low Energy Housing and Integration of a Solar Water Heating Installation Located in Algeria. in *Energy Procedia* 74, 854–863 (2015).
89. Semai, H., Bouhdjar, A. & Larbi, S. Solar chimney power plant with heat storage analysis in the south region of Algeria. in *6th International Conference on Modeling, Simulation, and Applied Optimization, ICMSAO 2015 - Dedicated to the Memory of Late Ibrahim El-Sadek* (2015). doi:10.1109/ICMSAO.2015.7152241
90. Semaoui, S., Arab, A. H., Boudjelthia, E. K., Bacha, S. & Zeraia, H. Dust Effect on Optical Transmittance of Photovoltaic Module Glazing in a Desert Region. in *Energy Procedia* 74, 1347–1357 (2015).
91. Tabanjat, A. et al. Fuzzy logic-based water heating control methodology for the efficiency enhancement of hybrid PV-PEM electrolyser systems. *International Journal of Hydrogen Energy* 40, 2149–2161 (2015).
92. Tahar Belarbi, W., Rouabhia, A., Tair, F., Amrani, B. & Sekkal, N. Low symmetry phases of (Al, Ga) Sb under low pressure. *International Journal of Modern Physics B* 29, (2015).
93. Tebbouche, L., Hank, D., Zeboudj, S., Namane, A. & Hellal, A. Evaluation of the phenol biodegradation by *Aspergillus niger*: application of full factorial design methodology. *Desalination and Water Treatment* (2015). doi:10.1080/19443994.2015.1053991
94. Tigrine, Z. et al. Experimental investigations on a multi-stage water desalination prototype. *Desalination and Water Treatment* 56, 2612–2617 (2015).
95. Tigrine, Z., Mokhtari, F. & Bouabdallah, A. 3D computational investigation of vertical magnetic field effect on heat transfer and 83Pb-17Li flow. *Magnetohydrodynamics* 51, 83–94 (2015).
96. Trad, A. & Ait Ali, M. A. Determination of the optimum design through different funding scenarios for future parabolic trough solar power plant in Algeria. *Energy Conversion and Management* 91, 267–279 (2015).
97. Yettou Gama, F., Azoui, B., Malek, A., Panwar, N. L. & Gama, A. Energetic and exergetic evaluation of solar box cooker in Algerian climatic conditions. *International Journal of Exergy* 16, 337–357 (2015).
98. Zaghba, L., Terki, N., Borni, A., Bouchakour, A. & Messaouda, B. N. K. Adaptive intelligent MPPT controller comparison of photovoltaic system under different weather conditions of Ghardaia site (South of Algeria). *Journal of Electrical Engineering* 15, 214–222 (2015).
99. Zaghba, L., Terki, N., Borni, A. & Bouchakour, A. Robust maximum power point tracking technique and PI current controller design for grid connected PV system using MATLAB/SIMULINK. *Journal of Electrical Engineering* 15, 315–320 (2015).

Liste arrêtée au 10/01/2016