

Contributions scientifiques indexées de l'EPST CDER pour l'année 2017

- 1 Brahim, B., Optimal capacity of energy storage for dynamic voltage restorer under electrical faults scenarios using SOS optimization algorithm: Case of south Algerian's electrical autonomous grid application, (2017) Journal of Energy Storage, 14, pp. 134-146. DOI: 10.1016/j.est.2017.10.003
- 2 Moungar, H., Ahmed, A., Youcef, S., Aabdelkrim, H. Immersed fins influence on the double slope solar still production in south Algeria climatic condition, (2017) International Journal of Heat and Technology, 35 (4), pp. 1065-1071. DOI: 10.18280/ijht.350444
- 3 Igoud, S., Souahi, F., Chitour, C.E. Solar Wastewater Treatment (SOWAT) and Reuse for Agricultural Irrigation, (2017) Irrigation and Drainage, 66 (5), pp. 750-757. DOI: 10.1002/ird.2157
- 4 Benyelloul, K., Seddik, L., Bouhadda, Y., Bououdina, M., Aourag, H., Khodja, K. Effect of pressure on structural, elastic and mechanical properties of transition metal hydrides Mg₇TMH₁₆ (TM = Sc, Ti, V, Y, Zr and Nb): First-principles investigation, (2017) Journal of Physics and Chemistry of Solids, 111, pp. 229-237. DOI: 10.1016/j.jpcs.2017.08.001
- 5 Bechouat, M., Younsi, A., Sedraoui, M., Soufi, Y., Yousfi, L., Tabet, I., Touafek, K. Parameters identification of a photovoltaic module in a thermal system using meta-heuristic optimization methods, (2017) International Journal of Energy and Environmental Engineering, 8 (4), pp. 331-341. DOI: 10.1007/s40095-017-0252-6
- 6 Merabti, L., Merzouk, M., Kasbadji Merzouk, N., Taane, W. Performance study of solar driven solid desiccant cooling system under Algerian coastal climate, (2017) International Journal of Hydrogen Energy, 42 (48), pp. 28997-29005. DOI: 10.1016/j.ijhydene.2017.08.067
- 7 Bouhanguel, A., Desevaux, P., Gavignet, E. Development and testing of a pressure probe for centerline static pressure measurement in supersonic nozzles and ejectors, (2017) Instrumentation Science and Technology, pp. 1-8. Article in Press. DOI: 10.1080/10739149.2017.1379417
- 8 Bellahcene, L., Cheknane, A., Bekkouche, S.M.A., Sahel, D. The effect of the thermal inertia on the thermal transfer in building wall, (2017) E3S Web of Conferences, 22, art. no. 00013. DOI: 10.1051/e3sconf/20172200013
- 9 Boutelhig, A., Hanini, S., Hadj Arab, A. Performances' investigation of different photovoltaic water pumping system configurations for proper matching the optimal location, in desert area, (2017) Energy Conversion and Management, 151, pp. 439-456. DOI: 10.1016/j.enconman.2017.09.012
- 10 Fathi, M., Abderrezek, M., Djahli, F. Experimentations on luminescent glazing for solar electricity generation in buildings, (2017) Optik, 148, pp. 14-27. DOI: 10.1016/j.ijleo.2017.08.127
- 11 Mahboub, M.A., Drid, S., Sid, M.A., Cheikh, R. Sliding mode control of grid connected brushless doubly fed induction generator driven by wind turbine in variable speed, (2017) International Journal of Systems Assurance Engineering and Management, 8, pp. 788-798. DOI: 10.1007/s13198-016-0524-1
- 12 Lalmi, D., Hadef, R. Influence of direction of rotation of the swirl at the turbulente diffusion flame proprieties, (2017) International Conference on Green Energy and Conversion Systems, GECS 2017, art. no. 8066176, . DOI: 10.1109/GECS.2017.8066176
- 13 Bendib, D., Larbes, C., Guellal, A., Khider, M., Akel, F. FPGA-based implementation of online selective harmonic elimination PWM for voltage source inverter, (2017) International Journal of Electronics, 104 (10), pp. 1715-1731. DOI: 10.1080/00207217.2017.1321147
- 14 Mokhtari, F., Loukarfi, L., Chikhi, M., Imessad, K., Ait Messaoudene, N. A passive wall design to minimize building temperature swings for Algerian Saharan climate, (2017) Science and Technology for the Built Environment, 23 (7), pp. 1142-1150. DOI: 10.1080/23744731.2016.1273020
- 15 Allali, M., Tamali, M., Rahli, M. Comparative study of the impact of CO₂ emission on income: Case study Algeria/Morocco between 1990-2100 (2017) International Journal of Social Ecology and Sustainable Development, 8 (4), pp. 15-31. DOI: 10.4018/IJSESD.2017100102
- 16 Hamani, H., Douadi, T., Daoud, D., Al-Noaimi, M., Rikkouh, R.A., Chafaa, S. 1-(4-Nitrophenylo-imino)-1-(phenylhydrazone)-propan-2-one as corrosion inhibitor for mild steel in 1 M HCl solution: Weight loss, electrochemical, thermodynamic and quantum chemical studies (2017) Journal of Electroanalytical Chemistry, 801, pp. 425-438. DOI: 10.1016/j.jelechem.2017.08.031
- 17 Djoudi, A., Bacha, S., Chekireb, H., Berkouk, E.M., Benbouzid, M.E.H., Sandraz, J. Robust stator currents sensorless control of stator powers for wind generator based on DFIG and matrix converter (2017) Electrical Engineering, 99 (3), pp. 1043-1051. DOI: 10.1007/s00202-016-0468-0
- 18 Boulouma, S., Labiod, S., Boubertakh, H. Linear adaptive actuator failure compensation for wing rock motion control (2017) Aerospace Science and Technology, 67, pp. 155-168. DOI: 10.1016/j.ast.2017.03.025
- 19 Razagui, A., Bachari, N.I., Bouchouicha, K., Hadj Arab, A. Modeling the Global Solar Radiation Under Cloudy Sky Using Meteosat Second Generation High Resolution Visible Raw Data (2017) Journal of the Indian Society of Remote Sensing, 45 (4), pp. 725-732. DOI: 10.1007/s12524-016-0628-8

- 20** Khodja, K., Belasri, A., Loukil, H. Modeling of a Ne/Xe dielectric barrier discharge excilamp for improvement of VUV radiation production (2017) *Plasma Physics Reports*, 43 (8), pp. 891-898. DOI: 10.1134/S1063780X17080074
- 21** Bouraba, A., Saighi, M., Saidani-Scott, H., Hamidat, A. Cooling mechanism of a solar assisted air conditioner: An investigation based on pressure–enthalpy chart [Mécanisme de refroidissement d'un conditionneur d'air solaire : étude basée sur le diagramme pression-enthalpie] (2017) *International Journal of Refrigeration*, 80, pp. 274-291. DOI: 10.1016/j.ijrefrig.2017.05.008
- 22** Laour, M., Tahmi, R., Vollaire, C. Modeling and Analysis of Conducted and Radiated Emissions Due to Common Mode Current of a Buck Converter (2017) *IEEE Transactions on Electromagnetic Compatibility*, 59 (4), art. no. 7845606, pp. 1260-1267. DOI: 10.1109/TEMC.2017.2651984
- 23** Bounab, S., Bentabet, A., Bouhadda, Y., Belgoumri, G., Fenineche, N. First-Principles Calculations of Structural, Electronic and Optical Properties of Ternary Semiconductor Alloys ZAsxSb_{1-x} (Z = B, Al, Ga, In) (2017) *Journal of Electronic Materials*, 46 (8), pp. 4805-4814. DOI: 10.1007/s11664-017-5425-9
- 24** Bedjaoui, A., Bouhemadou, A., Aloumi, S., Khenata, R., Bin-Omran, S., Al-Douri, Y., Saad Saoud, F., Bensalem, S. Structural, elastic, electronic and optical properties of the novel quaternary diamond-like semiconductors Cu₂MgSiS₄ and Cu₂MgGeS₄ (2017) *Solid State Sciences*, 70, pp. 21-35. DOI: 10.1016/j.solidstatesciences.2017.06.007
- 25** Meftah, M., Damé, L., Bolsée, D., Pereira, N., Sluse, D., Cessateur, G., Irbah, A., Sarkissian, A., Djafer, D., Hauchecorne, A., Bekki, S. A New Solar Spectrum from 656 to 3088 nm (2017) *Solar Physics*, 292 (8), art. no. 101. DOI: 10.1007/s11207-017-1115-2
- 26** Tebibel, H. Off grid PV system for hydrogen production using PEM methanol electrolysis and an optimal management strategy (2017) *International Journal of Hydrogen Energy*, 42 (30), pp. 19432-19445. DOI: 10.1016/j.ijhydene.2017.05.205
- 27** Boulouma, S., Belmili, H. RBF neural network sliding mode control of a PMSG based wind energy conversion system (2017) *Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016*, art. no. 7984060, pp. 438-443. DOI: 10.1109/IRSEC.2016.7984060
- 28** Takilalte, A., Debbache, M., Mahfoud, O., Karoua, H., Bouaichaoui, S. New method for optimizing the necessary time to update the Azimuth-Elevation heliostat position in the blind tracking (2017) *Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016*, art. no. 7983954, pp. 300-305. DOI: 10.1109/IRSEC.2016.7983954
- 29** Metidji, N. Solar drying of agro-industrial wastes using a solar greenhouse (2017) *Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016*, art. no. 7983933, pp. 289-293. DOI: 10.1109/IRSEC.2016.7983933
- 30** Tebibel, H., Menia, S., Khellaf, A. Off grid PV system for hydrogen production using methanol electrolysis and an optimal management strategy (2017) *Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016*, art. no. 7983941, pp. 999-1004. DOI: 10.1109/IRSEC.2016.7983941
- 31** Smara, Z., Mahrane, A., Chikh, M., Chekired, F., Berkane, S., Meflah, A., Triki, A. Evaluating the self-consumption of a solar house in coastal region of Bou Ismail, Algeria (2017) *Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016*, art. no. 7983948, pp. 224-229. DOI: 10.1109/IRSEC.2016.7983948
- 32** Boualit, S.B., Mellit, A. SARIMA-SVM hybrid model for the prediction of daily global solar radiation time series (2017) *Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016*, art. no. 7983867, pp. 712-717. DOI: 10.1109/IRSEC.2016.7983867
- 33** Smara, Z., Aissat, A., Mahrane, A. Experimental study on the electrical and the thermal behaviors of shaded PV cells during operation (2017) *Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016*, art. no. 7984018, pp. 157-160. DOI: 10.1109/IRSEC.2016.7984018
- 34** Belaidi, R., Haddouche, A., Fathi, M., Larafi, M.M., Kaci, G.M. Performance of grid-connected PV system based on SAPF for power quality improvement (2017) *Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016*, art. no. 7984050, pp. 542-545. DOI: 10.1109/IRSEC.2016.7984050
- 35** Fethi, A., Douadi, B., Laour, M., El-Madjid, B. Power control of three phase single stage grid connected photovoltaic system (2017) *Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016*, art. no. 7983983, pp. 1136-1141. DOI: 10.1109/IRSEC.2016.7983983
- 36** Douadi, B., Fethi, A., Mohamed, L., Madjid, C., Cherif, L. Real-time harmonic elimination PWM for PV inverters, co-simulation approach (2017) *Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016*, art. no. 7983872, pp. 503-508. DOI: 10.1109/IRSEC.2016.7983872
- 37** Marif, Y., Bechki, D., Bouguettaia, H., Zerrouki, M., Belhadj, M.M. Determination of Linke turbidity factor from solar radiation measurement in Adrar city (2017) *Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016*, art. no. 7984063, pp. 183-186. DOI: 10.1109/IRSEC.2016.7984063
- 38** Tabet, I., Touafek, K., Khelifa, A., Baissi, M.T., Bellel, N. Optimization tilts angle of flat plate reflectors placed in left-right side of Hybrid Photovoltaic thermal collector (2017) *Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016*, art. no. 7983946, pp. 343-347. DOI: 10.1109/IRSEC.2016.7983946

- 39 Karoua, H., Debbache, M., Takilalte, A., Mahfoud, O., Moummi, A., Moummi, N., Aoues, K. An experimental study of a new Solar Air Heater with a Linear Fresnel Reflector (2017) Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016, art. no. 7983949, pp. 104-108. DOI: 10.1109/IRSEC.2016.7983949
- 40 Chikh, M., Haddadi, M., Mahrane, A., Malek, A. Correlation of hourly diffuse fraction of global horizontal solar radiation in Tamanrasset, Algeria (2017) Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016, art. no. 7984019, pp. 663-668. DOI: 10.1109/IRSEC.2016.7984019
- 41 Louassa, S., Guerri, O., Merzouk, N.K., Merzouk, M. Wind resources estimation and performance evaluation of two wind farms in an Algerian arid zone (2017) Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016, art. no. 7983943, pp. 444-449. DOI: 10.1109/IRSEC.2016.7983943
- 42 Mesrane, A., Mahrane, A., Rahmoun, F., Oulebsir, A. Optimal band gaps for InGaN single and double junction solar cells (2017) Proceedings of International Conference on Advanced Systems and Electric Technologies, IC_ASET 2017, art. no. 7983715, pp. 335-339. DOI: 10.1109/ASET.2017.7983715
- 43 Hamdani, M., Bekkouche, S.M.A., Cherier, M.K., Benouaz, T., Belarbi, R. Study on effects of window with an external shutters for natural ventilation for buildings in hot climates (2017) Proceedings of 2016 International Renewable and Sustainable Energy Conference, IRSEC 2016, art. no. 7983905, pp. 780-784. DOI: 10.1109/IRSEC.2016.7983905
- 44 Makhlofi, S., Koussa, S.D., Pillai, G.G. Cuckoo search algorithm for integration wind power generation to meet load demand growth (2017) Conference Proceedings - 2017 17th IEEE International Conference on Environment and Electrical Engineering and 2017 1st IEEE Industrial and Commercial Power Systems Europe, EEEIC / I and CPS Europe 2017, art. no. 7977396. DOI: 10.1109/EEEIC.2017.7977396
- 45 Sebti, A., Souahi, F., Mohellebi, F., Igoud, S. Experimental study and artificial neural network modeling of tartrazine removal by photocatalytic process under solar light (2017) Water Science and Technology, 76 (2), pp. 311-322. DOI: 10.2166/wst.2017.201
- 46 Belaidi, R., Haddouche, A. Three-phase four-wire active power filter fed by PV system using fuzzy MPPT controller (2017) EEA - Electrotehnica, Electronica, Automatica, 65 (3), pp. 17-25.
- 47 Bourouina, H., Yahiaoui, R., Yusifli, E., Benamar, M.E.A., Ghoumid, K., Herlem, G. Shear effect on dynamic behavior of microcantilever beam with manufacturing process defects (2017) Microsystem Technologies, 23 (7), pp. 2537-2542. DOI: 10.1007/s00542-016-3078-x
- 48 Sansom, C., Almond, H., King, P., Endaya, E., Bouaichaoui, S. Airborne sand and dust soiling of solar collecting mirrors (2017) AIP Conference Proceedings, 1850, art. no. 130011. DOI: 10.1063/1.4984505
- 49 Said, B., Mohamed, T., Mohamed, F. Characterization of bifurcation dynamics in multicell inverter (2017) 2017 6th International Conference on Systems and Control, ICSC 2017, art. no. 7958669, pp. 127-132. DOI: 10.1109/ICoSC.2017.7958669
- 50 Benatallah, D., Benatallah, A., Bouchouicha, K., Hammouda, M. Model Bird for obtaining the daily global solar radiations in clear sky in south of Algeria (2017) 2017 6th International Conference on Systems and Control, ICSC 2017, art. no. 7958721, pp. 215-219. DOI: 10.1109/ICoSC.2017.7958721
- 51 Benbaha, N., Zidani, F., Said, M.S.N., Boukebbous, S.E., Ammar, H. Optimal energy control of induction motor standalone photovoltaic-battery pumping system (2017) 2017 6th International Conference on Systems and Control, ICSC 2017, art. no. 7958685, pp. 622-628. DOI: 10.1109/ICoSC.2017.7958685
- 52 Ben Makhlofi, A., Hatti, M., Taleb, R. Comparative study of photovoltaic system for hydrogen electrolyzer system (2017) 2017 6th International Conference on Systems and Control, ICSC 2017, art. no. 7958734, pp. 445-450. DOI: 10.1109/ICoSC.2017.7958734
- 53 Dahmane, Z.E., Malek, A., Bouhali, M., Bounabi, M., Kaced, K., Ait Cheikh, M.S. A proposed pulses current method to extract the batteries parameters (2017) 2017 6th International Conference on Systems and Control, ICSC 2017, art. no. 7958638, pp. 555-560. DOI: 10.1109/ICoSC.2017.7958638
- 54 Bouarroudj, N., Djari, A., Boukhetala, D., Boudjema, F. Tuning of decentralized fuzzy logic sliding mode controller using PSO algorithm for nonlinear Twin Rotor Mimo System (2017) 2017 6th International Conference on Systems and Control, ICSC 2017, art. no. 7958641, pp. 45-50. DOI: 10.1109/ICoSC.2017.7958641
- 55 Bouarroudj, N., Boukhetala, D., Djari, A., Rais, Y., Benlahbib, B. FLC based Gaussian membership functions tuned by PSO and GA for MPPT of photovoltaic system: A comparative study (2017) 2017 6th International Conference on Systems and Control, ICSC 2017, art. no. 7958640, pp. 317-322. DOI: 10.1109/ICoSC.2017.7958640
- 56 Abdelhamid, D., Bouarroudj, N., Feliu-Batlle, V., Djamel, B., Bodjema, F. Fractional order sliding mode control with pole-placement for non-linear systems with uncertain disturbances (2017) 2017 6th International Conference on Systems and Control, ICSC 2017, art. no. 7958659, pp. 39-44. DOI: 10.1109/ICoSC.2017.7958659
- 57 Ammari, C., Hamouda, M., Makhlofi, S. Sizing, modeling and simulation for hybrid central based on three generator in southwest Algeria (2017) 2017 6th International Conference on Systems and Control, ICSC 2017, art. no. 7958701, pp. 366-371. DOI: 10.1109/ICoSC.2017.7958701
- 58 Aoudjit, L., Halliche, D., Bachari, K., Saadi, A., Cherifi, O. Nickel-Containing Mesoporous Silicas as a Catalyst for the Pechmann Condensation Reaction (2017) Theoretical and Experimental Chemistry, pp. 1-10. Article in Press. DOI: 10.1007/s11237-017-9507-9

- 59** Belgherras, S., Bekkouche, S.M.A., benouaz, T., Benamrane, N. Prospective analysis of the energy efficiency in a farm studio under Saharan weather conditions (2017) *Energy and Buildings*, 145, pp. 342-353. DOI: 10.1016/j.enbuild.2017.04.030
- 60** Tebibel, H., Khellaf, A., Menia, S., Nouicer, I. Design, modelling and optimal power and hydrogen management strategy of an off grid PV system for hydrogen production using methanol electrolysis (2017) *International Journal of Hydrogen Energy*, 42 (22), pp. 14950-14967. DOI: 10.1016/j.ijhydene.2017.05.010
- 61** Fezzani, A., Mohammed, I.H., Said, D., Zaghiba, L., Bouchakour, A., Benbitour, M., Oudjana, S.H. Degradation and performance evaluation of PV module in desert climate conditions with estimate uncertainty in measuring (2017) *Serbian Journal of Electrical Engineering*, 14 (2), pp. 277-299. DOI: 10.2298/SJEE1702277F
- 62** Meflah, A., Rahmoun, K., Mahrane, A., Chikh, M. Outdoor performance modeling of three different silicon photovoltaic module technologies (2017) *International Journal of Energy and Environmental Engineering*, 8 (2), pp. 143-152. DOI: 10.1007/s40095-017-0228-6
- 63** Zahia, T., Faiza, M., Ahcène, B., Abdelkrim, M., Abdellah, K. Numerical Study of the Buoyancy Effect on Magnetohydrodynamic Three-Dimensional LiPb Flow in a Rectangular Duct (2017) *Journal of Fluids Engineering, Transactions of the ASME*, 139 (6), art. no. 061201. DOI: 10.1115/1.4035636
- 64** Benlahbib, B., Bouchafa, F., Mekhilef, S., Bouarroudj, N. Wind farm management using artificial intelligent techniques (2017) *International Journal of Electrical and Computer Engineering*, 7 (3), pp. 1133-1144. DOI: 10.11591/ijece.v7i3.pp1133-1144
- 65** Benamrane, K., Benslimane, T., Abdelkhalek, O., Abdelkrim, T., Borni, A. Performance evaluation and comparison of two cascaded configurations of PV generators-five levels inverter for a stand-alone application in South Algeria (2017) *International Journal of Power Electronics and Drive Systems*, 8 (2), pp. 907-916. DOI: 10.11591/ijped.v8i2
- 66** Blaifi, S., Moulahoum, S., Colak, I., Merrouche, W. Monitoring and enhanced dynamic modeling of battery by genetic algorithm using LabVIEW applied in photovoltaic system (2017) *Electrical Engineering*, pp. 1-18. Article in Press. DOI: 10.1007/s00202-017-0567-6
- 67** Bellaoui, M., Hassini, A., Bouchouicha, K. Pre-seismic anomalies in remotely sensed land surface temperature measurements: The case study of 2003 Boumerdes earthquake (2017) *Advances in Space Research*, 59 (10), pp. 2645-2657. DOI: 10.1016/j.asr.2017.03.004
- 68** Benamrane, K., Abdelkrim, T., Borni, A., Benslimane, T., Abdelkhalek, O. Comparison study of two cascaded configurations of PV generators-three levels inverter for a stand-alone application in South Algeria (2017) *4th International Conference on Control Engineering and Information Technology, CEIT 2016*, art. no. 7929027. DOI: 10.1109/CEIT.2016.7929027
- 69** Ben Cheikh El Hocine, H., Gama, A., Touafek, K. The feasibility of new design of hybrid photovoltaic-thermal system – a theoretical approach (2017) *International Journal of Ambient Energy*, pp. 1-12. Article in Press. DOI: 10.1080/01430750.2017.1318778
- 70** Aoun, N., Bouchouicha, K. Estimating daily global solar radiation by day of the year in Algeria (2017) *European Physical Journal Plus*, 132 (5), art. no. 216. DOI: 10.1140/epjp/i2017-11495-7
- 71** Khedidji, S., Balducci, C., Ladji, R., Cecinato, A., Perilli, M., Yassaa, N. Chemical composition of particulate organic matter at industrial, university and forest areas located in Bouira province, Algeria (2017) *Atmospheric Pollution Research*, 8 (3), pp. 474-482. DOI: 10.1016/j.apr.2016.12.005
- 72** Khedidji, S., Croes, K., Yassaa, N., Ladji, R., Denison, M.S., Baeyens, W., Elskens, M. Assessment of dioxin-like activity in PM10 air samples from an industrial location in Algeria, using the DRE-CALUX bioassay (2017) *Environmental Science and Pollution Research*, 24 (13), pp. 11868-11877. DOI: 10.1007/s11356-015-5841-4
- 73** Berbaoui, B. Overview and investigation of the planned dynamic voltage restorer for autonomous electrical grid: Case of Adrar, south of Algeria (2017) *International Journal of Hydrogen Energy*, 42 (17), pp. 12430-12447. DOI: 10.1016/j.ijhydene.2017.03.072
- 74** El Hocine, H.B.C., Touafek, K., Kerrou, F. Theoretical and experimental studies of a new configuration of photovoltaic-thermal collector (2017) *Journal of Solar Energy Engineering, Transactions of the ASME*, 139 (2), art. no. 021012. DOI: 10.1115/1.4035328
- 75** Yettou, F., Gama, A., Malek, A., Azoui, B., Lal Panwar, N. Performances determination of solar cooker box using mullick and Funk's procedures [Détermination des performances d'un cuiseur solaire boîte suivant les procédures de mullick et funk] (2017) *Revue Roumaine des Sciences Techniques Serie Electrotechnique et Energetique*, 62 (2), pp. 159-164.
- 76** Laidi, M., Hanini, S., Rezrazi, A., Yaiche, M.R., El Hadj, A.A., Chellali, F. Supervised artificial neural network-based method for conversion of solar radiation data (case study: Algeria) (2017) *Theoretical and Applied Climatology*, 128 (1-2), pp. 439-451. DOI: 10.1007/s00704-015-1720-7
- 77** Mesrane, A., Mahrane, A., Rahmoune, F., Oulebsir, A. Temperature Dependence of InGaN Dual-Junction Solar Cell (2017) *Journal of Electronic Materials*, 46 (4), pp. 2451-2459. DOI: 10.1007/s11664-017-5310-6
- 78** Menia, S., Tebibel, H., Lassouane, F., Khellaf, A., Nouicer, I. Hydrogen production by methanol aqueous electrolysis using photovoltaic energy: Algerian potential (2017) *International Journal of Hydrogen Energy*, 42 (13), pp. 8661-8669. DOI: 10.1016/j.ijhydene.2016.11.178
- 79** Chekir, N., Tassalit, D., Benhabiles, O., Kasbadji Merzouk, N., Ghenna, M., Abdessemed, A., Issaadi, R. A comparative study of tartrazine degradation using UV and solar fixed bed reactors (2017) *International Journal of Hydrogen Energy*, 42 (13), pp. 8948-8954. DOI: 10.1016/j.ijhydene.2016.11.057

- 80** Boualit, A., Zeraibi, N., Chergui, T., Lebbi, M., Boutina, L., Laouar, S. Natural convection investigation in square cavity filled with nanofluid using dispersion model (2017) International Journal of Hydrogen Energy, 42 (13), pp. 8611-8623. DOI: 10.1016/j.ijhydene.2016.07.132
- 81** Ouali, M., Djebiret, M.A., Ouali, R., Mokrane, M., Merzouk, N.K., Bouabdallah, A. Thermal control influence on energy efficiency in domestic refrigerator powered by photovoltaic (2017) International Journal of Hydrogen Energy, 42 (13), pp. 8955-8961. DOI: 10.1016/j.ijhydene.2016.06.134
- 82** Gama, A., Yettou, F., Malek, A., Panwar, N.L. Generation of solar irradiation maps for various applications under Algerian clear-sky conditions (2017) International Journal of Ambient Energy, pp. 1-14. Article in Press. DOI: 10.1080/01430750.2017.1303630
- 83** Chekired, F., Smara, Z., Mahrane, A., Chikh, M., Berkane, S. An Energy Flow Management Algorithm for a Photovoltaic Solar Home (2017) Energy Procedia, 111, pp. 934-943. DOI: 10.1016/j.egypro.2017.03.256
- 84** Bouzaher, M.T., Guerira, B., Hadid, M. Performance analysis of a vertical axis tidal turbine with flexible blades (2017) Journal of Marine Science and Application, 16 (1), pp. 73-80. DOI: 10.1007/s11804-017-1391-0
- 85** Boutra, B., Trari, M. Solar photodegradation of a textile azo dye using synthesized ZnO/Bentonite (2017) Water Science and Technology, 75 (5), pp. 1211-1220. DOI: 10.2166/wst.2016.597
- 86** Mesrane, A., Mahrane, A., Rahmoune, F., Oulebsir, A. Theoretical Study and Simulations of an InGaN Dual-Junction Solar Cell (2017) Journal of Electronic Materials, 46 (3), pp. 1458-1465. DOI: 10.1007/s11664-016-5176-z
- 87** Hassaine, L., Mraoui, A. Control strategy based on SPWM switching patterns for grid connected photovoltaic inverter (2017) AIP Conference Proceedings, 1814, art. no. 020031. DOI: 10.1063/1.4976250
- 88** Zaghiba, L., Khennane, M., Terki, N., Borni, A., Bouchakour, A., Fezzani, A., Mahamed, I.H., Oudjana, S.H. The effect of seasonal variation on the performances of grid connected photovoltaic system in southern of Algeria (2017) AIP Conference Proceedings, 1814, art. no. 020005. DOI: 10.1063/1.4976224
- 89** Haddad, S., Touafek, K., Mordjaoui, M., Khelifa, A., Tabet, I. Investigation of a hybrid PVT air collector system (2017) AIP Conference Proceedings, 1814, art. no. 020049. DOI: 10.1063/1.4976268
- 90** Borni, A., Abdelkrim, T., Zaghiba, L., Bouchakour, A., Lakhdari, A., Zarour, L. Fuzzy logic, PSO based fuzzy logic algorithm and current controls comparative for grid-connected hybrid system (2017) AIP Conference Proceedings, 1814, art. no. 020006. DOI: 10.1063/1.4976225
- 91** Sahnoune, F., Imessad, K., Bouakaz, D.M. Energy consumption renewable energy development and environmental impact in Algeria - Trend for 2030 (2017) AIP Conference Proceedings, 1814, art. no. 020072. DOI: 10.1063/1.4976291
- 92** Semai, H., Bouhdjar, A., Larbi, S. Canopy slope effect on the performance of the solar chimney power plant (2017) International Journal of Green Energy, 14 (3), pp. 229-238. DOI: 10.1080/15435075.2016.1253580
- 93** Derradji, L., Imessad, K., Amara, M., Boudali Errebai, F. A study on residential energy requirement and the effect of the glazing on the optimum insulation thickness (2017) Applied Thermal Engineering, 112, pp. 975-985. DOI: 10.1016/j.applthermaleng.2016.10.116
- 94** Belmili, H., Boulouma, S., Boualem, B., Fayçal, A.M. Optimized Control and Sizing of Standalone PV-wind Energy Conversion System (2017) Energy Procedia, 107, pp. 76-84. DOI: 10.1016/j.egypro.2016.12.134
- 95** Bouzaher, M.T., Hadid, M., Semch-Eddine, D. Flow control for the vertical axis wind turbine by means of flapping flexible foils (2017) Journal of the Brazilian Society of Mechanical Sciences and Engineering, 39 (2), pp. 457-470. DOI: 10.1007/s40430-016-0618-3
- 96** Djafer, D., Irbah, A., Zaiani, M. Identification of clear days from solar irradiance observations using a new method based on the wavelet transform (2017) Renewable Energy, 101, pp. 347-355. DOI: 10.1016/j.renene.2016.08.038
- 97** Beltagy, H., Semmar, D., Lehaut, C., Said, N. Theoretical and experimental performance analysis of a Fresnel type solar concentrator (2017) Renewable Energy, 101, pp. 782-793. DOI: 10.1016/j.renene.2016.09.038
- 98** Mesrane, A., Mahrane, A., Rahmoune, F., Oulebsir, A. Analytical study on the temperature dependence of InGaN p-n junction solar cell under concentrated light intensity (2017) Applied Physics A: Materials Science and Processing, 123 (2), art. no. 136. DOI: 10.1007/s00339-016-0732-1
- 99** Douadi, T., Hamani, H., Daoud, D., Al-Noaimi, M., Chafaa, S. Effect of temperature and hydrodynamic conditions on corrosion inhibition of an azomethine compounds for mild steel in 1 M HCl solution (2017) Journal of the Taiwan Institute of Chemical Engineers, 71, pp. 388-404. DOI: 10.1016/j.jtice.2016.11.026
- 100** Hatti, M., Kellil, N., Rahmani, H. Fine-tuning optimization for PV-PEMFC phased array system (2017) IEEE International Symposium on Phased Array Systems and Technology, art. no. 7832664. DOI: 10.1109/ARRAY.2016.7832664
- 101** Tamerabet, M., Hocine, B.M., Youcef, S., Abdallah, M. Unsteady three-dimensional numerical study of mass transfer in PEM fuel cell with spiral flow field (2017) International Journal of Hydrogen Energy, 42 (2), pp. 1237-1251. DOI: 10.1016/j.ijhydene.2016.12.084
- 102** Aouali, F.Z., Becherif, M., Ramadan, H.S., Emziane, M., Khellaf, A., Mohammedi, K. Analytical modelling and experimental validation of proton exchange membrane electrolyser for hydrogen production (2017) International Journal of Hydrogen Energy, 42 (2), pp. 1366-1374. DOI: 10.1016/j.ijhydene.2016.03.101

- 103** Bakelli, Y., Gherbi, A., Taghezouit, B., Hazil, O., Mohammed, I.H. Techno-economic evalulation of different hybrid photovoltaic/diesel pumping systems with water tank storage (2017) Proceedings of 2016 8th International Conference on Modelling, Identification and Control, ICMIC 2016, art. no. 7804144, pp. 399-405. DOI: 10.1109/ICMIC.2016.7804144
- 104** Benachour, A., Berkouk, E.M., Mahmoudi, M.O. DTC-SVM control of induction machine fed by three level NPC matrix converter (2017) Proceedings of 2016 8th International Conference on Modelling, Identification and Control, ICMIC 2016, art. no. 7804188, pp. 628-633. DOI: 10.1109/ICMIC.2016.7804188
- 105** Mohammed, I.H., Berrah, S., Arab, A.H., Bakelli, Y. A new approach to select an optimal PV module model under the outdoor conditions (2017) Proceedings of 2016 8th International Conference on Modelling, Identification and Control, ICMIC 2016, art. no. 7804224, pp. 811-821. DOI: 10.1109/ICMIC.2016.7804224
- 106** Saihi, L., Boutera, A. Robust control of a variable-speed wind turbine with fixed pitch angle and strategy MPPT control associated on a PMSG (2017) Proceedings of 2016 8th International Conference on Modelling, Identification and Control, ICMIC 2016, art. no. 7804131, pp. 326-331. DOI: 10.1109/ICMIC.2016.7804131
- 107** Dali, A., Diaf, S., Tadjine, M. Sensor fault tolerant control of a photovoltaic DC-DC buck converter: HDS approach (2017) Proceedings of 2016 8th International Conference on Modelling, Identification and Control, ICMIC 2016, art. no. 7804220, pp. 786-791. DOI: 10.1109/ICMIC.2016.7804220
- 108** Benmerabet, S.M., Berkouk, E.M., Akel, F., Talha, A. Photovoltaic power control for DC voltage regulation (2017) Proceedings of 2016 8th International Conference on Modelling, Identification and Control, ICMIC 2016, art. no. 7804158, pp. 466-471. DOI: 10.1109/ICMIC.2016.7804158
- 109** Saihi, L., Boutera, A. Robust sensorless sliding mode control of PMSM with MRAS and Luenberger extended observer (2017) Proceedings of 2016 8th International Conference on Modelling, Identification and Control, ICMIC 2016, art. no. 7804294, pp. 174-179. DOI: 10.1109/ICMIC.2016.7804294
- 110** Benamrane, K., Abdelkrim, T., Borni, A., Benslimane, T., Abdelkhalek, O. Stability study of output voltages of stand alone single stage NPC seven levels inverter for PV system in South Algeria (2017) Proceedings of 2016 8th International Conference on Modelling, Identification and Control, ICMIC 2016, art. no. 7804193, pp. 654-659. DOI: 10.1109/ICMIC.2016.7804193
- 111** Bekkouche, S.M.A., Benouaz, T., Hamdani, M., Cherier, M.K., Yaiche, M.R., Benamrane, N. Diagnosis and comprehensive quantification of energy needs for existing residential buildings under Sahara weather conditions (2017) Advances in Building Energy Research, 11 (1), pp. 37-51. DOI: 10.1080/17512549.2015.1119059
- 112** Hassaine, L., Mraoui, A. Potential of solar electricity for grid-connected systems in Algeria (2017) Mediterranean Green Buildings and Renewable Energy: Selected Papers from the World Renewable Energy Network's Med Green Forum, pp. 561-573. DOI: 10.1007/978-3-319-30746-6_42
- 113** Sahnoune, F., Imessad, K. Analysis and impact of the measures to mitigate climate change in Algeria (2017) Energy Procedia, 136, pp. 495-500. DOI: 10.1016/j.egypro.2017.10.263
- 114** Ferroudji, F., Khelifi, C., Meguellati, F., Koussa, K. Design and static structural analysis of a 2.5 kW combined darrieus-savonius wind turbine (2017) International Journal of Engineering Research in Africa, 30, pp. 94-99. DOI: 10.4028/www.scientific.net/JERA.30.94
- 115** Abderrezek, M., Fathi, M. Experimental study of the dust effect on photovoltaic panels' energy yield (2017) Solar Energy, 142, pp. 308-320. DOI: 10.1016/j.solener.2016.12.040
- 116** Amrouche, S.O., Saidj, S.H., Boumechta, S., Arab, A.H., Abdeladim, K., Bouchakour, S., Yassaa, N. Distributed photovoltaic systems in Algeria and control of DC-DC converters for grid integration - An overview (2017) Energy Procedia, 136, pp. 356-361. DOI: 10.1016/j.egypro.2017.10.289
- 117** Berbaoui, B. Corrigendum to «Overview and investigation of the planned dynamic voltage restorer for autonomous electrical grid: Case of Adrar, south of Algeria» [Int J Hydrogen Energy 42 (2017) 12430-12447] (2017) International Journal of Hydrogen Energy, . Article in Press. DOI: 10.1016/j.ijhydene.2017.11.077
- 118** Benhabiles, O., Chekir, N., Tassalit, D. Solar photocatalytic degradation of methylene blue in a fixed bed reactor (2017) Desalination and Water Treatment, 60, pp. 285-290. DOI: 10.5004/dwt.2017.2544
- 119** Benmedjahed, M., Maouedj, R., Mouhadjer, S. Wind Potential Assessment of M'sila in Algerian Highlands Regions; Modeling of Wind Turbine Noise (2017) Energy Procedia, 119, pp. 642-649. DOI: 10.1016/j.egypro.2017.07.090
- 120** Aoun, N., Bouchouicha, K. Simple correlation models for estimation of horizontal global solar radiation for Oran, Northwest Algeria (2017) International Journal of Engineering Research in Africa, 32, pp. 124-132. DOI: 10.4028/www.scientific.net/JERA.32.124
- 121** Bouchakour, S., Arab, A.H., Abdeladim, K., Amrouche, S.O., Semaoui, S., Taghezouit, B., Boulahchiche, S., Razagui, A. Investigation of the voltage quality at PCC of grid connected PV system (2017) Energy Procedia, 141, pp. 66-70. DOI: 10.1016/j.egypro.2017.11.013
- 122** Berbaoui, B. Photovoltaic system based series active power filter to enhance power quality through electrical network (2017) International Journal of Engineering Research in Africa, 30, pp. 100-109. DOI: 10.4028/www.scientific.net/JERA.30.100
- 123** Khelifi, C., Ferroudji, F., Meguellati, F., Koussa, K. Heuristic coupling design-optimization between a variable speed generator and a wind rotor (2017) International Journal of Engineering Research in Africa, 32, pp. 133-138. DOI: 10.4028/www.scientific.net/JERA.32.133

- 124** Boudries, R. Techno-economic study of hydrogen production using CSP technology (2017) International Journal of Hydrogen Energy, Article in Press. DOI: 10.1016/j.ijhydene.2017.05.157
- 125** Fathi, M., Abderrezek, M. Dust sensor based on luminescent glazing for control of photovoltaic panels cleaning (2017) Clean Technologies and Environmental Policy, 19 (6), pp. 1809-1814. DOI: 10.1007/s10098-017-1367-4
- 126** Borni, A., Bouarroudj, N., Bouchakour, A., Zaghiba, L. P&O-PI and fuzzy-PI MPPT controllers and their time domain optimization using PSO and GA for grid-connected photovoltaic system: A comparative study (2017) International Journal of Power Electronics, 8 (4), pp. 300-322. DOI: 10.1504/IJPELEC.2017.085199
- 127** Akbi, A., Saber, M., Aziza, M., Yassaa, N. An overview of sustainable bioenergy potential in Algeria (2017) Renewable and Sustainable Energy Reviews, 72, pp. 240-245. DOI: 10.1016/j.rser.2017.01.072
- 128** Arab, A.H., Bouchakour, S., Abdeladim, K., Amrouche, S.O., Semaoui, S., Taghezouit, B., Yassaa, N. Connection of the CDER-Algiers photovoltaic system to low-voltage distribution grid (2017) Energy Procedia, 136, pp. 145-150. DOI: 10.1016/j.egypro.2017.10.311
- Zaghiba, L., Borni, A., Khennane, M., Terki, N., Fezzani, A., Bouchakour, A., Mahamed, I.H., Oudjana, S.H. Experimental typical meteorological years to study energy performance of a PV grid-connected system (2017) Energy Procedia, 119, pp. 297-307. DOI: 10.1016/j.egypro.2017.07.085
- 130** Fathi, M., Abderrezek, M., Friedrich, M., Tabani, K. Beneficial effects of nano hydrophobic coatings for solar photovoltaic modules in dusty environment (2017) Key Engineering Materials, 733 KEM, pp. 32-35. DOI: 10.4028/www.scientific.net/KEM.733.32
- 131** Mraoui, A., Benyoucef, B., Hassaine, L. Experiment and simulation of electrolytic hydrogen production: Case study of photovoltaic-electrolyzer direct connection (2017) International Journal of Hydrogen Energy. Article in Press. DOI: 10.1016/j.ijhydene.2017.11.035
- 132** Abdelkrim, T., Benslimane, T., Borni, A., Benamrane, K., Lakhdari, A., Bouarroudj, N. Performance evaluation of a new control scheme of distributed two-stage PV conversion system using three levels voltage source inverter for stand-alone application (2017) Energy Procedia, 119, pp. 270-277. DOI: 10.1016/j.egypro.2017.07.081
- 133** Lalmi, D., Hadef, R. Numerical study of the swirl direction effect at the turbulent diffusion flame characteristics (2017) International Journal of Heat and Technology, 35 (3), pp. 520-528. DOI: 10.18280/ijht.350308
- 134** Ouagued, M., Khellaf, A., Loukarfi, L. Performance analyses of Cu-Cl hydrogen production integrated solar parabolic trough collector system under Algerian climate (2017) International Journal of Hydrogen Energy, . Article in Press. DOI: 10.1016/j.ijhydene.2017.11.040
- 135** Elabadine, D.Z., Ali, M., Mourad, H. A Novel Hybrid Technique to Predict the Lithium-Ion Battery's Behavior and Estimate the Intern Impedance, (2017) International Journal of Emerging Electric Power Systems, 18 (4), art. no. 20160251. DOI: 10.1515/ijeeps-2016-0251
- 136** Salem, F., Kalloum, S. Realization and testing of an updraft gasifier preliminary study, (2017) International Journal of Mechanical Engineering and Robotics Research, 6 (2), pp. 114-117. DOI: 10.18178/ijmerr.6.2.114-117
- 137** Chouaib, A., Messaoud, H., Salim, M. Sizing, modelling and simulation for Hybrid Central PV/wind turbine/diesel generator for feeding rural village in South Algeria, (2017) EAI Endorsed Transactions on Energy Web, 4 (15), art. no. e3. DOI: 10.4108/eai.13-12-2017.153470
- 138** Borni, A., Abdelkrim, T., Bouarroudj, N., Bouchakour, A., Zaghiba, L., Lakhdari, A., Zarour, L. Optimized MPPT Controllers Using GA for Grid Connected Photovoltaic Systems, Comparative study, (2017) Energy Procedia, 119, pp. 278-296. DOI: 10.1016/j.egypro.2017.07.084
- 139** Belaidi, R., Haddouche, A., Ghribi, D., Larafi, M. A three-phase grid-connected PV system based on SAPF for power quality improvement, (2017) Telkomnika (Telecommunication Computing Electronics and Control), 15 (3), pp. 1003-1011. DOI: 10.12928/TELKOMNIKA.v15i3.5439
- 140** Djoudi Gherbi, A., Hadj Arab, A., Salhi, H. Improvement and validation of PV motor-pump model for PV pumping system performance analysis, (2017) Solar Energy, 144, pp. 310-320. DOI: 10.1016/j.solener.2016.12.042
- 141** Fathi, M., Abderrezek, M., Grana, P. Technical and economic assessment of cleaning protocol for photovoltaic power plants: Case of Algerian Sahara sites, (2017) Solar Energy, 147, pp. 358-367. DOI: 10.1016/j.solener.2017.03.053
- 142** Yamani, N., Khellaf, A., Mohammedi, K., Behar, O. Assessment of solar thermal tower technology under Algerian climate, (2017) Energy, 126, pp. 444-460. DOI: 10.1016/j.energy.2017.03.022
- 143** Abdelmalek, S., Barazane, L., Larabi, A. An advanced robust fault-tolerant tracking control for a doubly fed induction generator with actuator faults, (2017) Turkish Journal of Electrical Engineering and Computer Sciences, 25 (2), pp. 1346-1357. DOI: 10.3906/elk-1508-16
- 144** Necaibia, S., Kelaiaia, M.S., Labar, H., Necaibia, A. Implementation of an Improved Incremental Conductance MPPT Control Based Boost Converter in Photovoltaic Applications, (2017) International Journal of Emerging Electric Power Systems, 18 (4), art. no. 20170051. DOI: 10.1515/ijeeps-2017-0051
- 145** Fathi, M., Abderrezek, M., Friedrich, M. Reducing dust effects on photovoltaic panels by hydrophobic coating, (2017) Clean Technologies and Environmental Policy, 19 (2), pp. 577-585. DOI: 10.1007/s10098-016-1233-9
- 146** Gairaa, K., Khellaf, A., Benkacilai, S., Guermoui, M. Solar radiation measurements in Algeria: Case of Ghardaïa station as member of the enerMENA meteorological network, (2017) Energy Procedia, 141, pp. 50-54. DOI: 10.1016/j.egypro.2017.11.010
- 147** Boukebbous, S.E., Kerdoun, D., Khelif, M. Control of grid-connected photovoltaic system with batteries storage, (2017) Lecture Notes in Electrical Engineering, 411, pp. 157-170. DOI: 10.1007/978-3-319-48929-2_12
- 148** Daaou Nedjari, H., Guerri, O., Saighi, M. CFD wind turbines wake assessment in complex topography, (2017) Energy Conversion and Management, 138, pp. 224-236. DOI: 10.1016/j.enconman.2017.01.070

- 149** Biara, R.W., Belmili, H. The Saharan Setting facing future climate, (2017) Energy Procedia, 136, pp. 481-487. DOI: 10.1016/j.egypro.2017.10.307
- 150** Belmili, H., Cheikh, R., Smail, T., Seddaoui, N., Biara, R.W. Study, design and manufacturing of hybrid vertical axis Savonius wind turbine for urban architecture, (2017) Energy Procedia, 136, pp. 330-335. DOI: 10.1016/j.egypro.2017.10.389
- 151** Ben Cheikh el Hocine, H., Touafek, K., Kerrou, F. The development of empirical photovoltaic/thermal collector, (2017) Lecture Notes in Electrical Engineering, 411, pp. 171-180. DOI: 10.1007/978-3-319-48929-2_13
- 152** Aoun, N., Bouchouicha, K., Chenni, R. Performance evaluation of a mono-crystalline photovoltaic module under different weather and sky conditions, (2017) International Journal of Renewable Energy Research, 7 (1), pp. 292-297.
- 153** Bouchakour, A., Brahami, M., Borni, A. Comparative study on photovoltaic pumping systems driven by different motors optimized with sliding mode control, (2017) International Journal of Engineering and Technology Innovation, 7 (3), pp. 201-216.
- 154** Kaabeche, A., Diaf, S., Ibtiouen, R. Firefly-inspired algorithm for optimal sizing of renewable hybrid system considering reliability criteria, (2017) Solar Energy, 155, pp. 727-738. DOI: 10.1016/j.solener.2017.06.070
- 155** Boutelhig, A., Melit, A., Hanini, S. Groundwater sources assessment for sustainable supply through photovoltaic water pumping system, in M'zab valley, Ghardaia, (2017) Energy Procedia, 141, pp. 76-80. DOI: 10.1016/j.egypro.2017.11.015
- 156** Koussa, M., Saheb-Koussa, D., Hadji, S. Experimental investigation of simple solar radiation spectral model performances under a Mediterranean Algerian's climate, (2017) Energy, 120, pp. 751-773. DOI: 10.1016/j.energy.2016.11.132
- 157** Chikhi, M., Agoudjil, B., Mokhtari, F. A possible correlation investigation between young's modulus and thermal properties of green composites, (2017) Materials Science Forum, 895 MSF, pp. 52-55. DOI: 10.4028/www.scientific.net/MSF.895.52
- 158** Amouri, M., Mohellebi, F., Zaïd, T.A., Aziza, M. Sustainability assessment of Ricinus communis biodiesel using LCA Approach, (2017) Clean Technologies and Environmental Policy, 19 (3), pp. 749-760. DOI: 10.1007/s10098-016-1262-4
- 159** Nadjemi, O., Nacer, T., Hamidat, A., Salhi, H. Optimal hybrid PV/wind energy system sizing: Application of cuckoo search algorithm for Algerian dairy farms, (2017) Renewable and Sustainable Energy Reviews, 70, pp. 1352-1365. DOI: 10.1016/j.rser.2016.12.038
- 160** Benhammou, M., Draoui, B., Hamouda, M. Improvement of the summer cooling induced by an earth-to-air heat exchanger integrated in a residential building under hot and arid climate, (2017) Applied Energy. Article in Press. DOI: 10.1016/j.apenergy.2017.10.012
- 161** Mohammed, I.H., Arab, A.H., Berrah, S., Bakelli, Y., Khennene, M., Oudjana, S.H., Fezzani, A., Zaghiba, L. Outdoor study of partial shading effects on different PV modules technologies, (2017) Energy Procedia, 141, pp. 81-85. DOI: 10.1016/j.egypro.2017.11.016
- 162** Ghezloun, A., Saidane, A., Merabet, H. The COP 22 New commitments in support of the Paris Agreement, (2017) Energy Procedia, 119, pp. 10-16. DOI: 10.1016/j.egypro.2017.07.040
- 163** Boukebbous, S.E., Kerdoun, D. New strategy control of bidirectional Quazi Z source inverter with batteries and supercapacitors energy storage in grid connected photovoltaic system, (2017) International Journal of Power Electronics and Drive Systems, 8 (1), pp. 335-343. DOI: 10.11591/ijpeds.v8i1.pp335-343
- 164** Fezzani, A., Hadj Mohammed, I., Bazi, S. A mathematical model to determine the shading effects in the I-V characteristic of a photovoltaic module, (2017) Lecture Notes in Electrical Engineering, 411, pp. 181-190. DOI: 10.1007/978-3-319-48929-2_14
- 165** Saheb Koussa, D., Koussa, M., Rennane, A., Hadji, S., Boufertella, A., Balehouane, A., Bellarbi, S. Hybrid diesel-wind system with battery storage operating in standalone mode: Control and energy management – Experimental investigation, (2017) Energy, 130, pp. 38-47. DOI: 10.1016/j.energy.2017.04.127
- 166** Kebour, O., Hadj Arab, A., Hamid, A., Abdeladim, K. Contribution to the analysis of a stand-alone photovoltaic system in a desert environment, (2017) Solar Energy, 151, pp. 68-81. DOI: 10.1016/j.solener.2017.05.009
- 167** Zaiani, M., Djafer, D., Chouireb, F. New approach to establish a clear sky Global Solar irradiance model, (2017) International Journal of Renewable Energy Research, 7 (3), pp. 1454-1462.
- 168** Laissaoui, M., Touil, A., Nehari, D. Thermodynamic Analysis of the Combined CSP and Desalination in Algeria, (2017) Energy Procedia, 139, pp. 79-85. DOI: 10.1016/j.egypro.2017.11.176
- 169** Saba, D., Laallam, F.Z., Berbaoui, B., Abanda, F.H. An energy management approach in hybrid energy system based on agent's coordination, (2017) Advances in Intelligent Systems and Computing, 533, pp. 299-309. DOI: 10.1007/978-3-319-48308-5_29
- 170** Bellaoui, M., Hassini, A., Bouchouicha, K. Remote sensed land surface temperature anomalies for earthquake prediction, (2017) International Journal of Engineering Research in Africa, 31, pp. 120-134. DOI: 10.4028/www.scientific.net/JERA.31.120
- 171** Khelifi, S., Mazari, H., Belghachi, A., Ameur, K., Benamarra, Z., Mostefaoui, M., Rouabchia, A., Sahouane, N. Simulation analysis of intermediate band ZnTeO based thin film solar cell, (2017) Journal of Nanoelectronics and Optoelectronics, 12 (5), pp. 460-464. DOI: 10.1166/jno.2017.2032
- 172** Laour, M., Tahmi, R., Vollaire, C. Experimental evaluation and FDTD method for predicting electromagnetic fields in the near zone radiated by power converter systems, (2017) Turkish Journal of Electrical Engineering and Computer Sciences, 25 (2), pp. 1460-1471. DOI: 10.3906/elk-1506-278
- 173** Abdeslame, D., Kasbadji Merzouk, N., Mekhtoub, S., Abbas, M., Dehmas, M. Estimation of power generation capacities of a wind farms installed in windy sites in Algerian high plateaus, (2017) Renewable Energy, 103, pp. 630-640. DOI: 10.1016/j.renene.2016.10.075
- 174** Chafai, N., Chafaa, S., Benbouguerra, K., Daoud, D., Hellal, A., Mehri, M. Synthesis, characterization and the inhibition activity of a new α -aminophosphonic derivative on the corrosion of XC48 carbon steel in 0.5 M H₂SO₄: Experimental and theoretical studies, (2017) Journal of the Taiwan Institute of Chemical Engineers, 70, pp. 331-344. DOI: 10.1016/j.jtice.2016.10.026

- 175** Menasria, F., Zedairia, M., Moumni, A. Numerical study of thermohydraulic performance of solar air heater duct equipped with novel continuous rectangular baffles with high aspect ratio, (2017) *Energy*, 133, pp. 593-608. DOI: 10.1016/j.energy.2017.05.002
- 176** Maizi, M., Dizene, R., Mihoubi, M.C. Reducing noise generated from a wind turbine blade by pitch angle control using CFD and acoustic analogy, (2017) *Journal of Applied Fluid Mechanics*, 10 (4), pp. 1201-1209. DOI: 10.18869/acadpub.jafm.73.241.27426
- 177** Abdelkrim, T., Benamrane, K., Benslimane, T., Abdelkhalek, O., Borni, A. Stability Study of Output Voltages of Two-Stage PV System Based Three Levels Inverter, (2017) *Energy Procedia*, 139, pp. 658-663. DOI: 10.1016/j.egypro.2017.11.268
- 178** Kaci, K., Merzouk, M., Merzouk, N.K., El Ganaoui, M., Sami, S., Djedjig, R. Dynamic simulation of hybrid-solar water heated olympic swimming pool, (2017) *Energy Procedia*, 139, pp. 750-757. DOI: 10.1016/j.egypro.2017.11.282
- 179** Meziane, F., Khellaf, A., Chellali, F., Mohammedi, K. A wind energy conversion system for hydrogen production by water electrolysis in the region of Hassi R'mel (Algeria), (2017) *International Journal of Hydrogen Energy*. Article in Press. DOI: 10.1016/j.ijhydene.2017.06.080
- 180** Laissaoui, M., Nehari, D., Ouinas, D. Analysis of the feasibility of combined concentrating solar power with multi effect desalination for Algerian coast, (2017) *International Journal of Renewable Energy Research*, 7 (3), pp. 1145-1154.
- 181** Maammeur, H., Hamidat, A., Loukarfi, L., Missoum, M., Abdeladim, K., Nacer, T. Performance investigation of grid-connected PV systems for family farms: Case study of North-West of Algeria, (2017) *Renewable and Sustainable Energy Reviews*, 78, pp. 1208-1220. DOI: 10.1016/j.rser.2017.05.004
- 182** Hamdani, M., Bekkouche, S.M.A., Benouaz, T., Belarbi, R., Cherier, M.K. The Study Natural Ventilation by Using Buildings Windows: Case Study in a Hot Dry Climate, Ghardaïa, Algeria, (2017) *Energy Procedia*, 139, pp. 475-480. DOI: 10.1016/j.egypro.2017.11.240
- 183** Hamouche, H., Shabat, M.M., Schaadt, D.M. Multilayer solar cell waveguide structures containing metamaterials, (2017) *Superlattices and Microstructures*, 101, pp. 633-640. DOI: 10.1016/j.spmi.2016.08.047
- 184** Saba, D., Laallam, F.Z., Belmili, H., Abanda, F.H., Bouraiou, A. Development of an ontology-based generic optimisation tool for the design of Hybrid energy systems, (2017) *International Journal of Computer Applications in Technology*, 55 (3), pp. 232-243. DOI: 10.1504/IJCAT.2017.084773
- 185** Bechouat, M., Sedraoui, M., Soufi, Y., Yousfi, L., Borni, A., Kahla, S. Particle swarm optimization Backstepping controller for a grid-connected PV/wind hybrid system, (2017) *Journal of Engineering Science and Technology Review*, 10 (1), pp. 91-99.
- 186** Bensalem, S., Chegaar, M., Herguth, A. Band gap dependence with temperature of semiconductors from solar cells electrical parameters, (2017) *Current Applied Physics*, 17 (1), pp. 55-59. DOI: 10.1016/j.cap.2016.10.012
- 187** Slimani, M.E.A., Amirat, M., Kurucz, I., Bahria, S., Hamidat, A., Chaouch, W.B. A detailed thermal-electrical model of three photovoltaic/thermal (PV/T) hybrid air collectors and photovoltaic (PV) module: Comparative study under Algiers climatic conditions, (2017) *Energy Conversion and Management*, 133, pp. 458-476. DOI: 10.1016/j.enconman.2016.10.066
- 188** Belkacem, N., Loukarfi, L., Missoum, M., Naji, H., Khelil, A., Braikia, M. Assessment of energy and environmental performances of a bioclimatic dwelling in Algeria's North, (2017) *Building Services Engineering Research and Technology*, 38 (1), pp. 64-88. DOI: 10.1177/0143624416669554
- 189** Mammar, M., Djouimaa, S., Hamidat, A., Bahria, S., El Ganaoui, M. Wind effect on full-scale design of heliostat with torque tube, (2017) *Mechanics and Industry*, 18 (3), art. no. 312. DOI: 10.1051/meca/2016059
- 190** Bellaoui, M., Hassini, A., Kada, B., Belbachir, A.H. Robust thermal infrared satellite approach for earthquake prediction, (2017) *International Journal of Tomography and Simulation*, 30 (3), pp. 35-47.
- 191** Bouraiou, A., Hamouda, M., Chaker, A., Lachtar, S., Neçaibia, A., Boutasseta, N., Mostefaoui, M. Experimental evaluation of the performance and degradation of single crystalline silicon photovoltaic modules in the Saharan environment, (2017) *Energy*, 132, pp. 22-30. DOI: 10.1016/j.energy.2017.05.056
- 192** Belhaouas, N., Amrouche, B. PV array power output maximization under partial shading using new shifted PV array arrangements, (2017) *Applied Energy*, 187, pp. 326-337. DOI: 10.1016/j.apenergy.2016.11.038
- 193** Zioui, D., Arous, O., Mameri, N., Kerdjoudj, H., Sebastian, M.S., Vilas, J.L., Nunes-Pereira, J., Lanceros-Méndez, S. Membranes based on polymer miscibility for selective transport and separation of metallic ions, (2017) *Journal of Hazardous Materials*, 336, pp. 188-194. DOI: 10.1016/j.jhazmat.2017.04.035
- 194** Bousdira, K., Bousdira, D., Bekkouche, S.M.E.A., Nouri, L., Legrand, J. Kinetic pyrolysis study and classification of date palm biomass, (2017) *Journal of Renewable and Sustainable Energy*, 9 (1), art. no. 013102. DOI: 10.1063/1.4974342
- 195** Ahvenniemi, E., Akbashev, A.R., Ali, S., Bechelany, M., Berdova, M., Boyadjiev, S., Cameron, D.C., Chen, R., Chubarov, M., Cremers, V., Devi, A., Drozd, V., Elnikova, L., Gottardi, G., Grigorias, K., Hausmann, D.M., Hwang, C.S., Jen, S.-H., Kallio, T., Kanervo, J., Khmelnitskiy, I., Kim, D.H., Klipanov, L., Koshtyal, Y., Krause, A.O.I., Kuhs, J., Kärkkänen, I., Kääriäinen, M.-L., Kääriäinen, T., Lamagna, L., Łapicki, A.A., Leskelä, M., Lipsanen, H., Lyytinen, J., Malkov, A., Malygin, A., Mennad, A., Militzer, C., Molarius, J., Norek, M., Özgit-Akgün, Ç., Panov, M., Pedersen, H., Piallat, F., Popov, G., Puurunen, R.L., Rampelberg, G., Ras, R.H.A., Rauwel, E., Roozeboom, F., Sajavaara, T., Salami, H., Savin, H., Schneider, N., Seidel, T.E., Sundqvist, J., Suyatin, D.B., Törndahl, T., Van Ommen, J.R., Wiemer, C., Ylivaara, O.M.E., Yurkevich, O. Review Article: Recommended reading list of early publications on atomic layer deposition - Outcome of the «virtual Project on the History of ALD», (2017) *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, 35 (1), art. no. 010801, . DOI: 10.1116/1.4971389