

## DJELAILIA Okba

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### STUDIES AND QUALIFICATIONS

- 2016-2020** PhD degree : Badji Mokhtar Annaba University  
specialty : Electrical engineering  
Thesis Title : Synergy management of an autonomous multi-source electricity supply based on renewable energy
- 2014-2016** Master degree : Badji Mokhtar Annaba University  
Specialty : Electrical networks  
Title : Contribution to the study and modeling of an autonomous photovoltaic system connected to the electricity network.
- 2011-2014** License (BAC+3) : Chikh larbi tebessi Tébessa **University**  
Specialty : Electrical networks  
Title : Contribution to the study and modeling of photovoltaic systems (Autonomous-Sys)
- 2007-2011** Baccalaureate  
Scientific baccalaureate in natural sciences, at the Houari Boumediene Tébessa-high school

### SCIENTIFIC PUBLICATIONS

#### International Publishing

**Okba Djelailia**, Mounia Samira Kelaiaia, Hocine Labar, Salah Necaibia, Faycel Merad, " Energy hybridization photovoltaic/diesel generator/pump storage hydroelectric management based on online optimal fuel consumption per kWh," *Sustainable Cities and Society*, vol. 44, pp. 1-15, 2019.

S. Necaibia, M. S. Kelaiaia, H. Labar, **O. Djelailia**, F. Merad, " Practical Implementation of a Proposed MPPT Control Strategy to Mitigate Inaccurate Responses for Photovoltaic Systems," *International Journal on Electrical Engineering and Informatics - Volume 10, Number 4, Desember 2018*.

F. Merad, H. Labar, M. S. Kelaiaia, S. Necaibia, and **O. Djelailia**, "A maximum power control based on flexible collector applied to concentrator solar power," *Renewable and Sustainable Energy Reviews*, vol. 110, , pp. 315-331, 2019.

**Okba Djelailia**, Mounia Samira Kelaiaia, Hocine Labar, Salah Necaibia, Faycel Merad, " Hybrid Energy System with an Energy Management Control Strategy Based on the Online Fuel Consumption , " , *Electric Power Components and Systems*, vol. 47, pp. 1717-1730, 2020.

## **International Conferences**

**Okba Djelailia**, Mounia Samira Kelaiaia, Hocine Labar, Salah Necaibia, and Faycel Merad, "Micro Grid Solar-Diesel Hybrid System Integration in the South of Algeria," The 3<sup>rd</sup> International Conference on Power Electronics and their Applications (ICPEA 2017) **Djelfa, Algeria.**

Salah Necaibia, Mounia Samira Kelaiaia, Hocine Labar, Ammar Necaibia and **Okba Djelailia**, "A Novel Improved MPPT Control to Mitigate Inaccurate Responses under Non-Uniform Insolation Conditions," The 3<sup>rd</sup> International Conference on Power Electronics and their Applications (ICPEA 2017) **Djelfa, Algeria.**

Faycel Merad, Hocine Labar, Mounia Samira Kelaiaia, Salah Necaibia, and **Okba Djelailia**, "Proposed Model of Parabolic Trough Systems for Concentrator Solar Power," The 3<sup>rd</sup> International Conference on Power Electronics and their Applications (ICPEA 2017) **Djelfa, Algeria.**

**Okba Djelailia**, Mounia Samira Kelaiaia, Hocine Labar, Salah Necaibia, and Faycel Merad, "Photovoltaic-Hydroelectric Power Storage-Diesel Hybridization Integrated in South Algeria" Second International Conference on Electrical Engineering (ICEEB'2018) **Biskra, Algeria.**

**Okba Djelailia**, Mounia Samira Kelaiaia, Hocine Labar, Salah Necaibia, and Faycel Merad, "Hybrid Microgrid Energy System with an Energy Management Control Strategy Inegerted in South Algeria" International Conference on Communications and Elecrical Engineering (ICCEE 2018) **El-Oued, Algeria.**

**Okba Djelailia**, Mounia Samira Kelaiaia, Hocine Labar, Salah Necaibia, Faycel Merad, "Photovoltaic-Hydroelectric Power Storage-Diesel Hybridization System Integrated in South Algeria" 1st International Conference on Renewable Energy and Energy Conversion (ICREEC'2019) **Oran, Algeria.**

**Okba Djelailia**, Mounia Samira Kelaiaia, Hocine Labar, Salah Necaibia, Faycel Merad, "Optimal Fuel Consumption Planning and Energy Management Strategy for a Hybrid Energy System with Pumped Storage" International conference on Sustainable Renewable Energy systems and Application (ICSRESA 2019) **Tebessa, Algeria.**

Hichem chouial, Hocine Labar, Mounia Samira Kelaiaia, Salah Necaibia, **Okba Djelailia** and Faycel Merad, "Simulation of low cost incremental conductance MPPT control based SEPIC converter in solar application under fast-charging solar irradiation level" International conference on Sustainable Renewable Energy systems and Application (ICSRESA 2019) **Tebessa, Algeria.**