Ci dessous la liste des publications classées selon l'ordre chronologique:

2018:

Role of Graded Channel Doping Engineering in Improving Junctionless GAA MOSFET Performance for Ultra Low-Leakage Power Applications  
Journal of Nanoelectronics and Optoelectronics vol. 13, pp. 521-530, 2018  
H. Ferhati, F. Djeffal

Role of intermediate metallic sub-layers in improving the efficiency of kesterite solar cells: concept and optimization  
Materials Research Express vol. 5, pp. 036417-1-036417-7, 2018  
H. Ferhati, F. Djeffal

Graded channel doping junctionless MOSFET: a potential high performance and low power leakage device for nanoelectronic applications  
Journal of Computational Electronics, vol. 17, pp. 129-137, 2018  
H. Ferhati, F. Djeffal

Graded band-gap engineering for increased efficiency in CZTS solar cells  
Optical Materials vol. 76, pp. 393-399, 2018  
H. Ferhati, F. Djeffal

Continuous semianalytical modeling of vertical surrounding-gate tunnel FET: analog/RF performance evaluation  
Journal of Computational Electronics, Accepted paper, 2018  
N. Abdelmalek, F. Djeffal, T. Bentrcia

Optimizing the optical performance of ZnO/Si-based solar cell using metallic nanoparticles and interface texturization
Optik-International Journal for Light and Electron Optics vol. 153, pp. 43–49, 2018
H. Ferhati, F. Djeffal, K. Kacha

2017:

A novel high-performance self-powered ultraviolet photodetector: Concept, analytical modeling and analysis
Superlattices and Microstructures, vol. 112, pp.480-492, 2017
H. Ferhati, F. Djeffal

Efficiency Enhancement of a-Si:H/c-Si-Based Radial Solar Cell by Optimizing the Geometrical and Electrical Parameters
H. Ferhati, F. Djeffal, D Arar, Z. Dibi

Improved Reliability Performance of Junctionless Nanoscale DG MOSFET with Graded Channel Doping Engineering
T. Bentrcia, F. Djeffal, D Arar, E. Chebaki

Role of non-uniform channel doping in improving the nanoscale JL DG MOSFET reliability against the self-heating effects
Superlattices and Microstructures, vol. 109, pp.869-879, 2017
H. Ferhati, F. Douak, F. Djeffal

Improved ZnO/glass thin film UV photodetector performance based on introduction of intermediate metallic sub-layers
H. Ferhati, F. Djeffal

A Kriging framework for the efficient exploitation of the nanoscale junctionless DG MOSFETs including source/drain extensions and hot carrier effect
T. Bentrcia, F Djeffal, E. Chebaki, D. Arar

Role of metal layer in improving the UV-photodetector performance of TiO2/Metal/TiO2/Si structure
H Ferhati, F Djeffal, D Arar, Z Dibi

Planar junctionless phototransistor: A potential high-performance and low-cost device for optical-communications
H Ferhati, F Djeffal

Novel high-performance SOI junctionless FET-based phototransistor using channel doping engineering: Numerical investigation and sensitivity analysis
H Ferhati, F Djeffal

Efficiency increase of hybrid organic/inorganic solar cells with optimized interface grating morphology for improved light trapping
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F Srairi, F Djeffal, H Ferhati

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H Ferhati, F Djeffal, F Srairi

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H. Ferhati, F. Djeffal, T. Bentercia

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**New high performance ultraviolet (MSM) TiO2/Glass photodetector based on diffraction grating for optoelectronic applications**
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Role of gradual gate doping engineering in improving phototransistor performance for ultra-low power applications
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A new high-performance phototransistor design based on both surface texturization and graded gate doping engineering
F. Djeffal, H. Ferhati

Numerical investigation of nanoscale double-gate junctionless MOSFET with drain and source extensions including interfacial defects
T. Bentrcia, F. Djeffal, D. Arar, M. Meguellati

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