

PERSONAL INFORMATION



Osbel Almora Rodríguez

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Gender Male | Date of birth 04/02/1989 | Nationality Cuban

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WORK EXPERIENCE

(September 2017 – Present)

PhD Student

Institute Materials for Electronics and Energy Technology (i-MEET), Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU), Germany.

(September 2014 – August 2017)

Research Student

Institute of Advanced Materials (INAM), Universitat Jaume I (UJI), Castelló, Spain.

(September 2013 – August 2014)

Lecturer

Department of Physics, Higher Polytechnic Institute José Antonio Echeverría (ISPJAE), Havana, Cuba.

(September 2013 – August 2014)

Research Fellow

Solar cells laboratory, Institute of Materials Science and Technology (IMRE), University of Havana (UH), Havana, Cuba.

EDUCATION AND TRAINING

(February 2015 – February 2016)

Master' Degree in Applied Physics

EQF level 7

School of Technology and Experimental Sciences, Universitat Jaume I, Castelló, Spain.

(September 2008 – July 2013)

Degree in Physics

EQF level 6

Faculty of Physics (FF), University of Havana, Havana, Cuba.

ADDITIONAL INFORMATION

Mother Tongue

Spanish

Other Language

English

Computer Skills

Programming in Wolfram Mathematica and LabView languages.

Grant

Santiago Grisolia 2014-2017 from the Generalitat Valenciana, Spain.

Membership

Cuban Physical Society

Research Stay

15/4/2017-6/4/2017: Dr. Md. K. Nazeeruddin's group at EPFL Valais Wallis, Sion, Switzerland.

Conferences and Presentations

- ABXPV17 International Conference on Perovskite Thin Film Photovoltaics, Valencia (Spain), March 1-2, 2017.
 - (Poster) Capacitive and Noncapacitive Hysteretic Currents in Perovskite Solar Cells.
- EMTECH Research Workshop for Young Researchers, Valencia (Spain), November 17-18, 2016.
 - (Oral) Capacitive and Noncapacitive Hysteretic Currents in Perovskite Solar Cells.
- XV WORKSHOP REBIUN, Universitat Jaume I, Castelló (Spain), September 29-30, 2016.
- NEXTGEN NANO PV 2015, Spring International School & Workshop, Mao, Menorca, Balearic Islands (Spain), April 20-24, 2015.
 - (Oral) Doping Profile of Hybrid Lead Halide Perovskite Solar Cells.
- XIII Symposium and XI Congress of the Cuban Physical Society, Havana (Cuba), March 17-21, 2014.
 - (Poster) DLTS Measurements on CdTe/CdS Polycrystalline Thin Film Solar Cells.
 - (Poster) Temperature Dependent Seeding Effects on Hydrothermally Grown Zinc Oxide Nanorods: Towards Low Temperatures and High Scalability

Academic Publishing Activities

Digital Editor of the *Rev. Cub. Fis.* (Cuban Journal of Physics).
 Reviewer for *J. Phys. Chem. Lett.* and *Rev. Cub. Fis.*
 Author of 13 journal articles (see list below)

| Academic Publications | | References | h-index: 6 | |
|-----------------------|--|--|------------|------|
| No. | | | Citations | JIF |
| 13 | O. Almora , L. Vaillant-Roca, G. Garcia-Belmonte | <i>Perovskite Solar Cells: A Brief Introduction and some Remarks</i> , <i>Rev. Cub. Fis.</i> 34 (2017) 58-68. | | 0.1 |
| 12 | O. Almora , L. G. Gerling, C. Voz, R. Alcubilla, J. Puigdollers, G. Garcia-Belmonte | <i>Superior Performance of V₂O₅ as Hole Selective Contact over other Transition Metal Oxides in Silicon Heterojunction Solar Cells</i> , <i>Sol. Energy Mater. Sol. Cells</i> 168 (2017) 221-226. | 1 | 4.8 |
| 11 | S. Ravishankar, O. Almora , C. Echeverría-Arrodo, E. Ghahremanirad, C. Aranda, A. Guerrero, F. Fabregat-Santiago, A. Zaban, G. Garcia-Belmonte, J. Bisquert | <i>Surface Polarization Model for the Dynamic Hysteresis of Perovskite Solar Cells</i> , <i>J. Phys. Chem. Lett.</i> 8 (2017) 915-921. | 5 | 9.5 |
| 10 | M. Valles-Pelarda, B.C. Hames, I. Garcia-Benito, O. Almora , A. Molina-Ontoria, R.S. Sánchez, G. Garcia-Belmonte, N. Martín, I. Mora-Sero | <i>Analysis of the Hysteresis Behavior of Perovskite Solar Cells with Interfacial Fullerene Self-Assembled Monolayers</i> , <i>J. Phys. Chem. Lett.</i> 7 (2016) 4622-4628. | 4 | 9.5 |
| 9 | O. Almora , C. Aranda, E. Mas-Marzá, G. Garcia-Belmonte | <i>On Mott-Schottky Analysis Interpretation of Capacitance Measurements in Organometal Perovskite Solar Cells</i> , <i>Appl. Phys. Lett.</i> 109 (2016) 173903. | 6 | 3.4 |
| 8 | O. Almora , C. Aranda, I. Zarazua, A. Guerrero, G. Garcia-Belmonte | <i>Noncapacitive hysteresis in perovskite solar cells at room temperature</i> , <i>ACS Energy Lett.</i> 1 (2016) 209-215. | 12 | 2.1 |
| 7 | J. Carrillo, A. Guerrero, S. Rahimnejad, O. Almora , I. Zarazua, E. Mas-Marza, J. Bisquert, G. Garcia-Belmonte | <i>Ionic Reactivity at Contacts and Aging of Methylammonium Lead Triiodide Perovskite Solar Cells</i> , <i>Adv. Energy Mater.</i> 6 (2016) 1502246. | 36 | 16.7 |
| 6 | O. Almora , A. Guerrero, G. Garcia-Belmonte | <i>Ionic Charging by Local Imbalance at Interfaces in Hybrid Lead Halide Perovskites</i> , <i>Appl. Phys. Lett.</i> 108 (2016) 043903. | 22 | 3.4 |
| 5 | O. Almora , I. Zarazua, E. Mas-Marza, I. Mora-Sero, J. Bisquert, G. Garcia-Belmonte | <i>Capacitive Dark Currents, Hysteresis, and Electrode Polarization in Lead Halide Perovskite Solar Cells</i> , <i>J. Phys. Chem. Lett.</i> 6 (2015) 1645-1652. | 10 | 9.5 |
| 4 | M. Coll, A. Gomez, E. Mas-Marza, O. Almora , G. Garcia-Belmonte, M. Campoy-Quiles, J. Bisquert | <i>Polarization Switching and Light-Enhanced Piezoelectricity in Lead Halide Perovskites</i> , <i>J. Phys. Chem. Lett.</i> 6 (2015) 1408-1413. | 64 | 9.5 |
| 3 | O. Almora , L. Vaillant-Roca, A. Bosio | <i>Electrical Characterizations of CdTe/CdS Poly-Crystalline Thin Film Solar Cells</i> , <i>Rev. Cub. Fis.</i> 31 (2014) 66-70. | 1 | 0.1 |
| 2 | L. Vaillant-Roca, A. Peukert, M. Wittmer, O. Almora , A. Chanaewa, E. von Hauff | <i>Temperature Dependent Seeding Effects on Hydrothermally Grown Zinc Oxide Nanorods: Towards Low Temperatures and High Scalability</i> , <i>Rev. Cub. Fis.</i> 31 (2014) E85-E86. | | 0.1 |
| 1 | O. Almora , L. Vaillant-Roca, J.C. Rimada-Herrera, A. Bosio, DLTS | <i>Measurements on CdTe/CdS Polycrystalline Thin Film Solar Cells</i> , <i>Rev. Cub. Fis.</i> 31 (2014) E87-E89. | | 0.1 |

Citation report from Thomson Reuters/Scopus 06/09/2017