

**III Congreso Internacional de Metrología
Colombia 2016**

Participación:

Conferencista (X) Moderador () Miembro de Comisión Científica ()

Nombre:	Juan Carlos Salcedo Reyes
Formación:	Maestría en Ciencias (Especialidad en física), Doctorado en Ciencias (Especialidad en física)
Institución / Empresa:	Pontificia Universidad Javeriana
Cargo:	Profesor Asociado
Dirección:	Cr. 7 No. 43-82, Ed. 54. Lab. 402b
E-mail:	salcedo.juan@javeriana.edu.co
Teléfono:	3174052645

Resumen de Currículo

1. EDUCATION AND QUALIFICATIONS

- **Bachelor of Science Degree.**

Dissertation: "Calculation of the electronic band structure and the density of states of the $Zn_xCd_{1-x}Se$ semiconductor alloy". Universidad Nacional de Colombia, Bogotá, Colombia , 1997.

- **Master of Science Degree**

Dissertation: "Optic and electronic properties of the ternary alloy $Zn_{0.5}Cd_{0.5}Se$ "
Universidad Nacional de Colombia, Bogotá, Colombia, 2000.

- **PhD Degree**

Dissertation: " $Zn_{0.5}Cd_{0.5}Se$ ordered alloys: symmetry properties and electronic band structure calculation. Growth by Atomic layer epitaxy and optical properties characterization"
Centro de Investigación y de Estudios Avanzados de Instituto Politécnico Nacional (CINVESTAV), México, D.F., México, 2005

2. **WORK EXPERIENCE.**

- Associate professor, Department of Physics, Faculty of Sciences, Pontificia Universidad Javeriana, 2008.

- Associate professor, Institute of Physics of Universidad de Guanajuato, León, Guanajuato, México, 2005-2007

- Scientific advisor of the physics room, Interactive Center of Sciences and Technology MALOKA, Bogotá, Colombia, 1997-1998.
- Postdoctoral position; "Opal based photonic crystals with active components for obtain negative refraction at optical wavelengths for applications in OLEDs with enhanced light extraction". Nanotech Institute, University of Texas at Dallas, USA, 2006
- Postdoctoral position: "Optical coupling of the emission of MDMO-PPV- OLEDs infiltrated with colloidal crystals of SiO₂". Instituto de Ciencia de Materiales de Madrid (ICMM), Consejo Superior de Investigaciones Científicas (CSIC), Spain, 2012

3. TEACHING EXPERIENCE.

- Chair Professor, Faculty of Sciences, Pontificia Universidad Javeriana, Bogotá, Colombia, 1995-2000.
- Assistant Professor, Advanced laboratory, Centre for Research and Advanced Studies of the IPN (Cinvestav), México, 2001-2002.
- Tutor. Institute of Physics of the Universidad de Guanajuato, México, 2005-2007.
- Member committee of academic monitoring (CSA). Institute of Physics of the Universidad de Guanajuato, México, 2005-2007.
- Adviser 13th. Summer of the scientific research, Universidad de Guanajuato, México, 2007.
- Member of Disclosure Committee, Institute of Physics, Universidad de Guanajuato, August 26 of 2005 - August 25 of 2007.

4. ACADEMIC PRODUCTION

Refereed publications

- Jorge A. Fernández, Magda G. Cardozo, Ana K. Carrascal, Juan C. Salcedo, Aura M. Pedroza, Carlos E. Daza, Microbiology cell-staining wastewater treatment using TiO₂ thin films, *Ingeniería y Competitividad*, 17, 35 (2015)
- O. A. Castañeda-Uribe, J. C. Salcedo-Reyes, H. A. Méndez-Pinzón and A. M. Pedroza-Rodríguez, Fabrication of FCC- SiO₂ colloidal crystals using the vertical convective self-assembly method, *AIP Conf. Proc.*, 1598, 43 (2014)
- I. Hernández-Calderón and J. C. Salcedo-Reyes, Photoluminescence study of the substitution of Cd by Zn during the growth by atomic layer epitaxy of alternate CdSe and ZnSe monolayers, *AIP Conf. Proc.*, 1598, 134 (2014)
- J. C. Salcedo-Reyes, Effective refractive index of face centered-cubic and hexagonal close packed 250 nm-SiO₂ based colloidal crystals, *Journal of Nanophotonics*, 6, 063518-1 (2012)
- H. Méndez, C. Hernández, N. Ulloa, J.C. Salcedo-Reyes, H. Rodríguez, Electric Transport Mechanisms In Indium Tin Oxide Thin Films, *Revista Colombiana de Física*, 42, 402 (2010)
- H. Méndez, D. Pardo, J.P. Cuéllar, J.C. Salcedo-Reyes, R. Vera, B.A. Páez, Fabrication And Electrical Characterization Of Organic Light Emitting Diodes (OLEDs), *Revista Colombiana de Física*, 42, 397 (2010)

- O.A. Castañeda-Urbe, J.C. Salcedo-Reyes, H.A. Méndez-Pinzón, A.M. Pedroza-Rodríguez, Fabrication and optical characterization of a high-quality fcc-opal-based photonic crystal grown by the vertical convective self-assembly method, *Universitas. Scientiarum*, 15, 150 (2010)
- N. Rojas-Higuera, A. Sánchez-Garibello, A. Matiz-Villamil, J. Salcedo-Reyes, A.K. Carrascal-Camacho, A.M. Pedroza-Rodríguez, Evaluation of three methods for the inactivation of coliforms and *Escherichia coli* present in domestic wastewaters used in irrigation, *Universitas. Scientiarum*, 15, 139 (2010)
- Henry Alberto Méndez-Pinzón, Diana Rocío Pardo-Pardo, Juan Pablo Cuéllar-Alvarado, Juan Carlos Salcedo-Reyes, Ricardo Vera, Beynor Antonio Páez-Sierra, Analysis of the current-voltage characteristics of polymer-based organic light-emitting diodes (OLEDs) deposited by spin coating, *Universitas. Scientiarum*, 15, 68 (2010)
- J. C. Salcedo-Reyes, Refraction properties of FCC and HCP SiO₂-based colloidal crystals, *Proceedings of SPIE*, 7609, 76090W-1 (2010)

5. EDITORIAL EXPERIENCE

- Editor in Chief, *Universitas Scientiarum*, Faculty of Sciences, Pontificia Universidad Javeriana. 2015
- Scientific Editor, *Revista Innovación y Ciencia*, Asociación Colombiana para el Avance de la Ciencia (A.C.A.C), Bogotá, Colombia, 1997-2000.
- Scientific Editor, *Universitas Scientiarum*, Faculty of Sciences, Pontificia Universidad Javeriana, 2010
- Section Editor, *Revista Colombiana de Física*, Sociedad Colombiana de Física, 2010-

Reviewer in indexed journals

- *Journal of Nanoscience and Nanotechnology*
- *Revista Superficies y vacío (Sociedad Mexicana de Ciencia y Tecnología de Superficies y Materiales A.C.)*
- *Revista Colombiana de Física*
- *Journal of Photonics for Energy*