

CURRICULUM VITAE

Dr. José Luis Cuevas Figueroa



Date of birth: 23.12.1979
Nacionality: Mexican
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ACADEMIC FORMATION

- Ph. D:** Nanoscience and Nanotechnology **12.2013 - 01.2010**
National Polytechnic Institute (IPN) México
Specialization: Material Science and Nanotechnology
Thesis title: Oxygen effects on the electronic properties in SiC nanowires hydrogenated kind β .
- M.Sc. Nanoscience and Nanotechnology** **08.2009 - 01.2007**
National Polytechnic Institute (IPN) México
Specialization: Material Science and Nanotechnology
Thesis title: Electronic properties in quantic silicon carbide nanowires kind β
- B. Sc. Communications and Electronics Engineer** **08.2006 - 08.2009**
National Polytechnic Institute (IPN) México
Specialization: Electronic

WORK EXPERIENCE

- Metropolitan Autonomous University-Xochimilco (UAM-X)** **12.2016 – 06.2014**
Position: Project Manager, Postdoctoral Fellow, Focus Area Nanotechnology
- Project "Encapsulation of Copaxone and Interferon in nanoparticles to treat neurological diseases"

- Strategic planning and consulting work in the laboratory of nanomaterials, Silica, Titania and copper acetylacetonate
- Interpretation of TEM, SEM micrographs.
- Investigation about the optimal percentage of Cu for doping the nanostructures
- Participation as speaker
- Supervision of Bachelor, Master and PhD students.
- Participation in international conferences, workshops and seminar

National Polytechnic Institute (IPN) México

12.2013 - 01.2010

Electronic Properties of SiC nanoparticles:

Position: Researcher, Doctoral Candidate

Basic knowledge of ab-initio method (DFT)

Analysis of the electronic band structures and density of states of SiC nanoparticles

Support for Bachelor and Master students

Participation in international conferences and seminars

National Polytechnic Institute (IPN) México

08.2009 - 01.2007

Theoretical Physics Prof. Prof. M. Cruz-Irisson

Position: Researcher, M.Sc. Candidate, Focus Area Nanoscience and Nanotechnology

Basic knowledge about theoretical calculation (Tight Binding)

Basic knowledge about nanotechnology

Theoretical framework about nanomaterials

National Polytechnic Institute (IPN) México

08.2006 - 08.2009

Position: B. Sc, candidate

Basic knowledge about science

Design of software for the control of a PLC

PUBLICATIONS

Peer review publications international journals	9
Additional publications	4

AWARDS, GRANTS & HONOURS

Level I of National System of Researchers CONACyT (Mexico)	2015-2017
Posdoctoral Fellowship Scholarship CONACyT (Mexico)	2015-2017
Doctoral Scholarship CONACyT (Mexico)	2010-2014
M.Sc Scholarship CONACyT (Mexico)	2007-2009

TEACHING EXPERIENCE

Introduction to the Nanomedicine (From 08.2015 to 12.2015)

UNAM, Mexico

SKILLS

- **LENGUAGES**

1. Spanish: Mutter tongue
2. English: advanced
3. French: Basic

- **COMPUTER**

1. Data analysis: Origin, MS Excel
2. Text edition: LaTeX, MS Wor
3. Graphical design: Photoshop, paint shop pro
4. Advance design software: Materials studio software

APTITUDES

1. High adaptability
2. Leadership
3. Persistent
4. Teamwork

References

For further information on my CV, please contact:

1. Prof. Dr. Miguel Cruz Irisson
National Polytechnic Institute (IPN)
e-mail: irisson.ipn@gmail.com

2. Prof. Dr. Tessy Lopez
Metropolitan Autonomous University-Xochimilco (UAM-X)
e-mail: tessy3@prodigy.net.mx

List of publications

Publications in Indexed Journals with referee

1. “*Quantum Confinement Effects on Electronic Properties of Hydrogenated 3C–SiC Nanowires*” A. Miranda, *J.L. Cuevas*, A. E. Ramos and M. Cruz-Irisson, *Microelectronics Journal* **40**, 796-798 (2009).
2. “*Effects of Morphology on the Electronic Properties of Hydrogenated Silicon Carbide Nanowires*”, A. Miranda, *J.L. Cuevas*, A. E. Ramos and M Cruz- Irisson *Journal of Nano Research* **5**, 161-167 (2009).
3. “*Phonon band structure of porous Ge from ab initio supercell calculation*”, A. Trejo, *J.L. Cuevas*, R. Vázquez-Medina, M. Cruz-Irisson *Microelectronic Engineering* **90**, 141, (2012).
4. “*A Density Functional Theory study of chemical surface modification of β -SiC nanopores*” M. Calvino, A. Trejo, *J. L. Cuevas* and M. Cruz-Irisson. *Materials Science and Engineering B* **177**, 1482–1486, (2012).
5. “*Ab-initio modeling of oxygen on the surface passivation of 3C SiC nanostructures*” *J.L. Cuevas*, A. Trejo, M. Calvino, E. Carvajal, M. Cruz-Irisson *Applied Surface Science* **258**, 8360, (2012).
6. “*Ab-initio study of anisotropic and chemical surface modifications of β -SiC nanowires*” Alejandro Trejo, *José Luis Cuevas*, Fernando Salazar, Eliel Carvajal, Miguel Cruz-Irisson. *Journal of Molecular Modelling* **19**, 2043-2048 (2013).
7. “*Electronic structure and optical vibrational modes of 3C-SiC nanowires*” Alejandro Trejo, Miguel Ojeda, José Luis Cuevas, Álvaro Miranda, Luis A. Pérez, Miguel Cruz-Irisson. *International Journal of Nanotechnology*, 12, 3-4, (2015).
8. “*Release of copper complexes from a nanostructured sol–gel titania for cancer treatment*” Tessy López, Emma Ortiz-Islas, Patricia Guevara, Francisco Rodríguez-Reinoso, Esteban Gómez, José Luis Cuevas and Octavio Novaro. *Journal of Materials Science* **50**, 6 (2015). Doi: 10.1007/s10853-014-8796-9

9. “*First principles band gap engineering of [110] oriented 3C-SiC nanowires*”
José Luis Cuevas, Alejandro Trejo, Álvaro Miranda, Jesús Ramírez, Luis Antonio Pérez, and Miguel Cruz-Irisson. *Computational Materials Science* **142**, 268, (2018)

Total of citation = 42 according to google academic data base

Other publications

1. “*Inclusion of FeCl₃ in TiO₂ nanoparticles by Sol-Gel method to cancer treatment*”. T. López, A. Moreno, E. Ortiz-Islas, G. Pecchi, D. Bersani, P. P. Loticci, M. Montes, **J. L. Cuevas**, P. Alfaro, A. Morales and O. Novaro. *Materials Science and ingeenering C.*, **6**:1, (2015). Doi: 10.4172/2157-7439.1000255.
2. “*Histology Study of Wistar Rats Implanted With and Without C6 Cells and the Effect of NPt-Cu Nanoparticles*” Tessy López, Emma Ortiz Islas, Andrea Morales, **José Luis Cuevas**, Esteban Gomez, Joaquín Manjarrez, Patricia Guevara, Martha Lilia Tena, Aurora Sánchez, Pier Paolo Lottici, Danilo Bersani, Hugo Monroy and Octavio Novaro. *Nanomedicine & Biotherapeutic Discovery* **5**:4 (2015), Doi:10.4172/2155-983X.1000137
3. “*Preparation and Characterization of Antiepileptic Drugs Encapsulated in Sol-Gel Titania Nanoparticles as Controlled Release System*” López T, **Cuevas J L**, Jardón G, Gómez E, Ramírez P, Novaro O and Zavala-Tecuapetla C. *Medicinal chemistry*. **S**:2 (2015) DOI: 10.4172/2161-0444.1000003.
4. “*Ag/TiO₂-SiO₂ Sol Gel Nanoparticles to use in Hospital-Acquired Infections (HAI)*” López T, Jardón G, Gomez E, Gracia A, Hamdan A, **Luis Cuevas J**, Quintana P and Novaro O. *Material Science & Engineering*, 4:6 (2015) DOI:10.4172/2169-0022.1000196