



## Name

**RENÉ HOMERO LARA CASTRO**

Researcher, PhD

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SNI Level 1

## Education:

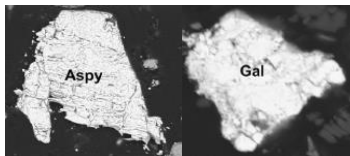
- Chemical Engineering, Bsc, Instituto Tecnológico de Aguascalientes (1996-2000)
- Chemical Engineering, Msc, Universidad Autónoma de San Luis Potosí (2001-2003)
- Minerals Engineering, PhD, Universidad Autónoma de San Luis Potosí (2003-2009)
- Postdoctoral Position, Universidad Autónoma Metropolitana-Iztapalapa (2009-2011)

## Professional Experience:

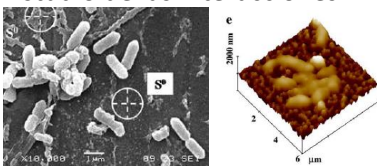
Teacher assistant, Universidad Autónoma de San Luis Potosí (2010-2012)

## Research Lines:

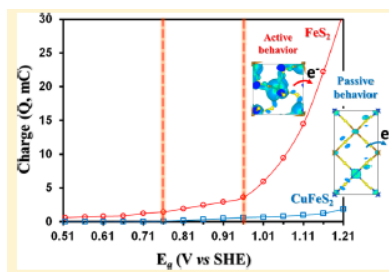
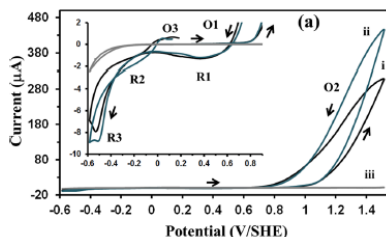
1. **Geoquímica Ambiental:** Evaluación y diagnóstico ambiental de sitios industriales y naturales contaminados.



2. **Bioteología Ambiental:** Estudio de las interacciones microorganismo-minerales.



3. **Ingeniería Ambiental:** Aplicaciones de la Electroquímica y la Caracterización de minerales para la resolución de problemas ambientales industriales.





### Selected Publications:

1. Lara, R. H., García-Meza, J. V., Cruz, R., Valdez-Pérez, D., & González, I. (2012). Influence of the sulfur species reactivity on biofilm conformation during pyrite colonization by *Acidithiobacillus thiooxidans*. *Applied Microbiology and Biotechnology*, 95(3), 799-809.
2. Lara, R. H., Briones, R., Monroy, M. G., Mullet, M., Humbert, B., Dossot, M., ... & Cruz, R. (2011). Galena weathering under simulated calcareous soil conditions. *Science of the Total Environment*, 409(19), 3971-3979.
3. Lara, R. H., Velázquez, L. J., Vazquez-Arenas, J., Mallet, M., Dossot, M., Labastida, I., ... & Cruz, R. (2015). Arsenopyrite weathering under conditions of simulated calcareous soil. *Environmental Science and Pollution Research*, in press.
4. Lara, R. H., Vazquez-Arenas, J., Ramos-Sanchez, G., Galvan, M., & Lartundo-Rojas, L. (2015). Experimental and Theoretical Analysis Accounting for Differences of Pyrite and Chalcopyrite Oxidative Behaviors for Prospective Environmental and Bioleaching Applications. *The Journal of Physical Chemistry C*, 119(32), 18364-18379.
5. Lara, R. H., Monroy, M. G., Mallet, M., Dossot, M., González, M. A., & Cruz, R. (2015). An experimental study of iron sulfides weathering under simulated calcareous soil conditions. *Environmental Earth Sciences*, 73(4), 1849-1869.

### Thesis Directed:

Undergraduates (7), Masters (1) y Doctorate (2)

1. Iván Ruiz Maldonado (FCQ-UJED, Undergraduate, finished)
2. Leticia de Jesús Velázquez Chávez (ITD, Undergraduate, finished)
3. Nidia Aurora Morales Morales (FCQ-UJED, Undergraduate, finished)
4. Geovana de Jesús García Dávila (FCQ-UJED, Undergraduate, finished)
5. David Martínez Flores (FCQ-UJED, Undergraduate, finished)
6. Ariana Guadalupe Rodríguez González (FCQ-UJED, Undergraduate, finished)
7. Alberto Soria Flores (FCQ-UJED, Undergraduate, finished)
8. Paola Valles Soto (ITD, Masters, in progress)
9. Yareli Anabel Sariñana Ruíz (DICAF-UJED, Doctorate, in progress)
10. Hugo Ramírez-Aldaba (DICAF-UJED, Doctorate, in progress)