

Enrique Quiroga-González

PERSONAL INFORMATION

Nationality: Mexican

Date and place of birth: 22 February 1980, Cd. Obregon, Sonora, Mexico

RFC: QUGE800222LP9. **CURP:** QUGE800222HSRRNN01

SNI 1



PROFESSIONAL

Jan 2014-

Professor/Researcher

Institute of Physics, Benemérita Universidad Autónoma de Puebla (BUAP). Puebla, Mexico.

Principal project: “Energy: Study of photoactive materials based on silicon and metallic sulfurs, and development of electrodes for lithium ion batteries”.

Jun 2010 – Jan 2014

Staff researcher

Institute for Materials Science (General Materials Science group), Christian-Albrechts-University of Kiel. Kiel, Germany.

Principal project: Silicon microwire arrays as anode material for Li-ion batteries.

Funded project: BMBF (STROM): AlkaSuSi (Alkaline metal, sulfur and silicon).

Activities: Leader of lithium ion battery research and clean room processes of the group.

Oct 2005 – Sep 2006

Research assistant

National Institute for Astrophysics, Optics and Electronics. Tonantzítla, Mexico.

Activities: Design, installation and test of an LPCVD furnace for microelectronics applications. Additional activities were the preparation of films and their analysis.

RESEARCH INTERESTS

- Production and characterization of photoactive materials.
- Micromachining of semiconductors.
- Li-ion batteries.
- Silicon Rich Oxide films and multilayers.
- Production of silicon nano- and micro-crystals.
- Solvothermal synthesis.

EDUCATION

Oct 2006 – Jun 2010

PhD in Inorganic Chemistry

Institute for Inorganic Chemistry, Christian-Albrechts-University of Kiel. Kiel, Germany.

Thesis: “Study of photoactive materials and structures based on compounds of the In-S system and in Silicon Rich Oxides.”

Advisors: Prof. Dr. Wolfgang Bensch, Dr. Mariano Aceves Mijares.

DAAD-CONACyT scholarship.

Magna Cum Laude.

Aug 2003 – Oct 2005 **MSc. in Microelectronics**
National Institute for Astrophysics, Optics and Electronics. Tonantzintla, Mexico.
Thesis: “Characterization of Si/SiO₂ superlattice prepared by LPCVD.”
Advisors: Dr. Zhenrui Yu, Dr. Mariano Aceves Mijares.
CONACyT Scholarship.
Score: 93/100.

Aug 1998 - May 2003 **BSc. Electronic engineering, specialty in digital systems**
Technological Institute of Hermosillo. Hermosillo, Mexico.
SEP Scholarship.
Score: 96/100.

Aug 1995 – May 1998 **High school**
Centro de Bachillerato Tecnológico Industrial y de Servicios N°11. Hermosillo, Mexico.
SEP Scholarship.
Score: 100/100.

LANGUAGES

Spanish: Mother language

English: Written and spoken 95%

German: Spoken 90%, written 90%

French: Spoken 50%, written 30%