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Bachelor and licenciado in physics

Facultad de Ciencias, Universidad Nacional de Ingeniería (UNI), 1993, 1994

Master in Sciences (Physics)

Silicon oxide for application in radiative cooling, Facultad de Ciencias, UNI, 1996

Filosofie Licenciatexamen

Sputter deposited Titanium Oxide Films for Photoelectrochemical Water purification
Uppsala University, Sweden, 1999

Doctor in physics

Películas de Oxido de Titanio Depositadas por Sputtering para Descontaminación
Fotoelectroquímica de Agua. Programe UNI- Uppsala University, Sweden, 2000

Filiations:

Principal Professor, Universidad Nacional de Ingeniería, Av. Tupac Amaru 210, Lima, Perú (2009-).

Associated Academic, Universidad de Tarapacá, Arica, Chile, Av. Gral. Velásquez 1775, Arica, Chile (2009-).

Publications within the last three years

- 1 José Diaz, Juan Rodríguez , Silvia Ponce, José Solís and Walter Estrada Solar photocatalytic decontamination of phenol using pyrolytic TiO₂ films deposited inside glass tubing,. Solar Journal of Solar Energy Engineering, 129 (2007) 94-99.
- 2 C. Luyo, L. Reyes, J.L.Solis, J. Rodriguez and W Estrada, Morphology Tailored SnO₂ thin films by spray gel process, Thin solids Films, 516 (2007) 25
- 3 J. Rodriguez, J.L. Solis, M. Gómez and W. Estrada, Surface Morphology Engineering of Metal-Oxide Films by Chemical Spray Pyrolysis, Physica Status Solidi (c) 4 (2007)4107
- 4 Silvia Ponce, Edward Carpio, Jackeline Venero, Walter Estrada, Juan Rodríguez, Titanium dioxide onto polyethylene for water decontamination, J. Adv. Oxid. Technol,12 (2009) 81-86
- 5 Juan Rodríguez, Clido Jorge, Patricia Zúñiga, Javier Palomino, Pedro Zanabria, José L. Solís and Walter Estrada, Solar water disinfection studies with supported TiO₂ and polymer-supported Ru(II) sensitizers in a compound parabolic collector, J. Solar Energy Engineering, J. Sol. Energy Eng 132 (2010) pp. 1-5.
- 6 Juan Rodríguez F. Paraguay-Delgado, Alcides López and Julio Alarcón, Synthesis and Characterization of ZnO Nanorods for Photocatalytic Water Disinfection, accepted in Thin Solid Films.

Main activities are devoted to the development and characterization of advanced functional materials prepared by vacuum and soft chemistry, for Photocatalytic water purification, using either solar radiation or artificial light. Prototypes for disinfection and arsenic remotion from water have been constructed and are currently under evaluation. Co-author of 22 publications in ISI indexed journals and 10 book chapters. With experience in national, regional and international projects devoted to the development of nanomaterials and technologies for water purification. **Prizes:** 2004 National Award for research in agriculture and environmental sciences (Peruvian National and Technology Council) and MERCOSUR PRICE 2006. **Associations:** Peruvian association of Solar Energy, Peruvian Society of Science and technology and the International Solar Energy Society (ISES).