

José García Cerrillo
Curriculum Vitae



Date and place of birth: May 24th, 1990
Morelia, Michoacán, México

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Education

- 2014-2016 M. Eng., Energy, with Honors, Institute for Renewable Energies, National Autonomous University of Mexico (UNAM)
- 2008-2013 B. Sc., Chemical Engineering, with Honors, Faculty of Chemical Engineering, Universidad Michoacana de San Nicolás de Hidalgo (UMSNH)

Publications

- 2017 García Cerrillo, J., Corpus Mendoza, A. N., Moreno Romero, P. M., Hernández-Granados, A., Hu, H., “Improvement of the morphological and electrical characteristics of Al³⁺, Fe³⁺ and Bi³⁺-doped TiO₂ compact thin films and their incorporation into hybrid solar cells”, *Mat. Sci. Semicon. Proc.* 2017, 72, 106-114.
- 2016 Hernández-Granados, A., Escorcia-García, J., Pérez-Martínez, D., García-Cerrillo, J., Menchaca-Campos, C., Hu, H., “Sb₂(S_xSe_{1-x})₃ sensitized solar cells prepared by solution deposition methods”, *Mat. Sci. Semicon. Proc.* 2016, 56, 222-227.

Awards and Honors

- 2014 Winner of the Prize “Dr. Santiago Cendejas Huerta” awarded by the Academy of Sciences of Michoacán for the best undergraduate thesis in the area of Biology and Chemistry.
- 2013 Winner of the Prize “Padre de la Patria” in virtue of having obtained the highest grade average in the 5th module of the Faculty of Chemical Engineering, UMSNH.

- 2013 Recipient of an Outstanding Performance recognition in the General Undergraduate Exit Exam of Chemical Engineering (EGEL-IQ) applied by the National Evaluation Center for Higher Education, A. C. (CENEVAL).
- 2012 Recipient of the silver medal in the 1st State Contest of Projects of Science and Technology “2012 Michoacán Exposciences” with the work entitled “Study of the adsorption of ethanol with magnesium phosphate hydrate”.
- 2010 Winner of the Prize “Padre de la Patria” in virtue of having obtained the highest grade average in the 2nd module of the Faculty of Chemical Engineering, UMSNH.
- 2009 Winner of the Prize “Padre de la Patria” in virtue of having obtained the highest grade average in the 1st module of the Faculty of Chemical Engineering, UMSNH.
- 2007 Winner of the 2nd place of the XVII State Olympiad of Chemistry, level B (General Chemistry), and member of the preliminary team that represented the state of Michoacán at the National Olympiad of Chemistry held at Oaxaca, Oaxaca, Mexico.

Participation in Conferences and Meetings

- 2017 Rodríguez-Castañeda, C. A., Moreno-Romero, P. M., Hernández-Granados, A., García-Cerrillo, J., Zhao-Hu, H., “Multi-grid front contact integration in perovskite hybrid solar cells”, oral presentation at the XXVI International Materials Research Congress, August 20-25, 2017, Cancún, Quintana Roo, México.
- 2017 Moreno-Romero, P. M., Corpus-Mendoza, A. N., Hernández-Granados, A., García-Cerrillo, J., Rodríguez-Castañeda, C. A., Zhao-Hu, H., “Strontium replacement in organometallic halide perovskite solar cells”, oral presentation at the XXVI International Materials Research Congress, August 20-25, 2017, Cancún, Quintana Roo, México.
- 2017 Torres-Herrera, D. M., Díaz-Cruz, E. B., Moreno-Romero, P. M., Baray-Calderón, A., Hernández-Granados, A., García-Cerrillo, J., Castillo-Palomera, R., Zhao-Hu, H., “Thermal evaporation of Bi₂S₃ ultra-thin films for hybrid solar cells applications”, oral presentation at the XXVI International Materials Research Congress, August 20-25, 2017, Cancún, Quintana Roo, México.
- 2017 García-Cerrillo, J., Moreno-Romero, P. M., Martínez-Alonso, C., Hernández-Granados, A., Castelo-González, O. A., Zhao-Hu, H., “Development of Al³⁺ and Fe³⁺ co-doped TiO₂ compact films and their application in hybrid solar cells with a mixed tin-lead perovskite and Sb₂S₃ photoabsorbing nanoparticles”, poster presented at the 2017 Materials Research Society (MRS) Spring Meeting & Exhibit, April 17-21, 2017, Phoenix, Arizona, U. S. A.
- 2017 Hernández-Granados, A., Escorcía-García, J., Pérez-Martínez, D., García-Cerrillo, J., Menchaca-Campos, C., Zhao-Hu, H., “Towards the improvement of the antimony sulfide-selenide sensitized solar cells- Effect of mesoporous TiO₂ annealing and CdS interlayer”, poster presented at the 2017 Materials Research Society (MRS) Spring Meeting & Exhibit, April 17-21, 2017, Phoenix, Arizona, U. S. A.
- 2016 Hernández-Granados, A., Escorcía-García, J., Perez-Martinez, D., Hu, H., Menchaca-Campos, E. C., García-Cerrillo, J., “Photovoltaic performance of solid state heterojunctions with Sb₂S_xSe_{3-x} sensitized mesoporous TiO₂ layers”, poster presented

- at the 2016 Materials Research Society (MRS) Spring Meeting & Exhibit, March 28-April 1, 2016, Phoenix, Arizona, U. S. A.
- 2015 García-Cerrillo, J., Moreno-Romero, P. M., Baray-Calderón, A., Hu, H., “Impact on the conductivity of double-layer compact TiO₂ photoanodes through chemical modification with trivalent cations”, poster presented at the 2015 Materials Research Society (MRS) Fall Meeting & Exhibit, November 29-December 4, 2015, Boston, Massachusetts, U. S. A.
 - 2015 Moreno-Romero, P. M., Rodriguez, C. A., García-Cerrillo, J., Contreras, A., Martinez, C., Hu, H., “Study of potential inhibitors to limit degradation of organometallic halides perovskites”, poster presented at the 2015 Materials Research Society (MRS) Fall Meeting & Exhibit, November 29-December 4, 2015, Boston, Massachusetts, U. S. A.
 - 2012 Alejo-Guerra, D., Castillo-Estrada, G., García-Cerrillo, J., Campuzano-Calderón, O., Serna-González, M., Ponce-Ortega, J. M., “Rigorous Optimization of Cooling Towers using Genetic Algorithms”, poster presented at the XXXIII National Meeting and II International Congress of the Mexican Academy of Research and Teaching in Chemical Engineering (AMIDIQ). May 2012, San José del Cabo, Baja California Sur, México. Conference Proceedings’ ISBN: 978-607-507-121-3.
 - 2012 García-Cerrillo J., Saucedo-Luna, J., Castro-Montoya, A. J., “Study of the adsorption of ethanol with magnesium phosphate hydrate”, poster presented at the XXXIII National Meeting and II International Congress of the Mexican Academy of Research and Teaching in Chemical Engineering (AMIDIQ). May 2012, San José del Cabo,

Research-related and Professional activities

- 2013 Professional trainee at the food company Saporis Comercial S. A. de C. V. in the area of Research, Product Development and Technical Service.
- 2012 Participant in the XXII Summer of Scientific Research of the Mexican Academy of Sciences (AMC) with a research stay at the Superior School of Chemical Engineering and Extractive Industries of the National Polytechnic Institute.
- 2011 Participant in the XVI Summer of Scientific and Technological Pacific’s Research (*Delfin* program) with a research stay at the Faculty of Chemical Engineering, UMSNH.
- 2009 Member of the Coordination for the Scientific and Technological Promotion “Youth Technosciences” and Assistant Coordinator in the II State Contest of Science and Technology “2009 Morelia Youth Technosciences”.