

## PUBLICACIONES CONGRESOS

2021

1. SWC 2021, "Evaluation of the cooling process of thermal storage tanks with  $\text{LiNO}_3\text{-NaNO}_3\text{-KNO}_3$  ternary mixture as working fluid for CSP plants" **Mauro Henriquez**, Christian Suárez, Magin Mendoza, **Abdiel Mallco**, Carlos Duran, Carlos Soto, Carlos Portillo, Javier Pino.
2. SWC 2021, "FLUID DYNAMIC ANALYSIS INSIDE A SOLAR SALTS PRILLING TOWER USING A EULERIAN-LAGRANGIAN APPROACH" **Mauro Henriquez**, **Abdiel Mallco**, Carlos Soto, Carlos Duran, Gerardo Matamoros, Victor Tabilo, Mauricio Lague.
3. SolarPACES 2021, "Energy Evaluation of Different Materials with Low Melting Point for Solar Thermal Storage" : **Mauro Henriquez**, Carlos Soto, **Abdiel Mallco**, Carlos Duran, Luis Guerreiro.
4. SolarPACES 2021, "Advances Sun-Tracking Control for an Innovative Linear Fresnel Collector": Ginés García, Andrés Egea, Loreto Valenzuela, **Diego Pulido-Iparraguirre**, José Liria.
5. SWC 2021, "Assessment of the Atmospheric Extinction for Solar Tower Plants along the Sun Belt: Preliminary Results": **Aitor Marzo**, Alois Salmon, Jesus Polo, Jesus Ballestrín, Joaquín Alonso-Montesinos, **Diego Pulido**.
6. SWC 2021, Characterization of changes in the soiling properties and deposition rates because of groundworks near a PV plant": **D.Olivares**, **A.Marzo P.Ferrada**, V.Del Campo, J.Llanos , E. Pilat, D.Muñoz y **E.Fuentealba**.

2020

1. Urrejola, E., Valencia, F., **Fuentealba, E.**, Deline, C., Pelaez, S. A., Meydbray, J., ... Stein, J. S. (2020). bifiPV2020 Bifacial Workshop : A Technology Overview bifiPV2020 Bifacial Workshop : A Technology Overview. (October). <https://doi.org/10.2172/1710156>
2. Mohamed,A. Pilat, E. **Olivares, D. Marzo**, A.Urrejola, E. "On the Impact of Soiling on Energy Production in the Atacama Desert, in the Frame of ATAMOSTEC", EU PVSEC 2020.

2019

1. Lelièvre, J., Cabrera, E., Hladys, B., Gutierrez, V., **Ferrada, P.**, Muñoz, D., & Derrier, A. (2019). Development of Ultra-Accelerated Ageing Tests for Improved Reliability and Durability of Bifacial Photovoltaic Modules in Harsh Desert Conditions. 36th European PV Solar Energy Conference and Exhibition. Retrieved from <https://www.eupvsec-proceedings.com/proceedings?fulltext=LELIEVRE&paper=48402>
2. **D. Olivares, M.Trigo-González, A.Marzo, P.Ferrada**, J.Llanos, **F.Araya**, G.Lopez , J.Polo, J.Alonso-Montesinos, C.Gueymard. Analisis of the local factors that influence the cementation of soil and effects on PV generation at the Plataforma Solar Del Desierto de Atacama. Solar word congress, 04-07 Nov 2019, Santiago, Chile.
3. **G.Mondaca, M.Trigo-Gonzalez, A.Marzo**, J.Alonso, J.Barberos, G.Salazar, **D. Olivares, P.Ferrada**. UV-A Estimation in Atacama Desert from GHI measurements by using ANN. Solar word congress, 04-07 Nov 2019, Santiago, Chile.
4. A. Salmon, G.Quiñones, **G. Soto**, C.Gueymard, M. Ibarra, J.Cardemil, R. Escobar, **A. Marzo**. Advance in the aerosol optical depth evaluation from broaband direct normal irradiance measurements. Solar word congress, 04-07 Nov 2019, Santiago, Chile.
5. **M.Cortes , M.Trigo-Gonzalez, P.Ferrada**, J.Batlles ,J.Alonso. On the estimation of energy production in PV plants. A comparative study of methologies. Solar word congress, 04-07 Nov 2019, Santiago, Chile.
6. **D.Olivares, P.Ferrada, A. Marzo**, J.Llanos. Efectos del soiling en operación de sistemas fotovoltaicos. Exponor ,27-30 may 2019, Antofagasta, Chile.
7. Gabriel López, Sergio M. Sarmiento-Rosales, Christian A. Gueymard, **Aitor Marzo**, Joaquín Alonso-Montesinos, Jesús Polo, Nuria Martín-Chivelet, **Pablo Ferrada**, Javier Barbero, Francisco J. Batlles, Nieves Vela. Effect of Cloudiness on Solar Radiation Forecasting. Solar word congress, 04-07 Nov 2019, Santiago, Chile.
8. J. Alonso-Montesinos, J. Barbero, F. J. Batlles, F. Rodríguez-Martínez, G. López, J. Polo, N. Martín-Chivelet, M. Alonso, N. Vela, **A. Marzo, P. Ferrada, M. Cortés**. Relevance analysis of atmospheric variables in the production of an experimental pv power plant considering dust deposition in the mediterranean coast. Solar word congress, 04-07 Nov 2019, Santiago, Chile.
9. Behar, O., Sbarbaro, S., **Marzo, A.**, Moran, L. The use of solar radiation models to derive atmospheric turbidity: an inter-comparison and potential of kasten's method. Solar word congress, 04-07 Nov 2019, Santiago, Chile.
10. Jesús Polo, Miguel Alonso-Abella, Nuria Martín-Chivelet, Joaquín Alonso-Montesinos, Gabriel López, **Aitor Marzo**. Characterization of

- pv soiling losses in urban mediterranean environment. Solar world congress, 04-07 Nov 2019, Santiago, Chile.
11. Stefan Wilbert, Wilko Jessen, Anne Forstinger, Anton Driesse, Aron Habte, Manajit Sengupta, **Aitor Marzo**, Frank Vignola, Luis Zarzlejo. Application of the Clear Sky Spectral Error for Radiometer Classification in ISO 9060. Solar world congress, 04-07 Nov 2019, Santiago, Chile.
  12. Abdiel Mallco, Angel G. Fernandez, Johannes Preußner, Carlos Portillo, "Corrosion and Mechanical assessment in LiNO<sub>3</sub> molten salt as Thermal Energy Storage material in CSP plants". Solar World Congress (SWC2019), Santiago, Chile, 4-7 November 2019.
  13. Abel Taquichiri, Abdiel Mallco, Alan Almendras, Miguel Ruiz, Carlos Portillo, "Techno-Economic Analysis of a PV (Photovoltaic) Plant for High Radiation Conditions from the Altiplanic of Bolivia". Solar World Congress (SWC2019), Santiago, Chile, 4-7 November 2019.
  14. Mauro Henríquez, Edward Fuentealba, Carlos Soto, Angel G. Fernandez, "Proposal for the development of Chilean LiNO<sub>3</sub> as thermal energy storage material for CSP plants". Solar World Congress (SWC2019), Santiago, Chile, 4-7 November 2019.
  15. **M. Cortés-Carmona**, M. Cortés-Olivares, **J. Vega**, and J. Guevara-Cedeño, "Generation planning model including frequency stability constrains to mitigate large-scale integration of photovoltaic plants," in 2019 IEEE PES Conference on Innovative Smart Grid Technologies, ISGT Latin America 2019, 2019, pp. 1–6, doi: 10.1109/ISGT-LA.2019.8895478

## 2018

1. **P. Ferrada**, G. Serrano, C. M. Ostojic, A. Maureira, M. Zapata, E. Fuentealba. Magnetic Fields for Cell Cultures suspended in a perturbed diamagnetic Medium. Proceedings de la Presentación conferencia COMSOL Conference 2018, Lausanne, Suiza.
2. D. Diaz Almeida, **P. Ferrada**, **A. Marzo**, E. Cabrera, E. Urrejola, D. Espinoza, R. Castillo, J. Llanos, **C. Portillo**. Theoretical Calculation of the Photo-generated Current Density by Using Optical Path-length Enhancement Factor for Si-based PV Devices in the Atacama Desert. 2018 IEEE 45th Photovoltaic Specialists Conference (PVSC), June 10-15, 2018 Waikoloa, Hawaii.
3. D. Rudolph, A. Adrian, J. Lossen, **P. Ferrada**, **C. Portillo**, V. Del Campo, J. Correa, R. Sierpe, M. Javier Kogan. Influence of the paste volume on the contact formation in fine line metallization. 2018 IEEE 45th Photovoltaic Specialists Conference (PVSC), June 10-15, 2018 Waikoloa, Hawaii.

4. E. Cabrera, F. Araya, A. Schneider, **A. Marzo**, R. Roescu, J. Rabanal, **P. Ferrada**, P. Ayala, D. Berrian, J. Libal, E. Fuentealba, R. Kopecek. AtaMoS TeC Project: Soiling Impact on Bifacial Modules with Different Mounting Geometry in the Atacama Desert in Chile. 2018 IEEE 45th Photovoltaic Specialists Conference (PVSC), June 10-15, 2018 Waikoloa, Hawaii.
5. P. Ayala, C. Muñoz, N. Osorio, C. Hernandez, F. Zurita, V. Gutierrez, G. Ramirez, P. Valdivia, F. Mancilla, F. Cuevas, **P. Ferrada**. Bifacial Technology Performance Compared with Three Commercial Monofacial PV Technologies under Outdoor High Irradiance Conditions at the Atacama Desert. 2018 IEEE 45th Photovoltaic Specialists Conference (PVSC), June 10-15, 2018 Waikoloa, Hawaii.
6. **A. Mallco**, Angel G. Fernandez, Effect of corrosion behavior of 430 ferritic stainless steels in contact with eutectic nitrate salts and analysis with electrochemical impedance spectroscopy for concentrated solar power plant applications, IWILIME 2018.
7. **M. Henriquez**, A. Mallco, C. Soto, A. G. Fernández, "Lithium based molten salt melting process optimization at pilot plant scale, IWILIME 2018, Santiago Chile.
8. **A. Mallco**, Angel G. Fernandez, "Lithium nitrate assessment in ternary molten salts as thermal energy storage material for CSP plants, Foro Solar EnerSOL 2018.
9. **D.Olivares\***, **P.Ferrada**, **C. Portillo**, **A. Marzo**, J.Llanos. "Influential factors in the deposition of soiling on photovoltaic modules in the Plataforma Solar del desierto de Atacama" 7° Seminario de difusión de la ingeniería , Antofagasta 2018 ,Chile
10. **D.Olivares\***, **P.Ferrada**, **C. Portillo**, **A. Marzo**, J.Llanos " Atmospheric parameters that influence the deposition of soiling. ENERSOL, Chile, Santiago 2018. Chile.
11. **D.Olivares\***, **P.Ferrada**, **C. Portillo**, **A. Marzo**, J.Llanos. "Influential factors in the deposition of soiling on photovoltaic modules in the Atamaca Desert" , 5th International Workshop on Lithium, Industrial Minerals and Energy IWILiME, Santiago 2018. Chile
12. **M. Trigo-Gonzalez**, F.J. Batlles, **C. Portillo**, **P. Ferrada**, G. López, **M. Cortés**, S. Rosie, J. Alonso-Montesinos, F.J. Barbero, J. Polo, N. Martín **A. Marzo**. "Estimación de la producción eléctrica de una planta fotovoltaica utilizando modelos estadísticos y redes neuronales artificiales". XVI Congreso Ibérico y XII Congreso Iberoamericano de Energía Solar (**CIES 2018**), Madrid, España.
13. **M. Trigo-Gonzalez**, **A. Marzo**, J. Alonso-Montesinos, **M. Cortés**, **C. Portillo**, F.J. Batlles. "One Year of Quality Measurements at PSDA Meteorological Station". 4° Foro Solar (**ENERSOL 2018**), Santiago, Chile.
14. **M. Trigo-Gonzalez**, **A. Marzo**, F.J. Batlles. "Estimación de la Producción Eléctrica de una Planta fotovoltaica utilizando modelos

- estadísticos en el desierto de Atacama". 7º Seminario de difusión de la investigación en la facultad de Ingeniería **2018**, Antofagasta, Chile.
15. **M. Cortés-Carmona, J. Vega**, and M. Cortés-Olivares, "Power flow algorithm for analysis of distribution networks including distributed generation," in IEEE PES Transmission & Distribution Conference and Exhibition - Latin America (T&D-LA), 2018, pp. 1–5.
  16. [4] D. Ortiz-Villalba, **J. Vega-Herrera**, J. Llanos-Proaña, and C. Mayol-Cotapos, "Stochastic unit commitment with transmission constraint using self-organized maps ( SOM ) for scenarios reduction," in IEEE International Autumn Meeting on Power, Electronics and Computing (ROPEC), 2018, pp. 1–6.

## 2017

17. D. Diaz, **P. Ferrada**, A. Sanz Martinez, N. Yurrita, O. Zubillaga. "Evaluation of Antireflection and Antisoiling Coatings for PV Modules In the Atacama Desert". 33rd EU PVSEC 2017, 25-29 September 2018, Amsterdam-The Netherlands, pp. 1391-1395. Session: 5CO.5.3.
18. Daniel Sbarbaro, Ruben Peña, Edward Fuentealba. "Model-based soiling estimation in parabolic solar concentrators. SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2017), Santiago, Chile, 26-29 September 2017.
19. J. Ballestrín, R. Monterreal, M. E. Carra, J. Fernández-Reche, J. Polo, R. Enrique, J. Rodríguez, M. Casanova, F. J. Barbero, J. Alonso-Montesinos, G. López, J. L. Bosch, F. J. Batlles, **A. Marzo**. "Novel Measurement System for Solar Extinction". SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2017), Santiago, Chile, 26-29 September 2017.
20. J. Alonso-Montesinos, J. Fernández-Reche, F. J. Barbero, R. Monterreal, R. Enrique, J. Polo, G. López, J. Ballestrín, **A. Marzo**, J. L. Bosch, E. Carra, F. J. Batlles. "A first approach of the direct normal irradiance forecasting in the receiver of a central tower combining remote sensing techniques and solar power plant models". SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2017), Santiago, Chile, 26-29 September 2017.
21. **A. Marzo**, J. Polo, S. Wilbert, C. Gueymard, W. Jessen, P. Ferrada, J. Alonso-Montesinos, J. Ballestrín. "Sunbelt Spectra comparison with

- Standard ASTM G173: the Chilean case". SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2017), Santiago, Chile, 26-29 September 2017.
22. J. Ballestrín, M. E. Carra, R. Enrique, R. Monterreal, J. Fernández-Reche, J. Polo, M. Casanova, F. J. Barbero, **A. Marzo**. "Characterization of a Lambertian Target for Measurement Techniques on Solar Concentration". SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2017), Santiago, Chile, 26-29 September 2017.
  23. **A. Marzo**, Luis F. Zarzalejo, Mercedes Ibarra, Ana A. Navarro, Gonzalo Soto, Lourdes Ramirez, Rodrigo Escobar, Manuel Silva. "Towards the Chilean Solar Thermal Potential Knowledge for Solar Power Tower Plants". SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2017), Santiago, Chile, 26-29 September 2017.
  24. CNIT Congreso internacional de Ingeniería Termodinámica "Electrochemical impedance spectroscopy monitoring technique on thermal energy storage materials for CSP plants"2017. Authors: **Angel G. Fernández**, A. Mallco.
  25. SolarPACES Conference, Santiago de Chile "Opportunities of lithium nitrate as TES material in CSP plants: Thermal characterization and LCOE projection. **Angel G. Fernández**, Mauro Henriquez, Cristobal Parrado, L. Guerreiro, M. Collares Pereira", 2017.
  26. SolarPACES Conference, Santiago de Chile "Dynamic corrosion tests comparison: Dynamic reactor vs high temperature pilot plant scale setup for Chilean LiNO<sub>3</sub> containing molten salt" **A. G. Fernández**, M. Henriquez, A. Mallco, B. Muñoz-Sánchez, J. Nieto-Maestre. 2017.
  27. SolarPACES Conference, Santiago de Chile "Corrosion mitigation advances for promising alumina forming alloys applied to TES materials for CSP plants". **Angel G. Fernández**, Judith Gomez-Vidal, 2017.
  28. **A. Gallo**, H. González-Camarillo, M.I. Roldán, C. Pérez-Rábago, **E. Alonso**. Thermal Behavior and Heat-Flux Distribution in a Solar Rotary Kiln. Presentado en el congreso SolarPaces 2017, Santiago de Chile.
  29. **A. Gallo**, R. Pérez-Enciso, **D. Pulido**, C. Pérez-Rábago. Strategies of optical aiming to achieve uniform heat-flux distributions on a solar

receiver of a linear Fresnel concentrator. Presentado en el congreso SolarPaces 2017, Santiago de Chile.

30. **M. Trigo-González, A. Marzo**, J. Alonso-Montesino, F.J. Batlles. Desarrollo de modelos físico para la estimación de la irradiación diaria en zonas desérticas a partir de datos de temperaturas extremas. Presentación en el congreso III foro solar ENERSOL 2017, Antofagasta de Chile.
31. **M. Trigo-González, A. Marzo, F.J. batlles, M. Cortes. E. Fuentealba.** poster "Daily global solar radiation estimation in desert areas using daily extreme temperatures and extraterrestrial radiation". presentación 1° Wokshop Thermal Energy Storage and Molten salt corrsion, Antofagasta de Chile.
32. **Angel G. Fernandez**, M. Henriquez. Abdiel Mallco, Carlos Soto, "Li based salt for TES applied to CSP plants" 1° Wokshop Thermal Energy Storage and Molten salt corrosion, Antofagasta de Chile.
33. **M. Henriquez**, Angel G. Fernandez, "Viscosity measurements of different LiNO<sub>3</sub> purity grade for LiNO<sub>3</sub>-NaNO<sub>3</sub>-KNO<sub>3</sub> mixtures for TES applications in Concentrated Solar Power" 1° Wokshop Thermal Energy Storage and Molten salt corrosion, Antofagasta de Chile.
34. Potential of solar central tower systems for thermal applications in the production chain of copper by pyrometallurgical route. Irving Cruz, Alfonso J. Vazquez Vaamonde, Elisa Alonso, Carlos Pérez-Rábago, Claudio Estrada. **23 SolarPACES Conference**. Santiago de Chile. Chile. 26-29 September 2017
35. Isothermal and non-isothermal kinetics of metal oxide redox reactions performed in a solar furnace. Elisa Alonso, Carlos Pérez-Rábago. **23 SolarPACES Conference**. Santiago de Chile. Chile. 26-29 September 2017
36. **Douglas Olivares, Pablo Ferrada, Aitor Marzo**, Camila de Matos, **Carlos Portillo**. Enrique Cabrera, J. Llanos. Characterization of soiling on PV modules in the Atacama Desert. Silicon PV 2017.Freiburg. Germany. 03-06 Abril.
37. **Douglas Olivares, Pablo Ferrada, Aitor Marzo**, Camila de Matos, **Carlos Portillo**, J. Llanos. Poster " physical chemical characterization of soiling on PV modules in the Atacama Desert Workshop Thermal Energy Storage and Molten Salt Corrosion, 2017, Antofagasta, Chile

38. C. Rahmann, **J. Vega**, and F. Valencia, "Validity range of fundamental frequency simulations under high levels of variable generation technologies," in X Bulk Power Systems Dynamics and Control Symposium, IREP, 2017, pp. 1–6.
39. **J. Vega**, C. Rahmann, and F. Valencia, "Stability assessments in systems with high levels of photovoltaic generation," in ENERSOL, 2017, pp. 1–5.

## 2016

40. **P. Ferrada**, **A. Marzo**, E. Cabrera, H. Chu, J. Rabanal, A. Schneider. "Performance of c-Si Photovoltaic Devices Based on Optical Measurements and Spectral Irradiance in the Atacama Desert". EU PVSEC 2016, Munich, Germany.
41. Enrique Cabrera, Andreas Schneider, Eckard Wefringhaus, Jorge Rabanal, **Pablo Ferrada**, Diego Thaller, **Francisco Araya**, et all. "Advances in the Development of "AtaMo": Solar Modules Adapted for the Climate Conditions of the Atacama Desert in Chile- the Impact of Soiling and Abrasion", EUPVSEC 2016, Munich, June 2016. Session 5BO.11.5.
42. **Araya Francisco**, Ferrda Pablo, Rabanal Jorge, Marzo Aitor, Fuentealba Edward. "Performance Analysis of Photovoltaic System installed at different sites in the Atacama Desert". Presentation at the "32nd European Photovoltaic Solar Energy Conference and Exhibition" (EUPVSEC 2016), Munich, June 2016. Session 5CO.14.6.
43. **A. Marzo**, F. Beiza, J. Alonso-Montesinos, R. Román, **P. Ferrada**. "Comparison of Atacama desert solar spectrum vs. ASTM G173-03 reference spectra for solar energy applications" 11th ISES EUROSUN Conference, Palma de Mallorca (Spain) 11-14 October 2016 (accepted as Oral Presentation).
44. J. Alonso-Montesinos, **A. Marzo**, et al. "The influence of sahara dust particles in the direct normal irradiance estimation through a total sky camera" 11th ISES EUROSUN Conference, Palma de Mallorca (Spain) 11-14 October 2016 (accepted as Oral Presentation).
45. Eurosun Conference "Corrosion evaluation advances for promising TES materials in alumina forming alloys", 2016 Palma de Mallorca (Spain), Authors: **Angel G. Fernandez**, M. Henriquez
46. **A. Gallo**, M.I. Roldán, **E. Alonso**, **E. Fuentealba**, Considerations for using a rotary kiln for high temperature industrial processes with and without thermal storage, in: ISES EuroSun Conf., Palma de Mallorca (Spain), 2016.
47. **E. Alonso**, **A. Gallo**, H. Galleguillos, Solar thermal energy use in lead acid batteries recycling industry: A preliminary assessment of the



- potential in Spain and Chile, in: ISES EuroSun Conf., Palma de Mallorca (Spain), 2016.
48. **A. Mallico, Marcelo Cortes**, Estudio del Efecto Altura en un Sistema de Empaque de Baterías de Ion Litio, ENERSOL 2015.
  49. A. Mallico, Marcelo Cortes, Equivalent circuits of cylindrical lithium-ion batteries for different cases of generation sources, IWILIME 2016.

## 2015

50. E. Cabrera, A. Schneider, J. Rabanal, **P. Ferrada**, R. Cordero, **E. Fuentealba**, R. Kopecek. "Advancements in the development of AtaMo: a solar module adapted for the climate conditions of the Atacama Desert in Chile". EU PVSEC 2015, Hamburg, Germany.
51. J. Ballestrín, R. Monterreal, M. E. Carra, J. Fernández-Reche, F. J. Barbero, **A. Marzo**. "Measurement of solar extinction in tower plants with digital cameras" SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2015), Cape Town, Southafrica, 11-14 October 2015.
52. J. Ballestrín, J. Rodríguez, M. E. Carra, I. Cañadas, M. I. Roldán, F. J. Barbero, **A. Marzo**. "Pyrometric method for measuring emittances at high temperatures" SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2015), Cape Town, Southafrica, 11-14 October 2015.
53. Jorge F. Servert, Eduardo Cerrajero, and **Edward L. Fuentealba**. "Synergies of solar energy use in the desalination of seawater: A case study in northern Chile". SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2015), Cape Town, Southafrica, 11-14 October 2015.
54. **Gallo A., Guillaume M., Fuentealba E.**, "Validation of a solar thermal pilot plant model for copper mining processes". ISES Solar World Congress 2015. EXCO, Daegu, Korea. 8 -12 November 2015.
55. **Alonso E., Marzo A., Gallo A., Fernandez A., Guillaume M., Ferrada P., Fuentealba E.**, "Progress in solar energy R&D in northern chile: the solar platform of the atacama desert project and ongoing activities". ISES Solar World Congress 2015. EXCO, Daegu, Korea. 8 - 12 November 2015.
56. **Elisa Alonso**, Carlos Pérez-Rábago y Edward Fuentealba. "Thermodynamic study of CuO/Cu<sub>2</sub>O and Co<sub>3</sub>O<sub>4</sub>/CoO redox pairs for solar energy thermochemical storage". SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2015), Cape Town, Southafrica, 11-14 October 2015.

57. **Alessandro Gallo, Elisa Alonso, Ricardo Pérez-Enciso, Edward Fuentealba** y Carlos Pérez-Rábago. "Numerical approach to the flux distribution effect on a solar rotary kiln performance". SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2015), Cape Town, South Africa, 11-14 October 2015.
58. **P. Ferrada, C. Parrado, A. Marzo, C. Portillo, E. Fuentealba**. "The Solar Platform of the Atacama Desert, Chile: Natural laboratory for in situ tests and applications of solar technologies". Symposium on Energy, Efficiency and Sustainability (EES2015), at Berlín, Germany. 31-July and 1-August, 2015.
59. **Ferrada, P.**; Varas, T.; Araya, F.; **Marzo, A.**; Fuentealba, E. "Evaluation of solar resource and environmental conditions in the coastal line of Atacama Desert (Chile) for the implementation of photovoltaic plants"; Conference: International Conference on Environment and Renewable Energy 2015, At Vienna, Austria. 20, 21 May, 2015.
60. **P. Ferrada**, F. Araya, T. Varas, A. González, C. Parrado, D. Olivares, A. Marzo, C. Portillo, E. Fuentealba. "Performance comparison of Photovoltaic Systems in Antofagasta". CEST+I Workshop on Sustainable Mining Solutions for Chile and EU. Santiago, Chile. 4 May, 2015.
61. SolarPACES Conference, Cape Town (South Africa) "Thermophysical Properties and Corrosion Characterization of Low Cost Lithium Containing Nitrate Salts Produced in Northern Chile for Thermal Energy Storage", 2015. Authors: **A. G. Fernández**, J. Gomez, H. Galleguillos, E. Fuentealba

## 2014

62. Jorge F. Servert, Eduardo Cerrajero, **Edward L. Fuentealba** "Feasibility of a CSP power plant in Chile under a PPA model, the role of soft financing and upfront grant". SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2014), Beijing, China, 16-19 September 2014
63. **Marzo A.** "Estudios de Solarimetría. Impacto del polvo y suciedad en tecnología solar" In Workshop: Potencialidades y Aplicaciones de Módulos Fotovoltaicos Flexibles. Antofagasta, Chile. 14 November, 2014
64. **Marzo A.**, Ballestrín J., Barbero J. "A Solar-Blind IR Camera for Solar Furnaces" In: IWLIME, 1st International Workshop in Lithium, Industrial Minerals and Energy. Antofagasta, Chile, 8-10 January, 2014

65. SolarPACES Conference, Beijing (China) “Modular solar storage system for medium scale energy demand mining in the North of Chile”, 2014, Authors: **A.G. Fernández**, R. Carbajo, M. Crutchik, H. Galleguillos, E. Fuentealba
66. SolarPACES Conference, Beijing (China) “Thermal stability of solar salts from North of Chile and variations of their properties over time at high temperature”, 2014. Authors: **A.G. Fernández**, S. Veliz, R. Carbajo, H. Galleguillos
67. SolarPACES Conference, Beijing (China) “Mainstreaming Outreach in solar research. Experiences in CSP R&D”, 2014. Authors: R. Carbajo, **A.G. Fernandez**, G. Hayashida
68. Eurotherm Seminar, Lleida (Spain). “Thermophysical characterization of new molten salt formulation for Direct Thermal Energy Storage Systems in Parabolic Trough Plants”, 2014. Authors: **A.G. Fernández**, S. Veliz, H. Galleguillos.
69. **A. Gallo, E. Alonso, D. Pulido, E. Fuentealba**, Análisis tecn-económico de soluciones integrales de habitabilidad en emplazamientos mineros de las regiones del norte de Chile basadas en envolventes modulares con acondicionamiento solar por absorción, in: XI Congr. Iberoam. Energía Sol., 2014.

## 2013

70. J. Servert, A. Labanda, **E. Fuentealba**, M. Cortes, R. Pérez “Quality Function Deployment analysis for the selection of four utility-scale solar energy projects in northern Chile” . SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2013), Las Vegas, USA, 17-20 September 2013.
71. J.F. Servert, E. Cerrajero, **E. Fuentealba**, M. Cortes. “Assessment of the impact of financial and fiscal incentives for the development of utility-scale solar energy projects in northern Chile. SolarPACES International Symposium on Concentrated Solar Power and Chemical Energy Technologies (SolarPACES2013), Las Vegas, USA, 17-20 September 2013.
72. SolarPACES Conference, Las Vegas (USA). “Impurity influence in physico-chemical and corrosion properties of Chilean solar nitrates”, 2013. Authors: **A.G. Fernandez**, M. Grageda, H. Galleguillos.