

POSTER Presentations

by the conference topics

***Please consider that the three posters selected by the Scientific Committee will be granted "PVCon2020 Poster Award" with the prize of 100 Euro for each one.**

***PVCon2020 Poster Awards will be announced at 18:45 in the second day of PVCon2020 (Dec 1, 2020).**

SILICON SOLAR CELLS

Nardin Avishan (METU-GÜNAM, Turkey)

"Periodic surface texturing of silicon by photoelectrochemical etching for photovoltaics"

İsmail Kabaçelik (Bartın University, Turkey)

"The effect of aging on c-Si solar cells exposed to 8 MeV electrons irradiation"

Behrad Radfar (METU-GÜNAM, Turkey)

"Effect of high illumination on industry compatible single crystalline silicon PERC solar cell"

Elif Sarıgül Duman (METU-GÜNAM, Turkey)

"Fabrication of black silicon via reactive ion etching: Effect of pre-etching treatment on superior uniformity in large scale"

Hasan Asav (METU-GÜNAM, Turkey)

"Comparative evaluation of rear local contact patterns for p-type mono crystalline silicon PERC solar cells"

Emine Hande Çiftçınar (METU-GÜNAM, Turkey)

"A study on contamination detection and trace for various cell structures fabricated in clean room environment"

Deniz Türkay (METU-GÜNAM, Turkey)

"Airbrush coated PEDOT:PSS back contacts for silicon solar cells"

Ergi Dönerçark (METU-GÜNAM, Turkey)

"Wide band gap a-SiCx:H passivation layer for the application of silicon heterojunction (SHJ) solar cells"

Deniz Türkay (METU-GÜNAM, Turkey)

"Utilizing wet chemically grown silicon oxides for surface passivation of silicon by PEDOT:PSS"

Sâlar H. Sedani (METU-GÜNAM, Turkey)

"Complications and analytical solutions for ToF-SIMS characterization of silicon-based solar cells"

Mona Zolfaghari Borra (METU-GÜNAM, Turkey)

"Emitter formation by ion implantation method for n-type black silicon"

Sâlar H. Sedani (METU-GÜNAM, Turkey)

"Tailored doping profile with commercial nanosecond laser for low-cost PV industrial applications"

THIN FILM SOLAR CELLS

Çiğdem Doğru (METU-GÜNAM, Turkey)

“Device characterization of physically evaporated CdS/CdZnTe thin films for solar cell application”

Elif Peksu (İstanbul Technical University, Turkey)

“Fabrication and characterization of ZnO nanorods based CZTS superstrate solar cells”

Ceren Korkut (METU-GÜNAM, Turkey)

“Dynamics of self-healing mechanism of laser crystallized Si thin films”

Esra Kuş (Bursa Uludağ University, Turkey)

“Growth and characterization of Mn doped ZnS thin films for photovoltaic applications”

Muhammed Aktaş (Eskişehir Technical University, Turkey)

“Characterization of GaAs thin-film solar cell structures grown by molecular beam epitaxy technique on Si substrates for flexible thin film solar cell applications”

Ayşe Küçükarslan (Bursa Uludağ University, Turkey)

“Optical and structural studies of ZnS:Ni films for solar cell applications”

Ali Büyükpınar (Eskişehir Technical University, Turkey)

“Fabrication and characterization of epitaxial lift-off processed GaAs thin film solar cells hetero-epitaxially grown on Si substrates”

PEROVSKITE SOLAR CELLS & ORGANIC AND DYE SENSITIZED PV

Kerem Artuk (ETH Zurich, Switzerland)

“Development of CVD process for PVD-CVD deposited (Cs_{0.04}FA_{0.96})PbI₃ perovskite absorbers”

Oğuzhan Karakurt (Middle East Technical University, Turkey)

“Synthesis, characterization, and photovoltaic properties of dithienyl benzoxadiazole based polymers for high performance organic solar cells”

Sultan Taşkaya Aslan (Middle East Technical University, Turkey)

“2D-benzodithiophene-benzotriazole copolymers for efficient organic solar cells: Effect of different side groups on photovoltaic performance”

PV MODULE PERFORMANCE AND RELIABILITY & INDOOR AND OUTDOOR TESTING & POWER ELECTRONICS IN PV SYSTEMS

Meriç Çalışkan (Kalyon PV, Turkey)

"The roadmap of cell to module (CTM) conversion loss analysis of mono PERC bifacial glass-glass modules"

Ersin Karacabey (Tekirdağ Viticulture Research Institute, Turkey)

"Air and water based photovoltaic panel cooling systems"

Abdellatif Bouaichi (IRESEN, Morocco)

"Propagation of cracks in standard cell and half-cell photovoltaic technology"

Safin H. Bayes (Texas A&M University, Qatar)

"Low-cost, stand-alone, in-situ PV curve tracer"

Rabah Benkercha (University of Médéa, Algeria)

"New decision tree controller for MPPT based on fuzzy logic controller data"

Sawsan Shukri (Texas A&M University, Qatar)

"Non-planar photovoltaic testbed based on in-situ parameter extraction for PV simulation & emulation"

Ahmed F. Kasse (University of Médéa, Algeria)

"A grid-connected photovoltaic power conversion system with solid-state transformer"

Morcos Metry (Texas A&M University, Qatar)

"Sizing of differential power processing converters based on statistical modeling for non-planar photovoltaic applications"

Wesam Rohouma (College of the North Atlantic, Qatar)

"Voltage profile enhancement using capacitor-less D-STATCOM to increase PV penetration in distribution network under transient cloud conditions"

Fatima Al-Janahi (Texas A&M University, Qatar)

"Characterizing DC arcs for photovoltaic arc fault detection"

Talat Özden (METU-GÜNAM, Turkey)

"Long term assessment of two on-grid PV systems for nine years"

ECONOMICS OF SOLAR PV

Nabila Elbeheiry (Texas A&M University, Qatar)

"Technoeconomic evaluation of residential PV systems in oil/gas rich economies: A case study of Qatar & Texas"

Caner Pense (METU / Bandırma Onyedi Eylül University, Turkey)

"Using renewable energy on electric vessels in coastal regions"

Raimon Bawazir (Ege University, Turkey)

"Improving measured horizontal solar radiation data: The case study - Asia continent"

Muratcan Işıldak (Genç Düşünce Enstitüsü, Turkey)

"Green and Sustainable Energy"