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Kişisel Bilgiler

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Publons / Web Of Science ResearcherID: ABH-1887-2021

ScopusID: 57203152448

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Eğitim Bilgileri

Doktora, Orta Doğu Teknik Üniversitesi, Rektörlük, Türkiye 2017 - 2022

Akademik Unvanlar / Görevler

Öğretim Görevlisi Dr., Orta Doğu Teknik Üniversitesi, Rektörlük, Rektörlük, 2020 - Devam Ediyor

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Interfacial modification by 2-fluoroisonicotinic acid enabling high-efficiency and stable n-i-p perovskite solar cells**
Sun L., Zhang C., Bektaş G., Li X., Ma C., Ma T.
Solar Energy Materials and Solar Cells, cilt.278, 2024 (SCI-Expanded)
- II. **Influence of boron doping profile on emitter and metal contact recombination for n-PERT silicon solar cells**
BEKTAŞ G., Aslan S., Keçeci A. E., Özyahni V., Canar H. H., Asav H., Seyrek S., Verlinden P. J., TURAN R.
Solar Energy Materials and Solar Cells, cilt.272, 2024 (SCI-Expanded)
- III. **Development of Low-Cost c-Si-Based CPV Cells for a Solar Co-Generation Absorber in a Parabolic Trough Collector**
Aydin E., Buchroithner A., Felsberger R., Preßmair R., Azgın A., TURAN R., Keçeci A. E., BEKTAŞ G., AKINOĞLU B. G.
Energies, cilt.17, sa.12, 2024 (SCI-Expanded)
- IV. **A comparative study on alternative industrial manufacturing routes for bifacial n-PERT silicon solar cells**
BEKTAŞ G., Seyrek S., Keçeci A. E., Aslan S., Özyahni V., Canar H. H., Asav H., Kaplan Y. M., TURAN R.
Progress in Photovoltaics: Research and Applications, cilt.31, sa.10, ss.1016-1022, 2023 (SCI-Expanded)
- V. **On the passivation performance of SiNx, SiOxNy and their stack on c-Si wafers for solar cell applications: Correlation with optical, chemical and interface properties**
Canar H. H., Bektaş G., Turan R.
SOLAR ENERGY MATERIALS AND SOLAR CELLS, cilt.256, ss.1-6, 2023 (SCI-Expanded)
- VI. **High carrier lifetimes in UMG multicrystalline wafers after P- diffusion compatible with high-efficiency cell structures**

Dasilva-Villanueva N., Arikian B., Canar H. H., Fuertes Marron D., Hong B., Kececi A. E., Butuner S. K., Bektas G., Turan R., del Canizo C.

SOLAR ENERGY MATERIALS AND SOLAR CELLS, cilt.250, 2023 (SCI-Expanded)

VII. Impact of ion implantation and annealing parameters on bifacial PERC and PERT solar cell performance

Siddiqui A., Bektaş G., Nasser H., Turan R., Usman M.

Sustainable Energy Technologies and Assessments, cilt.53, 2022 (SCI-Expanded)

VIII. Simplified process flow for the fabrication of PERC solar cells with ion implanted emitter

Bektas G., Kokbudak G., Kececi A. E., Butuner S. K., Asav H., Ciftpinar E. H., Canar H. H., Arikian B., Turan R.

Renewable Energy, cilt.179, ss.2295-2299, 2021 (SCI-Expanded)

IX. Guideline for Optical Optimization of Planar Perovskite Solar Cells

Koc M., Soltanpoor W., Bektas G., Bolink H. J., Yerci S.

Advanced Optical Materials, cilt.7, sa.23, 2019 (SCI-Expanded)

X. Electrical, optical and surface characterization of reactive RF magnetron sputtered molybdenum oxide films for solar cell applications

Mehmood H., BEKTAŞ G., YILDIZ İ., Tauqeer T., Nasser H., TURAN R.

MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, cilt.101, ss.46-56, 2019 (SCI-Expanded)

XI. Mechanical and optical properties of SiO₂ thin films deposited on glass

Simurka L., Ctvrtlik R., Tomastik J., Bektas G., Svoboda J., Bange K.

Chemical Papers, cilt.72, sa.9, ss.2143-2151, 2018 (SCI-Expanded)

Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. The effect of SiN_x:H stoichiometry on electrical and chemical passivation of Al₂O₃/SiN_x:H stack layer on p-type silicon wafers

Canar H. H., BEKTAŞ G., Keçeci A. E., Asav H., Bütüner S. K., Arıkan B., TURAN R.

12th International Conference on Crystalline Silicon Photovoltaics, SiliconPV 2022, Hybrid, Konstanz, Almanya, 28 - 30 Mart 2022, cilt.2826

II. Optimization of front and rear surface dielectric passivation layers for ion implanted PERC solar cells

BEKTAŞ G., Canar H. H., Keçeci A. E., Asav H., Seyrek S., Bütüner S. K., TURAN R.

12th International Conference on Crystalline Silicon Photovoltaics, SiliconPV 2022, Hybrid, Konstanz, Almanya, 28 - 30 Mart 2022, cilt.2826

III. Effect of Implanted Phosphorus Profile on iVoc Variations During Firing Process of n-type Silicon

BEKTAŞ G., ÇİFTPINAR E. H., Bütüner S. K., Keçeci A. E., Canar H. H., Kökbudak G., Asav H., TURAN R.

11th International Conference on Crystalline Silicon Photovoltaics, SiliconPV 2021, Hamelin, Virtual, Almanya, 19 - 23 Nisan 2021, cilt.2487

IV. Selective Emitter Formation via Laser Doping with Picosecond Pulsed Laser for High-Efficiency PERC Solar Cells

ASAV H., BEKTAŞ G., TURAN R.

38th European Photovoltaic Solar Energy Conference and Exhibition (EU PVSEC), Almanya, 06 Eylül 2021, ss.271-273

V. Comparison of Electrical Performances of Fully Ion Implanted n-PERT Solar Cells Made of Different n-Type Wafer Feedstocks

BEKTAŞ G., TURAN R.

38th European Photovoltaic Solar Energy Conference and Exhibition (EU PVSEC), Almanya, 6 - 10 Eylül 2021, ss.281-282

VI. Performance Enhancement of PERC Solar Cell with SiO_xN_y Back Surface Passivation by Low Temperature Annealing Process

KEÇECİ A. E., BEKTAŞ G., TURAN R.

38th European Photovoltaic Solar Energy Conference and Exhibition (EU PVSEC), Almanya, 06 Eylül 2021, ss.257-260

- VII. **Effect of surface morphology on passivation quality of Al₂O₃/SiN_x stack layer for PERC solar cell**
KOÇAK BÜTÜNER S., BEKTAŞ G., TURAN R.

38th European Photovoltaic Solar Energy Conference and Exhibition (EU PVSEC), Almanya, 06 Eylül 2021, ss.291-292

- VIII. **Effect of Doping Profile on Contact Resistivity Between Screen Printed Ag/Al and Implanted Boron Emitter**

EGE Ö., BEKTAŞ G., TURAN R.

38th European Photovoltaic Solar Energy Conference and Exhibition (EU PVSEC), Almanya, 06 Eylül 2021

- IX. **Comparative Evaluation of Rear Local Contact Patterns for P-Type Mono Crystalline Silicon PERC Solar Cell**

Asav H., BEKTAŞ G., Kececi A. E., Kokbudak G., Arıkan B., TURAN R.

2nd International Conference on Photovoltaic Science and Technologies, PVCon 2020, Ankara, Türkiye, 30 Kasım - 02 Aralık 2020

Metrikler

Yayın: 20

Atıf (WoS): 70

Atıf (Scopus): 95

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H-İndeks (Scopus): 4