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Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Annealing-free, electron-selective ohmic contacts using zirconium oxide and aluminum for n-type crystalline silicon solar cells**
Madbouly L. A., Nasser H., Borra M. Z., ÇİFTPINAR E. H., Altiner G., Aliefendioglu A., Canar H. H., TURAN R., ÜNALAN H. E.
Materials Science in Semiconductor Processing, vol.176, 2024 (SCI-Expanded)
- II. **Optical light management by self-arrangement of inverted tetragonal pyramids on the silicon surface through copper-assisted etching technique in a single step**
Donercark E., Çolakoğlu T., Terlemezoğlu M., Abak M. K., Çiftpinar E. H., Bek A., Turan R.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.15, pp.24322-24331, 2022 (SCI-Expanded)
- III. **Fourteen percent efficiency ultrathin silicon solar cells with improved infrared light management enabled by hole-selective transition metal oxide full-area rear passivating contacts**
Nasser H., Borra M. Z., Çiftpinar E. H., Eldeeb B., Turan R.
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- IV. **Simplified process flow for the fabrication of PERC solar cells with ion implanted emitter**
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- V. **Nanosphere Concentrated Photovoltaics with Shape Control**
Esmaeilzad N. S., Demir A. K., Hajivandi J., Ciftpinar H., Turan R., Kurt H., Bek A.
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- VI. **Angular Dependence of Solar Cell Parameters in Crystalline Silicon Solar Cells Textured with Periodic Array of Microholes**
Altinoluk S., Kumar N., ÇİFTPINAR E. H., Demircioglu O., TURAN R., Vasileska D.
GLOBAL CHALLENGES, vol.4, no.9, 2020 (SCI-Expanded)
- VII. **Enhanced metal assisted etching method for high aspect ratio microstructures: Applications in silicon micropillar array solar cells**
Baytemir G., ÇİFTPINAR E. H., TURAN R.
SOLAR ENERGY, vol.194, pp.148-155, 2019 (SCI-Expanded)
- VIII. **CZTSSe thin films fabricated by single step deposition for superstrate solar cell applications**
TERLEMEZOĞLU M., Surucu O. B., Dogru C., Gullu H. H., ÇİFTPINAR E. H., Ercelebi C., PARLAK M.
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- IX. Performance of solar cells fabricated on black multicrystalline Si by nanowire decoration**
Es F., Çiftınar E. H., Demirciođlu O., Gönöven M., Kulakci M., Turan R.
APPLIED SURFACE SCIENCE, vol.332, pp.266-271, 2015 (SCI-Expanded)

Articles Published in Other Journals

- I. Periodic micro hole texturing with metal assisted chemical etching for solar cell applications: dependence of etch rate on orientation**
ALTINOLUK H. S., ÇİFTPINAR E. H., demirciođlu o., TURAN R.
Journal of Materials Science and Nanotechnology, 2017 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. 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, Germany, 19 - 23 April 2021, vol.2487
- II. Laser induced periodic surface structured c-Si solar cell with more than 16% efficiency**
Goodarzi A., Candemir O., Nasser H., Borra M. Z., Genc E., ÇİFTPINAR E. H., BEK A., TURAN R., PAVLOV I.
2021 European Conference on Lasers and Electro-Optics, CLEO/Europe 2021, Virtual, Online, Germany, 21 - 25 June 2021

Supported Projects

TURAN R., HOSSEINI A., ÇİFTPINAR E. H., ES F., Project Supported by Higher Education Institutions, Silisyum nanotellerin üretim mekanizmalarının anlaşılması ve güneş gözelerine uygulanması, 2014 - 2014
TURAN R., ÇİFTPINAR E. H., ES F., Project Supported by Higher Education Institutions, Yüksek Verimli Seçici Yayıc Güneş Gözesi (Selective Emitter Solar Cell) Geliştirilmesi, 2013 - 2013

Metrics

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Citation (Scopus): 145
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