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Research Areas

Energy, Physics, Physical Chemistry, Materials Science, Engineering and Technology

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A Thienothiophene-Based Cation Treatment Allows Semitransparent Perovskite Solar Cells with Improved Efficiency and Stability**
Gunes U., Bag Celik E., Akgül C., Koc M., Ameri M., Uzuner B. E., Ghasemi M., Şahiner M. C., Yıldız I., Kaya H. Z., et al.
ADVANCED FUNCTIONAL MATERIALS, vol.31, no.42, 2021 (SCI-Expanded)

II. **ZnO-SrAl2O4:Eu Nanocomposite-Based Optical Sensors for Luminescence Thermometry**
Ghahrizjani R. T., Ghafarkani M., Janghorban S., AMERİ M., Azadinia M., Mohajerani E., Qaryan M., Eslami P., Fouladinasab H.
ACS APPLIED NANO MATERIALS, vol.4, no.9, pp.9190-9199, 2021 (SCI-Expanded)

III. **Optical design of TCO-free interconnecting layer for all-perovskite tandem solar cells**
Koc M., AMERİ M., YERCİ S.
Applied Physics Letters, vol.119, no.2, 2021 (SCI-Expanded)

IV. **Maximizing the performance of single and multijunction MA and lead-free perovskite solar cell**
Azadinia M., AMERİ M., Ghahrizjani R., Fathollahi M.
Materials Today Energy, vol.20, 2021 (SCI-Expanded)

V. **Solvent selection for fabrication of low temperature ZnO electron transport layer in perovskite solar cells**
Ahmadi S. H., Ghaffarkani M., Ameri M., Safari N., Mohajerani E.
OPTICAL MATERIALS, vol.106, 2020 (SCI-Expanded)

VI. **Ultra-High Precision Radiation Dosimetry via Laser Bleaching the Color Centers in Fast Recovery Optical Fiber Sensors**
Ghahrizjani R. T., Ameri M., Jahanbakhsh H., Sadeghi H., Mohajerani E.
IEEE SENSORS JOURNAL, vol.20, no.11, pp.5935-5942, 2020 (SCI-Expanded)

VII. **Phenomenological morphology design of hybrid organic-inorganic perovskite solar cell for high efficiency and less hysteresis**
Ameri M., Ghaffarkani M., Ghahrizjani R. T., Safari N., Mohajerani E.

SOLAR ENERGY MATERIALS AND SOLAR CELLS, vol.205, 2020 (SCI-Expanded)

VIII. **A sequential condensation route as a versatile platform for low cost and efficient hole transport materials in perovskite solar cells**
Pashaei B., Shahroosvand H., Ameri M., Mohajerani E., Nazeeruddin M. K.
JOURNAL OF MATERIALS CHEMISTRY A, vol.7, no.38, pp.21867-21873, 2019 (SCI-Expanded)

IX. **The investigation of the unseen interrelationship of grain size, ionic defects, device physics and performance of perovskite solar cells**
Ameri M., Mohajerani E., Ghafarkani M., Safari N., Alavi S. A.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.52, no.12, 2019 (SCI-Expanded)

X. **Role of Stabilizing Surfactants on Capacitance, Charge, and Ion Transport in Organic Nanoparticle-Based Electronic Devices**
Ameri M., Al-Mudhaffer M. F., Almyahi F., Fardell G. C., Marks M., Al-Ahmad A., Fahy A., Andersen T., Elkington D. C., Feron K., et al.
ACS APPLIED MATERIALS & INTERFACES, vol.11, no.10, pp.10074-10088, 2019 (SCI-Expanded)

XI. **Low noise ultraviolet photodetector with over 100% enhanced lifetime based on polyfluorene copolymer and ZnO nanoparticles**
Azadinia M., Fathollahi M., Ameri M., Shabani S., Mohajerani E.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.135, no.31, 2018 (SCI-Expanded)

XII. **Self-Assembled ZnO Nanosheet-Based Spherical Structure as Photoanode in Dye-Sensitized Solar Cells**
Ameri M., Raoufi M., Zamani-Meymian M. -., Samavat F., Fathollahi M. -., Mohajerani E.
JOURNAL OF ELECTRONIC MATERIALS, vol.47, no.3, pp.1993-1999, 2018 (SCI-Expanded)

XIII. **An alternate method to extract performance characteristics in dye sensitized solar cells**
Ameri M., Mohajerani E., Samavat F., Raoufi M.
OPTIK, vol.154, pp.640-655, 2018 (SCI-Expanded)

XIV. **Organic/Organic Heterointerface Engineering to Boost Carrier Injection in OLEDs**
Fathollahi M., Ameri M., Mohajerani E., Mehrparvar E., Babaei M.
SCIENTIFIC REPORTS, vol.7, 2017 (SCI-Expanded)

XV. **A modeling recipe to optimize the nanostructure excitonic Dye Sensitized Solar Cells (DSSCs)**
Ameri M., Mohajerani E., Samavat F.
JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS, vol.19, no.1-2, pp.38-47, 2017 (SCI-Expanded)

XVI. **Interfacial modification to optimize stainless steel photoanode design for flexible dye sensitized solar cells: an experimental and numerical modeling approach**
Taleghani S. S., Meymian M. R. Z., Ameri M.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.49, no.40, 2016 (SCI-Expanded)

XVII. **Facile realization of efficient blocking from ZnO/TiO2 mismatch interface in dye-sensitized solar cells and precise microscopic modeling adapted by circuit analysis**
Ameri M., Samavat F., Mohajerani E., Fathollahi M.
JOURNAL OF PHYSICS D-APPLIED PHYSICS, vol.49, no.22, 2016 (SCI-Expanded)

XVIII. **Fabrication and analysis of dye-sensitized solar cells (DSSCs) using porphyrin dyes with catechol anchoring groups**
Adineh M., Tahay P., Ameri M., Safari N., Mohajerani E.
RSC ADVANCES, vol.6, no.18, pp.14512-14521, 2016 (SCI-Expanded)

XIX. **A semi-empirical analysis of dye adsorption and electron transport in dye sensitized solar cells (DSSCs)**
Ameri M., Samavat F., Mohajerani E.
RSC ADVANCES, vol.5, no.112, pp.92690-92706, 2015 (SCI-Expanded)

XX. **Dye-Sensitized Nanocrystalline ZnO Solar Cells Based on Ruthenium(II) Phendione Complexes**
Shahroosvand H., Abbasi P., Ameri M., Dehkordi A. R. R.
INTERNATIONAL JOURNAL OF PHOTOENERGY, vol.2011, 2011 (SCI-Expanded)

Metrics

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Citation (WoS): 214
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H-Index (Scopus): 9