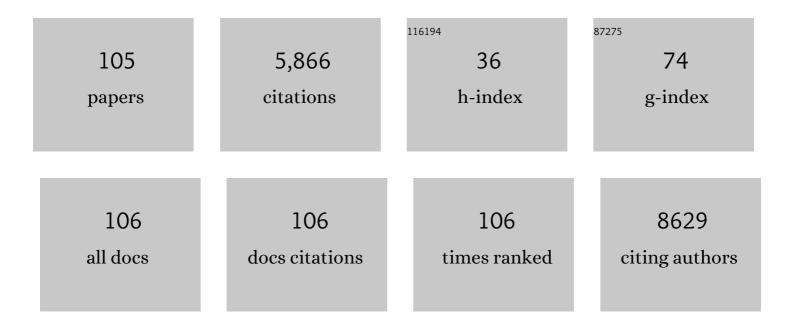
List of Publications by Year in descending order

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Δεήρλε Πορινί

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Recognizing Hand Gestures Using Solar Cells. IEEE Transactions on Mobile Computing, 2023, 22, 4223-4235. | 3.9 | 2 |
| 2 | Progress and Challenges of SnO ₂ Electron Transport Layer for Perovskite Solar Cells: A Critical Review. Solar Rrl, 2022, 6, . | 3.1 | 44 |
| 3 | Organic solar cells. , 2022, , 25-55. | | 6 |
| 4 | Defects and stability of perovskite solar cells: a critical analysis. Materials Chemistry Frontiers, 2022, 6, 400-417. | 3.2 | 68 |
| 5 | Increased Efficiency of Organic Solar Cells by Seeded Control of the Molecular Morphology in the Active Layer. Solar Rrl, 2022, 6, . | 3.1 | 5 |
| 6 | Solar Perovskite Technologies. , 2022, , . | | 1 |
| 7 | Progress in Semitransparent Organic Solar Cells. Solar Rrl, 2021, 5, 2100041. | 3.1 | 44 |
| 8 | Ternary organic solar cells based on non-fullerene acceptors: A review. Organic Electronics, 2021, 90, 106063. | 1.4 | 62 |
| 9 | Stability Issues of Perovskite Solar Cells: A Critical Review. Energy Technology, 2021, 9, 2100560. | 1.8 | 31 |
| 10 | Thermal annealing dependent dielectric properties and energetic disorder in PffBT4T-2OD based organic solar cells. Materials Science in Semiconductor Processing, 2020, 105, 104750. | 1.9 | 7 |
| 11 | Tradeâ€Off between Exciton Dissociation and Carrier Recombination and Dielectric Properties in Y6â€Sensitized Nonfullerene Ternary Organic Solar Cells. Energy Technology, 2020, 8, 1900924. | 1.8 | 32 |
| 12 | Trendsetters in Highâ€Efficiency Organic Solar Cells: Toward 20% Power Conversion Efficiency. Solar Rrl, 2020, 4, 1900342. | 3.1 | 66 |
| 13 | Small molecular material as an interfacial layer in hybrid inverted structure perovskite solar cells. Materials Science in Semiconductor Processing, 2020, 108, 104908. | 1.9 | 8 |
| 14 | Interface Modification Enabled by Atomic Layer Deposited Ultraâ€Thin Titanium Oxide for Highâ€Efficiency and Semitransparent Organic Solar Cells. Solar Rrl, 2020, 4, 2000497. | 3.1 | 15 |
| 15 | Highâ€Efficiency Nonfullerene Organic Solar Cells Enabled by Atomic Layer Deposited Zirconiumâ€Đoped Zinc Oxide. Solar Rrl, 2020, 4, 2000241. | 3.1 | 18 |
| 16 | Optimising Non-Patterned MoO3/Ag/MoO3 Anode for High-Performance Semi-Transparent Organic Solar Cells towards Window Applications. Nanomaterials, 2020, 10, 1759. | 1.9 | 20 |
| 17 | Balance between Energy Transfer and Exciton Separation in Ternary Organic Solar Cells with Two Conjugated Polymer Donors. ACS Applied Energy Materials, 2020, 3, 5792-5803. | 2.5 | 27 |
| 18 | The Air Effect in the Burnâ€In Thermal Degradation of Nonfullerene Organic Solar Cells. Energy Technology, 2020, 8, 1901401. | 1.8 | 20 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Progress in Stability of Organic Solar Cells. Advanced Science, 2020, 7, 1903259. | 5.6 | 308 |
| 20 | Thiocyanate assisted nucleation for high performance mix-cation perovskite solar cells with improved stability. Journal of Power Sources, 2020, 466, 228320. | 4.0 | 29 |
| 21 | Burn-In Degradation Mechanism Identified for Small Molecular Acceptor-Based High-Efficiency Nonfullerene Organic Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 27433-27442. | 4.0 | 38 |
| 22 | Semitransparent organic solar cells based on PffBT4T-2OD with a thick active layer and near neutral colour perception for window applications. Sustainable Energy and Fuels, 2019, 3, 2456-2463. | 2.5 | 24 |
| 23 | Solution-processed WO3 and water-free PEDOT:PSS composite for hole transport layer in conventional perovskite solar cell. Electrochimica Acta, 2019, 319, 349-358. | 2.6 | 44 |
| 24 | Optimisation of annealing temperature for low temperature processed inverted structure Caesium Formamidinium Lead Triiodide perovskite solar cells. Materials Science in Semiconductor Processing, 2019, 102, 104580. | 1.9 | 17 |
| 25 | SolarGest. , 2019, , . | | 45 |
| 26 | Encapsulation of Organic and Perovskite Solar Cells: A Review. Coatings, 2019, 9, 65. | 1.2 | 197 |
| 27 | Progress in non-fullerene acceptor based organic solar cells. Solar Energy Materials and Solar Cells, 2019, 193, 22-65. | 3.0 | 89 |
| 28 | Comparative study of light- and thermal-induced degradation for both fullerene and non-fullerene-based organic solar cells. Sustainable Energy and Fuels, 2019, 3, 723-735. | 2.5 | 36 |
| 29 | Non-Fullerene-Derivative-Dependent Dielectric Properties in High-Performance Ternary Organic Solar Cells. IEEE Journal of Photovoltaics, 2019, 9, 1031-1039. | 1.5 | 14 |
| 30 | Comparative analysis of burn-in photo-degradation in non-fullerene COi8DFIC acceptor based high-efficiency ternary organic solar cells. Materials Chemistry Frontiers, 2019, 3, 1085-1096. | 3.2 | 31 |
| 31 | Degradation Mechanism Identified for the Fullerene and Non-fullerene based Organic Solar Cells under Ambient Condition. , 2019, , . | | 0 |
| 32 | Surface Passivation on PEDOT:PSS in conventional perovskite solar cells. , 2019, , . | | 0 |
| 33 | Low-temperature processed efficient and colourful semitransparent perovskite solar cells for building integration and tandem applications. Organic Electronics, 2019, 65, 401-411. | 1.4 | 39 |
| 34 | Passivation of interstitial and vacancy mediated trap-states for efficient and stable triple-cation perovskite solar cells. Journal of Power Sources, 2018, 383, 59-71. | 4.0 | 40 |
| 35 | Highly crystalline bilayer electron transport layer for efficient conjugated polymer solar cells. Current Applied Physics, 2018, 18, 505-511. | 1.1 | 9 |
| 36 | Effect of annealing dependent blend morphology and dielectric properties on the performance and stability of non-fullerene organic solar cells. Solar Energy Materials and Solar Cells, 2018, 176, 109-118. | 3.0 | 60 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Data of chemical analysis and electrical properties of SnO2-TiO2 composite nanofibers. Data in Brief, 2018, 18, 860-863. | 0.5 | 2 |
| 38 | Cesium compounds as interface modifiers for stable and efficient perovskite solar cells. Solar Energy Materials and Solar Cells, 2018, 174, 172-186. | 3.0 | 44 |
| 39 | V2O5 -PEDOT: PSS bilayer as hole transport layer for highly efficient and stable perovskite solar cells. Organic Electronics, 2018, 53, 66-73. | 1.4 | 63 |
| 40 | Annealing induced microstructure engineering of antimony tri-selenide thin films. Materials Research Bulletin, 2018, 99, 232-238. | 2.7 | 19 |
| 41 | Bilayer SnO ₂ as Electron Transport Layer for Highly Efficient Perovskite Solar Cells. ACS Applied Energy Materials, 2018, 1, 6027-6039. | 2.5 | 88 |
| 42 | Relationship Between the Diode Ideality Factor and the Carrier Recombination Resistance in Organic Solar Cells. IEEE Journal of Photovoltaics, 2018, 8, 1701-1709. | 1.5 | 43 |
| 43 | Effects of Hydroiodic Acid Concentration on the Properties of CsPbl ₃ Perovskite Solar Cells. ACS Omega, 2018, 3, 11937-11944. | 1.6 | 83 |
| 44 | MoS2 incorporated hybrid hole transport layer for high performance and stable perovskite solar cells. Synthetic Metals, 2018, 246, 195-203. | 2.1 | 49 |
| 45 | Electrospun 3D composite nano-flowers for high performance triple-cation perovskite solar cells. Electrochimica Acta, 2018, 289, 459-473. | 2.6 | 20 |
| 46 | Realizing 11.3% efficiency in PffBT4T-2OD fullerene organic solar cells via superior charge extraction at interfaces. Applied Physics A: Materials Science and Processing, 2018, 124, 1. | 1.1 | 9 |
| 47 | Optimization of conjugated polymer blend concentration for high performance organic solar cells. Journal of Materials Science: Materials in Electronics, 2018, 29, 16437-16445. | 1.1 | 5 |
| 48 | Enhanced electron transport enables over 12% efficiency by interface engineering of non-fullerene organic solar cells. Solar Energy Materials and Solar Cells, 2018, 187, 273-282. | 3.0 | 35 |
| 49 | Ternary blend organic solar cells with a non-fullerene acceptor as a third component to synergistically improve the efficiency. Organic Electronics, 2018, 62, 261-268. | 1.4 | 25 |
| 50 | Adsorbed carbon nanomaterials for surface and interface-engineered stable rubidium multi-cation perovskite solar cells. Nanoscale, 2018, 10, 773-790. | 2.8 | 31 |
| 51 | Perovskite Solar Cells. Materials and Energy, 2018, , 285-367. | 2.5 | 1 |
| 52 | Dopamine-Induced Growth of Au and Ag Nanoparticles on ITO Substrate and Their Application in PCPDTBT-Based Polymer Solar Cell. Plasmonics, 2017, 12, 345-351. | 1.8 | 8 |
| 53 | Optical modelling of P3HT:PC71BM semi-transparent organic solar cell. Optical and Quantum Electronics, 2017, 49, 1. | 1.5 | 11 |
| 54 | Controlled nucleation assisted restricted volume solvent annealing for stable perovskite solar cells. Solar Energy Materials and Solar Cells, 2017, 167, 70-86. | 3.0 | 39 |

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| # | Article | IF | CITATIONS |
|----|--|-------------------|----------------------|
| 55 | Controlled Ostwald ripening mediated grain growth for smooth perovskite morphology and enhanced device performance. Solar Energy Materials and Solar Cells, 2017, 167, 87-101. | 3.0 | 36 |
| 56 | Photostability of plasma polymerized Î ³ -terpinene thin films for encapsulation of OPV. Scientific Reports, 2017, 7, 45599. | 1.6 | 27 |
| 57 | Interfacial engineering of electron transport layer using Caesium Iodide for efficient and stable organic solar cells. Applied Surface Science, 2017, 416, 834-844. | 3.1 | 30 |
| 58 | Organic solar cells with near 100% efficiency retention after initial burn-in loss and photo-degradation. Thin Solid Films, 2017, 636, 127-136. | 0.8 | 13 |
| 59 | Plasmonics in Organic and Perovskite Solar Cells: Optical and Electrical Effects. Advanced Optical Materials, 2017, 5, 1600698. | 3.6 | 76 |
| 60 | Dark carrier dynamics and electrical characteristics of organic solar cells integrated with Ag-SiO2 core-shell nanoparticles. Synthetic Metals, 2017, 223, 34-42. | 2.1 | 4 |
| 61 | High performance semitransparent organic solar cells with 5% PCE using non-patterned MoO 3 /Ag/MoO 3 anode. Current Applied Physics, 2017, 17, 298-305. | 1.1 | 59 |
| 62 | High-Efficiency Semitransparent Organic Solar Cells with Non-Fullerene Acceptor for Window Application. ACS Photonics, 2017, 4, 2327-2334. | 3.2 | 95 |
| 63 | Interfacial engineering of hole transport layers with metal and dielectric nanoparticles for efficient perovskite solar cells. Physical Chemistry Chemical Physics, 2017, 19, 25016-25024. | 1.3 | 15 |
| 64 | Solution-Processed Lithium-Doped ZnO Electron Transport Layer for Efficient Triple Cation (Rb, MA,) Tj ETQqO 0 C |) rgBT /Ov 4.0 | erlock 10 Tf : 70 |
| 65 | Role of fullerene electron transport layer on the morphology and optoelectronic properties of perovskite solar cells. Organic Electronics, 2017, 50, 279-289. | 1.4 | 34 |
| 66 | Photo-degradation of high efficiency fullerene-free polymer solar cells. Nanoscale, 2017, 9, 18788-18797. | 2.8 | 47 |
| 67 | A high performance and low-cost hole transporting layer for efficient and stable perovskite solar cells. Physical Chemistry Chemical Physics, 2017, 19, 21033-21045. | 1.3 | 19 |
| 68 | Low temperature processed ZnO thin film as electron transport layer for efficient perovskite solar cells. Solar Energy Materials and Solar Cells, 2017, 159, 251-264. | 3.0 | 106 |
| 69 | Notice of Removal Sensitization of PTB7:PC71BM organic solar cells using Si-PCPDTBT. , 2017, , . | | 0 |
| 70 | Perovskite Solar Cells: Progress and Advancements. Energies, 2016, 9, 861. | 1.6 | 106 |
| 71 | Effect of PCBM film thickness on the performance of inverted perovskite solar cells. , 2016, , . | | 2 |

Hysteresis and electrode polarization in normal and inverted hybrid perovskite solar cells. , 2016, , .

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 73 | Simultaneous enhancement in stability and efficiency of low-temperature processed perovskite solar cells. RSC Advances, 2016, 6, 86108-86125. | 1.7 | 36 |
| 74 | Optical modelling of semi-transparent OPV devices. , 2016, , . | | 1 |
| 75 | Hysteresis in organic-inorganic hybrid perovskite solar cells. Solar Energy Materials and Solar Cells, 2016, 157, 476-509. | 3.0 | 146 |
| 76 | Single Vs Mixed Organic Cation for Low Temperature Processed Perovskite Solar Cells. Electrochimica Acta, 2016, 222, 1510-1521. | 2.6 | 33 |
| 77 | Enhanced stability of low temperature processed perovskite solar cells via augmented polaronic intensity of hole transporting layer. Physica Status Solidi - Rapid Research Letters, 2016, 10, 882-889. | 1.2 | 15 |
| 78 | Analysis of burn-in photo degradation in low bandgap polymer PTB7 using photothermal deflection spectroscopy. RSC Advances, 2016, 6, 103899-103904. | 1.7 | 33 |
| 79 | Effect of blend composition on ternary blend organic solar cells using a low band gap polymer. Synthetic Metals, 2016, 212, 142-153. | 2.1 | 5 |
| 80 | Stability of perovskite solar cells. Solar Energy Materials and Solar Cells, 2016, 147, 255-275. | 3.0 | 726 |
| 81 | Open circuit voltage of organic solar cells: an in-depth review. Energy and Environmental Science, 2016, 9, 391-410. | 15.6 | 644 |
| 82 | ZnO Tetrapods: Synthesis and Applications in Solar Cells. Nanomaterials and Nanotechnology, 2015, 5, 19. | 1.2 | 34 |
| 83 | Effects of blend composition on the morphology of Si-PCPDTBT:PC ₇₁ BM bulk heterojunction organic solar cells. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 1931-1940. | 0.8 | 8 |
| 84 | Effect of Blend Composition on Binary Organic Solar Cells Using a Low Band Gap Polymer. Journal of Nanoscience and Nanotechnology, 2015, 15, 2204-2211. | 0.9 | 1 |
| 85 | Metal oxide semiconducting interfacial layers for photovoltaic and photocatalytic applications. Materials for Renewable and Sustainable Energy, 2015, 4, 1. | 1.5 | 82 |
| 86 | Surface Plasmon Enhanced Organic Solar Cell with Different Silver Nanosphere Sizes. Journal of Nanoscience and Nanotechnology, 2014, 14, 5752-5760. | 0.9 | 6 |
| 87 | Surface Plasmonic Effects on Organic Solar Cells. Journal of Nanoscience and Nanotechnology, 2014, 14, 1099-1119. | 0.9 | 35 |
| 88 | Influence of bridging atom on the vertical phase separation of low band gap bulk heterojunction solar cells. Physica Status Solidi - Rapid Research Letters, 2014, 8, 904-907. | 1.2 | 5 |
| 89 | Optimisation of the sol–gel derived ZnO buffer layer for inverted structure bulk heterojunction organic solar cells using a low band gap polymer. Thin Solid Films, 2014, 566, 99-107. | 0.8 | 29 |
| 90 | Performance improvement of low bandgap polymer bulk heterojunction solar cells by incorporating P3HT. Organic Electronics, 2014, 15, 2837-2846. | 1.4 | 20 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Enhancement of ternary blend organic solar cell efficiency using PTB7 as a sensitizer. Synthetic Metals, 2014, 192, 113-118. | 2.1 | 38 |
| 92 | Using hydrofluoric acid to reduce the contact resistance of screen-printed silicon solar cells – Its recombination impact and a method to eliminate it. Solar Energy Materials and Solar Cells, 2013, 117, 537-543. | 3.0 | 1 |
| 93 | Effects of solvent additive on inverted structure PCPDTBT:PC ₇₁ BM bulk heterojunction organic solar cells. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1785-1790. | 0.8 | 12 |
| 94 | Organic—inorganic hybrid solar cells: A comparative review. Solar Energy Materials and Solar Cells, 2012, 107, 87-111. | 3.0 | 550 |
| 95 | Plasmon enhanced light absorption in bulk heterojunction organic solar cells. Physica Status Solidi - Rapid Research Letters, 2012, 6, 199-201. | 1.2 | 15 |
| 96 | Sheet resistance characterization of laser-doped lines on crystalline silicon wafers for photovoltaic applications. Solar Energy Materials and Solar Cells, 2011, 95, 974-980. | 3.0 | 15 |
| 97 | A method to characterize the sheet resistance of a laser doped line on crystalline silicon wafers for photovoltaic applications. Applied Physics Letters, 2011, 98, . | 1.5 | 5 |
| 98 | Growth of AlN films on Si (100) and Si (111) substrates by reactive magnetron sputtering. Surface and Coatings Technology, 2005, 198, 68-73. | 2.2 | 124 |
| 99 | Study of asymmetrical effects of silicon submicron transistors. Microelectronics Journal, 2004, 35, 641-645. | 1.1 | 0 |
| 100 | Investigation of Deep Levels and Residual Impurities in Sublimation-Grown SiC Substrates. Japanese Journal of Applied Physics, 1994, 33, L908-L911. | 0.8 | 17 |
| 101 | Observation of Deep Level in p-n Junction Diode of 6H:SiC. Japanese Journal of Applied Physics, 1993, 32, L1670-L1672. | 0.8 | 4 |
| 102 | Investigation of the Uniaxial Stress Effect on the Exciton System in Pure Silicon and Germanium. Japanese Journal of Applied Physics, 1989, 28, 2227-2233. | 0.8 | 3 |
| 103 | Photoluminescence and photoconductivity measurements on band-edge offsets in strained molecular-beam-epitaxy-grownInxGa1â^'xAs/GaAs quantum wells. Physical Review B, 1988, 37, 4032-4038. | 1.1 | 109 |
| 104 | Variation of the critical layer thickness with In content in strained InxGa1â°'xAsâ€GaAs quantum wells grown by molecular beam epitaxy. Applied Physics Letters, 1987, 51, 752-754. | 1.5 | 247 |
| 105 | Photovoltaic Devices. , 0, , 126-162. | | 0 |