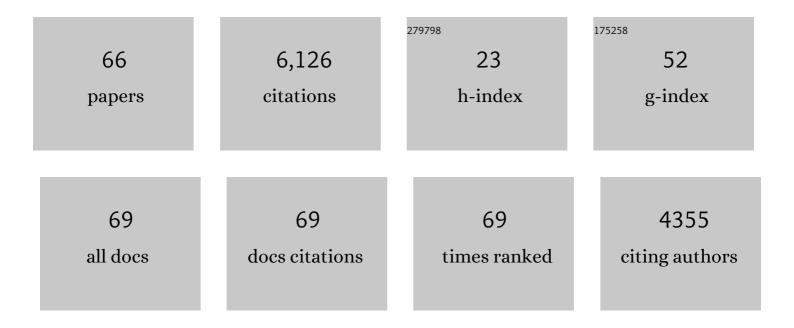
Dimitrios Hariskos

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9511302/publications.pdf Version: 2024-02-01



DIMITRIOS HARISKOS

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | New world record efficiency for Cu(In,Ga)Se ₂ thinâ€film solar cells beyond 20%. Progress in Photovoltaics: Research and Applications, 2011, 19, 894-897. | 8.1 | 1,888 |
| 2 | Effects of heavy alkali elements in Cu(In,Ca)Se ₂ solar cells with efficiencies up to 22.6%. Physica Status Solidi - Rapid Research Letters, 2016, 10, 583-586. | 2.4 | 1,285 |
| 3 | Properties of Cu(In,Ga)Se ₂ solar cells with new record efficiencies up to 21.7%. Physica Status Solidi - Rapid Research Letters, 2015, 9, 28-31. | 2.4 | 813 |
| 4 | Compositional investigation of potassium doped Cu(In,Ga)Se ₂ solar cells with efficiencies up to 20.8%. Physica Status Solidi - Rapid Research Letters, 2014, 8, 219-222. | 2.4 | 483 |
| 5 | Improved Photocurrent in Cu(In,Ga)Se ₂ Solar Cells: From 20.8% to 21.7% Efficiency with CdS Buffer and 21.0% Cd-Free. IEEE Journal of Photovoltaics, 2015, 5, 1487-1491. | 2.5 | 178 |
| 6 | Gallium gradients in Cu(In,Ga)Se ₂ thin-film solar cells. Progress in Photovoltaics: Research and Applications, 2015, 23, 717-733. | 8.1 | 122 |
| 7 | New reaction kinetics for a highâ€rate chemical bath deposition of the Zn(S,O) buffer layer for Cu(ln,Ga)Se ₂ â€based solar cells. Progress in Photovoltaics: Research and Applications, 2012, 20, 534-542. | 8.1 | 114 |
| 8 | Heavy Alkali Treatment of Cu(In,Ga)Se ₂ Solar Cells: Surface versus Bulk Effects. Advanced Energy Materials, 2020, 10, 1903752. | 19.5 | 107 |
| 9 | High-efficiency Cu(In,Ga)Se2 cells and modules. Solar Energy Materials and Solar Cells, 2013, 119, 51-58. | 6.2 | 106 |
| 10 | Direct evidence for grain boundary passivation in Cu(In,Ga)Se2 solar cells through alkali-fluoride post-deposition treatments. Nature Communications, 2019, 10, 3980. | 12.8 | 95 |
| 11 | Advances in Cost-Efficient Thin-Film Photovoltaics Based on Cu(In,Ga)Se2. Engineering, 2017, 3, 445-451. | 6.7 | 79 |
| 12 | High-efficiency Cu(In,Ga)Se2 solar cells. Thin Solid Films, 2017, 633, 13-17. | 1.8 | 58 |
| 13 | Rubidium distribution at atomic scale in high efficient Cu(In,Ga)Se2 thin-film solar cells. Applied Physics Letters, 2018, 112, . | 3.3 | 57 |
| 14 | CIGS Cells and Modules With High Efficiency on Glass and Flexible Substrates. IEEE Journal of Photovoltaics, 2014, 4, 440-446. | 2.5 | 56 |
| 15 | Substitution of the CdS buffer layer in CIGS thin-film solar cells. Vakuum in Forschung Und Praxis, 2014, 26, 23-27. | 0.1 | 55 |
| 16 | Microscopic origins of performance losses in highly efficient Cu(In,Ga)Se2 thin-film solar cells. Nature Communications, 2020, 11, 4189. | 12.8 | 51 |
| 17 | Quality and stability of compound indium sulphide as source material for buffer layers in Cu(In,Ga)Se2 solar cells. Solar Energy Materials and Solar Cells, 2009, 93, 148-152. | 6.2 | 50 |
| 18 | Comparison of charge distributions in CIGS thin-film solar cells with ZnS/(Zn,Mg)O and CdS/i-ZnO buffers. Thin Solid Films, 2011, 519, 7549-7552. | 1.8 | 47 |

DIMITRIOS HARISKOS

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Influence of RbF post deposition treatment on heterojunction and grain boundaries in high efficient (21.1%) Cu(In,Ga)Se2 solar cells. Nano Energy, 2019, 60, 103-110. | 16.0 | 46 |
| 20 | Chemical bath deposition of Zn(O,S) and CdS buffers: Influence of Cu(In,Ga)Se2 grain orientation. Applied Physics Letters, 2013, 102, . | 3.3 | 40 |
| 21 | Method for a High-Rate Solution Deposition of Zn(O,S) Buffer Layer for High-Efficiency Cu(In,Ga)Se ₂ -Based Solar Cells. IEEE Journal of Photovoltaics, 2016, 6, 1321-1326. | 2.5 | 33 |
| 22 | Impact of annealing on Cu(In,Ga)Se2 solar cells with Zn(O,S)/(Zn,Mg)O buffers. Thin Solid Films, 2013, 535, 180-183. | 1.8 | 30 |
| 23 | Depth profiling with SNMS and SIMS of Zn(O,S) buffer layers for Cu(In,Ga)Se ₂ thinâ€film solar cells. Surface and Interface Analysis, 2013, 45, 1811-1820. | 1.8 | 26 |
| 24 | Evidence for Chemical and Electronic Nonuniformities in the Formation of the Interface of RbF-Treated Cu(In,Ga)Se ₂ with CdS. ACS Applied Materials & Interfaces, 2017, 9, 44173-44180. | 8.0 | 25 |
| 25 | Verification of phototransistor model for Cu(In,Ga)Se2 solar cells. Thin Solid Films, 2015, 582, 392-396. | 1.8 | 23 |
| 26 | Rubidium Fluoride Post-Deposition Treatment: Impact on the Chemical Structure of the Cu(In,Ga)Se ₂ Surface and CdS/Cu(In,Ga)Se ₂ Interface in Thin-Film Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 37602-37608. | 8.0 | 19 |
| 27 | Valence band offsets at Cu(In,Ga)Se ₂ /Zn(O,S) interfaces. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1972-1980. | 1.8 | 17 |
| 28 | Impact of RbF-PDT on Cu(In,Ga)Se ₂ solar cells with CdS and Zn(O,S) buffer layers. EPJ Photovoltaics, 2020, 11, 8. | 1.6 | 17 |
| 29 | Improved growth of solution-deposited thin films on polycrystalline Cu(In,Ga)Se ₂ . Physica Status Solidi - Rapid Research Letters, 2016, 10, 300-304. | 2.4 | 16 |
| 30 | Accelerated Aging and Contact Degradation of CIGS Solar Cells. IEEE Journal of Photovoltaics, 2013, 3, 514-519. | 2.5 | 15 |
| 31 | A closer look at initial CdS growth on high-efficiency Cu(In, Ga)Se <inf>2</inf> absorbers using surface-sensitive methods. , 2016, , . | | 14 |
| 32 | UV‧elective Optically Transparent Zn(O,S)â€Based Solar Cells. Solar Rrl, 2020, 4, 2000470. | 5.8 | 12 |
| 33 | Influence of Substrate Temperature during InxSy Sputtering on Cu(In,Ga)Se2/Buffer Interface Properties and Solar Cell Performance. Applied Sciences (Switzerland), 2020, 10, 1052. | 2.5 | 12 |
| 34 | Electrostatic potential fluctuations and lightâ€soaking effects in Cu(In,Ga)Se ₂ solar cells. Progress in Photovoltaics: Research and Applications, 2020, 28, 919-934. | 8.1 | 11 |
| 35 | Improved photocurrent in Cu(In,Ga)Se2 solar cells: From 20.8% to 21.7% efficiency. , 2015, , . | | 10 |
| 36 | Thermodynamic limitations for alkali metals in Cu(In,Ga)Se ₂ . Journal of Materials Research, 2017, 32, 3789-3800. | 2.6 | 10 |

DIMITRIOS HARISKOS

2

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Resonant Raman scattering based approaches for the quantitative assessment of nanometric ZnMgO layers in high efficiency chalcogenide solar cells. Scientific Reports, 2017, 7, 1144. | 3.3 | 9 |
| 38 | Effects of Sputtered In _x S _y Buffer on CIGS with RbF Post-Deposition Treatment. ECS Journal of Solid State Science and Technology, 2021, 10, 055006. | 1.8 | 8 |
| 39 | Photo-assisted electrodeposition of a ZnO front contact on a p/n junction. Electrochimica Acta, 2016, 220, 176-183. | 5.2 | 6 |
| 40 | Near‣urface [Ga]/([In]+[Ga]) Composition in Cu(In,Ga)Se 2 Thinâ€Film Solar Cell Absorbers: An Overlooked Material Feature. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800856. | 1.8 | 6 |
| 41 | Giant V oc Boost of Lowâ€Temperature Annealed Cu(In,Ga)Se 2 with Sputtered Zn(O,S) Buffers. Physica Status Solidi - Rapid Research Letters, 2019, 13, 1900145. | 2.4 | 6 |
| 42 | Structural and microchemical characterization of Cu(In,Ga)Se2 solar cells with solution-grown CdS, Zn(O,S), and Inx(O,S)y buffers. Thin Solid Films, 2019, 671, 133-138. | 1.8 | 6 |
| 43 | Evaluation of defect formation in chalcopyrite compounds under Cu-poor conditions by advanced structural and vibrational analyses. Acta Materialia, 2022, 223, 117507. | 7.9 | 5 |
| 44 | Effects of material properties of bandâ€gapâ€graded Cu(In,Ga)Se ₂ thin films on the onset of the quantum efficiency spectra of corresponding solar cells. Progress in Photovoltaics: Research and Applications, 2022, 30, 1238-1246. | 8.1 | 5 |
| 45 | Influence of sputtered gallium oxide as buffer or high-resistive layer on performance of Cu(In,Ga)Se2-based solar cells. Journal of Materials Research, 2022, 37, 1825-1834. | 2.6 | 5 |
| 46 | Short-circuit current improvement of CuGaSe2 solar cells with a ZnS/(Zn,Mg)O buffer combination. Physica Status Solidi - Rapid Research Letters, 2008, 2, 80-82. | 2.4 | 4 |
| 47 | Characterization of solution-grown and sputtered In _x (O,S) _y buffer layers in Cu(In,Ga)Se ₂ solar cells by analytical TEM. Semiconductor Science and Technology, 2020, 35, 034001. | 2.0 | 4 |
| 48 | The Application of Sputtered Gallium Oxide as Buffer for Cu(In,Ga)Se ₂ Solar Cells. Physica Status Solidi - Rapid Research Letters, 2021, 15, 2100180. | 2.4 | 4 |
| 49 | Using the inelastic background in hard x-ray photoelectron spectroscopy for a depth-resolved analysis of the CdS/Cu(ln,Ca)Se2 interface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, . | 2.1 | 4 |
| 50 | Photoluminescence studies of polycrystalline Cu(In,Ga)Se2: Lateral inhomogeneities beyond Abbe's diffraction limit. Journal of Applied Physics, 2015, 118, . | 2.5 | 3 |
| 51 | IZO or IOH Window Layers Combined with Zn(O,S) and CdS Buffers for Cu(In,Ga)Se ₂ Solar Cells. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700688. | 1.8 | 3 |
| 52 | Accelerated aging and contact degradation of CIGS solar cells. , 2012, , . | | 2 |
| 53 | Long term endurance test and contact degradation of CICS solar cells. , 2013, , . | | 2 |
| | | | |

54 Electrodeposition of ZnO-doped films as window layer for Cd-free CIGS-based solar cells. , 2016, , .

| # | Article | lF | CITATIONS |
|----|---|-----|-----------|
| 55 | Averaged angle-resolved electroreflectance spectroscopy on Cu(In,Ca)Se2 solar cells: Determination of buffer bandgap energy and identification of secondary phase. Applied Physics Letters, 2019, 115, . | 3.3 | 2 |
| 56 | Influence of Cu(In,Ga)Se <inf>2</inf> grain orientation on solution growth of Zn(O,S) and CdS. , 2012, , . | | 1 |
| 57 | Fluctuations in net doping and lifetime in Cu(In,Ga)Se2 solar cells. , 2018, , . | | 1 |
| 58 | Numerical simulation of CIGS solar cells with Zn(O,S) or (Cd,Zn)S buffers and (Zn,Mg)O as high-resistive layer. , 2019, , . | | 1 |
| 59 | Deuterium Markers in CdS and Zn(O,S) Buffer Layers Deposited by Solution Growth for Cu(In,Ga)Se ₂ Thinâ€Film Solar Cells. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700288. | 2.4 | 0 |
| 60 | Increased and FF in ZnO1-xSx-buffered CuIn1-xGaxSe2 Solar Cells by Cadmium Partial Electrolyte Treatment. , 2017, , . | | 0 |
| 61 | Notice of Removal Method for a high-rate solution deposition of Zn(O,S) buffer layer for high efficiency Cu(In,Ga)Se2-based solar cells. , 2017, , . | | 0 |
| 62 | Microscopic materials properties of a high-efficiency Cu(In,Ga)Se2 solar cell - a case study. , 2018, , . | | 0 |
| 63 | Electroreflectance spectroscopy on CdS and Zn(O,S) buffer layers in Cu(In,Ga)Se <inf>2</inf> solar cells: Suppression of interference effects. , 2018, , . | | Ο |
| 64 | Modification of electronic grain boundary properties of Cu(In, Ga)Se <inf>2</inf> by alkali-fluoride post deposition treatments. , 2018, , . | | 0 |
| 65 | Electroreflectance studies of Zn(O,S) buffer layers in Cu(In,Ga)Se2 solar cells: Bandgap energies and secondary phases. , 2019, , . | | 0 |
| 66 | Correlative APT/EBIC investigations of sputtered In-based and Zn(O,S) buffers for CIGS solar cells. , 2020, , . | | 0 |