# Jean FranÃ§ois F Guillemoles

List of Publications by Year
in descending order



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|---|---|---|---|
| 291 papers | 7,819 citations | 57758 44 h-index | 60623 81 g-index |
| 299 all docs | 299 docs citations | 299 times ranked | 7654 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Nature of Photovoltaic Action in Dye-Sensitized Solar Cells. Journal of Physical Chemistry B, 2000, 104, 2053-2059. | 2.6 | 688 |
| 2 | Chalcopyrite thin film solar cells by electrodeposition. Solar Energy, 2004, 77, 725-737. | 6.1 | 356 |
| 3 | Intermediate band solar cells: Recent progress and future directions. Applied Physics Reviews, 2015, 2, 021302. | 11.3 | 314 |
| 4 | Stability Issues of Cu(In,Ga)Se2-Based Solar Cells. Journal of Physical Chemistry B, 2000, 104, 4849-4862. | 2.6 | 235 |
| 5 | Hot carrier solar cells: Principles, materials and design. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 2862-2866. | 2.7 | 192 |
| 6 | Comparison of optical and electrochemical properties of anatase and brookite TiO2 synthesized by the solâ€“gel method. Thin Solid Films, 2002, 403-404, 312-319. | 1.8 | 186 |
| 7 | Oxygenation and air-annealing effects on the electronic properties of Cu(In,Ga)Se2 films and devices. Journal of Applied Physics, 1999, 86, 497-505. | 2.5 | 174 |
| 8 | A Theoretical Investigation of the Ground and Excited States of Selected Ru and Os Polypyridyl Molecular Dyes. Journal of Physical Chemistry A, 2002, 106, 11354-11360. | 2.5 | 174 |
| 9 | Material challenges for solar cells in the twenty-first century: directions in emerging technologies. Science and Technology of Advanced Materials, 2018, 19, 336-369. | 6.1 | 162 |
| 10 | Guide for the perplexed to the Shockleyâ€“Queisser model for solar cells. Nature Photonics, 2019, 13, 501-505. | 31.4 | 153 |
| 11 | Electrochemical comparative study of titania (anatase, brookite and rutile) nanoparticles synthesized in aqueous medium. Thin Solid Films, 2004, 451-452, 86-92. | 1.8 | 149 |
| 12 | Slowing of carrier cooling in hot carrier solar cells. Thin Solid Films, 2008, 516, 6948-6953. | 1.8 | 141 |
| 13 | Strong Interplay between Structure and Electronic Properties in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>CuIn</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 262 Td (mathvariant="bold">S</mml:mi><mml:m Physical Review Letters, 2010, 104, 056401. | 7.8 | 133 |
| 14 | One step electrodeposition of CuInSe2: Improved structural, electronic, and photovoltaic properties by annealing under high selenium pressure. Journal of Applied Physics, 1996, 79, 7293-7302. | 2.5 | 118 |
| 15 | Comparative investigation of solar cell thin film processing using nanosecond and femtosecond lasers. Journal Physics D: Applied Physics, 2006, 39, 453-460. | 2.8 | 118 |
| 16 | Hot carrier solar cells: Achievable efficiency accounting for heat losses in the absorber and through contacts. Applied Physics Letters, 2010, 97, . | 3.3 | 117 |
| 17 | High resolution XPS studies of Se chemistry of a Cu(In, Ga)Se2 surface. Applied Surface Science, 2002, 202, 8-14. | 6.1 | 115 |
| 18 | Progress on hot carrier cells. Solar Energy Materials and Solar Cells, 2009, 93, 713-719. | 6.2 | 108 |

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| 19 | Cu(In,Ga)Se2 Solar Cells: Device Stability Based on Chemical Flexibility. Advanced Materials, 1999, 11, 957-961. | 21.0 | 103 |
| 20 | Quantification of spatial inhomogeneity in perovskite solar cells by hyperspectral luminescence imaging. Energy and Environmental Science, 2016, 9, 2286-2294. | 30.8 | 102 |
| 21 | Interface redox engineering of Cu(In,Ga)Se 2 â€“ based solar cells: oxygen, sodium, and chemical bath effects. Thin Solid Films, 2000, 361-362, 353-359. | 1.8 | 96 |
| 22 | Thermalisation rate study of GaSb-based heterostructures by continuous wave photoluminescence and their potential as hot carrier solar cell absorbers. Energy and Environmental Science, 2012, 5, 6225. | 30.8 | 94 |
| 23 | Metal Nanogrid for Broadband Multiresonant Light-Harvesting in Ultrathin GaAs Layers. ACS Photonics, 2014, 1, 878-884. | 6.6 | 90 |
| 24 | Simultaneous Control of Surface Potential and Wetting of Solids with Chemisorbed Multifunctional Ligands. Journal of the American Chemical Society, 1997, 119, 5720-5728. | 13.7 | 89 |
| 25 | Cu(In,Ga)(S,Se)2 solar cells and modules by electrodeposition. Thin Solid Films, 2005, 480-481, 526-531. | 1.8 | 89 |
| 26 | Quantitative experimental assessment of hot carrier-enhanced solar cells at room temperature. Nature Energy, 2018, 3, 236-242. | 39.5 | 86 |
| 27 | Ab initio investigation of potential indium and gallium free chalcopyrite compounds for photovoltaic application. Journal of Physics and Chemistry of Solids, 2005, 66, 2019-2023. | 4.0 | 85 |
| 28 | One-step electrodeposited CuInSe2 thin films studied by Raman spectroscopy. Thin Solid Films, 2007, 515, 5909-5912. | 1.8 | 79 |
| 29 | Selective ablation of thin films with short and ultrashort laser pulses. Applied Surface Science, 2006, 252, 4814-4818. | 6.1 | 77 |
| 30 | Thinning of CIGS solar cells: Part II: Cell characterizations. Thin Solid Films, 2011, 519, 7212-7215. | 1.8 | 75 |
| 31 | Ultrathin GaAs Solar Cells With a Silver Back Mirror. IEEE Journal of Photovoltaics, 2015, 5, 565-570. | 2.5 | 74 |
| 32 | Modelling of hot carrier solar cell absorbers. Solar Energy Materials and Solar Cells, 2010, 94, 1516-1521. | 6.2 | 73 |
| 33 | Contactless mapping of saturation currents of solar cells by photoluminescence. Applied Physics Letters, 2012, 100, . | 3.3 | 72 |
| 34 | Towards ultrathin copper indium gallium diselenide solar cells: proof of concept study by chemical etching and gold back contact engineering. Progress in Photovoltaics: Research and Applications, 2012, 20, 582-587. | 8.1 | 71 |
| 35 | Defects in Cu(In, Ga) Se2 semiconductors and their role in the device performance of thin-film solar cells. Progress in Photovoltaics: Research and Applications, 1997, 5, 121-130. | 8.1 | 69 |
| 36 | Imaging and quantifying non-radiative losses at 23% efficient inverted perovskite solar cells interfaces. Nature Communications, 2022, 13, . | 12.8 | 58 |

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| 37 | Thinning of CIGS solar cells: Part I: Chemical processing in acidic bromine solutions. Thin Solid Films, 2011, 519, 7207-7211. | 1.8 | 57 |
| 38 | Experimental evidence of hot carriers solar cell operation in multi-quantum wells heterostructures. Applied Physics Letters, 2015, 106, . | 3.3 | 55 |
| 39 | Wurtzite silicon as a potential absorber in photovoltaics: Tailoring the optical absorption by applying strain. Physical Review B, 2015, 92, . | 3.2 | 54 |
| 40 | Light Trapping in Ultrathin CIGS Solar Cells with Nanostructured Back Mirrors. IEEE Journal of Photovoltaics, 2017, 7, 1433-1441. | 2.5 | 54 |
| 41 | Stability of Cu(In,Ga)Se 2 solar cells: a thermodynamic approach. Thin Solid Films, 2000, 361-362, 338-345. | 1.8 | 53 |
| 42 | Ab initio calculation of intrinsic point defects in CuInSe2. Journal of Physics and Chemistry of Solids, 2003, 64, 1657-1663. | 4.0 | 52 |
| 43 | The puzzle of Cu(In,Ga)Se2 (CIGS) solar cells stability. Thin Solid Films, 2002, 403-404, 405-409. | 1.8 | 49 |
| 44 | Ferromagnetic Compounds for High Efficiency Photovoltaic Conversion: The Case of AlP:Cr. Physical Review Letters, 2009, 102, 227204. | 7.8 | 48 |
| 45 | Toward microscale Cu(In,Ga)Se2 solar cells for efficient conversion and optimized material usage: Theoretical evaluation. Journal of Applied Physics, 2010, 108, 034907. | 2.5 | 42 |
| 46 | Characterization of solar cells using electroluminescence and photoluminescence hyperspectral images. Journal of Photonics for Energy, 2012, 2, 027004. | 1.3 | 42 |
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| 49 | Solar cells with improved efficiency based on electrodeposited copper indium diselenide thin films. Advanced Materials, 1994, 6, 379-381. | 21.0 | 39 |
| 50 | Tuning the chemical properties of europium complexes as downshifting agents for copper indium gallium selenide solar cells. Journal of Materials Chemistry A, 2017, 5, 14031-14040. | 10.3 | 39 |
| 51 | Insights on the influence of surface roughness on photovoltaic properties of state of the art copper indium gallium diselenide thin films solar cells. Journal of Applied Physics, 2012, 111, . | 2.5 | 38 |
| 52 | Recrystallization of electrodeposited copper indium diselenide thin films in an atmosphere of elemental selenium. Advanced Materials, 1994, 6, 376-379. | 21.0 | 37 |
| 53 | Chemical elaboration of well defined Cu(In,Ga)Se2 surfaces after aqueous oxidation etching. Journal of Physics and Chemistry of Solids, 2003, 64, 1791-1796. | 4.0 | 37 |
| 54 | Optical approaches to improve the photocurrent generation in Cu(In,Ga)Se2 solar cells with absorber thicknesses down to 0.5â€‰<i>Î¼</i>m. Journal of Applied Physics, 2012, 112, . | 2.5 | 37 |

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| 55 | Impact of oxygen concentration during the deposition of window layers on lowering the metastability effects in Cu(In,Ga)Se<sub>2</sub>/CBD Zn(S,O) based solar cell. Progress in Photovoltaics: Research and Applications, 2015, 23, 1820-1827. | 8.1 | 37 |
| 56 | Quantitative luminescence mapping of Cu(In, Ga)Se<sub>2</sub> thinâ€film solar cells. Progress in Photovoltaics: Research and Applications, 2015, 23, 1305-1312. | 8.1 | 35 |
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| 62 | Admittance spectroscopy of cadmium free CIGS solar cells heterointerfaces. Thin Solid Films, 2006, 511-512, 320-324. | 1.8 | 30 |
| 63 | First Stages of CuInSe[sub 2] Electrodeposition from Cu(II)-In(III)-Se(IV) Acidic Solutions on Polycrystalline Mo Films. Journal of the Electrochemical Society, 2008, 155, D141. | 2.9 | 29 |
| 64 | Copper diffusion in copper sulfide: a systematic study. Ionics, 1998, 4, 364-371. | 2.4 | 28 |
| 65 | Fe-dopedCuInSe2: Anab initiostudy of magnetic defects in a photovoltaic material. Physical Review B, 2005, 71, . | 3.2 | 28 |
| 66 | Impedance measurements of nanoporosity in electrodeposited ZnO films for DSSC. Electrochemistry Communications, 2010, 12, 697-699. | 4.7 | 28 |
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| 73 | Investigation of the metastability behavior of CIGS based solar cells with ZnMgOâ€"Zn(S,O,OH) window-buffer layers. Thin Solid Films, 2011, 519, 7606-7610. | 1.8 | 24 |
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| 75 | Spatial Inhomogeneity Analysis of Cesium-Rich Wrinkles in Triple-Cation Perovskite. Journal of Physical Chemistry C, 2018, 122, 23345-23351. | 3.1 | 24 |
| 76 | Density Functional Theory Simulations of Semiconductors for Photovoltaic Applications: Hybrid Organic-Inorganic Perovskites and III/V Heterostructures. International Journal of Photoenergy, 2014, 2014, 1-11. | 2.5 | 23 |
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| 83 | Redox and solution chemistry of the SeSO32â^'â€"Znâ€"EDTA2â^' system and electrodeposition behavior of ZnSe from alkaline solutions. Journal of Electroanalytical Chemistry, 2003, 558, 9-17. | 3.8 | 19 |
| 84 | Hot Carrier Solar Cells: Controlling Thermalization in Ultrathin Devices. IEEE Journal of Photovoltaics, 2012, 2, 506-511. | 2.5 | 19 |
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| 86 | Differential in-depth characterization of co-evaporated Cu(In,Ga)Se2 thin films for solar cell applications. Thin Solid Films, 2014, 558, 47-53. | 1.8 | 19 |
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| 92 | Upconversion of 1.54<i>Î¼</i>m radiation in Er<sup>3+</sup>doped fluoride-based materials for c-Si solar cell with improved efficiency. EPJ Photovoltaics, 2011, 2, 20601. | 1.6 | 17 |
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| 94 | Enhancement of Copper Indium Gallium Selenide Solar Cells Using Europium Complex as Photon Downshifter. Advanced Optical Materials, 2016, 4, 1846-1853. | 7.3 | 17 |
| 95 | Identification of surface and volume hot-carrier thermalization mechanisms in ultrathin GaAs layers. Journal of Applied Physics, 2020, 128, 193102. | 2.5 | 17 |
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| 97 | Review of the mechanisms for the phonon bottleneck effect in IIIâ€“V semiconductors and their application for efficient hot carrier solar cells. Progress in Photovoltaics: Research and Applications, 2022, 30, 581-596. | 8.1 | 16 |
| 98 | Indium-Based Interface Chemical Engineering by Electrochemistry and Atomic Layer Deposition for Copper Indium Diselenide Solar Cells. Japanese Journal of Applied Physics, 2001, 40, 6065-6068. | 1.5 | 15 |
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| 100 | Dielectric function of zinc oxide thin films in a broad spectral range. Thin Solid Films, 2014, 571, 593-596. | 1.8 | 15 |
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| 102 | Generalized Reciprocity Relations in Solar Cells with Voltage-Dependent Carrier Collection: Application to <i>p</i> - <i>i</i> - <i>n</i> Junction Devices. Physical Review Applied, 2019, 11, . | 3.8 | 15 |
| 103 | XPS and electrical studies of buried interfaces in Cu(In,Ga)Se2 solar cells. Thin Solid Films, 2002, 403-404, 425-431. | 1.8 | 14 |
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| 105 | A theoretical investigation of the dye-redox mediator interaction in dye-sensitized photovoltaic cells. Chemical Physics Letters, 2003, 371, 378-385. | 2.6 | 14 |
| 106 | Towards Better Understanding of High Efficiency Cd-free CIGS Solar Cells Using Atomic Layer Deposited Indium Sulfide Buffer Layers. Materials Research Society Symposia Proceedings, 2003, 763, 991. | 0.1 | 14 |
| 107 | Electrochemical Cementation Phenomena on Polycrystalline Molybdenum Thin Films from Cu(II)â€“In(III)â€“Se(IV) Acidic Solutions. Journal of the Electrochemical Society, 2007, 154, D383. | 2.9 | 14 |
| 108 | Using radiative transfer equation to model absorption by thin Cu(In,Ga)Se_2 solar cells with Lambertian back reflector. Optics Express, 2013, 21, 2563. | 3.4 | 14 |

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| 109 | Optical Imaging of Light-Induced Thermopower in Semiconductors. Physical Review Applied, 2016, 5, . | 3.8 | 14 |
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| 111 | Influence of the Composition on the Copper Diffusion in Copper Sulfides Study by Impedance Spectroscopy. Journal of the Electrochemical Society, 1999, 146, 4666-4671. | 2.9 | 13 |
| 112 | NMR studies of CuInS2 and CuInSe2 crystals grown by the Bridgman method. Solid State Communications, 2000, 113, 527-532. | 1.9 | 13 |
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| 114 | In-Depth Chemical and Optoelectronic Analysis of Triple-Cation Perovskite Thin Films by Combining XPS Profiling and PL Imaging. ACS Applied Materials & Interfaces, 2022, 14, 34228-34237. | 8.0 | 13 |
| 115 | Electron spin resonance studies of Cu(In,Ga)Se2 thin films. Thin Solid Films, 2003, 431-432, 167-171. | 1.8 | 12 |
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| 119 | Impact of Electronâ€"Phonon Scattering on Optical Properties of CH<sub>3</sub>NH<sub>3</sub>PbI<sub>3</sub> Hybrid Perovskite Material. ACS Omega, 2019, 4, 21487-21493. | 3.5 | 12 |
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| 121 | Revisiting the interpretation of biased luminescence: Effects on Cu(In,Ga)Se2 photovoltaic heterostructures. Journal of Applied Physics, 2014, 116, 064504. | 2.5 | 11 |
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| 125 | Modeling and Fabrication of Luminescent Solar Concentrators towards Photovoltaic Devices. Energy Procedia, 2014, 60, 173-180. | 1.8 | 10 |
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| 127 | EuII -Based Nanolayers as Highly Efficient Downshifters for CIGS Solar Cells. European Journal of Inorganic Chemistry, 2017, 2017, 5318-5326. | 2.0 | 10 |
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| 129 | Cu titration in CuInSe2: exploration of the ternary phase diagram along new tie-lines. Ionics, 1997, 3, 149-154. | 2.4 | 9 |
| 130 | Efficient Cu(In, Ga)Se<sub>2</sub> Based Solar Cells Prepared by Electrodeposition. Materials Research Society Symposia Proceedings, 2003, 763, 691. | 0.1 | 9 |
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| 137 | Backside light management of 4-terminal bifacial perovskite/silicon tandem PV modules evaluated under realistic conditions. Optics Express, 2020, 28, 37487. | 3.4 | 9 |
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| 148 | Cu depletion on Cu(In,Ga)Se2 surfaces investigated by chemical engineering: An x-ray photoelectron spectroscopy approach. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2019, 37, . | 2.1 | 7 |
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