Ryo Ishikawa

List of Publications by Year
in descending order

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39 papers	770 citations	567281 15 h-index	526287 27 g-index
40 all docs	40 docs citations	40 times ranked	1203 citing authors

#	Article	IF	Citations
1	State-of-the-Art of Solution-Processed Crystalline Silicon/Organic Heterojunction Solar Cells: Challenges and Future. Challenges and Advances in Computational Chemistry and Physics, 2021, , 33-56.	0.6	1
2	Improved efficiency of methylammonium-free perovskite thin film solar cells by fluorinated ammonium iodide treatment. Organic Electronics, 2020, 78, 105596.	2.6	15
3	Self-assembled Fluorinated Polymer Passivation Layer for Efficient Perovskite Thin-film Solar Cells. Chemistry Letters, 2020, 49, 87-90.	1.3	6
4	Effect of thermally annealed atomic-layer-deposited AlOx/chemical tunnel oxide stack layer at the PEDOT:PSS/n-type Si interface to improve its junction quality. Journal of Applied Physics, 2020, 128, 045305.	2.5	3
5	Synthesis of AlOx thin films by atmospheric-pressure mist chemical vapor deposition for surface passivation and electrical insulator layers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	4
6	Solution-processed TiO₂ as a hole blocking layer in PEDOT:PSS/n-Si heterojunction solar cells. EPJ Photovoltaics, 2020, 11, 7.	1.6	5
7	Role of the solvent in large crystal grain growth of inorganic-organic halide FA0.8Cs0.2PbIxBr3â€‰â€‰x perovskite thin films monitored by ellipsometry. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2019, 37, .	1.2	2
8	Solution-Processed Crystalline Silicon Heterojunction Solar Cells. , 2019, , 97-117.		5
9	Highly crystalline large-grained perovskite films using two additives without an antisolvent for high-efficiency solar cells. Thin Solid Films, 2019, 679, 27-34.	1.8	7
10	Nb-doped amorphous titanium oxide compact layer for formamidinium-based high efficiency perovskite solar cells by low-temperature fabrication. Journal of Materials Chemistry A, 2018, 6, 9583-9591.	10.3	30
11	Optical Anisotropy and Compositional Ratio of Conductive Polymer PEDOT:PSS and Their Effect on Photovoltaic Performance of Crystalline Silicon/Organic Heterojunction Solar Cells. , 2018, , 137-159.		4
12	Crystalline-Si heterojunction with organic thin-layer (HOT) solar cell module using poly(3,4-ethylenedioxythiophene):poly(styrene sulfonate)(PEDOT:PSS). Solar Energy Materials and Solar Cells, 2018, 181, 60-70.	6.2	20
13	Thiocyanate Containing Two-Dimensional Cesium Lead Iodide Perovskite, Cs₂PbI₂(SCN)₂: Characterization, Photovoltaic Application, and Degradation Mechanism. ACS Applied Materials & Interfaces, 2018, 10, 42363-42371.	8.0	40
14	Fabrication of [CH(NH₂)₂]_{0.8}Cs_{0.2}PbI₃ Perovskite Thin Films for n-i-p Planar-structure Solar Cells by a One-step Method Using 1-Cyclohexyl-2-pyrrolidone as an Additive. Chemistry Letters, 2018, 47, 905-908.	1.3	7
15	Fabrication of {CH(NH₂)₂}_{1â€’}_xCs_xPbI₃ Perovskite Thin Films by Two-step Method and Its Application to Thin Film Solar Cells. Chemistry Letters, 2017, 46, 612-615.	1.3	5
16	Barium hydroxide hole blocking layer for front- and back-organic/crystalline Si heterojunction solar cells. Journal of Applied Physics, 2017, 122, .	2.5	26
17	Effect of substrate bias on mist deposition of conjugated polymer on textured crystallineâ€Si for efficient câ€Si/organic heterojunction solar cells. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1922-1925.	1.8	8
18	Nafion-Modified PEDOT:PSS as a Transparent Hole-Transporting Layer for High-Performance Crystalline-Si/Organic Heterojunction Solar Cells with Improved Light Soaking Stability. ACS Applied Materials & Interfaces, 2016, 8, 31926-31934.	8.0	63

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19	Role of Isopropyl Alcohol Solvent in the Synthesis of Organicâ€“Inorganic Halide CH(NH₂)₂PbI_xBr_{3â€“x} Perovskite Thin Films by a Two-Step Method. Journal of Physical Chemistry C, 2016, 120, 25371-25377.	3.1	12
20	Highly Efficient Solutionâ€Processed Poly(3,4â€ethylenedioâ€xythiophene):Poly(styrenesulfonate)/Crystallineâ€“Silicon Heterojunction Solar Cells with Improved Lightâ€Induced Stability. Advanced Energy Materials, 2015, 5, 1500744.	19.5	85
21	Double resonance Raman modes in monolayer and few-layer<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi mathvariant="normal">MoTe</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math>. Physical Review B, 2015, 91, .	3.2	99
22	Efficient organic/polycrystalline silicon hybrid solar cells. Nano Energy, 2015, 11, 260-266.	16.0	18
23	Self-assembled silver nanowires as top electrode for poly(3,4-ethylenedioxythiophene):poly(stylenesulfonate)/n-silicon solar cell. Thin Solid Films, 2014, 558, 306-310.	1.8	16
24	Improved photovoltaic response by incorporating green tea modified multiwalled carbon nanotubes in organicâ€“inorganic hybrid solar cell. Canadian Journal of Physics, 2014, 92, 849-852.	1.1	2
25	Self assembled silver nanowire mesh as top electrode for organicâ€“inorganic hybrid solar cell. Canadian Journal of Physics, 2014, 92, 867-870.	1.1	7
26	Green-tea modified multiwalled carbon nanotubes for efficient poly(3,4-ethylenedioxythiophene):poly(stylenesulfonate)/n-silicon hybrid solar cell. Applied Physics Letters, 2013, 102, .	3.3	31
27	Efficient Organic Photovoltaic Cells Using MoO3Hole-Transporting Layers Prepared by Simple Spin-Cast of Its Dispersion Solution in Methanol. Japanese Journal of Applied Physics, 2013, 52, 020202.	1.5	4
28	Optical anisotropy in solvent-modified poly(3,4-ethylenedioxythiophene):poly(styrenesulfonic acid) and its effect on the photovoltaic performance of crystalline silicon/organic heterojunction solar cells. Applied Physics Letters, 2013, 102, .	3.3	43
29	Electrospray Deposition of Poly(3-hexylthiophene) Films for Crystalline Silicon/Organic Hybrid Junction Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 061602.	1.5	5
30	Efficient Crystalline Si/Poly(ethylene dioxythiophene):Poly(styrene sulfonate):Graphene Oxide Composite Heterojunction Solar Cells. Applied Physics Express, 2012, 5, 032301.	2.4	28
31	Increased Organic Photovoltaic Cell Efficiency by Incorporating a Nonionic Fluorinated Surfactant Cathode Interlayer. Applied Physics Express, 2012, 5, 121601.	2.4	0
32	Crystalline Silicon/Graphene Oxide Hybrid Junction Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NE22.	1.5	1
33	Optical properties and carrier transport in c-Si/conductive PEDOT:PSS(GO) composite heterojunctions. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2075-2078.	0.8	13
34	Efficient crystalline Si/organic hybrid heterojunction solar cells. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2101-2106.	0.8	8
35	Chemical mist deposition of graphene oxide and PEDOT:PSS films for crystalline Si/organic heterojunction solar cells. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2134-2137.	0.8	22
36	Highly efficient crystalline silicon/Zonyl fluorosurfactant-treated organic heterojunction solar cells. Applied Physics Letters, 2012, 100, .	3.3	102

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37	Electrospray Deposition of Poly(3-hexylthiophene) Films for Crystalline Silicon/Organic Hybrid Junction Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 061602.	1.5	4
38	Crystalline Silicon/Graphene Oxide Hybrid Junction Solar Cells. Japanese Journal of Applied Physics, 2012, 51, 10NE22.	1.5	5
39	Efficient Organic Photovoltaic Cells Using Hole-Transporting MoO3Buffer Layers Converted from Solution-Processed MoS2Films. Japanese Journal of Applied Physics, 2011, 50, 071604.	1.5	11