

Seigo Ito

List of Publications by Year in descending order

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80
papers

8,550
citations

147801

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91884

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84
docs citations

84
times ranked

9684
citing authors

#	ARTICLE	IF	CITATIONS
1	Face-on oriented hydrophobic conjugated polymers as dopant-free hole-transport materials for efficient and stable perovskite solar cells with a fill factor approaching 85%. <i>Journal of Materials Chemistry A</i> , 2022, 10, 3409-3417.	10.3	19
2	Pencil graphite rods decorated with nickel and nickel-iron as low-cost oxygen evolution reaction electrodes. <i>Sustainable Energy and Fuels</i> , 2021, 5, 3929-3938.	4.9	7
3	Contactless Determination of Optimal Chloride Concentration for Power Conversion Efficiency in CH ₃ NH ₃ Pb(Cl,I) ₃ Using Photoluminescence Spectroscopy. <i>Photonics</i> , 2021, 8, 412.	2.0	0
4	Light-induced performance increase of carbon-based perovskite solar module for 20-year stability. <i>Cell Reports Physical Science</i> , 2021, 2, 100648.	5.6	25
5	Control of Molecular Orientation of Spiro-OMeTAD on Substrates. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 50187-50191.	8.0	10
6	Function of Porous Carbon Electrode during the Fabrication of Multiporous-Layered-Electrode Perovskite Solar Cells. <i>Photonics</i> , 2020, 7, 133.	2.0	11
7	Water Electrolysis Using Thin Pt and RuO _x Catalysts Deposited by a Flame-Annealing Method on Pencil-Lead Graphite-Rod Electrodes. <i>ACS Omega</i> , 2020, 5, 6090-6099.	3.5	8
8	Development of aluminum paste with/without boron content for crystalline silicon solar cells. <i>Materials Research Express</i> , 2020, 7, 035502.	1.6	2
9	Activation of Weak Monochromic Photocurrents by White Light Irradiation for Accurate IPCE Measurements of Carbon-Based Multi-Porous-Layered-Electrode Perovskite Solar Cells. <i>Electrochemistry</i> , 2020, 88, 418-422.	1.4	9
10	A new photoreflectance signal possibly due to midgap interface states in buried F-doped SnO ₂ /TiO ₂ junctions. <i>Japanese Journal of Applied Physics</i> , 2020, 59, SCCB23.	1.5	3
11	Thermal Degradation Analysis of Sealed Perovskite Solar Cell with Porous Carbon Electrode at 100 °C for 7000 h. <i>Energy Technology</i> , 2019, 7, 245-252.	3.8	29
12	H ₂ O/O ₂ Vapor Annealing Effect on Spin Coating Alumina Thin Films for Passivation of Silicon Solar Cells. <i>International Journal of Photoenergy</i> , 2019, 2019, 1-7.	2.5	1
13	Design of BCP buffer layer for inverted perovskite solar cells using ideal factor. <i>APL Materials</i> , 2019, 7, .	5.1	44
14	Water Electrolysis using Flame-Annealed Pencil-Graphite Rods. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 5681-5689.	6.7	11
15	How to use Synchrotron Soft X-Ray for Analysis of Perovskite Solar Cell. , 2019, , .		0
16	Facile fabrication method of small-sized crystal silicon solar cells for ubiquitous applications and tandem device with perovskite solar cells. <i>Materials Today Energy</i> , 2018, 7, 190-198.	4.7	19
17	Fabrication of fully non-vacuum processed perovskite solar cells using an inorganic CuSCN hole-transporting material and carbon-back contact. <i>Sustainable Energy and Fuels</i> , 2018, 2, 2778-2787.	4.9	27
18	Effect of Silicon Surface for Perovskite/Silicon Tandem Solar Cells: Flat or Textured?. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35016-35024.	8.0	40

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19	Influence of transparent conductive oxide layer on the inverted perovskite solar cell using PEDOT: PSS for hole transport layer. <i>Materials Research Bulletin</i> , 2018, 106, 433-438.	5.2	20
20	Enhancement of the hole conducting effect of NiO by a N ₂ blow drying method in printable perovskite solar cells with low-temperature carbon as the counter electrode. <i>Nanoscale</i> , 2017, 9, 5475-5482.	5.6	33
21	Biotemplated Synthesis of TiO ₂ -Coated Gold Nanowire for Perovskite Solar Cells. <i>ACS Omega</i> , 2017, 2, 5478-5485.	3.5	6
22	All-inorganic inverse perovskite solar cells using zinc oxide nanocolloids on spin coated perovskite layer. <i>Nano Convergence</i> , 2017, 4, 18.	12.1	17
23	Non-Vacuum Process for Production of Crystalline Silicon Solar Cells. , 2017, , .		0
24	Totally Vacuum-Free Processed Crystalline Silicon Solar Cells over 17.5% Conversion Efficiency. <i>Photonics</i> , 2017, 4, 42.	2.0	7
25	Sprayed and Spin-Coated Multilayer Antireflection Coating Films for Nonvacuum Processed Crystalline Silicon Solar Cells. <i>International Journal of Photoenergy</i> , 2017, 2017, 1-5.	2.5	20
26	Lead-free perovskite solar cells using Sb and Bi-based A ₃ B ₂ X ₉ and A ₃ BX ₆ crystals with normal and inverse cell structures. <i>Nano Convergence</i> , 2017, 4, 26.	12.1	67
27	Effect of Electrochemically Deposited MgO Coating on Printable Perovskite Solar Cell Performance. <i>Coatings</i> , 2017, 7, 36.	2.6	11
28	Non-Vacuum Processed Polymer Composite Antireflection Coating Films for Silicon Solar Cells. <i>Energies</i> , 2016, 9, 633.	3.1	10
29	Light stability tests of CH ₃ NH ₃ PbI ₃ perovskite solar cells using porous carbon counter electrodes. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 27102-27108.	2.8	39
30	Effects of TiO ₂ Properties on Performance of CH ₃ NH ₃ PbI ₃ Perovskite Photovoltaic Cells. <i>MRS Advances</i> , 2016, 1, 3185-3190.	0.9	4
31	Research Update: Overview of progress about efficiency and stability on perovskite solar cells. <i>APL Materials</i> , 2016, 4, .	5.1	27
32	Perovskite/p-type crystal silicon tandem solar cells. , 2016, , .		1
33	Inorganic Hole-Transporting Materials for Perovskite Solar Cell. , 2016, , 343-366.		2
34	Al ₂ O ₃ /TiO ₂ double layer anti-reflection coating film for crystalline silicon solar cells formed by spray pyrolysis. <i>Energy Science and Engineering</i> , 2016, 4, 269-276.	4.0	36
35	Characteristics of Perovskite Solar Cells under Low-Illuminance Conditions. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18986-18990.	3.1	43
36	100% Thermal Stability of Printable Perovskite Solar Cells Using Porous Carbon Counter Electrodes. <i>ChemSusChem</i> , 2016, 9, 2604-2608.	6.8	103

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37	Analysis of Sputtering Damage on V Curves for Perovskite Solar Cells and Simulation with Reversed Diode Model. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28441-28447.	3.1	61
38	Interface Optoelectronics Engineering for Mechanically Stacked Tandem Solar Cells Based on Perovskite and Silicon. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33553-33561.	8.0	36
39	Effects of Bulky Substituents of Push-Pull Porphyrins on Photovoltaic Properties of Dye-Sensitized Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 15379-15390.	8.0	61
40	Research into Perovskite Solar Cells and their Stability. <i>Journal of the Japan Society of Colour Material</i> , 2016, 89, 306-309.	0.1	0
41	Substrate-preheating Effects on PbI_2 Spin Coating for Perovskite Solar Cells via Sequential Deposition. <i>Chemistry Letters</i> , 2015, 44, 849-851.	1.3	21
42	Boosting of the Performance of Perovskite Solar Cells through Systematic Introduction of Reduced Graphene Oxide in TiO_2 Layers. <i>Chemistry Letters</i> , 2015, 44, 1410-1412.	1.3	39
43	Push-Pull Bacteriochlorin: Panchromatic Sensitizer for Dye-sensitized Solar Cell. <i>Chemistry Letters</i> , 2015, 44, 1395-1397.	1.3	6
44	Tropolone as a High-Performance Robust Anchoring Group for Dye-Sensitized Solar Cells. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 9052-9056.	13.8	99
45	Material Exchange Property of Organo Lead Halide Perovskite with Hole-Transporting Materials. <i>Photonics</i> , 2015, 2, 1043-1053.	2.0	19
46	Water Soluble Aluminum Paste Using Polyvinyl Alcohol for Silicon Solar Cells. <i>International Journal of Photoenergy</i> , 2015, 2015, 1-6.	2.5	6
47	Lead-Halide Perovskite Solar Cells by CH_3NH_3I Dripping on PbI_2 DMSO Precursor Layer for Planar and Porous Structures Using $CuSCN$ Hole-Transporting Material. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 881-886.	4.6	78
48	Effects of Porosity and Amount of Surface Hydroxyl Groups of a Porous TiO_2 Layer on the Performance of a $CH_3NH_3PbI_3$ Perovskite Photovoltaic Cell. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22304-22309.	3.1	18
49	Polymer-Assisted Construction of Mesoporous TiO_2 Layers for Improving Perovskite Solar Cell Performance. <i>Journal of Physical Chemistry C</i> , 2015, 119, 22847-22854.	3.1	32
50	Printable solar cells. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2015, 4, 51-73.	4.1	10
51	Electrochemical Deposition of Te and Se on Flat TiO_2 for Solar Cell Application. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-5.	2.5	7
52	Carbon-Double-Bond-Free Printed Solar Cells from $TiO_2/CH_3NH_3PbI_3/CuSCN/Au$: Structural Control and Photoaging Effects. <i>ChemPhysChem</i> , 2014, 15, 1194-1200.	2.1	148
53	Inorganic hole conductor-based lead halide perovskite solar cells with 12.4% conversion efficiency. <i>Nature Communications</i> , 2014, 5, 3834.	12.8	769
54	EFFECTS OF TiO_2 PARTICLE SIZE ON THE PERFORMANCE OF DYE-SENSITIZED SOLAR CELLS USING IONIC LIQUID ELECTROLYTES. <i>Nano</i> , 2014, 09, 1440010.	1.0	9

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55	Double functions of porous TiO ₂ electrodes on CH ₃ NH ₃ PbI ₃ perovskite solar cells: Enhancement of perovskite crystal transformation and prohibition of short circuiting. APL Materials, 2014, 2, .	5.1	52
56	Effects of Surface Blocking Layer of Sb ₂ S ₃ on Nanocrystalline TiO ₂ for CH ₃ NH ₃ PbI ₃ Perovskite Solar Cells. Journal of Physical Chemistry C, 2014, 118, 16995-17000.	3.1	512
57	Silica-sol-based spin-coating barrier layer against phosphorous diffusion for crystalline silicon solar cells. Nanoscale Research Letters, 2014, 9, 659.	5.7	6
58	3-D solar cells by electrochemical-deposited Se layer as extremely-thin absorber and hole conducting layer on nanocrystalline TiO ₂ electrode. Nanoscale Research Letters, 2013, 8, 8.	5.7	33
59	The Effect of Annealing Temperature and KCN Etching on the Photovoltaic Properties of Cu(In,Ga)(S,Se) ₂ Solar Cells Using Nanoparticles. International Journal of Photoenergy, 2013, 2013, 1-7.	2.5	8
60	CuInS ₂ Superstrate Solar Cells with ZnO Compact Layer Fabricated by Totally Non-vacuum Methods. Journal of Advanced Oxidation Technologies, 2013, 16, .	0.5	0
61	Fabrication of Monolithic Dye-Sensitized Solar Cell Using Ionic Liquid Electrolyte. International Journal of Photoenergy, 2012, 2012, 1-6.	2.5	17
62	Segregation of Cu-In-S Elements in the Spray-Pyrolysis-Deposited Layer of CIS Solar Cells. Advances in Materials Science and Engineering, 2012, 2012, 1-6.	1.8	7
63	TiO ₂ Surface Treatment Effects by Mg ²⁺ , Ba ²⁺ , and Al ³⁺ on Sb ₂ S ₃ Extremely Thin Absorber Solar Cells. Journal of Physical Chemistry C, 2012, 116, 13465-13471.	3.1	103
64	Porous carbon layers for counter electrodes in dye-sensitized solar cells: Recent advances and a new screen-printing method. Pure and Applied Chemistry, 2011, 83, 2089-2106.	1.9	20
65	Inside Cover: Bisquinoxaline-Fused Porphyrins for Dye-Sensitized Solar Cells (ChemSusChem 6/2011). ChemSusChem, 2011, 4, 670-670.	6.8	0
66	Influence of Titania Dispersivity on the Conversion Efficiency of Dye-Sensitized Solar Cells. International Journal of Photoenergy, 2011, 2011, 1-7.	2.5	2
67	Fabrication of dye-sensitized solar cells using natural dye for food pigment: Monascus yellow. Energy and Environmental Science, 2010, 3, 905.	30.8	67
68	Nanostructured materials for efficient solar energy conversion. , 2010, , .		4
69	Fabrication of thin film dye sensitized solar cells with solar to electric power conversion efficiency over 10%. Thin Solid Films, 2008, 516, 4613-4619.	1.8	1,702
70	Bifacial dye-sensitized solar cells based on an ionic liquid electrolyte. Nature Photonics, 2008, 2, 693-698.	31.4	279
71	High-conversion-efficiency organic dye-sensitized solar cells with a novel indoline dye. Chemical Communications, 2008, , 5194.	4.1	732
72	Fabrication of screen-printing pastes from TiO ₂ powders for dye-sensitised solar cells. Progress in Photovoltaics: Research and Applications, 2007, 15, 603-612.	8.1	938

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73	High Molar Extinction Coefficient Heteroleptic Ruthenium Complexes for Thin Film Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2006, 128, 4146-4154.	13.7	538
74	Stable Mesoscopic Dye-Sensitized Solar Cells Based on Tetracyanoborate Ionic Liquid Electrolyte. Journal of the American Chemical Society, 2006, 128, 7732-7733.	13.7	441
75	Highly Efficient Dye-Sensitized Solar Cells Based on Carbon Black Counter Electrodes. Journal of the Electrochemical Society, 2006, 153, A2255.	2.9	824
76	Calibration of solar simulator for evaluation of dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2004, 82, 421-429.	6.2	79
77	Dye-Sensitized Photocells with Meso-Macroporous TiO ₂ Film Electrodes. Bulletin of the Chemical Society of Japan, 2000, 73, 2609-2614.	3.2	35
78	Fabrication and Characterization of Meso-Macroporous Anatase TiO ₂ Films. Bulletin of the Chemical Society of Japan, 2000, 73, 1933-1938.	3.2	20
79	Studies of Tandem Solar Cells and Stability Issue of Perovskite Solar Cells. , 0, , .		0
80	Studies of Tandem Solar Cells and Stability Issue of Perovskite Solar Cells. , 0, , .		0