

Takayuki Kuwabara

List of Publications by Year in descending order

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32
papers

1,374
citations

471509

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434195

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all docs

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docs citations

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times ranked

2110
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembly of Active IrO ₂ Colloid Catalyst on an ITO Electrode for Efficient Electrochemical Water Oxidation. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21489-21491.	2.6	177
2	Characterization of Inverted-Type Organic Solar Cells with a ZnO Layer as the Electron Collection Electrode by ac Impedance Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2009, 1, 2107-2110.	8.0	166
3	Highly durable inverted-type organic solar cell using amorphous titanium oxide as electron collection electrode inserted between ITO and organic layer. <i>Solar Energy Materials and Solar Cells</i> , 2008, 92, 1476-1482.	6.2	159
4	Remarkably high activity of electrodeposited IrO ₂ film for electrocatalytic water oxidation. <i>Journal of Electroanalytical Chemistry</i> , 2005, 579, 83-88.	3.8	124
5	Inverted type bulk-heterojunction organic solar cell using electrodeposited titanium oxide thin films as electron collector electrode. <i>Thin Solid Films</i> , 2009, 517, 3766-3769.	1.8	94
6	Mechanistic Insights into UV-Induced Electron Transfer from PCBM to Titanium Oxide in Inverted-Type Organic Thin Film Solar Cells Using AC Impedance Spectroscopy. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 2254-2260.	8.0	91
7	Inverted bulk-heterojunction organic solar cell using chemical bath deposited titanium oxide as electron collection layer. <i>Organic Electronics</i> , 2010, 11, 1136-1140.	2.6	88
8	Characterization and Analysis of Self-Assembly of a Highly Active Colloidal Catalyst for Water Oxidation onto Transparent Conducting Oxide Substrates. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3774-3779.	3.1	63
9	Improved Reproducibility and Intercalation Control of Efficient Planar Inorganic Perovskite Solar Cells by Simple Alternate Vacuum Deposition of PbI ₂ and CsI. <i>ACS Omega</i> , 2017, 2, 4464-4469.	3.5	49
10	Characterization of ZnS-layer-inserted bulk-heterojunction organic solar cells by ac impedance spectroscopy. <i>Journal of Applied Physics</i> , 2009, 105, 124513.	2.5	44
11	Effect of UV light irradiation on photovoltaic characteristics of inverted polymer solar cells containing sol-gel zinc oxide electron collection layer. <i>Organic Electronics</i> , 2013, 14, 649-656.	2.6	38
12	Flexible inverted polymer solar cells on polyethylene terephthalate substrate containing zinc oxide electron-collection-layer prepared by novel sol-gel method and low-temperature treatments. <i>Organic Electronics</i> , 2012, 13, 1136-1140.	2.6	35
13	Annealing effects on CsPbI ₃ -based planar heterojunction perovskite solar cells formed by vacuum deposition method. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 04CS11.	1.5	35
14	Enhanced Photovoltaic Performance of Perovskite Solar Cells via Modification of Surface Characteristics Using a Fullerene Interlayer. <i>Chemistry Letters</i> , 2015, 44, 1735-1737.	1.3	28
15	Fullerene acceptor for improving open-circuit voltage in inverted organic photovoltaic devices without accompanying decrease in short-circuit current density. <i>Applied Physics Letters</i> , 2012, 100, 063303.	3.3	23
16	Factors contributing to degradation of organic photovoltaic cells. <i>Organic Electronics</i> , 2020, 76, 105448.	2.6	22
17	Mechanistic Investigation into the Light Soaking Effect Observed in Inverted Polymer Solar Cells Containing Chemical Bath Deposited Titanium Oxide. <i>Journal of Physical Chemistry C</i> , 2015, 119, 5274-5280.	3.1	21
18	Sexithiophene-Based Photovoltaic Cells with High Light Absorption Coefficient via Crystalline Polymorph Control. <i>Journal of Physical Chemistry C</i> , 2017, 121, 19699-19704.	3.1	16

#	ARTICLE	IF	CITATIONS
19	Effect of the solvent used to prepare the photoactive layer on the performance of inverted bulk heterojunction polymer solar cells. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 02BE06.	1.5	15
20	Identifying Molecular Orientation in a Bulk Heterojunction Film by Infrared Reflection Absorption Spectroscopy. <i>ACS Omega</i> , 2018, 3, 5678-5684.	3.5	12
21	Molecular orientation control of semiconducting molecules using a metal layer formed by wet processing. <i>Organic Electronics</i> , 2018, 63, 47-51.	2.6	11
22	Mechanism of Light-Soaking Effect in Inverted Polymer Solar Cells with Open-Circuit Voltage Increase. <i>ACS Omega</i> , 2017, 2, 1617-1624.	3.5	10
23	Element-saving preparation of an efficient electrode catalyst based on self-assembly of Pt colloid nanoparticles onto an ITO electrode. <i>Green Chemistry</i> , 2010, 12, 2150.	9.0	9
24	Synthesis of Thieno[3,4- <i>b</i>]thiophene-Based Donor Molecules with Phenyl Ester Pendants for Organic Solar Cells: Control of Photovoltaic Properties via Single Substituent Replacement. <i>ChemistrySelect</i> , 2016, 1, 703-709.	1.5	9
25	Factors affecting the photovoltaic behavior of inverted polymer solar cells using various indium tin oxide electrodes modified by amines with simple chemical structures. <i>Thin Solid Films</i> , 2015, 591, 49-54.	1.8	7
26	Electrocatalytic activity of electrodeposited cobalt oxide films to produce oxygen gas from water. <i>Journal of Electroanalytical Chemistry</i> , 2015, 740, 14-20.	3.8	7
27	High performance photoanodic catalyst prepared from an active organic photovoltaic cell "high potential gain from visible light. <i>Chemical Communications</i> , 2019, 55, 12491-12494.	4.1	6
28	Flexible inverted polymer solar cells fabricated in air at low temperatures. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 086501.	1.5	5
29	Thin film deposition method for ZnO nanosheets using low-temperature microwave-excited atmospheric pressure plasma jet. <i>Thin Solid Films</i> , 2019, 674, 58-63.	1.8	4
30	Influence of 4-fluorophenyl pendants in thieno[3,4- <i>b</i>]thiophene- <i>b</i> -benzo[1,2- <i>c</i> :4,5- <i>c'</i>]-dithiophene-based polymers on the performance of photovoltaics. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1586-1593.	2.3	3
31	Nanopore analysis of blended organic semiconducting films to clarify photovoltaic performance. <i>Organic Electronics</i> , 2019, 66, 76-80.	2.6	3
32	Effects of optical interference and optimized crystallinity in organic photovoltaic cells with a low-bandgap small molecule fabricated by dry process. <i>Japanese Journal of Applied Physics</i> , 2019, 58, SBBG12.	1.5	0