

# Takayuki Kuwabara

## List of Publications by Year in descending order

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32  
papers

1,374  
citations

471509

17  
h-index

434195

31  
g-index

32  
all docs

32  
docs citations

32  
times ranked

2110  
citing authors

#	ARTICLE	IF	CITATIONS
1	Factors contributing to degradation of organic photovoltaic cells. <i>Organic Electronics</i> , 2020, 76, 105448.	2.6	22
2	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
3	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
4	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
5	Nanopore analysis of blended organic semiconducting films to clarify photovoltaic performance. <i>Organic Electronics</i> , 2019, 66, 76-80.	2.6	3
6	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
7	Identifying Molecular Orientation in a Bulk Heterojunction Film by Infrared Reflection Absorption Spectroscopy. <i>ACS Omega</i> , 2018, 3, 5678-5684.	3.5	12
8	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
9	Annealing effects on CsPbI <sub>3</sub> -based planar heterojunction perovskite solar cells formed by vacuum deposition method. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 04CS11.	1.5	35
10	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
11	Improved Reproducibility and Intercalation Control of Efficient Planar Inorganic Perovskite Solar Cells by Simple Alternate Vacuum Deposition of PbI <sub>2</sub> and CsI. <i>ACS Omega</i> , 2017, 2, 4464-4469.	3.5	49
12	Flexible inverted polymer solar cells fabricated in air at low temperatures. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 086501.	1.5	5
13	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
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	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
16	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>b'</i> ]-dithiophene-based polymers on the performance of photovoltaics. <i>Journal of Polymer Science Part A</i> , 2015, 53, 1586-1593.	2.3	3
17	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
18	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

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19	Effect of the solvent used to prepare the photoactive layer on the performance of inverted bulk heterojunction polymer solar cells. Japanese Journal of Applied Physics, 2014, 53, 02BE06.	1.5	15
20	Effect of UV light irradiation on photovoltaic characteristics of inverted polymer solar cells containing sol-gel zinc oxide electron collection layer. Organic Electronics, 2013, 14, 649-656.	2.6	38
21	Fullerene acceptor for improving open-circuit voltage in inverted organic photovoltaic devices without accompanying decrease in short-circuit current density. Applied Physics Letters, 2012, 100, 063303.	3.3	23
22	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. Organic Electronics, 2012, 13, 1136-1140.	2.6	35
23	Inverted bulk-heterojunction organic solar cell using chemical bath deposited titanium oxide as electron collection layer. Organic Electronics, 2010, 11, 1136-1140.	2.6	88
24	Mechanistic Insights into UV-Induced Electron Transfer from PCBM to Titanium Oxide in Inverted-Type Organic Thin Film Solar Cells Using AC Impedance Spectroscopy. ACS Applied Materials & Interfaces, 2010, 2, 2254-2260.	8.0	91
25	Element-saving preparation of an efficient electrode catalyst based on self-assembly of Pt colloid nanoparticles onto an ITO electrode. Green Chemistry, 2010, 12, 2150.	9.0	9
26	Inverted type bulk-heterojunction organic solar cell using electrodeposited titanium oxide thin films as electron collector electrode. Thin Solid Films, 2009, 517, 3766-3769.	1.8	94
27	Characterization of Inverted-Type Organic Solar Cells with a ZnO Layer as the Electron Collection Electrode by ac Impedance Spectroscopy. ACS Applied Materials & Interfaces, 2009, 1, 2107-2110.	8.0	166
28	Characterization of ZnS-layer-inserted bulk-heterojunction organic solar cells by ac impedance spectroscopy. Journal of Applied Physics, 2009, 105, 124513.	2.5	44
29	Highly durable inverted-type organic solar cell using amorphous titanium oxide as electron collection electrode inserted between ITO and organic layer. Solar Energy Materials and Solar Cells, 2008, 92, 1476-1482.	6.2	159
30	Characterization and Analysis of Self-Assembly of a Highly Active Colloidal Catalyst for Water Oxidation onto Transparent Conducting Oxide Substrates. Journal of Physical Chemistry C, 2008, 112, 3774-3779.	3.1	63
31	Remarkably high activity of electrodeposited IrO <sub>2</sub> film for electrocatalytic water oxidation. Journal of Electroanalytical Chemistry, 2005, 579, 83-88.	3.8	124
32	Self-Assembly of Active IrO <sub>2</sub> Colloid Catalyst on an ITO Electrode for Efficient Electrochemical Water Oxidation. Journal of Physical Chemistry B, 2005, 109, 21489-21491.	2.6	177