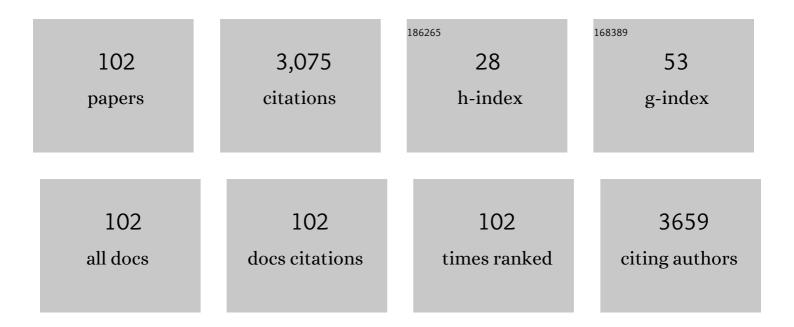
Kohshin Takahashi

List of Publications by Year in descending order

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| # | Article | lF | CITATIONS |
|----|--|------|-----------|
| 1 | High-performance carbon counter electrode for dye-sensitized solar cells. Solar Energy Materials and Solar Cells, 2003, 79, 459-469. | 6.2 | 641 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Photovoltaic Properties of Porphyrin Thin Films Mixed witho-Chloranil. Bulletin of the Chemical Society of Japan, 1993, 66, 733-738. | 3.2 | 92 |
| 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. ACS Applied Materials & Interfaces, 2010, 2, 2254-2260. | 8.0 | 91 |
| 7 | Simple synthesis of water-soluble conducting polyaniline. Synthetic Metals, 1998, 96, 161-163. | 3.9 | 89 |
| 8 | 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 |
| 9 | Relation between carrier mobility and cell performance in bulk heterojunction solar cells consisting of soluble polythiophene and fullerene derivatives. Applied Physics Letters, 2005, 87, 132105. | 3.3 | 73 |
| 10 | The benefits of ionic liquids for the fabrication of efficient and stable perovskite photovoltaics. Chemical Engineering Journal, 2021, 411, 128461. | 12.7 | 70 |
| 11 | Longâ€lived excited state of C60 in C60/phthalocyanine heterojunction solar cell. Applied Physics Letters, 1996, 68, 427-429. | 3.3 | 63 |
| 12 | Ionic liquid-assisted growth of methylammonium lead iodide spherical nanoparticles by a simple spin-coating method and photovoltaic properties of perovskite solar cells. RSC Advances, 2015, 5, 77495-77500. | 3.6 | 60 |
| 13 | Three-layer organic solar cell with high-power conversion efficiency of 3.5%. Solar Energy Materials and Solar Cells, 2000, 61, 403-416. | 6.2 | 58 |
| 14 | Improved Reproducibility and Intercalation Control of Efficient Planar Inorganic Perovskite Solar Cells by Simple Alternate Vacuum Deposition of PbI ₂ and CsI. ACS Omega, 2017, 2, 4464-4469. | 3.5 | 49 |
| 15 | Ionic Liquid-Assisted MAPbI ₃ Nanoparticle-Seeded Growth for Efficient and Stable Perovskite Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 21194-21206. | 8.0 | 47 |
| 16 | Characterization of water-soluble externally HCl-doped conducting polyaniline. Synthetic Metals, 2002, 128, 27-33. | 3.9 | 44 |
| 17 | Characterization of ZnS-layer-inserted bulk-heterojunction organic solar cells by ac impedance spectroscopy. Journal of Applied Physics, 2009, 105, 124513. | 2.5 | 44 |
| 18 | Metal Oxide Compact Electron Transport Layer Modification for Efficient and Stable Perovskite Solar Cells. Materials, 2020, 13, 2207. | 2.9 | 42 |

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Efficient Smallâ€Molecule Photovoltaic Cells Using a Crystalline Diindenoperylene Film as a Nanostructured Template. Advanced Materials, 2013, 25, 6069-6075. | 21.0 | 39 |
| 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 | Efficient organic solar cells by penetration of conjugated polymers into perylene pigments. Journal of Applied Physics, 2004, 96, 6878-6883. | 2.5 | 37 |
| 22 | Activated Carbon Counter Electrode for Dye-sensitized Solar Cell. Electrochemistry, 2003, 71, 944-946. | 1.4 | 35 |
| 23 | 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 |
| 24 | Annealing effects on CsPbI ₃ -based planar heterojunction perovskite solar cells formed by vacuum deposition method. Japanese Journal of Applied Physics, 2017, 56, 04CS11. | 1.5 | 35 |
| 25 | Enhanced Photocurrent in Al/Porphyrin Schottky Barrier Cell with Heterodimer Consisting of Metal-Free Porphyrin and Zinc Porphyrin. Journal of Physical Chemistry B, 1999, 103, 4868-4875. | 2.6 | 32 |
| 26 | Viscosity effect of ionic liquid-assisted controlled growth of CH3NH3PbI3 nanoparticle-based planar perovskite solar cells. Organic Electronics, 2017, 48, 147-153. | 2.6 | 30 |
| 27 | Photocurrent from photocorrosion of aluminum electrode in porphyrin/Al Schottky-barrier cells. Applied Physics Letters, 1997, 71, 674-676. | 3.3 | 29 |
| 28 | Interface engineering of compact-TiOx in planar perovskite solar cells using low-temperature processable high-mobility fullerene derivative. Solar Energy Materials and Solar Cells, 2018, 178, 1-7. | 6.2 | 29 |
| 29 | Organic solid-state solar cells with a mixture of monomeric porphyrins for light-harvesting and regioregular polythiophene for charge transport. Synthetic Metals, 2001, 123, 91-94. | 3.9 | 28 |
| 30 | Porphyrin dye-sensitization of polythiophene in a conjugated polymer/TiO2 p–n hetero-junction solar cell. Synthetic Metals, 2005, 155, 51-55. | 3.9 | 28 |
| 31 | Enhanced Photovoltaic Performance of Perovskite Solar Cells via Modification of Surface Characteristics Using a Fullerene Interlayer. Chemistry Letters, 2015, 44, 1735-1737. | 1.3 | 28 |
| 32 | Flexible inverted polymer solar cells containing an amorphous titanium oxide electron collection electrone collection electrode. Organic Electronics, 2011, 12, 113-118. | 2.6 | 25 |
| 33 | Enhanced Photocurrent Quantum Yield by Electronic Interaction between Zinc Porphyrin and Rhodamine B Molecules in Al/Dye/Au Sandwich-Type Solar Cell. Journal of Physical Chemistry B, 1997, 101, 991-997. | 2.6 | 24 |
| 34 | Sensitization Effect of Porphyrin Dye on the Photocurrent of Al/Polythiophene Schottky-Barrier Cells. Journal of Physical Chemistry B, 2003, 107, 1646-1652. | 2.6 | 24 |
| 35 | 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 |
| 36 | Photoelectrochemical Properties of Thin Films of Zinc Porphyrin Derivatives with Pyridyl Group. Bulletin of the Chemical Society of Japan, 1989, 62, 386-391. | 3.2 | 22 |

| # | Article | IF | CITATIONS |
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| 37 | Enhanced photocurrent by Schottky-barrier solar cell composed of regioregular polythiophene with merocyanine dye. Synthetic Metals, 2002, 130, 177-183. | 3.9 | 22 |
| 38 | Performance Enhancement by Blending an Electron Acceptor in TiO2/polyphenylenevinylene/Au Solid-state Solar Cells. Chemistry Letters, 2004, 33, 1042-1043. | 1.3 | 22 |
| 39 | Synthesis and Characterization of Thieno[3,4- <i>b</i>]thiophene-Based Copolymers Bearing 4-Substituted Phenyl Ester Pendants: Facile Fine-Tuning of HOMO Energy Levels. Macromolecules, 2011, 44, 6659-6662. | 4.8 | 22 |
| 40 | Factors contributing to degradation of organic photovoltaic cells. Organic Electronics, 2020, 76, 105448. | 2.6 | 22 |
| 41 | Mechanistic Investigation into the Light Soaking Effect Observed in Inverted Polymer Solar Cells Containing Chemical Bath Deposited Titanium Oxide. Journal of Physical Chemistry C, 2015, 119, 5274-5280. | 3.1 | 21 |
| 42 | Catalytic epoxidation of cyclohexene by covalently linked manganese porphyrin–viologen complex. Journal of Molecular Catalysis A, 1998, 130, 285-295. | 4.8 | 20 |
| 43 | The Fluorescence Properties of (2-Nitro-5,10,15,20- tetraphenylporphyrinato)zinc. Bulletin of the Chemical Society of Japan, 1992, 65, 1475-1481. | 3.2 | 19 |
| 44 | Efficiency Increase by Insertion of Electrodeposited CuSCN Layer into ITO/Organic Solid Interface in Bulk Hetero-junction Solar Cells Consisting of Polythiophene and Fullerene. Chemistry Letters, 2007, 36, 762-763. | 1.3 | 19 |
| 45 | Thermal Control of PbI ₂ Film Growth for Two-Step Planar Perovskite Solar Cells. Crystal Growth and Design, 2019, 19, 5320-5325. | 3.0 | 18 |
| 46 | Enhanced Quantum Yield in Porphyrin Solar Cell with Redox Chain for Electron Transfer. Chemistry Letters, 1994, 23, 2001-2004. | 1.3 | 17 |
| 47 | Merocyanine Dye-Sensitization of Polythiophene in a Conjugated Polymer/TiO2p–n Hetero-Junction Solar Cell. Bulletin of the Chemical Society of Japan, 2003, 76, 2277-2283. | 3.2 | 16 |
| 48 | 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 |
| 49 | Thieno[3,4-b]thiophene–benzo[1,2-b:4,5-bâ€2]dithiophene-based polymers bearing optically pure 2-ethylhexyl pendants: Synthesis and application in polymer solar cells. Polymer, 2015, 56, 171-177. | 3.8 | 14 |
| 50 | Photoinduced electron transfer from porphyrin to C60 in a C60 porphyrin double-layer photoelectrochemical cell. Journal of Electroanalytical Chemistry, 1997, 426, 85-90. | 3.8 | 13 |
| 51 | Dioxygen-activated reductive epoxidation of cyclohexene using Mn(III) porphyrin as catalyst and hexylviologen as electron mediator. Journal of Molecular Catalysis A, 1999, 138, 145-153. | 4.8 | 13 |
| 52 | Performance Enhancement by Blending Merocyanine Photosensitizer in TiO2/Polythiophen Solid-state Solar Cells. Chemistry Letters, 2005, 34, 714-715. | 1.3 | 13 |
| 53 | Low-Temperature Processed TiOx Electron Transport Layer for Efficient Planar Perovskite Solar Cells. Nanomaterials, 2020, 10, 1676. | 4.1 | 13 |
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| 55 | The Photovoltaic Mechanism of a Polythiophene/Perylene Pigment Two-Layer Solar Cell. Bulletin of the Chemical Society of Japan, 2004, 77, 2185-2188. | 3.2 | 12 |
| 56 | Identifying Molecular Orientation in a Bulk Heterojunction Film by Infrared Reflection Absorption Spectroscopy. ACS Omega, 2018, 3, 5678-5684. | 3.5 | 12 |
| 57 | Performance Improvement by Inserting an Electrodeposited ZnO into ITO/Organic Solid Interface in Organic Solid-state Solar Cells. Chemistry Letters, 2005, 34, 768-769. | 1.3 | 11 |
| 58 | Shape-controlled CH ₃ NH ₃ PbI ₃ nanoparticles for planar heterojunction perovskite solar cells. Japanese Journal of Applied Physics, 2016, 55, 02BF05. | 1.5 | 11 |
| 59 | Enhanced Quantum Yield in Porphyrin Heterodimer Solar Cells. Chemistry Letters, 1993, 22, 613-616. | 1.3 | 10 |
| 60 | Highly selective epoxidation of cyclohexene by reductive activation of molecular dioxygen using hexylviologen as catalyst. Journal of Molecular Catalysis A, 1999, 148, 183-187. | 4.8 | 10 |
| 61 | Degradation mechanism for planar heterojunction perovskite solar cells. Japanese Journal of Applied Physics, 2016, 55, 04ES07. | 1.5 | 10 |
| 62 | Mechanism of Light-Soaking Effect in Inverted Polymer Solar Cells with Open-Circuit Voltage Increase. ACS Omega, 2017, 2, 1617-1624. | 3.5 | 10 |
| 63 | Study on Properties of Low-Temperature-Prepared Zinc Oxide-Based Inverted Organic Solar Cells and Improvement of their Photodurability. ACS Applied Energy Materials, 2021, 4, 6385-6390. | 5.1 | 10 |
| 64 | Photocurrent increment in organic solar cell with mixed solid of merocyanine and zinc porphyrin. Thin Solid Films, 1998, 333, 256-263. | 1.8 | 9 |
| 65 | Synthesis of seleno[3,4-c]pyrrole-4,6-dione-based polymers for polymer solar cells. Synthetic Metals, 2012, 162, 1707-1712. | 3.9 | 9 |
| 66 | Study of planar heterojunction perovskite photovoltaic cells using compact titanium oxide by chemical bath deposition. Japanese Journal of Applied Physics, 2015, 54, 08KF02. | 1.5 | 9 |
| 67 | 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. ChemistrySelect, 2016, 1, 703-709. | 1.5 | 9 |
| 68 | Influence of coating steps of perovskite on low-temperature amorphous compact TiO <i> _x </i> upon the morphology, crystallinity, and photovoltaic property correlation in planar perovskite solar cells. Japanese Journal of Applied Physics, 2018, 57, 03EJ06. | 1.5 | 8 |
| 69 | Contribution of Electricâ€Fieldâ€Induced Metalâ€Free Porphyrin Dication to Photocurrent in Mixed Solid of Metalâ€Free Porphyrin and oâ€Chloranil/Al Schottkyâ€Barrier Cell. Journal of the Electrochemical Society, 1999, 146, 1717-1723. | 2.9 | 7 |
| 70 | Factors affecting the photovoltaic behavior of inverted polymer solar cells using various indium tin oxide electrodes modified by amines with simple chemical structures. Thin Solid Films, 2015, 591, 49-54. | 1.8 | 7 |
| 71 | Electrocatalytic activity of electrodeposited cobalt oxide films to produce oxygen gas from water. Journal of Electroanalytical Chemistry, 2015, 740, 14-20. | 3.8 | 7 |
| 72 | The Fluorescence Quenching of Zinc Porphyrins with the ω-[4-(4-Pyridyl)pyridinio]alkyl Group. Bulletin of the Chemical Society of Japan, 1989, 62, 3069-3074. | 3.2 | 6 |

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| 73 | Spectral Cosensitization in Organic Solar Cell with Mixed Film of Zinc Porphyrin and Merocyanine. Chemistry Letters, 1994, 23, 269-272. | 1.3 | 6 |
| 74 | Oxygen reduction at negatively charged iron porphyrins heat-treated and bridged by alkaline-earth metal ions. Electrochimica Acta, 2010, 55, 6042-6048. | 5.2 | 6 |
| 75 | High performance photoanodic catalyst prepared from an active organic photovoltaic cell – high potential gain from visible light. Chemical Communications, 2019, 55, 12491-12494. | 4.1 | 6 |
| 76 | Study on photo-degradation of inverted organic solar cells caused by generation of potential barrier between PEDOT:PSS and PBDB-Ts. Sustainable Energy and Fuels, 2021, 5, 3092-3096. | 4.9 | 6 |
| 77 | Photoelectrochemical Properties of Thin Films of Cadmium, Zinc, and Magnesium Porphyrins with Pyridyl Group. Bulletin of the Chemical Society of Japan, 1990, 63, 3315-3316. | 3.2 | 5 |
| 78 | Electrochemical characteristics of viologen carboxylic acid derivatives assembled onto Au electrode as a synthetic receptor for electron-rich compounds. Electrochimica Acta, 2001, 46, 2527-2535. | 5.2 | 5 |
| 79 | Electrocatalytic Activity of Electropolymerized Meldola's Blue toward Oxidation of Dopamine. Electrochemistry, 2006, 74, 32-41. | 1.4 | 5 |
| 80 | Flexible inverted polymer solar cells fabricated in air at low temperatures. Japanese Journal of Applied Physics, 2016, 55, 086501. | 1.5 | 5 |
| 81 | Interpenetrating heterojunction photovoltaic cells based on C60 nano-crystallized thin films. Organic Electronics, 2016, 38, 107-114. | 2.6 | 4 |
| 82 | Planar heterojunction type perovskite solar cells based on TiOxcompact layer fabricated by chemical bath deposition. , 2016, , . | | 4 |
| 83 | Thin film deposition method for ZnO nanosheets using low-temperature microwave-excited atmospheric pressure plasma jet. Thin Solid Films, 2019, 674, 58-63. | 1.8 | 4 |
| 84 | Epoxidation of cyclohexene with active oxygen species produced by reducing dioxygen in the presence of Brâ^' ion. Journal of the Chemical Society Perkin Transactions II, 1999, , 1335-1342. | 0.9 | 3 |
| 85 | Effect of Microstructure and Crystalline Orientation of Pt Single- or Pt/Ru Bilayer-Electrodes on the Work Function and Leakage Current of SrTiO3Capacitors. Japanese Journal of Applied Physics, 2008, 47, 6374-6379. | 1.5 | 3 |
| 86 | Influence of 4â€fluorophenyl pendants in thieno[3,4â€b]thiopheneâ€benzo[1,2â€b:4,5â€b′]dithiopheneâ€bas polymers on the performance of photovoltaics. Journal of Polymer Science Part A, 2015, 53, 1586-1593. | ed 2.3 | 3 |
| 87 | Nanopore analysis of blended organic semiconducting films to clarify photovoltaic performance. Organic Electronics, 2019, 66, 76-80. | 2.6 | 3 |
| 88 | Selective Extraction of Nonfullerene Acceptors from Bulk-Heterojunction Layer in Organic Solar Cells for Detailed Analysis of Microstructure. Materials, 2021, 14, 2107. | 2.9 | 3 |
| 89 | Electrostatic incorporation of alizarin red S into poly[1-methyl-3-(pyrrol-1-ylmethyl)pyridinium] films. Electrochimica Acta, 2002, 47, 1713-1719. | 5.2 | 2 |
| 90 | Development of bifacial inverted polymer solar cells using a conductivity-controlled transparent PEDOT:PSS and a striped Au electrode on the hole collection side. Japanese Journal of Applied Physics, 2014, 53, 02BE07. | 1.5 | 2 |

Κοήση Τακαμάση

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| 91 | Insertion of interlayers in efficient polymer-based organic solar cells for control of phase separation. Japanese Journal of Applied Physics, 2016, 55, 02BF03. | 1.5 | 2 |
| 92 | Electron Transfer Rate of Indigotetrasulfonate Ion Changed with Protonation of 4-Aminothiophenol Monolayer-modified Electrode. Electrochemistry, 1999, 67, 843-849. | 1.4 | 2 |
| 93 | Charge Transport Properties of Polythionine Films Dependent on Electrode Potential and Solution pH. Electrochemistry, 2000, 68, 17-23. | 1.4 | 1 |
| 94 | Electron transfer rate of redox ion controlled by electrostatic interaction with bilayer films assembled using thiolate–copper ion–carboxylate bridges. Electrochimica Acta, 2003, 48, 589-597. | 5.2 | 1 |
| 95 | Voltammetric and Impedance Study of Interaction of Indigo Ion with Thiol Monolayers having Terminal Amino Groups Modified Gold Electrode. Electrochemistry, 2006, 74, 59-64. | 1.4 | 1 |
| 96 | Efficient small-molecule photovoltaic cells using nanostructured template. Proceedings of SPIE, 2014, , . | 0.8 | 1 |
| 97 | Insertion effects of interlayers for efficient polymer-based organic solar cells. Japanese Journal of Applied Physics, 2015, 54, 08KF05. | 1.5 | 1 |
| 98 | Photoelectrochemical Cell Sensitized by Porphyrin Heterodimer. Electrochemistry, 1994, 62, 607-613. | 0.3 | 1 |
| 99 | Electrocatalytic Oxidation of NADH at Polythionine-modified Electrodes as Studied by Rotating Disk Voltammetry. Electrochemistry, 2001, 69, 165-170. | 1.4 | 1 |
| 100 | Dioxygen-activated Reductive Epoxidation of Cyclohexene Using Mn(III) Porphyrin-viologen Catalytic Systems Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1998, 1998, 581-590. | 0.1 | 0 |
| 101 | Planar heterojunction perovskite solar cells fabricated by wet process. , 2017, , . | | 0 |
| 102 | Effects of optical interference and optimized crystallinity in organic photovoltaic cells with a low-bandgap small molecule fabricated by dry process. Japanese Journal of Applied Physics, 2019, 58, SBBG12. | 1.5 | 0 |