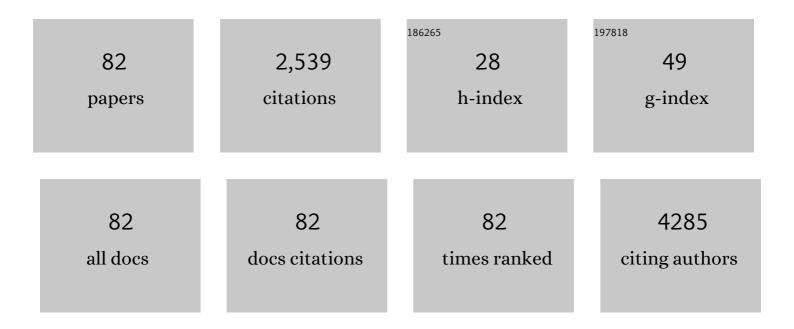
Masayuki Chikamatsu

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Insights into Microscopic Crystal Growth Dynamics of CH ₃ NH ₃ PbI ₃ under a Laser Deposition Process Revealed by <i>In Situ</i> X-ray Diffraction. ACS Applied Materials & Interfaces, 2021, 13, 22559-22566. | 8.0 | 3 |
| 2 | A Sodium Chloride Modification of SnO ₂ Electron Transport Layers to Enhance the Performance of Perovskite Solar Cells. ACS Omega, 2021, 6, 17880-17889. | 3.5 | 29 |
| 3 | Characteristics change in organic photovoltaics by thermal recovery and photodegradation. Japanese Journal of Applied Physics, 2020, 59, SCCD04. | 1.5 | 2 |
| 4 | Improvement in thermal stability of solar cell using a non-fullerene n-type liquid crystalline semiconductor. Japanese Journal of Applied Physics, 2020, 59, 031004. | 1.5 | 0 |
| 5 | Epitaxial growth of CH3NH3PbI3 on rubrene single crystal. APL Materials, 2020, 8, . | 5.1 | 11 |
| 6 | Overview on Research and Development of Perovskite Solar Cells in National Institute of Advanced Industrial Science and Technology. Denki Kagaku, 2020, 88, 184-185. | 0.0 | 0 |
| 7 | Investigation of the power generation of organic photovoltaic modules connected to the power grid for more than three years. Japanese Journal of Applied Physics, 2019, 58, 052001. | 1.5 | 7 |
| 8 | 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 |
| 9 | Optical Characteristics and Operational Principles of Hybrid Perovskite Solar Cells. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700730. | 1.8 | 48 |
| 10 | Influence of O ₂ plasma treatment on NiO <i> _x </i> layer in perovskite solar cells. Japanese Journal of Applied Physics, 2018, 57, 04FS07. | 1.5 | 26 |
| 11 | Organic-Inorganic Hybrid Perovskite Solar Cells. Springer Series in Optical Sciences, 2018, , 463-507. | 0.7 | 2 |
| 12 | Organic-Inorganic Hybrid Perovskites. Springer Series in Optical Sciences, 2018, , 471-493. | 0.7 | 1 |
| 13 | Ultra-thin Cadmium Sulfide Electron-transporting Layer for Planar Perovskite Solar Cell. Chemistry Letters, 2018, 47, 1350-1353. | 1.3 | 3 |
| 14 | Tail state formation in solar cell materials: First principles analyses of zincblende, chalcopyrite, kesterite, and hybrid perovskite crystals. Physical Review Materials, 2018, 2, . | 2.4 | 39 |
| 15 | Organic field-effect transistor based on paramagnetic Cu(II) neutral complexes coordinated by Schiff base-type TTF ligands. Polyhedron, 2017, 136, 70-73. | 2.2 | 8 |
| 16 | Universal rules for visible-light absorption in hybrid perovskite materials. Journal of Applied Physics, 2017, 121, . | 2.5 | 91 |
| 17 | Adjustment of Conduction Band Edge of Compact TiO ₂ Layer in Perovskite Solar Cells Through TiCl ₄ Treatment. ACS Applied Materials & Interfaces, 2017, 9, 36708-36714. | 8.0 | 35 |
| 18 | Determination and interpretation of the optical constants for solar cell materials. Applied Surface Science, 2017, 421, 276-282. | 6.1 | 24 |

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| 19 | Hysteresis Analysis of Organolead Halide Perovskite Solar Cells by Transient Current Measurement. Electrochemistry, 2017, 85, 276-279. | 1.4 | 3 |
| 20 | Novel Cobalt Complexes as a Dopant for Hole-transporting Material in Perovskite Solar Cells. Electrochemistry, 2017, 85, 226-230. | 1.4 | 11 |
| 21 | Constructing Nanostructured Donor/Acceptor Bulk Heterojunctions via Interfacial Templates for Efficient Organic Photovoltaics. ACS Applied Materials & Interfaces, 2017, 9, 43893-43901. | 8.0 | 5 |
| 22 | Stable Delocalized Singlet Biradical Hydrocarbon for Organic Fieldâ€Effect Transistors. Advanced Functional Materials, 2016, 26, 277-283. | 14.9 | 57 |
| 23 | Development of organic thin film devices based on Cu(II) complex with tetrathiafulvalene moieties in the ligands. Molecular Crystals and Liquid Crystals, 2016, 641, 81-85. | 0.9 | 4 |
| 24 | Degradation mechanism of CH3NH3PbI3 perovskite materials upon exposure to humid air. Journal of Applied Physics, 2016, 119, . | 2.5 | 168 |
| 25 | Relationship between photostability and nanostructures in DTS(FBTTh2)2:fullerene bulk-heterojunction films. Solar Energy Materials and Solar Cells, 2016, 151, 96-101. | 6.2 | 7 |
| 26 | Highly Controlled Codeposition Rate of Organolead Halide Perovskite by Laser Evaporation Method. ACS Applied Materials & Interfaces, 2016, 8, 26013-26018. | 8.0 | 25 |
| 27 | Laser deposition for the controlled co-deposition of organolead halide perovskite. , 2016, , . | | 0 |
| 28 | Optical Transitions in Hybrid Perovskite Solar Cells: Ellipsometry, Density Functional Theory, and Quantum Efficiency Analyses for <mml:math <br="" xmlns:mml="http://www.w3.org/1998/Math/MathML">display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>CH</mml:mi></mml:mrow><mml:mn>3Physical Review Applied, 2016, 5, .</mml:mn></mml:msub></mml:mrow></mml:math> | mn ⁸ <td>ıl:msub><m< td=""></m<></td> | ıl:msub> <m< td=""></m<> |
| 29 | Thermal stabilization of organic photovoltaic cells using [6,6]-phenyl C61-butyric acid methyl ester analogs: Effects of alkyl substituents on the nanostructures of bulk heterojunction films and their stabilities. Synthetic Metals, 2016, 221, 61-66. | 3.9 | 3 |
| 30 | Improvement of properties of an ambipolar organic field-effect transistor by using a singlet biradicaloid film. Japanese Journal of Applied Physics, 2016, 55, 011601. | 1.5 | 3 |
| 31 | Fabrication of carbon nanotube hybrid films as transparent electrodes for small-molecule photovoltaic cells. RSC Advances, 2016, 6, 25062-25069. | 3.6 | 10 |
| 32 | Effects of Substituted Alkyl Chain Length on Solution-Processable Layered Organic Semiconductor Crystals. Chemistry of Materials, 2015, 27, 3809-3812. | 6.7 | 144 |
| 33 | Crystallization Dynamics of Organolead Halide Perovskite by Real-Time X-ray Diffraction. Nano Letters, 2015, 15, 5630-5634. | 9.1 | 77 |
| 34 | Understanding Device-Structure-Induced Variations in Open-Circuit Voltage for Organic Photovoltaics. ACS Applied Materials & Interfaces, 2015, 7, 10814-10822. | 8.0 | 2 |
| 35 | Uniaxially oriented polycrystalline thin films and air-stable <i>n</i> -type transistors based on donor-acceptor semiconductor (diC8BTBT)(F <i>n</i> TCNQ) [<i>n</i> = 0, 2, 4]. Applied Physics Letters, 2015, 106, . | 3.3 | 46 |
| 36 | Direct observation of energy band development in a one-dimensional biradical molecular chain by ultraviolet photoemission spectroscopy. Applied Physics Letters, 2013, 102, 134103. | 3.3 | 10 |

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| 37 | Industrially Feasible Approach to Transparent, Flexible, and Conductive Carbon Nanotube Films: Cellulose-Assisted Film Deposition Followed by Solution and Photonic Processing. Applied Physics Express, 2013, 6, 025101. | 2.4 | 24 |
| 38 | Simple push coating of polymer thin-film transistors. Nature Communications, 2012, 3, 1176. | 12.8 | 111 |
| 39 | Optimization of thermal treatment of vapor-deposited thiophene/phenylene co-oligomer films. Journal of Crystal Growth, 2012, 345, 39-43. | 1.5 | 11 |
| 40 | Soluble Fullerene-Based n-Channel Organic Thin-Film Transistors Printed by Using a Polydimethylsiloxane Stamp. ACS Applied Materials & Interfaces, 2011, 3, 836-841. | 8.0 | 8 |
| 41 | Complementary Inverters Based on Soluble P- and N-Channel Organic Semiconductors. IEICE Transactions on Electronics, 2011, E94-C, 1845-1847. | 0.6 | 0 |
| 42 | Anisotropic field-effect hole mobility of liquid crystalline conjugated polymer layers formed on photoaligned polyimide films. Journal of Applied Physics, 2011, 109, . | 2.5 | 29 |
| 43 | Solution-processable Oligothiophene Derivatives with Branched Alkyl Chains and Their Thin-film Transistor Characteristics. Chemistry Letters, 2010, 39, 60-61. | 1.3 | 18 |
| 44 | High-Performance Solution-Processed n-Channel Organic Thin-Film Transistors Based on a Long Chain Alkyl-Substituted C ₆₀ Derivative. Applied Physics Express, 2010, 3, 101601. | 2.4 | 16 |
| 45 | Investigation of Slide-Coating Method for Poly(3-hexylthiophene) Field-Effect Transistors. Japanese Journal of Applied Physics, 2010, 49, 01AE12. | 1.5 | 1 |
| 46 | Highly polarized polymer-based light-emitting diodes fabricated by using very thin photoaligned polyimide layers. Journal of Applied Physics, 2010, 107, . | 2.5 | 14 |
| 47 | Investigation of self-assembled monolayer treatment on SiO2 gate insulator of poly(3-hexylthiophene) thin-film transistors. Thin Solid Films, 2009, 518, 642-646. | 1.8 | 37 |
| 48 | Synergistic effect of polymer and oligomer blends for solution-processable organic thin-film transistors. Organic Electronics, 2008, 9, 952-958. | 2.6 | 13 |
| 49 | High-Performance n-Type Organic Thin-Film Transistors Based on Solution-Processable Perfluoroalkyl-Substituted C ₆₀ Derivatives. Chemistry of Materials, 2008, 20, 7365-7367. | 6.7 | 69 |
| 50 | Preliminary study on organic memory embedded metal nanoparticle stacking layers. , 2008, , . | | 0 |
| 51 | Highly efficient polarized polymer light-emitting diodes utilizing oriented films of β-phase poly(9,9-dioctylfluorene). Applied Physics Letters, 2008, 93, . | 3.3 | 65 |
| 52 | Color Control and White Emission of Organic Light-Emitting Device by External Light. Japanese Journal of Applied Physics, 2007, 46, L345-L347. | 1.5 | 8 |
| 53 | Influences of submonolayer proteins on organic light-emitting diodes. Applied Physics Letters, 2007, 91, 024101. | 3.3 | 3 |
| 54 | Very thin photoalignment films for liquid crystalline conjugated polymers: Application to polarized light-emitting diodes. Applied Physics Letters, 2007, 91, . | 3.3 | 32 |

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| 55 | Ambipolar organic field-effect transistors based on a low band gap semiconductor with balanced hole and electron mobilities. Applied Physics Letters, 2007, 91, . | 3.3 | 120 |
| 56 | Structure, Physical Properties and Thin-Film Transistor Characteristics of Sexithiophene Isomers. Molecular Crystals and Liquid Crystals, 2007, 472, 137/[527]-143/[533]. | 0.9 | 3 |
| 57 | Doping effect of solution-processed thin-film transistors based on polyfluorene. Journal of Materials Chemistry, 2007, 17, 1416. | 6.7 | 65 |
| 58 | Crystal Structure of Friction-Transferred Poly(2,5-dioctyloxy-1,4-phenylenevinylene). Journal of Physical Chemistry B, 2007, 111, 4349-4354. | 2.6 | 34 |
| 59 | Structure and Electrical Properties of Unsubstituted Oligothiophenes End-Capped at the β-Position. Chemistry of Materials, 2007, 19, 2694-2701. | 6.7 | 28 |
| 60 | Organic Lightâ€Emitting Diode Application of Fluorescent Cellulose as a Natural Polymer. Macromolecular Chemistry and Physics, 2007, 208, 2000-2006. | 2.2 | 33 |
| 61 | Organic Memory Device Based on Carbazole-Substituted Cellulose. Macromolecular Rapid Communications, 2007, 28, 1479-1484. | 3.9 | 40 |
| 62 | Single-Crystal-like Structure of Poly(9,9-dioctylfluorene) Thin Films Evaluated by Synchrotron-Sourced Grazing-Incidence X-ray Diffraction. Polymer Journal, 2007, 39, 1306-1311. | 2.7 | 8 |
| 63 | Color-variable organic light-emitting device by external light irradiation. Applied Physics Letters, 2006, 89, 223520. | 3.3 | 2 |
| 64 | ITO surface smoothing with argon cluster ion beam. Nuclear Instruments & Methods in Physics Research B, 2006, 242, 140-142. | 1.4 | 9 |
| 65 | Correlation of molecular structure, packing motif and thin-film transistor characteristics of solution-processed n-type organic semiconductors based on dodecyl-substituted C60 derivatives. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 182, 245-249. | 3.9 | 17 |
| 66 | Development of New D-A Systems Based on Fullerene and TTF for Organic Devices. Molecular Crystals and Liquid Crystals, 2006, 455, 387-394. | 0.9 | 0 |
| 67 | Polymer-Supported Anisotropic Submicrometer-Patterned Electrodes for Displays. Advanced Materials, 2005, 17, 297-301. | 21.0 | 5 |
| 68 | Highly polarized polymer light-emitting diodes utilizing friction-transferred poly(9,9-dioctylfluorene) thin films. Applied Physics Letters, 2005, 87, 243503. | 3.3 | 83 |
| 69 | Solution-processed n-type organic thin-film transistors with high field-effect mobility. Applied Physics Letters, 2005, 87, 203504. | 3.3 | 116 |
| 70 | Mg-doped C60 thin film as improved n-type organic semiconductor for a solar cell. Applied Physics Letters, 2004, 84, 127-129. | 3.3 | 39 |
| 71 | Effects of intrinsic layer thickness on solar cell parameters of organic pâ€iâ€n heterojunction photovoltaic cells. Applied Physics Letters, 2004, 85, 6412-6414. | 3.3 | 57 |
| 72 | C60 thin-film transistors with low work-function metal electrodes. Applied Physics Letters, 2004, 85, 2396-2398. | 3.3 | 25 |

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| 73 | Nanocrystalline metal electrodes for high-efficiency organic solar cells. Applied Physics Letters, 2004, 85, 1832-1834. | 3.3 | 9 |
| 74 | Insertion of Thin Interlayers under the Negative Electrode of C60Schottky-Type Photovoltaic Cells. Journal of Physical Chemistry B, 2004, 108, 1-3. | 2.6 | 49 |
| 75 | Photoresponsive organic electroluminescent devices. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 158, 215-218. | 3.9 | 9 |
| 76 | LiF/Al bilayer source and drain electrodes for n-channel organic field-effect transistors. Synthetic Metals, 2003, 137, 953-954. | 3.9 | 7 |
| 77 | Preparation of Anisotropic Fine Metal Electrodes and Application to the Electroluminescent Devices. Shinku/Journal of the Vacuum Society of Japan, 2003, 46, 835-839. | 0.2 | 0 |
| 78 | Device Performance of an n-Channel Organic Thin-Film Transistor with LiF/Al Bilayer Source and Drain Electrodes. Japanese Journal of Applied Physics, 2002, 41, L808-L810. | 1.5 | 19 |
| 79 | Light up-conversion from near-infrared to blue using a photoresponsive organic light-emitting device. Applied Physics Letters, 2002, 81, 769-771. | 3.3 | 45 |
| 80 | Electrical and Optical Properties of a Potassium- doped Film of a Long Alkyl Chain-linked C 60. Molecular Crystals and Liquid Crystals, 2002, 377, 353-356. | 0.9 | 4 |
| 81 | Structural Study on Cast Films of C ₆₀ Derivatives with Long Alkyl Chains. Molecular Crystals and Liquid Crystals, 1998, 316, 157-160. | 0.3 | 5 |
| 82 | High-Performance Poly(3-hexylthiophene) Field-Effect Transistors Fabricated by a Slide-Coating Method. Applied Physics Express, 0, 1, 061802. | 2.4 | 23 |