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List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

1,308
citations

448610

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h-index

425179

34
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92
all docs

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docs citations

92
times ranked

1968
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Smart Face Mask Based on an Ultrathin Pressure Sensor for Wireless Monitoring of Breath Conditions. <i>Advanced Materials</i> , 2022, 34, e2107758. | 11.1 | 75 |
| 2 | 3D-printed swab with cover for precision diagnosis. <i>Journal of Materials Science: Materials in Medicine</i> , 2022, 33, 8. | 1.7 | 2 |
| 3 | Cell-Based Microfluidic Device Utilizing Cell Sheet Technology. <i>Cyborg and Bionic Systems</i> , 2022, 2022, . | 3.7 | 5 |
| 4 | Electro-spray deposited TiO ₂ bilayer films and their recyclable photocatalytic self-cleaning strategy. <i>Scientific Reports</i> , 2022, 12, 1582. | 1.6 | 3 |
| 5 | Smart Face Mask Based on an Ultrathin Pressure Sensor for Wireless Monitoring of Breath Conditions (Adv. Mater. 6/2022). <i>Advanced Materials</i> , 2022, 34, . | 11.1 | 4 |
| 6 | Spray Pyrolyzed TiO ₂ Embedded Multi-Layer Front Contact Design for High-Efficiency Perovskite Solar Cells. <i>Nano-Micro Letters</i> , 2021, 13, 36. | 14.4 | 50 |
| 7 | Simultaneous measurement of contractile force and field potential of dynamically beating human iPSC-derived cardiac cell sheet-tissue with flexible electronics. <i>Lab on A Chip</i> , 2021, 21, 3899-3909. | 3.1 | 9 |
| 8 | Remote radio control of insect flight reveals why beetles lift their legs in flight while other insects tightly fold. <i>Bioinspiration and Biomimetics</i> , 2021, 16, 036001. | 1.5 | 8 |
| 9 | New cost effective design of PCR heating cyclers system using Peltier plate without the conventional heating block. <i>Journal of Mechanical Science and Technology</i> , 2021, 35, 3259-3268. | 0.7 | 17 |
| 10 | An organic transistor matrix for multipoint intracellular action potential recording. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 15 |
| 11 | Photoactive layer formation in the dark for high performance of air-processable organic photovoltaics. <i>JPhys Materials</i> , 2021, 4, 044016. | 1.8 | 4 |
| 12 | Low-temperature treated anatase TiO ₂ nanophotonic-structured contact design for efficient triple-cation perovskite solar cells. <i>Chemical Engineering Journal</i> , 2021, 426, 131831. | 6.6 | 22 |
| 13 | Best of both worlds: A novel, environment-friendly approach to 3D printing metal-plastic hybrid structures. <i>Reinforced Plastics</i> , 2021, 65, 53-55. | 0.5 | 5 |
| 14 | Smooth and slipless walking mechanism inspired by the open-close cycle of a beetle claw. <i>Bioinspiration and Biomimetics</i> , 2021, 16, 016011. | 1.5 | 10 |
| 15 | Paste Aging Spontaneously Tunes TiO ₂ Nanoparticles into Reproducible Electrospayed Photoelectrodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 53758-53766. | 4.0 | 3 |
| 16 | Direct gold bonding for flexible integrated electronics. <i>Science Advances</i> , 2021, 7, eabl6228. | 4.7 | 25 |
| 17 | Metal-plastic hybrid 3D printing using catalyst-loaded filament and electroless plating. <i>Additive Manufacturing</i> , 2020, 36, 101556. | 1.7 | 22 |
| 18 | A high quality surface finish grinding process to produce total reflection mirror for x-ray fluorescence analysis. <i>International Journal of Extreme Manufacturing</i> , 2020, 2, 015101. | 6.3 | 13 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Supercapacitors: An Efficient Ultra-Flexible Photo-Charging System Integrating Organic Photovoltaics and Supercapacitors (Adv. Energy Mater. 20/2020). Advanced Energy Materials, 2020, 10, 2070090. | 10.2 | 4 |
| 20 | Paper-Based Electrochemical Sensors Using Paper as a Scaffold to Create Porous Carbon Nanotube Electrodes. ACS Applied Materials & Interfaces, 2020, 12, 30680-30685. | 4.0 | 37 |
| 21 | Airtight, flexible, disposable barrier for extubation. Journal of Anesthesia, 2020, 34, 798-799. | 0.7 | 5 |
| 22 | A single-phase brookite TiO ₂ nanoparticle bridge enhances the stability of perovskite solar cells. Sustainable Energy and Fuels, 2020, 4, 2009-2017. | 2.5 | 25 |
| 23 | PD-L1/L2 protein levels rapidly increase on monocytes via trogocytosis from tumor cells in classical Hodgkin lymphoma. Leukemia, 2020, 34, 2405-2417. | 3.3 | 31 |
| 24 | Nanograting Structured Ultrathin Substrate for Ultraflexible Organic Photovoltaics. Small Methods, 2020, 4, 1900762. | 4.6 | 18 |
| 25 | Groove fabrication on surface of soft gelatin gel utilizing micro-electrical discharge machining (Micro-EDM). Journal of Food Engineering, 2020, 277, 109919. | 2.7 | 10 |
| 26 | Printing support hydrogels for creating vascular-like structures in stacked cell sheets. Artificial Life and Robotics, 2020, 25, 199-203. | 0.7 | 3 |
| 27 | An Efficient Ultra-Flexible Photo-Charging System Integrating Organic Photovoltaics and Supercapacitors. Advanced Energy Materials, 2020, 10, 2000523. | 10.2 | 46 |
| 28 | Ultraflexible Organic Photovoltaics: Nanograting Structured Ultrathin Substrate for Ultraflexible Organic Photovoltaics (Small Methods 3/2020). Small Methods, 2020, 4, 2070013. | 4.6 | 0 |
| 29 | High Operation Stability of Ultraflexible Organic Solar Cells with Ultraviolet-Filtering Substrates. Advanced Materials, 2019, 31, e1808033. | 11.1 | 44 |
| 30 | New thermal protection system using high-temperature carbon fibre-reinforced plastic sandwich panel. Acta Astronautica, 2019, 160, 519-526. | 1.7 | 37 |
| 31 | Development of Insect Cyborgs with Artificial Wings. , 2019, , . | | 1 |
| 32 | Flying Cyborg: A New Approach for the Study of Coleoptera's Flight Pitching. , 2019, , . | | 0 |
| 33 | Attempts on Pico-Precision Machining via Combination of ELID-Grinding and Polishing. Journal of the Japan Society for Precision Engineering, 2019, 85, 304-309. | 0.0 | 1 |
| 34 | Oblique Electrostatic Inkjet-Deposited TiO ₂ Electron Transport Layers for Efficient Planar Perovskite Solar Cells. Scientific Reports, 2019, 9, 19494. | 1.6 | 29 |
| 35 | Low-Temperature-Processed Brookite-Based TiO ₂ Heterophase Junction Enhances Performance of Planar Perovskite Solar Cells. Nano Letters, 2019, 19, 598-604. | 4.5 | 61 |
| 36 | Durable Ultraflexible Organic Photovoltaics with Novel Metal-Oxide-Free Cathode. Advanced Functional Materials, 2019, 29, 1808378. | 7.8 | 34 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Development of a high-precision viscous chocolate printer utilizing electrostatic inkjet printing. Journal of Food Process Engineering, 2019, 42, e12934. | 1.5 | 9 |
| 38 | Thermally stable, highly efficient, ultraflexible organic photovoltaics. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4589-4594. | 3.3 | 106 |
| 39 | The high precision drawing method of chocolate utilizing electrostatic ink-jet printer. Journal of Food Engineering, 2018, 216, 138-143. | 2.7 | 18 |
| 40 | Highly Efficient Planar Perovskite Solar Cells Exploiting a Compact TiO ₂ /Anatase TiO ₂ /Single Crystalline Nanoparticles Electron Transport Bilayer. , 2018, , . | | 0 |
| 41 | Ultraflexible Near-Infrared Organic Photodetectors for Conformal Photoplethysmogram Sensors. Advanced Materials, 2018, 30, e1802359. | 11.1 | 171 |
| 42 | Simple action potential measurement of cardiac cell sheet utilizing electronic sheet. Artificial Life and Robotics, 2018, 23, 321-327. | 0.7 | 2 |
| 43 | Development of the Improving Process for the 3D Printed Structure. Scientific Reports, 2017, 7, 39852. | 1.6 | 67 |
| 44 | Fundamental characteristics of printed gelatin utilizing micro 3D printer. Artificial Life and Robotics, 2017, 22, 316-320. | 0.7 | 4 |
| 45 | Fabrication of micro-gelatin fiber utilizing coacervation method. Artificial Life and Robotics, 2017, 22, 197-202. | 0.7 | 3 |
| 46 | Fabrication of micro-alginate gel tubes utilizing micro-gelatin fibers. Japanese Journal of Applied Physics, 2017, 56, 05EB06. | 0.8 | 1 |
| 47 | Bio-inspired wing-folding mechanism of micro air vehicle (MAV). Artificial Life and Robotics, 2017, 22, 203-208. | 0.7 | 13 |
| 48 | Flow control for cell growth by movement of magnetic particles utilizing electromagnetic force. Artificial Life and Robotics, 2016, 21, 1-4. | 0.7 | 9 |
| 49 | Printing Characteristic of Gelatin utilizing Micro 3D Printer attached a Warm Machine. The Proceedings of the Materials and Processing Conference, 2016, 2016.24, 403. | 0.0 | 0 |
| 50 | High Efficiency Dye-Sensitized Solar Cell. Hosokawa Powder Technology Foundation ANNUAL REPORT, 2015, 23, 65-69. | 0.0 | 0 |
| 51 | Precision printing of gelatin utilizing electrostatic inkjet. Japanese Journal of Applied Physics, 2014, 53, 05HC01. | 0.8 | 9 |
| 52 | Spray-coated Pt counter electrode of dye-sensitized solar cell utilizing electrostatic inkjet printing. Japanese Journal of Applied Physics, 2014, 53, 05HA08. | 0.8 | 2 |
| 53 | Fabrication of Comb Shape of Leading Edge Wing of Dragonfly. Key Engineering Materials, 2014, 625, 182-186. | 0.4 | 1 |
| 54 | Characteristics on micro-biofabrication by patterning with electrostatically injected droplet. CIRP Annals - Manufacturing Technology, 2014, 63, 221-224. | 1.7 | 12 |

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|----|--|-----|-----------|
| 55 | Fabrication and Mechanical Properties of C/C-HfC-SiC Composites. Key Engineering Materials, 2014, 625, 657-661. | 0.4 | 3 |
| 56 | Fundamental Characteristics of Bioprint on Calcium Alginate Gel. Japanese Journal of Applied Physics, 2013, 52, 05DB20. | 0.8 | 6 |
| 57 | Dye-Sensitized Solar Cell Utilizing Electrostatic Inkjet. Japanese Journal of Applied Physics, 2013, 52, 05DC23. | 0.8 | 13 |
| 58 | Fabrication of Dye-sensitized Solar Cells Using Electrostatic Inkjet Printing. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2013, 26, 383-385. | 0.1 | 6 |
| 59 | NEW DYE ADSORPTION METHOD FOR DYE-SENSITIZED SOLAR CELL UTILIZING ELECTROSTATIC INKJET. Journal of Advanced Science, 2013, 25, 25-30. | 0.1 | 0 |
| 60 | BioCell print utilizing patterning with electrostatically injected droplet (PELID) method. Artificial Life and Robotics, 2012, 17, 59-62. | 0.7 | 7 |
| 61 | Fabrication of collagen gel fiber films utilizing PELID method. Journal of Advanced Science, 2012, 23, 14-18. | 0.1 | 1 |
| 62 | Development of the dye-sensitized solar cell by micro digital fabrication. Journal of Advanced Science, 2012, 24, 16-20. | 0.1 | 0 |
| 63 | Core Technologies on Roll-to-Roll Printed Electronics. Journal of the Japan Society for Precision Engineering, 2012, 78, 674-677. | 0.0 | 1 |
| 64 | Fundamental characteristics of printed cell structures utilizing electrostatic inkjet phenomena. Sensors and Actuators A: Physical, 2011, 166, 251-255. | 2.0 | 28 |
| 65 | 711 Patterning collagen Utilizing PELID Method and its applications for Three-Dimensional cell Structures. The Proceedings of Ibaraki District Conference, 2011, 2011.19, 197-198. | 0.0 | 0 |
| 66 | Fabrication of solar cell utilizing digital fabrication technology. , 2010, , . | | 0 |
| 67 | 1108 Fabrication of Three Dimensional Cellular Structure Utilizing PELID (Patterning with) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 59 2010.18, 315-316. | 0.0 | 0 |
| 68 | S1602-2-2 Fabrication of umbo on dragonfly wing vein. The Proceedings of the JSME Annual Meeting, 2010, 2010.5, 83-84. | 0.0 | 0 |
| 69 | Fabrication of Living Cell Structure Utilizing Electro-Static Inkjet Phenomena. , 2009, , . | | 0 |
| 70 | Electrostatic micro-ozone fan that utilizes ionic wind induced in pin-to-plate corona discharge system. Journal of Electrostatics, 2008, 66, 445-454. | 1.0 | 35 |
| 71 | An Ozone Fan Utilizing Pin-to-Plate Corona Discharge Field. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2007, 73, 2116-2121. | 0.2 | 0 |
| 72 | Micro Fan Utilizing Ionic Wind Induced in Pin-to-Plate Discharge System. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2007, 73, 789-795. | 0.2 | 0 |

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| 73 | Development of electrostatic paper separation and feed mechanism. Journal of Electrostatics, 2007, 65, 438-444. | 1.0 | 9 |
| 74 | Force at spark discharge in pin-to-plate system. Journal of Electrostatics, 2007, 65, 75-81. | 1.0 | 5 |
| 75 | 1207 Inkjet Printing Utilizing Electrostatic Force. The Proceedings of the Conference on Information Intelligence and Precision Equipment IIP, 2007, 2007, 128-130. | 0.0 | 0 |
| 76 | Classification of Particle Size Utilizing Traveling Wave Field. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2006, 72, 3509-3516. | 0.2 | 0 |
| 77 | Flow distribution and pressure of air due to ionic wind in pin-to-plate corona discharge system. Journal of Electrostatics, 2006, 64, 400-407. | 1.0 | 35 |
| 78 | Paper Separation and Feed Mechanism Utilizing Electrostatic Force. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2005, 71, 1361-1367. | 0.2 | 0 |
| 79 | Micro Electrostatic Driving Mechanisms Utilizing Slanted-Fiber Sheet and Slanted-Plates. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2005, 71, 1884-1891. | 0.2 | 1 |
| 80 | Electrohydrodynamic deformation of water surface in a metal pin to water plate corona discharge system. Journal Physics D: Applied Physics, 2005, 38, 887-894. | 1.3 | 46 |
| 81 | Force at Spark Discharge in Pin-to-Plate Gas Discharge System. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2004, 70, 1149-1154. | 0.2 | 0 |
| 82 | Ionic Wind in Pin-to-Plate Corona Discharge System. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2004, 70, 169-175. | 0.2 | 3 |
| 83 | Micro-Driving Mechanisms Utilizing Force Generated in Pin-to-Plate Gas Discharge System. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2004, 70, 3260-3265. | 0.2 | 0 |
| 84 | Analysis of Electrostatic Driving Mechanism with Slanted-Fiber Sheet. The Proceedings of the JSME Annual Meeting, 2004, 2004.5, 375-376. | 0.0 | 0 |
| 85 | Formation of Micro Droplet Utilizing Electrostatic Inkjet Phenomena. The Proceedings of the Conference on Information Intelligence and Precision Equipment IIP, 2004, 2004, 254-257. | 0.0 | 0 |
| 86 | Paper Separation Mechanism Utilizing Electrostatic Force. The Proceedings of the JSME Annual Meeting, 2003, 2003.5, 287-288. | 0.0 | 0 |
| 87 | P-CM-01 Electrostatic Inkjet Phenomena Utilizing Pin-to-Plate System. Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2003, 2003, 327-328. | 0.0 | 0 |
| 88 | 220 Ionic Wind in Pin-to-Plate Discharge System. The Proceedings of the Dynamics & Design Conference, 2003, 2003, _220-1_- _220-4_. | 0.0 | 0 |
| 89 | Electrostatic Driving Mechanism with Slanted-Fiber Seat. The Proceedings of the JSME Annual Meeting, 2003, 2003.5, 285-286. | 0.0 | 0 |
| 90 | P-CM-02 Paper Separation and Feed Utilizing Electrostatic Force. Proceedings of JSME-IIP/ASME-ISPS Joint Conference on Micromechatronics for Information and Precision Equipment IIP/ISPS Joint MIPE, 2003, 2003, 329-330. | 0.0 | 0 |

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| 91 | Driving Mechanism on Water in Pin-to-Plate Gas Discharge Field. The Proceedings of the JSME Annual Meeting, 2002, 2002.7, 237-238. | 0.0 | 0 |