

# Sei Uemura

## List of Publications by Year in descending order

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67  
papers

945  
citations

516710

16  
h-index

477307

29  
g-index

68  
all docs

68  
docs citations

68  
times ranked

1172  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of moisture on device characteristics of polythiophene-based field-effect transistors. <i>Journal of Applied Physics</i> , 2004, 95, 5088-5093.	2.5	229
2	Threshold voltage stability of organic field-effect transistors for various chemical species in the insulator surface. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	66
3	An organic red-emitting diode with a water-soluble DNA- $\pi$ -polyaniline complex containing Ru(bpy) $_3^{2+}$ . <i>Journal of Materials Chemistry</i> , 2001, 11, 1766-1768.	6.7	65
4	Investigation for surface modification of polymer as an insulator layer of organic FET. <i>Thin Solid Films</i> , 2003, 438-439, 378-381.	1.8	55
5	Influence of fine roughness of insulator surface on threshold voltage stability of organic field-effect transistors. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	44
6	Template photopolymerization of dimeric aniline by photocatalytic reaction with Ru(bpy) $_3^{2+}$ in the presence of DNA. <i>Journal of Materials Chemistry</i> , 2001, 11, 267-268.	6.7	34
7	Effect of pH on Photopolymerization Reaction of Aniline Derivatives with the Tris(2,2'-bipyridyl)ruthenium Complex and the Methylviologen System. <i>Macromolecules</i> , 1998, 31, 6783-6788.	4.8	31
8	Non-volatile transistor memory fabricated using DNA and eliminating influence of mobile ions on electric properties. <i>Journal of Materials Chemistry</i> , 2011, 21, 15575.	6.7	26
9	Development of Field-Effect Transistor-Type Photorewritable Memory Using Photochromic Interface Layer. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 04DK09.	1.5	25
10	In- $\text{Ga}$ -Zn oxide nanoparticles acting as an oxide semiconductor material synthesized via a coprecipitation-based method. <i>Journal of Materials Chemistry C</i> , 2014, 2, 2448.	5.5	23
11	Rapid preparation of solution-processed InGaZnO thin films by microwave annealing and photoirradiation. <i>AIP Advances</i> , 2015, 5, .	1.3	22
12	Photopolymerized Conducting Potyaniline Micropattern and Its Application. <i>Synthetic Metals</i> , 1999, 101, 701-702.	3.9	20
13	Photopolymerization of Aniline Dimer by Photocatalytic Reaction of Ruthenium Trisbipyridyl in the Interlayer of Hectorite Clay. <i>Polymer Journal</i> , 2000, 32, 987-990.	2.7	19
14	Memory mechanism of printable ferroelectric TFT memory with tertiary structured polypeptide as a dielectric layer. <i>Synthetic Metals</i> , 2009, 159, 961-964.	3.9	18
15	Actuation Behavior of Polylactic Acid Fiber Films Prepared by Electrospinning. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 3343-3348.	0.9	18
16	Stretchable conductor from oriented short conductive fibers for wiring soft electronics. <i>Polymer Bulletin</i> , 2016, 73, 2521-2529.	3.3	16
17	High-mobility solution-processed organic thin-film transistor array for active-matrix color liquid-crystal displays. <i>Journal of the Society for Information Display</i> , 2008, 16, 161-167.	2.1	15
18	High electromechanical response from bipolarly charged as-electrospun polystyrene fiber mat. <i>Smart Materials and Structures</i> , 2019, 28, 08LT02.	3.5	15

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19	Temporal Changes in Source-Drain Current for Organic Field-Effect Transistors Caused by Dipole on Insulator Surface. <i>Applied Physics Express</i> , 0, 1, 061801.	2.4	14
20	Temperature-dependent characteristics of non-volatile transistor memory based on a polypeptide. <i>Journal of Materials Chemistry C</i> , 2014, 2, 879-883.	5.5	13
21	Printed pressure sensor array sheets fabricated using poly(amino acid)-based piezoelectric elements. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05HB15.	1.5	12
22	Photopolymerization of aniline derivatives by photoinduced electron transfer for application to image formation. <i>Journal of Materials Chemistry</i> , 2001, 11, 1585-1589.	6.7	11
23	Amorphous Electrically Actuating Submicron Fiber Waveguides. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1700302.	3.6	11
24	Solution-processed hybrid organic-inorganic complementary thin-film transistor inverter. <i>Japanese Journal of Applied Physics</i> , 2016, 55, 04EL04.	1.5	10
25	Electromechanically Active As Electrospun Polystyrene Fiber Mat: Significantly High Quasistatic/Dynamic Electromechanical Response and Theoretical Modeling. <i>Macromolecular Rapid Communications</i> , 2020, 41, e2000218.	3.9	10
26	Characterization of an oxide semiconductor prepared by microwave sintering. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05HA12.	1.5	9
27	Temperature dependence of transfer characteristics of OTFT memory based on DNA-CTMA gate dielectric. <i>Organic Electronics</i> , 2016, 28, 294-298.	2.6	9
28	Electrospun poly(methyl methacrylate) fibrous mat showing piezoelectric properties. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 05GC06.	1.5	9
29	Atmospheric-pressure plasma oxidation of aluminum for large-area electronics. <i>Journal of Applied Physics</i> , 2019, 125, 215501.	2.5	8
30	Pressure Sensor Array Fabricated with Polyamino Acid. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2013, 26, 411-414.	0.3	7
31	Effect of Microwave Annealing on Oxide-Semiconductor-Precursor Ink. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2014, 27, 339-342.	0.3	7
32	Non-Volatile Transistor Memory with a Polypeptide Dielectric. <i>Molecules</i> , 2020, 25, 499.	3.8	7
33	Formation of polyaniline/micelle complex with photocatalytic reaction. <i>Synthetic Metals</i> , 2001, 119, 89-90.	3.9	6
34	Polarized FT-IR Study of Uniaxially Aligned Electrospun Poly(DL-Lactic Acid) Fiber Films. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2016, 29, 353-356.	0.3	6
35	Flexible InGaZnO TFT devices obtained via humid-UV irradiation with an aqueous-fluoroalcoholic precursor. <i>Flexible and Printed Electronics</i> , 2016, 1, 045001.	2.7	6
36	Reduction of threshold voltage fluctuation for organic field effect transistors by increase of insulator capacitance. <i>Thin Solid Films</i> , 2008, 516, 2739-2742.	1.8	5

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37	Suitability of Copper Nitride as a Wiring Ink Sintered by Low-Energy Intense Pulsed Light Irradiation. <i>Nanomaterials</i> , 2018, 8, 617.	4.1	5
38	Wettability control with self-assembler patterning for printed electronics. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 041002.	1.5	5
39	Printed Electrode for All-Printed Polymer Diode. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 04DK16.	1.5	4
40	High Performance Organic Field Effect Transistor With a novel Top-And-Bottom Contact (TBC) Structure. <i>Materials Research Society Symposia Proceedings</i> , 2002, 736, 1.	0.1	3
41	Effect of Built-in Potential under Drain Electrodes on Threshold Voltage of Organic Field-Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L883-L885.	1.5	3
42	Investigation of Low Temperature Process of Solution Processed Oxide Semiconductor as a Thin Film Transistor. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2015, 28, 353-355.	0.3	3
43	Fabrication and performance of pressure-sensing device consisting of electret film and organic semiconductor. <i>Japanese Journal of Applied Physics</i> , 2017, 56, 04CL09.	1.5	3
44	Structure of DNA-Octadecyltrimethylammonium Chloride Biopolymer Complex and the Application to Non-Volatile BiOTFT Memory. <i>Science of Advanced Materials</i> , 2014, 6, 1516-1519.	0.7	3
45	Effect of amide bond in gate dielectric polymers on memory performance of organic field-effect transistors. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 05HB13.	1.5	2
46	Effect of Dielectric Behavior of Gate Dielectric Polymers on Memory Characteristics of Organic Field-effect Transistors. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2014, 27, 333-337.	0.3	2
47	Study of Thermally Stimulated Current in Fibrous Poly(DL-Lactic Acid) Films Exhibiting Piezoelectric-Like Behavior. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2015, 28, 369-372.	0.3	2
48	Gate Bias Modulated Current Flow Analysis at Organic Semiconductor / Metal Interface for Developing High Performance Organic Fet. <i>Materials Research Society Symposia Proceedings</i> , 2002, 734, 9321.	0.1	1
49	Importance of Semiconductor/Insulator Interface for Improving Transistor Properties of OFET. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 455, 327-332.	0.9	1
50	Time variation of source-drain current for organic field-effect transistors with dipoles of insulator surface. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 601-603.	0.8	1
51	Electronic properties of DNA-surfactant complex and its application to DNA-based bio-organic field effect transistor memory. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
52	Electric actuating and optical waveguiding poly(DL-lactic acid) nanofibers. , 2015, , .		1
53	High Temperature Hysteresis in Bio-Organic Field-Effect Transistor based on DNA-CTMA as Gate Dielectric. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2017, 30, 513-517.	0.3	1
54	Work Function Controlled Zn:Cu Electrode for All-Printed Polymer Diode. <i>Japanese Journal of Applied Physics</i> , 2012, 51, 02BK05.	1.5	1

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55	Direct Preparation of Mixed Self-assembled Monolayers Based on Common-substructure-tailored Phosphonic Acids for Fine Control of Surface Wettability. Chemistry Letters, 2020, 49, 1302-1305.	1.3	1
56	Robustness of organic physically unclonable function with buskeeper circuit for flexible security devices. Japanese Journal of Applied Physics, 2022, 61, SE1016.	1.5	1
57	Polymer-Clay Hybrid Dielectric Layer for Flexible Organic Thin Film Transistors. Materials Research Society Symposia Proceedings, 2006, 939, 1.	0.1	0
58	Low Temperature Solution-Based Fabrications of Metal Oxide Semiconductor Films by Mechanical Sintering. Materials Research Society Symposia Proceedings, 2008, 1113, 1.	0.1	0
59	Silicon Oxide Composite Film Fabricated by Wet Process at Low Temperature as a Passivation Layer for Printable Electric Device. Materials Research Society Symposia Proceedings, 2008, 1113, 1.	0.1	0
60	Mechanical Sintering Techniques for Printed Electrodes with Various Work-function on a Plastic Substrate. Materials Research Society Symposia Proceedings, 2009, 1196, 34.	0.1	0
61	Development of SiO <sub>2</sub> Dielectric Thin Film Prepared by the Low-temperature Solution Process. Materials Research Society Symposia Proceedings, 2009, 1196, 46.	0.1	0
62	Short-time-scale threshold voltage shifts in organic field-effect transistors caused by dipoles on insulator surface. Physics Procedia, 2011, 14, 217-220.	1.2	0
63	Work Function Controlled Printed Metal Alloy Pattern Prepared by Using Pressure Annealing Technique. Materials Research Society Symposia Proceedings, 2011, 1288, 1.	0.1	0
64	Work Function Controlled Zn:Cu Electrode for All-Printed Polymer Diode. Japanese Journal of Applied Physics, 2012, 51, 02BK05.	1.5	0
65	Fabrication and characterization of OTFT memory based on DNA gate dielectric. Proceedings of SPIE, 2013, , .	0.8	0
66	Transient Drain Current Measurement for Polymer Transistor Containing Residual Bromine Atoms. Japanese Journal of Applied Physics, 2011, 50, 081604.	1.5	0
67	Transient Drain Current Measurement for Polymer Transistor Containing Residual Bromine Atoms. Japanese Journal of Applied Physics, 2011, 50, 081604.	1.5	0