

Susumu Ikeda

List of Publications by Year in descending order

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83
papers

1,685
citations

257450

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84
times ranked

2341
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular dynamics simulations of pentacene thin film growth: Stability of nuclei comprising standing molecules and their subsequent growth. <i>Applied Physics Express</i> , 2020, 13, 015508.	2.4	8
2	Water permeation pathways in laminated organic single-crystal devices. <i>AIP Advances</i> , 2020, 10, 075312.	1.3	1
3	10.1063/5.0009912.1., 2020, , .		0
4	Behavior of critical nuclei of pentacene formed on a substrate surface based on the results of molecular dynamics simulations. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 115506.	1.5	3
5	Probing Surface Morphology using X-ray Grating Interferometry. <i>Scientific Reports</i> , 2019, 9, 14120.	3.3	8
6	Fe azaphthalocyanine unimolecular layers (Fe AzULs) on carbon nanotubes for realizing highly active oxygen reduction reaction (ORR) catalytic electrodes. <i>NPG Asia Materials</i> , 2019, 11, .	7.9	30
7	Three-dimensional observation of the boundary region between massive feldspar and graphic granite by X-ray computed tomography. <i>Journal of Mineralogical and Petrological Sciences</i> , 2019, 114, 1-17.	0.9	1
8	Molecular dynamics simulations of graphoepitaxy of organic semiconductors, sexithiophene, and pentacene: Molecular-scale mechanisms of organic graphoepitaxy. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 03EG04.	1.5	6
9	Comparative Study of Single and Dual Gain-Narrowed Emission in Thiophene/Furan/Phenylene Co-Oligomer Single Crystals. <i>Journal of Physical Chemistry C</i> , 2017, 121, 2364-2368.	3.1	12
10	Three-dimensional study by synchrotron radiation computed tomography of melt distribution in samples doped to enhance contrast. <i>Mineralogical Magazine</i> , 2017, 81, 1203-1222.	1.4	1
11	Materials inspired by mathematics. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 253-259.	6.1	14
12	Biphenyl end-capped bithiazole co-oligomers for high performance organic thin film field effect transistors. <i>Chemical Communications</i> , 2016, 52, 4926-4929.	4.1	16
13	2-Positional pyrene end-capped oligothiophenes for high performance organic field effect transistors. <i>Chemical Communications</i> , 2016, 52, 4800-4803.	4.1	41
14	Grapho-epitaxial Orientation Control for Organic Molecules. <i>Journal of the Institute of Electrical Engineers of Japan</i> , 2016, 136, 74-77.	0.0	0
15	Equivalent ambipolar carrier injection of electrons and holes with Au electrodes in air-stable field effect transistors. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	11
16	Theoretical Analysis on the Optoelectronic Properties of Single Crystals of Thiophene-furan-phenylene Co-Oligomers: Efficient Photoluminescence due to Molecular Bending. <i>Journal of Physical Chemistry C</i> , 2013, 117, 8072-8078.	3.1	30
17	Single crystal biphenyl end-capped furan-incorporated oligomers: influence of unusual packing structure on carrier mobility and luminescence. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4163.	5.5	73
18	Noble Metal Intercalated Fullerene Fabricated by Low-temperature Co-deposition. <i>Advanced Materials</i> , 2010, 22, 43-46.	21.0	15

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19	Ambipolar behavior of 2,5-diphenyl-1,4-distyrylbenzene based field effect transistors: An experimental and theoretical study. Applied Physics Letters, 2010, 97, 033305.	3.3	21
20	Modified bimodal growth mechanism of pentacene thin films at elevated substrate temperatures. Journal of Physics Condensed Matter, 2010, 22, 262001.	1.8	8
21	Oriented Growth of Sexithiophene Induced by Edge of Metal Electrodes. Japanese Journal of Applied Physics, 2010, 49, 04DK19.	1.5	6
22	Thermally induced structural characteristics of pentacene thin films. Journal of Applied Physics, 2009, 105, 113520.	2.5	3
23	Real-time Observation and Control of Pentacene Film Growth on an Artificially Structured Substrate. Advanced Materials, 2009, 21, 4996-5000.	21.0	22
24	Surface-Mediated Visible-Light Photo-oxidation on Pure TiO ₂ (001). Journal of the American Chemical Society, 2009, 131, 14670-14672.	13.7	88
25	Direct measurements of chemical composition of shock-induced gases from calcite: an intense global warming after the Chicxulub impact due to the indirect greenhouse effect of carbon monoxide. Earth and Planetary Science Letters, 2009, 282, 56-64.	4.4	35
26	Fluorine Substitution of Hexa-peri-hexabenzocoronene: Change in Growth Mode and Electronic Structure. Journal of Physical Chemistry C, 2009, 113, 6202-6207.	3.1	13
27	Origin of Carrier Types in Intrinsic Organic Semiconductors. Advanced Materials, 2008, 20, 2084-2089.	21.0	18
28	Graphoepitaxy of sexithiophene and orientation control by surface treatment. Journal of Applied Physics, 2008, 103, 084313.	2.5	28
29	Nanotransfer of the Polythiophene Molecular Alignment onto the Step-Bunched Vicinal Si(111) Substrate. Langmuir, 2008, 24, 11605-11610.	3.5	11
30	Step-bunched Bi-terminated Si(111) surfaces as a nanoscale orientation template for quasisingle crystalline epitaxial growth of thin film phase pentacene. Applied Physics Letters, 2008, 93, 223303.	3.3	15
31	Alignment-Induced Epitaxial Transition in Organic-Organic Heteroepitaxy. Physical Review Letters, 2008, 101, 236103.	7.8	21
32	Characterization of Submicron-scale Periodic Grooves by Grazing Incidence Ultra-small-angle X-ray Scattering. Japanese Journal of Applied Physics, 2007, 46, L773.	1.5	11
33	Effect of Organic Buffer Layer on Performance of Pentacene Field-Effect Transistor Fabricated on Natural Mica Gate Dielectric. Japanese Journal of Applied Physics, 2007, 46, L913-L916.	1.5	9
34	Spontaneous aggregation of pentacene molecules and its influence on field effect mobility. Applied Physics Letters, 2007, 90, 251906.	3.3	28
35	Analysis of charge transport in a polycrystalline pentacene thin film transistor by temperature and gate bias dependent mobility and conductance. Journal of Applied Physics, 2007, 102, .	2.5	64
36	Orientation control of pentacene molecules and transport anisotropy of the thin film transistors by photoaligned polyimide film. Applied Physics Letters, 2007, 90, 102117.	3.3	29

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37	Visualization of induced charge in an organic thin-film transistor by cross-sectional potential mapping. <i>Journal of Applied Physics</i> , 2007, 101, 094509.	2.5	26
38	High insulating quality CaF ₂ pseudomorphic films on Si(111). <i>Applied Physics Letters</i> , 2007, 90, 142909.	3.3	6
39	Oriented Film Growth of Organic Semiconductor Sexithiophene on Artificial Periodic Grooves and Electrical Conduction Properties of the Films. <i>Materials Research Society Symposia Proceedings</i> , 2007, 1059, 1.	0.1	1
40	Electronic structure of octane on Cu(111) and Ni(111) studied by near edge X-ray absorption fine structure. <i>Surface Science</i> , 2007, 601, 4074-4077.	1.9	4
41	Low-leakage MIS structures with 1.5-6 nm CaF ₂ insulating layer on Si(111). <i>Microelectronic Engineering</i> , 2007, 84, 2247-2250.	2.4	12
42	Investigation of complex channel capacitance in C60 field effect transistor and evaluation of the effect of grain boundaries. <i>Current Applied Physics</i> , 2007, 7, 87-91.	2.4	10
43	In-plane Orientation Control of Organic Thin Films on Amorphous Substrates and its Application to Field Effect Transistors. <i>Shinku/Journal of the Vacuum Society of Japan</i> , 2007, 50, 729-734.	0.2	3
44	Anisotropic Polymerization of a Long-Chain Diacetylene Derivative Langmuir-Blodgett Film on a Step-Bunched SiO ₂ /Si Surface. <i>Langmuir</i> , 2006, 22, 5742-5747.	3.5	7
45	Fabrication of an Organic Field-effect Transistor on a Mica Gate Dielectric. <i>Chemistry Letters</i> , 2006, 35, 354-355.	1.3	10
46	Effect of UV/ozone treatment of the dielectric layer on the device performance of pentacene thin film transistors. <i>Chemical Physics Letters</i> , 2006, 429, 124-128.	2.6	50
47	Sexithiophene films on cleaved KBr(100) towards well-ordered semiconducting films. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 133, 195-199.	3.5	8
48	In-situ measurement of molecular orientation of the pentacene ultrathin films grown on SiO ₂ substrates. <i>Surface Science</i> , 2006, 600, 2518-2522.	1.9	27
49	Pentacene films grown on surface treated SiO ₂ substrates. <i>Thin Solid Films</i> , 2006, 515, 814-817.	1.8	18
50	Orientation Control of Standing Epitaxial Pentacene Monolayers Using Surface Steps and In-plane Band Dispersion Analysis by Angle Resolved Photoelectron Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2006, 965, 1.	0.1	3
51	Effect of annealing on the mobility and morphology of thermally activated pentacene thin film transistors. <i>Journal of Applied Physics</i> , 2006, 99, 094502.	2.5	80
52	Growth of nanographite on Pt(111) and its edge state. <i>Applied Physics Letters</i> , 2006, 88, 153126.	3.3	56
53	Thickness Dependent Characteristics of a Copper Phthalocyanine Thin-Film Transistor Investigated by in situ FET Measurement System. <i>Molecular Crystals and Liquid Crystals</i> , 2006, 455, 347-351.	0.9	9
54	Graphoepitaxy of sexithiophene on thermally oxidized silicon surface with artificial periodic grooves. <i>Applied Physics Letters</i> , 2006, 88, 251905.	3.3	29

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55	Magnetic properties of ultrathin cobalt films on SiO ₂ substrates. <i>Thin Solid Films</i> , 2005, 493, 221-225.	1.8	13
56	Metal-induced gap states in epitaxial organic-insulator/metal interfaces. <i>Physical Review B</i> , 2005, 72, .	3.2	19
57	Electronic properties of metal-induced gap states formed at alkali-halide/metal interfaces. <i>Physical Review B</i> , 2005, 71, .	3.2	13
58	Quantitative evaluation of attenuation contrast of X-ray computed tomography images using monochromatized beams. <i>American Mineralogist</i> , 2005, 90, 132-142.	1.9	61
59	Study of interfaces using ultraviolet photoelectron spectroscopy (UPS). <i>Ganseki Kobutsu Kagaku</i> , 2004, 33, 163-171.	0.1	0
60	Three-dimensional diffusion of non-sorbing species in porous sandstone: computer simulation based on X-ray microtomography using synchrotron radiation. <i>Journal of Contaminant Hydrology</i> , 2004, 74, 253-264.	3.3	58
61	Molecular orientations and adsorption structures of 1±-sexithienyl thin films grown on Ag (110) and Ag (111) surfaces. <i>Surface Science</i> , 2004, 559, 77-84.	1.9	39
62	Molecular orientation control of sexithienyl thin film on Cu substrates. <i>Surface Science</i> , 2004, 566-568, 603-607.	1.9	8
63	Epitaxial growth and domain coalescence of sexithiophene induced by the steps on cleaved KBr(001). <i>Journal of Crystal Growth</i> , 2004, 265, 296-301.	1.5	20
64	Metal induced gap states at alkali halide/metal interface. <i>Applied Surface Science</i> , 2004, 237, 495-498.	6.1	3
65	Valence-band interorbital interaction at the Al-Sn interface observed by ultraviolet photoemission spectroscopy: implication for phase relations in metallic binary systems. <i>Philosophical Magazine</i> , 2004, 84, 1671-1682.	1.6	2
66	Nondestructive three-dimensional element-concentration mapping of a Cs-doped partially molten granite by X-ray computed tomography using synchrotron radiation. <i>American Mineralogist</i> , 2004, 89, 1304-1313.	1.9	35
67	Experimental study of the textural development of igneous rocks in the late stage of crystallization: the importance of interfacial energies under non-equilibrium conditions. <i>Contributions To Mineralogy and Petrology</i> , 2002, 142, 397-415.	3.1	47
68	Three-dimensional study on the interconnection and shape of crystals in a graphic granite by X-ray CT and image analysis. <i>Mineralogical Magazine</i> , 2000, 64, 945-959.	1.4	74
69	Estimation of the Chemical Potential of the System of Hard Molecules. <i>Molecular Crystals and Liquid Crystals</i> , 2000, 346, 127-136.	0.3	1
70	Observation and analysis of internal structure of rock using X-ray CT.. <i>Journal of the Geological Society of Japan</i> , 2000, 106, 363-378.	0.6	46
71	Rolling experiment with partially molten rocks: a new apparatus and some experiments on the kinetics of material transport, dissolution and crystal growth. <i>European Journal of Mineralogy</i> , 1999, 11, 441-454.	1.3	4
72	Effect of Addition of Hard Spheres to the Smectic-A Phase of Parallel Hard Spherocylinders. <i>Molecular Crystals and Liquid Crystals</i> , 1998, 318, 101-114.	0.3	11

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73	Smectic-A Phase of a Bidisperse System of Parallel Hard Rods and Hard Spheres. Journal of the Physical Society of Japan, 1996, 65, 3551-3556.	1.6	65
74	Structure Change in Strontium Oxide- CaO -Doped Dicalcium Silicates. Journal of the American Ceramic Society, 1996, 79, 2577-2581.	3.8	14
75	Ferroelectric properties and polarization reversal phenomena in nylon 11. Ferroelectrics, 1995, 171, 329-338.	0.6	17
76	Microtextures Formed by the Remelting Reaction in Belite Crystals. Journal of the American Ceramic Society, 1993, 76, 2942-2944.	3.8	22
77	Analysis of Thermal Conductivity of Polyethylene-Carbon Black Composite Films. Journal of Fiber Science and Technology, 1993, 49, 1-5.	0.0	0
78	The system diopside-acmite-nepheline at low oxygen fugacity.. Journal of Mineralogy, Petrology and Economic Geology, 1992, 87, 123-126.	0.1	0
79	Thermal conductivity of low density polyethylene filled with carbon black.. Journal of Fiber Science and Technology, 1991, 47, 217-226.	0.0	1
80	Critical Phenomena in Amorphous Ferromagnetic Alloys 1. Specific Heat Measurement. Journal of the Physical Society of Japan, 1980, 49, 950-956.	1.6	23
81	Critical Phenomena in an Itinerant Antiferromagnet of $\text{Fe}_{0.5}\text{Mn}_{0.5}$. Journal of the Physical Society of Japan, 1975, 39, 332-339.	1.6	8
82	Note on Critical Phenomena of Chromium. Journal of the Physical Society of Japan, 1975, 39, 823-824.	1.6	1
83	Magnetic Critical Scattering from an Itinerant Antiferromagnet of $\text{Fe}_{0.5}\text{Mn}_{0.5}$ Alloy I. Quasi Elastic Scattering. Journal of the Physical Society of Japan, 1973, 35, 1616-1626.	1.6	17