

Hiroaki Usui

List of Publications by Year in descending order

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95
papers

616
citations

687363

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21
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98
all docs

98
docs citations

98
times ranked

353
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation mechanism of large clusters from vaporized solid material. <i>The Journal of Physical Chemistry</i> , 1987, 91, 2463-2468.	2.9	57
2	Synthesis and properties of nitrogen-linked poly(2,7-carbazole)s as hole-transport material for organic light emitting diodes. <i>Journal of Polymer Science Part A</i> , 2009, 47, 3880-3891.	2.3	38
3	Anionic Polymerization of 4-Diphenylaminostyrene: Characteristics of the Alkyl lithium/ <i>N,N,N',N'</i> -Tetramethylethylenediamine System for Living Anionic Polymerization. <i>Macromolecules</i> , 2008, 41, 3852-3858.	4.8	35
4	UV polymerization of triphenylaminemethylacrylate thin film on ITO substrate. <i>Polymer</i> , 1999, 40, 3061-3067.	3.8	30
5	Preparation of Carbazole Polymer Thin Films by Electron-Assisted Deposition of 3-(N-Carbazolyl)propyl Acrylate. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 4182-4186.	1.5	24
6	Interface Control by Surface-Initiated Deposition Polymerization and Its Application to Organic Light-Emitting Devices. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 3156.	1.5	24
7	Preparation of Carbazole Polymer Thin Films Chemically Bound to Substrate Surface by Physical Vapor Deposition Combined with Self-Assembled Monolayer. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 504-508.	1.5	21
8	High-Vacuum Vapor Deposition and in Situ Monitoring of N-Carboxy Anhydride Benzyl Glutamate Polymerization. <i>Langmuir</i> , 2009, 25, 10711-10718.	3.5	21
9	Epitaxial growth of Cu films on Si by ionized cluster beam deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990, 8, 1470-1473.	2.1	19
10	Phosphorescent Organic Light Emitting Diode Using Vinyl Derivatives of Hole Transport and Dopant Materials. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 1279-1283.	1.5	17
11	Novel polyimine as electroluminescent material prepared by vapor deposition polymerization. <i>Thin Solid Films</i> , 2003, 438-439, 75-79.	1.8	16
12	Photoconductive Imaging Using CuInSe ₂ Film. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 113.	1.5	16
13	Vapor deposition polymerization of vinyl compounds and fabrication of OLED having double emissive layers. <i>Thin Solid Films</i> , 2009, 518, 703-706.	1.8	14
14	Size estimation of vaporized-metal clusters by electron microscope. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1989, 37-38, 886-890.	1.4	13
15	Effect of Self-Assembled Monolayer Modification on Indium-Tin Oxide Surface for Surface-Initiated Vapor Deposition Polymerization of Carbazole Thin Films. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 04DK21.	1.5	13
16	Ionization-Assisted Deposition of 8-Hydroxyquinoline Aluminum for Organic Light Emitting Diode. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 987-992.	1.5	12
17	Vapor Deposition Polymerization of a Polyimide Containing Perylene Units Characterized by Displacement Current Measurement. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 2810-2814.	1.5	12
18	Scattering of an alkali-metal atomic beam on anti-spin-relaxation coatings. <i>Physical Review A</i> , 2018, 98, .	2.5	10

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19	Selective Patterning of Organic Light-Emitting Diodes by Physical Vapor Deposition of Photosensitive Materials. Japanese Journal of Applied Physics, 2009, 48, 04C163.	1.5	9
20	Preparation of Polymer Thin Films by Physical Vapor Deposition. , 2011, , 287-318.		9
21	Vapor Deposition Polymerization and Electrical Characterization of TPD Thin Films. IEICE Transactions on Electronics, 2011, E94-C, 157-163.	0.6	8
22	Preparation of plastic spherical microlenses by use of a fluoropolymer stencil and oil-bath heating. Applied Optics, 2003, 42, 4008.	2.1	7
23	Current-Induced Spectrum Change of Phosphorescent Organic Light-Emitting Diode Constructed with Vinyl Compounds. Japanese Journal of Applied Physics, 2008, 47, 1284-1289.	1.5	7
24	Ion-assisted vapor deposition of acryl polymer thin films. Surface and Coatings Technology, 2011, 206, 884-888.	4.8	7
25	Novel Electroplating Method Using Foam of an Electrolyte Solution. Journal of Chemical Engineering of Japan, 2010, 43, 966-971.	0.6	7
26	Characterization by Photoluminescence of ICB-Grown CuInSe ₂ Thin Films. Japanese Journal of Applied Physics, 1993, 32, 103.	1.5	6
27	Formation of polymer thin films and interface control by physical vapor deposition. Proceedings of SPIE, 2009, , .	0.8	6
28	Polymeric Film Deposition by Coevaporation of Polymerizable Monomer and Initiator. Japanese Journal of Applied Physics, 2010, 49, 01AE03.	1.5	6
29	Preparation of Poly(9-Vinylcarbazole) Thin Films Chemically Tethered to ITO Surface via Self-Assembled Monolayer Having Benzophenone Terminal Group. Molecular Crystals and Liquid Crystals, 2012, 568, 125-133.	0.9	6
30	Preparation of a Functionally Graded Fluoropolymer Thin Film and Its Application to Antireflective Coating. Japanese Journal of Applied Physics, 2013, 52, 05DB01.	1.5	6
31	Preparation of surface-tethered polymer layer on inorganic substrates by photoreactive self-assembled monolayer. Thin Solid Films, 2014, 554, 78-83.	1.8	6
32	Fabrication and characteristics of hole transporting materialsâ€“transition metal nanoparticle composites. Thin Solid Films, 2004, 449, 173-179.	1.8	5
33	Thermally stable and anisotropically conducting membranes consisting of sub-micron copper wires in polyimide ion track membranes. Journal of Membrane Science, 2009, 327, 182-187.	8.2	5
34	Fabrication of Electrophoretic Display Driven by Membrane Switch Array. Japanese Journal of Applied Physics, 2010, 49, 04DK16.	1.5	5
35	Effect of Photoreactive SAM at the Interface of an Indium-Tin Oxide Electrode and a Polymer Hole Transport Layer. IEICE Transactions on Electronics, 2013, E96.C, 365-368.	0.6	5
36	Preparation of a hole transport layer tethered to ITO surface via a self-assembled monolayer with reactive terminal group. Japanese Journal of Applied Physics, 2014, 53, 04EK04.	1.5	5

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37	Electroless plating of Ni thin films using foam of electrolyte. Japanese Journal of Applied Physics, 2016, 55, 02BC06.	1.5	5
38	Characteristics of Polyethylene Thin Films Deposited by Ionized Cluster Beam. Materials Research Society Symposia Proceedings, 1987, 108, 201.	0.1	4
39	Aluminum Atom Surface Mobility on SiO ₂ During Ionized Cluster Beam Deposition. Materials Research Society Symposia Proceedings, 1988, 128, 131.	0.1	4
40	Optical characteristics of high-power excimer laser mirrors of single-crystal aluminum film with high reflectance and durability. Nuclear Instruments & Methods in Physics Research B, 1991, 59-60, 940-942.	1.4	4
41	PTCDA Films Deposited by Ionized Beam Method. Materials Research Society Symposia Proceedings, 1993, 316, 935.	0.1	4
42	Effect of Bubble Size in the Electroplating Using Foam of Electrolyte. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2012, 63, 269.	0.2	4
43	Formation of diamond nanoparticle thin films by electrophoretic deposition. Japanese Journal of Applied Physics, 2016, 55, 03DD10.	1.5	4
44	Effect of Reactive Self-Assembled Monolayer at the Anode Interface of Organic Light-Emitting Diode. Journal of Nanoscience and Nanotechnology, 2016, 16, 3407-3413.	0.9	4
45	Characteristics of nickel thin films prepared by electroless plating in foam of electrolyte. MRS Communications, 2017, 7, 953-959.	1.8	4
46	Novel phase-matching concept for polymer waveguides. Proceedings of SPIE, 1993, 2025, 429.	0.8	3
47	A Novel Phase Matching Technique for A Poled Polymer Waveguide. Molecular Crystals and Liquid Crystals, 1994, 255, 95-102.	0.3	3
48	Preparation of ITO electrode on the organic layer by sputtering. Electronics and Communications in Japan, 2000, 83, 23-30.	0.2	3
49	Ionization-assisted deposition of SrOx for electron injection layer of organic light emitting diode. Applied Physics Letters, 2002, 81, 3882-3884.	3.3	3
50	Comb-Like Polymer Thin Films Prepared by Ionization-Assisted Deposition of Acrylate Compounds. Materials Research Society Symposia Proceedings, 2002, 734, 9461.	0.1	3
51	A diaminomaleonitrile derivative as a new dopant for red-light-emitting electroluminescent device. Journal Physics D: Applied Physics, 2003, 36, 1789-1793.	2.8	3
52	Ionization-assisted deposition of LiF electron-injection layer for organic light-emitting diodes. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2004, 22, L1.	1.6	3
53	Formation of composite films of ion-track membranes embedded with oblique Cu nanowires for anisotropic infrared absorption. Radiation Physics and Chemistry, 2008, 77, 453-455.	2.8	3
54	Removal of a Bubble on the Surface of Solid in Liquid Using Flow of Foam. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2012, 63, 266.	0.2	3

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55	Corrosion-resistant nickel thin films by electroless deposition in foam of electrolyte. MRS Communications, 2019, 9, 352-359.	1.8	3
56	Improvement of Adhesion Strength of Fluoropolymer Thin Films by Vapor Deposition Polymerization. IEICE Transactions on Electronics, 2013, E96.C, 374-377.	0.6	3
57	Manipulation of Work Function and Surface Free Energy of Tungsten Oxide Hole Injection Layer Modified with a Self-Assembled Monolayer. Japanese Journal of Applied Physics, 2011, 50, 01BB01.	1.5	3
58	Measurement of the temperature dependence of dwell time and spin relaxation probability of Rb atoms on paraffin surfaces using a beam-scattering method. Physical Review A, 2021, 104, .	2.5	3
59	Ionization-Assisted Deposition of SrO _x Thin Films for Electron Injection Layer of Organic Light Emitting Diodes. Molecular Crystals and Liquid Crystals, 2001, 370, 65-68.	0.3	2
60	Fabrication of electroluminescent devices using Sr as an electron injection layer. Electronics and Communications in Japan, 2003, 86, 36-41.	0.2	2
61	Semiconducting nanocomposite from titanium dioxide and organic charge transporting compound. Synthetic Metals, 2003, 139, 151-154.	3.9	2
62	Ionization-assisted deposition of strontium electron injection layer for organic light emitting diode. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2003, 21, 19-24.	2.1	2
63	Maskless Patterning of Vapor-Deposited Photosensitive Film and its Application to Organic Light-Emitting Diodes. Japanese Journal of Applied Physics, 2011, 50, 04DK07.	1.5	2
64	Manipulation of Work Function and Surface Free Energy of Tungsten Oxide Hole Injection Layer Modified with a Self-Assembled Monolayer. Japanese Journal of Applied Physics, 2011, 50, 01BB01.	1.5	2
65	Adhesion Strength of Nickel Films Deposited on Aluminum Surface in a Foam of Electrolyte. Hyomen Cijutsu/Journal of the Surface Finishing Society of Japan, 2012, 63, 329.	0.2	2
66	Interface control between an indium-tin-oxide electrode and a hole-transport polymer via reactive self-assembled monolayers. Japanese Journal of Applied Physics, 2017, 56, 04CL08.	1.5	2
67	Vapor Deposition Polymerization and Molecular Orientation of Polyimide Thin Films. Journal of Physics: Conference Series, 2017, 924, 012017.	0.4	2
68	Vapor-deposition of naphthalene diimide derivatives and interface control between aluminum cathode. Japanese Journal of Applied Physics, 2020, 59, SDDA12.	1.5	2
69	Fabrication of Fine Particles of Semiconducting Polymers by Electrospray Deposition. IEICE Transactions on Electronics, 2011, E94-C, 164-169.	0.6	2
70	Maskless Patterning of Vapor-Deposited Photosensitive Film and its Application to Organic Light-Emitting Diodes. Japanese Journal of Applied Physics, 2011, 50, 04DK07.	1.5	2
71	Preparation of Dye-Polymer Composite Films by Deposition Polymerization. IEEJ Transactions on Fundamentals and Materials, 2007, 127, 253-260.	0.2	2
72	Synthesis of TPD-Containing Polymer Thin Films by Physical Vapor Deposition. Materials Research Society Symposia Proceedings, 2001, 710, 1.	0.1	1

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73	Electroplating of Nickel Films Using Stable Foam Electrolyte Solution. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2012, 63, 531.	0.2	1
74	Vapor Deposition Polymerization of Polyimide with Naphthalene Unit. IEICE Transactions on Electronics, 2015, E98.C, 129-132.	0.6	1
75	Preparation of Phosphorescent Polymer Patterns by Spin-Coating Photoreactive Small Molecules. Electronics and Communications in Japan, 2016, 99, 58-64.	0.5	1
76	Electron-assisted deposition and interface control of naphthalenediimide derivative thin films. Japanese Journal of Applied Physics, 2022, 61, SE1013.	1.5	1
77	Deposition of organic-inorganic hybrid polymer thin films with a silsesquioxane unit. Japanese Journal of Applied Physics, 2022, 61, SE1010.	1.5	1
78	Thin films-preparation, structure and properties. Film formation and structure control by ionized cluster beam.. Nippon Kagaku Kaishi / Chemical Society of Japan - Chemistry and Industrial Chemistry Journal, 1987, 1987, 1908-1915.	0.1	0
79	Chemical Properties of Porphyrin Thin Films Deposited by ICB. Materials Research Society Symposia Proceedings, 1992, 247, 551.	0.1	0
80	Luminescence of dye-doped polymer films induced by corona discharge. Journal of Applied Physics, 2000, 88, 5791-5795.	2.5	0
81	Polypeptide Ultrathin Films by Vacuum Deposition: Preparation and Characterization. Materials Research Society Symposia Proceedings, 2001, 711, 1.	0.1	0
82	Organic EL device using SrOx as an electron injection material. Electronics and Communications in Japan, 2003, 86, 73-80.	0.2	0
83	Synthesis and Physical Vapor Deposition of Low-Molecular-Weight Poly(3,4-ethylenedioxythiophene). Japanese Journal of Applied Physics, 2013, 52, 04CK10.	1.5	0
84	A New Plating Method using Foam of Electrolyte. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2016, 67, 170-174.	0.2	0
85	Preparation of charge injection layer by electrophoresis of diamond nanoparticles. Molecular Crystals and Liquid Crystals, 2017, 653, 200-206.	0.9	0
86	Vapor-Deposition Polymerization of Vinyl Polymer Thin Films of Naphthalene Diimide Derivatives. IEICE Transactions on Electronics, 2017, E100.C, 141-144.	0.6	0
87	Copper cladding on polymer surfaces by ionization-assisted deposition. Japanese Journal of Applied Physics, 2018, 57, 03EG11.	1.5	0
88	Controlling Organic/Inorganic Junctions by Covalent Tethering at the Interface. , 2018, , .		0
89	Dwell time and spin relaxation probability of Rb atoms on anti-spin-relaxation coatings. , 2021, , .		0
90	PHYSICAL VAPOR DEPOSITION OF POLYMER THIN FILMS AND ITS APPLICATION TO ORGANIC DEVICES. , 2010, , 319-346.		0

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91	Vapor Deposition Polymerization of an Oxadiazole Polymer and Its Application to Organic Light Emitting Diode. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1402-1407.	0.2	0
92	Preparation of Fluoropolymer Thin Films by Ion-Assisted Vapor Deposition Polymerization. IEEJ Transactions on Electronics, Information and Systems, 2012, 132, 1413-1417.	0.2	0
93	Fabrication of Organic EL Devices by use of Ionization-Assisted Deposition Method. IEEJ Transactions on Fundamentals and Materials, 1998, 118, 1397-1404.	0.2	0
94	Interface Control of Organic Devices by using Self-Assembled Monolayers. IEEJ Transactions on Electronics, Information and Systems, 2015, 135, 140-145.	0.2	0
95	Preparation of Phosphorescent Polymer Patterns by Spin-coating Photoreactive Small Molecules. IEEJ Transactions on Electronics, Information and Systems, 2015, 135, 150-155.	0.2	0