Tsuyoshi Tsujioka

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5475215/publications.pdf

Version: 2024-02-01

81	1,947	304743	265206
papers	citations	22 h-index	42 g-index

82	82	82	1100
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Red organic light-emitting diodes using an emitting assist dopant. Applied Physics Letters, 1999, 75, 1682-1684.	3.3	303
2	Electrical functions of photochromic molecules. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2010, 11, 1-14.	11.6	150
3	Organic bistable molecular memory using photochromic diarylethene. Applied Physics Letters, 2003, 83, 937-939.	3.3	123
4	Nondestructive readout of photochromic optical memory using photocurrent detection. Applied Physics Letters, 2001, 78, 2282-2284.	3.3	87
5	Selective Metal Deposition on Photoswitchable Molecular Surfaces. Journal of the American Chemical Society, 2008, 130, 10740-10747.	13.7	74
6	Theoretical investigation on photochromic diarylethene: A short review. Journal of Photochemistry and Photobiology A: Chemistry, 2008, 200, 10-18.	3.9	72
7	Crosstalk in Photon-Mode Photochromic Multi-Wavelength Recording. Japanese Journal of Applied Physics, 1994, 33, 1914-1919.	1.5	60
8	Super-Resolution Disk with a Photochromic Mask Layer. Japanese Journal of Applied Physics, 1997, 36, 526-529.	1.5	53
9	Photochromic reactions of a diarylethene derivative in polymer matrices. Journal of Photochemistry and Photobiology A: Chemistry, 1997, 104, 203-206.	3.9	49
10	Superlow-Power Readout Characteristics of Photochromic Memory. Japanese Journal of Applied Physics, 1995, 34, 6439-6443.	1.5	47
11	Electrical carrier-injection and transport characteristics of photochromic diarylethene films. Applied Physics Letters, 2003, 83, 4978-4980.	3.3	47
12	Optical Density Dependence of Write/Read Characteristics in Photon-Mode Photochromic Memory. Japanese Journal of Applied Physics, 1996, 35, 4353-4360.	1.5	40
13	Recording Sensitivity and Superlow-Power Readout of Photon-Mode Photochromic Memory. Japanese Journal of Applied Physics, 1994, 33, 5788-5792.	1.5	39
14	Rewritable Near-Field Optical Recording on Photochromic Perinaphthothioindigo Thin Films: Readout by Fluorescence. Japanese Journal of Applied Physics, 1999, 38, 6114-6117.	1.5	36
15	Hole-injection isomerization of photochromic diarylethene for organic molecular memory. Applied Physics Letters, 2006, 89, 222102.	3.3	36
16	Nonvolatile organic memory based on isomerization of diarylethene molecules by electrical carrier injection. Organic Electronics, 2012, 13, 681-686.	2.6	34
17	Organic bistable memory characteristics with a photochromic diarylethene layer. Applied Physics Letters, 2005, 87, 213506.	3.3	32
18	Photoinduced Formation of Superhydrophobic Surface on Which Contact Angle of a Water Droplet Exceeds 170Â° by Reversible Topographical Changes on a Diarylethene Microcrystalline Surface. Langmuir, 2012, 28, 17817-17824.	3.5	31

#	Article	IF	Citations
19	Selective Metal-vapor Deposition on Organic Surfaces. Chemical Record, 2016, 16, 231-248.	5.8	28
20	Photoinduced Self-Epitaxial Crystal Growth of a Diarylethene Derivative with Antireflection Moth-Eye and Superhydrophobic Lotus Effects. Langmuir, 2013, 29, 8164-8169.	3.5	26
21	Light-Controlled Selective Metal Deposition on a Photochromic Diarylethene Filmâ€"Toward New Applications in Electronics and Photonicsâ€". Bulletin of the Chemical Society of Japan, 2010, 83, 756-761.	3.2	24
22	Fluorescence readout of near-field photochromic memory. Applied Optics, 1998, 37, 4419.	2.1	23
23	Theoretical Study on Data Transfer Rate of Near-Field Photochromic Memory. Japanese Journal of Applied Physics, 1999, 38, 4100-4104.	1.5	23
24	Metal patterning using maskless vacuum evaporation process based on selective deposition of photochromic diarylethene. Applied Physics Letters, 2008, 93, .	3.3	23
25	Light-controlled metal deposition on photochromic polymer films. Journal of Materials Chemistry, 2010, 20, 9623.	6.7	23
26	Selective metal deposition on organic surfaces for device applications. Journal of Materials Chemistry C, 2014, 2, 221-227.	5.5	22
27	Super-Resolution with a Photochromic Mask Layer in an Optical Memory. Optical Review, 1995, 2, 181-186.	2.0	20
28	Metal-Vapor Deposition Modulation on Soft Polymer Surfaces. Applied Physics Express, 2012, 5, 021601.	2.4	20
29	Selective metal deposition on photosensitive organic crystal surfaces. Journal of Materials Chemistry, 2011, 21, 12639.	6.7	19
30	Photochromism of diarylethene: Effect of polymer environment and effects on surfaces. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2011, 12, 138-150.	11.6	19
31	Metal atom behavior on photochromic diarylethene surfacesâ€"deposition rate dependence of selective Mg deposition. New Journal of Chemistry, 2009, 33, 1335.	2.8	18
32	Light-controlled selective metal deposition on photopolymer films. Applied Physics Letters, 2009, 94, .	3.3	17
33	Theoretical study of the recording density limit of a near-field photochromic memory. Journal of the Optical Society of America B: Optical Physics, 1998, 15, 1140.	2.1	16
34	Carrier Injection/Transport Characteristics of Photochromic Diarylethene Film. Japanese Journal of Applied Physics, 2001, 40, 7029-7030.	1.5	16
35	Photocurrent detection from photochromic diarylethene film. Applied Physics Letters, 2004, 85, 3128-3130.	3.3	15
36	Theoretical study of signal-to-noise ratio on near-field photochromic memory with fluorescence readout. Applied Optics, 1999, 38, 5066.	2.1	14

#	Article	IF	Citations
37	Driving Duty Ratio Dependence of Lifetime of Tris(8-hydroxy-quinolinate)aluminum-Based Organic Light-Emitting Diodes. Japanese Journal of Applied Physics, 2001, 40, 2523-2526.	1.5	14
38	Photocurrent switching method based on photoisomerization of diarylethene layer for nondestructive readout of photochromic optical memory. Applied Optics, 2010, 49, 3894.	2.1	14
39	Selective metal deposition for a structure with a thin intermediate layer on a photochromic diarylethene film. Journal of Materials Chemistry, 2009, 19, 3176.	6.7	13
40	Light-Controlled Selective Pb Deposition on Photochromic Surfaces. Applied Physics Express, 2012, 5, 041603.	2.4	13
41	Dual-functional diffraction grating based on selective metal deposition of photochromic diarylethene. Optics Letters, 2011, 36, 3648.	3.3	12
42	Electrical characterization of photochromic diarylethene films consisting of extraordinarily large crystallites. Journal of Materials Chemistry C, 2014, 2, 3589.	5.5	12
43	Metal-vapor deposition modulation on polymer surfaces prepared by the coffee-ring effect. Soft Matter, 2013, 9, 5681.	2.7	11
44	Carrier mobility of photochromic diarylethene amorphous films. Organic Electronics, 2014, 15, 2264-2269.	2.6	11
45	Theoretical Analysis of Photon-Mode Super-Resolution Optical Memory Using Saturable Absorption Dye. Optical Review, 1995, 2, 225-228.	2.0	10
46	Theoretical Analysis of Super-Resolution Optical Disk Mastering Using a Photoreactive Dye Mask Layer. Optical Review, 1997, 4, 385-389.	2.0	10
47	Efficient carrier separation from a photochromic diarylethene layer. Photochemical and Photobiological Sciences, 2010, 9, 157.	2.9	10
48	Thin-Film Micro-Fuse with a Novel Structure Prepared by Ag Vapor Deposition Modulation Based on Organic Photochromism. Applied Physics Express, 2013, 6, 091601.	2.4	10
49	Photoinduced topographical changes on microcrystalline surfaces of diarylethenes. CrystEngComm, 2016, 18, 7229-7235.	2.6	10
50	Nucleation, absorption, or desorption of metal-vapor atoms on amorphous photochromic diarylethene films having a low glass transition temperature. Journal of Materials Chemistry C, 2018, 6, 9786-9793.	5.5	10
51	Coloring and Bleaching Reactions of Photochromic Molecules by using a Single GaN-based Light Emitting Diode. Japanese Journal of Applied Physics, 1996, 35, L1532-L1534.	1.5	9
52	Signal-to-noise ratio of nondestructive photocurrent-detection readout in near-field photochromic memory: theoretical study. Journal of the Optical Society of America B: Optical Physics, 2002, 19, 297.	2.1	9
53	Temperature dependence of the photoinduced micro-crystalline surface topography of a diarylethene. CrystEngComm, 2013, 15, 8400.	2.6	9
54	Minute Organic Memory Fabricated by Laser Scanning and Selective Metalâ€Vapor Deposition of a Diaryletheneâ€“Cu Composite Film. Advanced Electronic Materials, 2019, 5, 1800491.	5.1	8

#	Article	IF	Citations
55	Selective Metal Deposition on a Phase-Separated Polymer Blend Surface. Japanese Journal of Applied Physics, 2013, 52, 078002.	1.5	6
56	Noble metal deposition modulation on amorphous photochromic diarylethene film. Applied Physics Express, 2014, 7, 071602.	2.4	6
57	Metal-vapor integration/transportation based on metal-atom desorption from polymer surfaces with a low glass-transition temperature. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2017, 35, .	2.1	6
58	Selective noble-metal deposition modulation on photocurable polydimethylsiloxane films for electronics device applications. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	6
59	Analysis of Signal-to-Noise Ratio in Photochromic Super-Resolution Readout. Optical Review, 1997, 4, 655-659.	2.0	5
60	Photoreprogrammable dual-function grating based on photochromism and selective metal deposition. Optics Letters, 2012, 37, 70.	3.3	5
61	Surface molecular kinetics on the outermost layer characterized by nucleation of Mg-vapor atoms. Applied Surface Science, 2019, 490, 309-317.	6.1	5
62	Metal Deposition Selectivity Based on Photochromism of Diarylethene Film in Intermediate Vacuum. Japanese Journal of Applied Physics, 2011, 50, 081602.	1.5	5
63	Selective metal-vapor deposition on solvent evaporated polymer surfaces. Thin Solid Films, 2015, 597, 220-225.	1.8	4
64	In-plane electrical bistability of photochromic diarylethene/Cu composite film. Organic Electronics, 2015, 26, 144-150.	2.6	4
65	Metal Deposition Selectivity Based on Photochromism of Diarylethene Film in Intermediate Vacuum. Japanese Journal of Applied Physics, 2011, 50, 081602.	1.5	4
66	Photochromism and Its Application to a High-density Optical Memory. Molecular Crystals and Liquid Crystals, 1998, 315, 1-9.	0.3	3
67	Electrical Molecular Memory Using Diarylethene Derivatives. Molecular Crystals and Liquid Crystals, 2005, 431, 391-395.	0.9	3
68	Measurement of glass-transition temperature of thermoreversible photochromic materials based on mechanochemical amorphization. Dyes and Pigments, 2021, 186, 109069.	3.7	3
69	Metal pattern resolution for fine electrode formation using selective metal-vapor deposition using photochromic diarylethene. Japanese Journal of Applied Physics, 2020, 59, 061001.	1.5	2
70	Spot Shape on Super-Resolution Optical Disks with a Photon-Mode Mask Layer. Optical Review, 1998, 5, 158-162.	2.0	1
71	Synthesis, Photochromic, and Electrical Properties of Diarylethene Derivatives Having 9-Carbazolyl or 2-(1,3,4-Oxadiazolyl) Group as Carrier Mobilization Sites. Chemistry Letters, 2011, 40, 1267-1268.	1.3	1
72	Isomerization structure of photochromic diarylethene film based on electrical carrier injection. Materials Letters, 2016, 179, 158-161.	2.6	1

#	Article	IF	Citations
73	Elemental isomerization processes for a photochromic diarylethene film based on carrier injection toward all-electrically operable organic memory. Japanese Journal of Applied Physics, 2016, 55, 061602.	1.5	1
74	Surface glass transition temperature characterized by metal-atom deposition/desorption on organic films. Applied Surface Science, 2017, 426, 169-176.	6.1	1
75	Nucleation mechanism of metal-vapor atoms on photochromic diarylethene surface with a low glass transition temperature. Japanese Journal of Applied Physics, 2018, 57, 121601.	1.5	1
76	1,2-Bis[5-(9-ethyl-9H-carbazol-3-yl)-2-methylthiophen-3-yl]-3,3,4,4,5,5-hexafluorocyclopentene. Acta Crystallographica Section E: Structure Reports Online, 2011, 67, o2194-o2194.	0.2	0
77	Molecule deposition in mask-shielded regions revealed by selective Mg vapor deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, 043202.	2.1	0
78	Selective Metal Deposition Based on Photochromism of Diarylethenes. , 2013, , 61-77.		0
79	Selective Metal-vapor Deposition on Photochromic Diarylethene Surfaces. Vacuum and Surface Science, 2019, 62, 411-415.	0.1	0
80	Biomimetic Functions by Microscopic Molecular Reactions in Macroscopic Photoresponsive Crystalline System. , 2020, , 405-425.		0
81	Metal-vapor atom behavior on thermocurable polydimethylsiloxane films. Applied Physics A: Materials Science and Processing, 2022, 128, .	2.3	0