

Takashi Wakamatsu

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Evaluation of Tilt Angles of Nematic Liquid Crystal Molecules on Polyimide Langmuir-Blodgett Films using the Attenuated Total Reflection Measurement Method. Japanese Journal of Applied Physics, 1998, 37, 2581-2586.	1.5	35
2	Surface Plasmon-Enhanced Photocurrent in Organic Photoelectric Cells. Japanese Journal of Applied Physics, 1997, 36, 155-158.	1.5	32
3	Attenuated total reflection properties and structures in squarylium LB films. Thin Solid Films, 1996, 284-285, 417-419.	1.8	23
4	Enhancement of optical absorption and photocurrents in solar cells of merocyanine Langmuir-Blodgett films utilizing surface plasmon excitations. Materials Science and Engineering C, 2002, 22, 251-256.	7.3	23
5	Intermolecular elastic and plastic characteristics of organic phthalocyanine thin films evaluated by nanoindentation. Applied Physics Letters, 2007, 90, 061921.	3.3	18
6	Interpretation of attenuated-total-reflection dips observed in surface plasmon resonance. Journal of the Optical Society of America B: Optical Physics, 2007, 24, 2307.	2.1	17
7	Enhanced Photocurrent in Organic Photoelectric Cells Based on Surface Plasmon Excitations. Japanese Journal of Applied Physics, 1995, 34, L1467-L1469.	1.5	16
8	Low-refractive-index dye-aggregate films with small absorption based on anomalous dispersion. Applied Optics, 2005, 44, 906.	2.1	16
9	Light Emission Property from Organic Dye Thin Films due to Excitation of Multiple Surface Plasmons. Japanese Journal of Applied Physics, 2002, 41, 2774-2778.	1.5	15
10	Attenuated total reflection properties and structures in spiropyran LB thin films. Thin Solid Films, 1996, 284-285, 420-423.	1.8	14
11	Evaluation of temperature and voltage dependences of nematic liquid crystal molecules on Langmuir-Blodgett films in the thick cell using the attenuated total reflection method. Materials Science and Engineering C, 1999, 8-9, 145-150.	7.3	13
12	Emission from merocyanine Langmuir-Blodgett films utilizing surface plasmon excitation. Thin Solid Films, 2001, 393, 97-102.	1.8	13
13	Critical bending radius and electrical behaviors of organic field effect transistors under elastoplastic bending strain. Thin Solid Films, 2010, 518, 2764-2768.	1.8	13
14	Observation of electric-field induced aggregation in crystallizing protein solutions by forward light scattering. Applied Physics Letters, 2011, 99, .	3.3	13
15	Method and apparatus for characterization of electric field-induced aggregation in pre-crystalline protein solutions. Review of Scientific Instruments, 2015, 86, 015112.	1.3	13
16	Emission Light and Multiple Surface Plasmon Excitations at Prism/Ag/Merocyanine Langmuir-Blodgett Films. Japanese Journal of Applied Physics, 2003, 42, 2511-2515.	1.5	12
17	Nanoindentation Test for Evaluating Intermolecular Elastic and Plastic Characteristics of Copper Phthalocyanine Thin Films. Japanese Journal of Applied Physics, 2005, 44, 8249-8255.	1.5	12
18	Scattered light due to excited surface plasmon in arachidic acid LB ultrathin films on silver thin films. Thin Solid Films, 1998, 327-329, 360-363.	1.8	11

#	ARTICLE	IF	CITATIONS
19	Penetration-Depth Characteristics of Evanescent Fields at Metal Attenuated Total Reflection. Japanese Journal of Applied Physics, 2005, 44, 4272-4274.	1.5	11
20	Improved Density and Mechanical Properties of a Porous Metal-Free Phthalocyanine Thin Film Isotropically Pressed with Pressure Exceeding the Yield Strength. Applied Physics Express, 2011, 4, 111603.	2.4	11
21	Forward-Light-Scattering Characterization of Pre-Crystalline Aggregates in Crystallizing Lysozyme Solutions. American Journal of Analytical Chemistry, 2014, 05, 581-588.	0.9	10
22	Emission light from prism/silver/rhodamine-B LB film and multiple surface plasmon excitations in the ATR Kretschmann configuration. Materials Science and Engineering C, 2002, 22, 409-412.	7.3	9
23	Thermal-changeable complex-refractive-index spectra of merocyanine aggregate films. Applied Optics, 2003, 42, 6929.	2.1	9
24	Transparent Cell for Protein Crystallization under Low Applied Voltage. Japanese Journal of Applied Physics, 2011, 50, 048003.	1.5	9
25	Detection of surface-plasmon evanescent fields using a metallic probe tip covered with fluorescence. Review of Scientific Instruments, 1999, 70, 3962-3966.	1.3	8
26	Conversion between Three- and Two-Dimensional Optical Waves in Attenuated Total Reflection Kretschmann Configuration with Nanostructured Langmuir-Blodgett Films. Japanese Journal of Applied Physics, 2004, 43, 2335-2340.	1.5	8
27	A Measurement of Evanescent Fields Generating on Metal Thin Films and Langmuir-Blodgett Ultrathin Films. Molecular Crystals and Liquid Crystals, 2000, 349, 235-238.	0.3	7
28	Optical reflection response of dye-aggregate films in the absorption bands. Journal of the Optical Society of America B: Optical Physics, 2006, 23, 1859.	2.1	7
29	Low Applied Voltage Effects on Thaumatin Protein Crystallization. Transactions of the Materials Research Society of Japan, 2016, 41, 13-15.	0.2	7
30	Forward light scattering for highly sensitive detection of aggregation in crystallizing protein solutions. Applied Physics Letters, 2011, 98, 263701.	3.3	6
31	Transient photoelectric responses in C60 LB films. Thin Solid Films, 1996, 284-285, 481-483.	1.8	5
32	Optical properties of Ag island films prepared by radio-frequency magnetron-sputtering using attenuated total reflection method. Journal of Modern Optics, 1996, 43, 2217-2224.	1.3	5
33	Transparent Cell for Protein Crystallization under Low Applied Voltage. Japanese Journal of Applied Physics, 2011, 50, 048003.	1.5	5
34	The effects of applying an alternating electric field to lysozyme solutions during the initial crystallization stage. Journal of Crystal Growth, 2021, 573, 126288.	1.5	5
35	Molecular thin film structure and multiple surface plasmon excitations at nano-interfaces in the attenuated total reflection Kretschmann configuration. Thin Solid Films, 2003, 438-439, 108-113.	1.8	4
36	Characteristics of Metal Enhanced Evanescent-Wave Microcavities. Sensors, 2010, 10, 8751-8760.	3.8	4

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37	A Measurement of Structures in LB Ultrathin Films of Arachidic Cadmium Salt on Metal Thin Films using Attenuated Total Reflection Method. IEEJ Transactions on Fundamentals and Materials, 1995, 115, 1137-1143.	0.2	4
38	Enhanced photoluminescence spectroscopy for thin films using the attenuated total reflection method. Applied Optics, 2011, 50, 696.	2.1	3
39	The role of an applied electric field in protein crystallization at low temperature. Japanese Journal of Applied Physics, 2019, 58, 110903.	1.5	3
40	Evaluation of Surface Roughness of Metal Thin Films and Langmuir-Blodgett Ultrathin Films from Scattered Light Due to Surface Plasmon Polariton. Molecular Crystals and Liquid Crystals, 1999, 327, 127-130.	0.3	2
41	Scattered Light and Emission From Ag Thin Film and Merocyanine Langmuir-Blodgett Film on Ag Thin Film due to Surface Plasmon Polariton Excitation. Studies in Interface Science, 2001, 11, 71-83.	0.0	2
42	Multiple Surface Plasmon Excitations in Molecular Thin Films on Silver Films in the Kretschmann ATR Configuration. Molecular Crystals and Liquid Crystals, 2002, 377, 53-56.	0.9	2
43	MULTIPLE SURFACE PLASMON EXCITATIONS AND NANOSTRUCTURED DEVICES OF ORGANIC ULTRATHIN FILMS. Molecular Crystals and Liquid Crystals, 2003, 407, 63-72.	0.9	2
44	Fabrication and Surface Plasmon Excitation Properties of Polystyrene Submicron and Micron Sphere Thin Films. Japanese Journal of Applied Physics, 2003, 42, 2506-2510.	1.5	2
45	Emission-angle-dependent photoluminescence of rubrene thin films on silver. Applied Optics, 2014, 53, 4742.	1.8	2
46	Mechanical properties and densification behavior of pentacene films pressurized by cold and warm isostatic presses. Organic Electronics, 2015, 16, 126-132.	2.6	2
47	Time-resolved forward-light-scattering monitoring of protein lysozyme aggregation in precrystalline solutions. Japanese Journal of Applied Physics, 2018, 57, 058003.	1.5	2
48	Detection of Evanescent Fields on Arachidic Acid LB Films on Al Films Caused by Resonantly Excited Surface Plasmons. Studies in Interface Science, 2001, 11, 43-53.	0.0	1
49	Analysis of TOF transient currents affected by circuit time constants. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2003, 143, 1-7.	0.4	1
50	Effects of Annealing on the Mechanical Properties of Pentacene and Tris(8-hydroxyquinoline) Aluminum Films. Molecular Crystals and Liquid Crystals, 2014, 599, 30-35.	0.9	1
51	Mechanical properties of copper phthalocyanine thin films densified by cold and warm isostatic press processes. Molecular Crystals and Liquid Crystals, 2017, 653, 248-253.	0.9	1
52	Surface Plasmon Excitations at Metal-Organic Thin Films and Orientated Light Emission Properties. IEEJ Transactions on Fundamentals and Materials, 2001, 121, 683-688.	0.2	1
53	Orientations of Liquid Crystal Molecules on Polyimide LB Films Evaluated by the Attenuated Total Reflection Measurement. Molecular Crystals and Liquid Crystals, 1998, 316, 231-234.	0.3	0
54	Enhancement of Short-Circuit Photocurrent in Merocyanine LB Film Cell Utilizing Surface Plasmon Polariton Excitation. Molecular Crystals and Liquid Crystals, 2000, 349, 231-234.	0.3	0

#	ARTICLE	IF	CITATIONS
55	Emission Light from Prism/Silver/Molecular Ultrathin Films and Excitations of Multiple Surface Plasmons in ATR Kretschmann Configuration. Materials Research Society Symposia Proceedings, 2001, 710, 1.	0.1	0
56	Photoelectric Cells of Merocyanine Langmuir-Blodgett Films Utilizing Surface Plasmon Excitations. Materials Research Society Symposia Proceedings, 2001, 708, 10431.	0.1	0
57	Enhancement of Photocurrents in Merocyanine LB Film Cell Utilizing Surface Plasmon Polariton Excitations. Studies in Interface Science, 2001, , 85-94.	0.0	0
58	NANOSTRUCTURED LB FILMS AND EMISSION LIGHT DUE TO MULTIPLE SURFACE PLASMON EXCITATIONS IN THE KRETSCHMANN CONFIGURATION. International Journal of Nanoscience, 2002, 01, 409-414.	0.7	0
59	Enhancement of Photoelectric Effect in Organic Dye Thin Film Cells by Surface Plasmon Excitation. Materials Research Society Symposia Proceedings, 2003, 796, 130.	0.1	0
60	SURFACE PLASMON RESONANCE AND EMITTED LIGHT PROPERTIES OF POLYSTYRENE SPHERE FILMS. Molecular Crystals and Liquid Crystals, 2003, 407, 73-80.	0.9	0
61	Enhanced-Evanescent-Field Induced Photoluminescence of Rubrene Thin Films. Molecular Crystals and Liquid Crystals, 2015, 622, 140-144.	0.9	0
62	Analysis of TOF transient currents affected by circuit time constants. IEEJ Transactions on Fundamentals and Materials, 2002, 122, 367-372.	0.2	0
63	Photoluminescence and Surface Plasmon Emission Light in Kretschmann Configuration of Nanostructured Rhodamine B LB Films. IEEJ Transactions on Fundamentals and Materials, 2004, 124, 293-298.	0.2	0
64	Structure and Optical and Electrical Properties in Spiropyran LB Films. IEEJ Transactions on Fundamentals and Materials, 1994, 114, 327-333.	0.2	0
65	Optical Properties and Heat Treatments of Azobenzene LB Ultrathin Films Adsorbing Cyanine Dyes Using ATR Measurements. IEEJ Transactions on Fundamentals and Materials, 1998, 118, 71-77.	0.2	0
66	Emission waveguiding in organic thin films supported by metal. Applied Optics, 2017, 56, 482.	2.1	0
67	Effects of salts on pre-crystalline lysozyme aggregation characterized by forward static light scattering. Transactions of the Materials Research Society of Japan, 2019, 44, 115-118.	0.2	0