Takashi Wakamatsu

List of Publications by Year
in descending order

67	473	687363 13	839539 18
papers	citations	h-index	g-index

69	69	69	251
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	The role of an applied electric field in protein crystallization at low temperature. Japanese Journal of Applied Physics, 2019, 58, 110903.	1.5	3
3	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
4	Time-resolved forward-light-scattering monitoring of proteinâ€“lysozyme aggregation in precrystalline solutions. Japanese Journal of Applied Physics, 2018, 57, 058003.	1.5	2
5	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
6	Emission waveguiding in organic thin films supported by metal. Applied Optics, 2017, 56, 482.	2.1	0
7	Low Applied Voltage Effects on Thaumatin Protein Crystallization. Transactions of the Materials Research Society of Japan, 2016, 41, 13-15.	0.2	7
8	Enhanced-Evanescent-Field Induced Photoluminescence of Rubrene Thin Films. Molecular Crystals and Liquid Crystals, 2015, 622, 140-144.	0.9	0
9	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
10	Mechanical properties and densification behavior of pentacene films pressurized by cold and warm isostatic presses. Organic Electronics, 2015, 16, 126-132.	2.6	2
11	Emission-angle-dependent photoluminescence of rubrene thin films on silver. Applied Optics, 2014, 53, 4742.	1.8	2
12	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
13	Forward-Light-Scattering Characterization of Pre-Crystalline Aggregates in Crystallizing Lysozyme Solutions. American Journal of Analytical Chemistry, 2014, 05, 581-588.	0.9	10
14	Enhanced photoluminescence spectroscopy for thin films using the attenuated total reflection method. Applied Optics, 2011, 50, 696.	2.1	3
15	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
16	Transparent Cell for Protein Crystallization under Low Applied Voltage. Japanese Journal of Applied Physics, 2011, 50, 048003.	1.5	5
17	Forward light scattering for highly sensitive detection of aggregation in crystallizing protein solutions. Applied Physics Letters, 2011, 98, 263701.	3.3	6
18	Observation of electric-field induced aggregation in crystallizing protein solutions by forward light scattering. Applied Physics Letters, 2011, 99, .	3.3	13

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19	Transparent Cell for Protein Crystallization under Low Applied Voltage. Japanese Journal of Applied Physics, 2011, 50, 048003.	1.5	9
20	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
21	Characteristics of Metal Enhanced Evanescent-Wave Microcavities. Sensors, 2010, 10, 8751-8760.	3.8	4
22	Intermolecular elastic and plastic characteristics of organic phthalocyanine thin films evaluated by nanoindentation. Applied Physics Letters, 2007, 90, 061921.	3.3	18
23	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
24	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
25	Penetration-Depth Characteristics of Evanescent Fields at Metal Attenuated Total Reflection. Japanese Journal of Applied Physics, 2005, 44, 4272-4274.	1.5	11
26	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
27	Low-refractive-index dye-aggregate films with small absorption based on anomalous dispersion. Applied Optics, 2005, 44, 906.	2.1	16
28	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
29	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
30	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
31	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
32	Thermal-changeable complex-refractive-index spectra of merocyanine aggregate films. Applied Optics, 2003, 42, 6929.	2.1	9
33	MULTIPLE SURFACE PLASMON EXCITATIONS AND NANOSTRUCTURED DEVICES OF ORGANIC ULTRATHIN FILMS. Molecular Crystals and Liquid Crystals, 2003, 407, 63-72.	0.9	2
34	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
35	SURFACE PLASMON RESONANCE AND EMITTED LIGHT PROPERTIES OF POLYSTYRENE SPHERE FILMS. Molecular Crystals and Liquid Crystals, 2003, 407, 73-80.	0.9	0
36	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

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37	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
38	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
39	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
40	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
41	Enhancement of optical absorption and photocurrents in solar cells of merocyanine Langmuirâ€“Blodgett films utilizing surface plasmon excitations. Materials Science and Engineering C, 2002, 22, 251-256.	7.3	23
42	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
43	Analysis of TOF transient currents affected by circuit time constants. IEEJ Transactions on Fundamentals and Materials, 2002, 122, 367-372.	0.2	0
44	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
45	Photoelectric Cells of Merocyanine Langmuir-Blodgett Films Utilizing Surface Plasmon Excitations. Materials Research Society Symposia Proceedings, 2001, 708, 10431.	0.1	0
46	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
47	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
48	Enhancement of Photocurrents in Merocyanine LB Film Cell Utilizing Surface Plasmon Polariton Excitations. Studies in Interface Science, 2001, , 85-94.	0.0	0
49	Emission from merocyanine Langmuirâ€“Blodgett films utilizing surface plasmon excitation. Thin Solid Films, 2001, 393, 97-102.	1.8	13
50	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
51	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
52	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
53	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
54	Evaluation of temperature and voltage dependences of nematic liquid crystal molecules on Langmuirâ€“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

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55	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
56	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
57	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
58	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
59	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
60	Surface Plasmon-Enhanced Photocurrent in Organic Photoelectric Cells. Japanese Journal of Applied Physics, 1997, 36, 155-158.	1.5	32
61	Attenuated total reflection properties and structures in squarylium LB films. Thin Solid Films, 1996, 284-285, 417-419.	1.8	23
62	Attenuated total reflection properties and structures in spiropyran LB thin films. Thin Solid Films, 1996, 284-285, 420-423.	1.8	14
63	Transient photoelectric responses in C60 LB films. Thin Solid Films, 1996, 284-285, 481-483.	1.8	5
64	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
65	Enhanced Photocurrent in Organic Photoelectric Cells Based on Surface Plasmon Excitations. Japanese Journal of Applied Physics, 1995, 34, L1467-L1469.	1.5	16
66	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
67	Structure and Optical and Electrical Properties in Spiropyran LB Films. IEEJ Transactions on Fundamentals and Materials, 1994, 114, 327-333.	0.2	0