

Mitsumasa Iwamoto

List of Publications by Year in descending order

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391
papers

5,728
citations

94269

37
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133063

59
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400
all docs

400
docs citations

400
times ranked

3185
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct imaging of carrier motion in organic transistors by optical second-harmonic generation. <i>Nature Photonics</i> , 2007, 1, 581-584.	15.6	223
2	Analysis of pentacene field effect transistor as a Maxwell-Wagner effect element. <i>Journal of Applied Physics</i> , 2006, 100, 114515.	1.1	199
3	Fundamentals of bulk heterojunction organic solar cells: An overview of stability/degradation issues and strategies for improvement. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 84, 43-53.	8.2	189
4	PREPARATION OF MONO- AND MULTILAYER FILMS OF AROMATIC POLYIMIDES USING LANGMUIR-BLODGETT TECHNIQUE. <i>Chemistry Letters</i> , 1986, 15, 823-826.	0.7	141
5	Generation of Maxwell displacement current across an azobenzene monolayer by photoisomerization. <i>Nature</i> , 1991, 353, 645-647.	13.7	130
6	Catalyst-Free Plasma Enhanced Growth of Graphene from Sustainable Sources. <i>Nano Letters</i> , 2015, 15, 5702-5708.	4.5	124
7	Electronic density of state in metal/polyimide Langmuir-Blodgett film interface and its temperature dependence. <i>Journal of Applied Physics</i> , 1997, 81, 1790-1797.	1.1	97
8	Probing of the electric field distribution in organic field effect transistor channel by microscopic second-harmonic generation. <i>Applied Physics Letters</i> , 2006, 89, 072113.	1.5	97
9	Spatial distribution of charges in ultrathin polyimide Langmuir-Blodgett films. <i>Journal of Applied Physics</i> , 1994, 75, 1607-1610.	1.1	90
10	Investigations of the dynamic behavior of fatty acid monolayers at the air-water interface using a displacement current-measuring technique coupled with the Langmuir-film technique. <i>Journal of Chemical Physics</i> , 1991, 94, 5135-5142.	1.2	87
11	Maxwell-Wagner Model Analysis for the Capacitance-Voltage Characteristics of Pentacene Field Effect Transistor. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 3712-3716.	0.8	81
12	Self-Powered Trace Memorization by Conjunction of Contact-Electrification and Ferroelectricity. <i>Advanced Functional Materials</i> , 2015, 25, 739-747.	7.8	70
13	Probing of carrier behavior in organic electroluminescent diode using electric field induced optical second-harmonic generation measurement. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	66
14	Phase transition of molecular orientation at the liquid-air interface. <i>Physical Review E</i> , 1994, 50, 614-617.	0.8	65
15	Modulation in optical second harmonic generation signal from channel of pentacene field effect transistors during device operation. <i>Applied Physics Letters</i> , 2005, 87, 222107.	1.5	65
16	Diffusionlike electric-field migration in the channel of organic field-effect transistors. <i>Physical Review B</i> , 2008, 78, .	1.1	63
17	Origin of electric field distribution in organic field-effect transistor: Experiment and analysis. <i>Journal of Applied Physics</i> , 2009, 105, .	1.1	59
18	Determination of the Dipole Moment of a Monolayer at the Air/Water Interface Using a Current-Measuring Technique. <i>Japanese Journal of Applied Physics</i> , 1988, 27, 721-725.	0.8	58

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19	Chiroptical switch based on azobenzene-substituted polydiacetylene LB films under thermal and photic stimuli. <i>Journal of Materials Chemistry</i> , 2010, 20, 285-291.	6.7	56
20	Analysis of Organic Light-Emitting Diode As a Maxwell-Wagner Effect Element by Time-Resolved Optical Second Harmonic Generation Measurement. <i>Journal of Physical Chemistry Letters</i> , 2010, 1, 803-807.	2.1	55
21	Calculation of the dielectric constant of monolayer films on a material surface. <i>Physical Review B</i> , 1996, 54, 8186-8190.	1.1	54
22	Surface potential of phthalocyanine Langmuir-Blodgett films on metal electrodes. <i>Journal of Applied Physics</i> , 1998, 83, 372-376.	1.1	54
23	Current-Voltage Characteristics of Pentacene Films: Effect of UV/Ozone Treatment on Au Electrodes. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 561-565.	0.8	54
24	Control of the nano electrostatic phenomena at a pentacene/metal interface for improvement of the organic FET devices. <i>Thin Solid Films</i> , 2006, 499, 386-391.	0.8	51
25	Control and modulation of chirality for azobenzene-substituted polydiacetylene LB films with circularly polarized light. <i>Chemical Communications</i> , 2009, , 5627.	2.2	50
26	Modeling of threshold voltage in pentacene organic field-effect transistors. <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	48
27	The Charge Transport in Organic Field-Effect Transistor as an Interface Charge Propagation: The Maxwell-Wagner Effect Model and Transmission Line Approximation. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 071603.	0.8	46
28	Analysis of Carrier Transients in Double-Layer Organic Light Emitting Diodes by Electric-Field-Induced Second-Harmonic Generation Measurement. <i>Journal of Physical Chemistry C</i> , 2010, 114, 15136-15140.	1.5	46
29	Shape Deformation and Circle Instability in Two-Dimensional Lipid Domains by Dipolar Force: A Shape- and Size-Dependent Line Tension Model. <i>Physical Review Letters</i> , 2004, 93, 206101.	2.9	45
30	Analysis of Transient Currents in Organic Field Effect Transistor: The Time-of-Flight Method. <i>Journal of Physical Chemistry C</i> , 2009, 113, 18459-18461.	1.5	45
31	A new displacement current measuring system coupled with the Langmuir-film technique. <i>Review of Scientific Instruments</i> , 1991, 62, 2228-2233.	0.6	44
32	Orientalional order study of monolayers at the air-water interface by Maxwell-displacement current and optical second harmonic generation. <i>Journal of Chemical Physics</i> , 2001, 115, 9010-9017.	1.2	44
33	Analyzing carrier lifetime of double-layer organic solar cells by using optical electric-field-induced second-harmonic generation measurement. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	44
34	Large surface potential of Alq3 film and its decay. <i>Journal of Applied Physics</i> , 2005, 97, 023703.	1.1	43
35	Direct Probing of Photovoltaic Effect Generated in Double-Layer Organic Solar Cell by Electric-Field-Induced Optical Second-Harmonic Generation. <i>Applied Physics Express</i> , 2011, 4, 021602.	1.1	42
36	Preparation of Chiral Polydiacetylene Film from Achiral Monomers Using Circularly Polarized Light. <i>Chemistry Letters</i> , 2006, 35, 1028-1029.	0.7	39

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37	Energetic alignment in nontoxic SnS quantum dot-sensitized solar cell employing spiro-OMeTAD as the solid-state electrolyte. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 035006.	2.8	39
38	Optical second-harmonic generation measurement for probing organic device operation. <i>Light: Science and Applications</i> , 2016, 5, e16040-e16040.	7.7	37
39	Studying Transient Carrier Behaviors in Pentacene Field Effect Transistors Using Visualized Electric Field Migration. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10279-10284.	1.5	36
40	Second-order susceptibility tensor of a monolayer at the liquid-air interface: SHG spectroscopy by compression. <i>Chemical Physics Letters</i> , 2000, 325, 545-551.	1.2	35
41	Probing of interfacial charging and discharging in double-layer devices with a polyimide blocking layer by time-resolved optical second harmonic generation. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	35
42	Investigation of interfacial charging and discharging in double-layer pentacene-based metal-insulator-metal device with polyterpenol blocking layer using electric field induced second harmonic generation. <i>Chemical Physics Letters</i> , 2011, 503, 105-111.	1.2	34
43	Electron-blocking hole-transport polyterpenol thin films. <i>Chemical Physics Letters</i> , 2012, 528, 26-28.	1.2	34
44	Analysis of carrier injection into a pentacene field effect transistor by optical second harmonic generation measurements. <i>Journal of Applied Physics</i> , 2007, 101, 024515.	1.1	33
45	Charge modulated reflectance topography for probing in-plane carrier distribution in pentacene field-effect transistors. <i>Applied Physics Letters</i> , 2010, 97, .	1.5	33
46	Interaction of interfacial charge and ferroelectric polarization in a pentacene/poly(vinylidene fluoride)/polymer heterostructure. <i>Applied Physics Letters</i> , 2010, 97, 013101.	1.5	33
47	Investigation of photoinduced molecular switching in a single monolayer by a displacement current measuring technique. <i>Journal of Chemical Physics</i> , 1991, 95, 8561-8567.	1.2	31
48	Electronic density of state at metal/polyimide Langmuir-Blodgett film interface. <i>Applied Physics Letters</i> , 1996, 68, 2714-2716.	1.5	31
49	Weak boundary anchoring, twisted nematic effect, and homeotropic to twisted-planar transition. <i>Physical Review E</i> , 2002, 65, 031709.	0.8	31
50	Investigation of the Electrostatic Phenomena at Pentacene/Metal Interface by Second-Harmonic Generation. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 2818-2822.	0.8	31
51	Influence of traps on transient electric field and mobility evaluation in organic field-effect transistors. <i>Journal of Applied Physics</i> , 2010, 107, 043712.	1.1	31
52	Detection of phase transitions in liquid crystals on a water surface by a Maxwell displacement current measuring technique. <i>Journal of Chemical Physics</i> , 1995, 102, 9368-9374.	1.2	30
53	Resistive switching in graphene-organic device: Charge transport properties of graphene-organic device through electric field induced optical second harmonic generation and charge modulation spectroscopy. <i>Carbon</i> , 2017, 112, 111-116.	5.4	30
54	The dielectric dispersion of insulating films with long-range movements of charge carriers. <i>Journal of Applied Physics</i> , 1995, 77, 5314-5321.	1.1	29

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55	Probing of electric field in pentacene using microscopic optical second harmonic generation. Journal of Applied Physics, 2008, 103, 084118.	1.1	29
56	Insight into the contact resistance problem by direct probing of the potential drop in organic field-effect transistors. Applied Physics Letters, 2010, 97, .	1.5	29
57	Analysis of hysteresis behavior of pentacene field effect transistor characteristics with capacitance-voltage and optical second harmonic generation measurements. Journal of Applied Physics, 2007, 101, 094505.	1.1	28
58	Probing interfacial charge accumulation in ITO/ $\text{NPD}/\text{Alq3}/\text{Al}$ diodes under two electroluminescence operational modes by electric-field induced optical second-harmonic generation. Journal of Applied Physics, 2012, 112, .	1.1	28
59	Anomalous anchoring effect of nanopolyimide Langmuir-Blodgett films in a twisted nematic liquid-crystal cell. Physical Review E, 1996, 54, 5217-5220.	0.8	27
60	Shape and stability of two-dimensional lipid domains with dipole-dipole interactions. Journal of Chemical Physics, 2006, 125, 224701.	1.2	27
61	Optical second harmonic generation imaging for visualizing in-plane electric field distribution. Optics Express, 2007, 15, 15964.	1.7	27
62	Measuring the Electronic Properties of DNA-Specific Schottky Diodes Towards Detecting and Identifying Basidiomycetes DNA. Scientific Reports, 2016, 6, 29879.	1.6	27
63	Motion behavior of water droplets driven by triboelectric nanogenerator. Applied Physics Letters, 2018, 112, .	1.5	27
64	Spectroscopic consideration of the surface potential built across phthalocyanine thin films on a metal electrode. Journal of Chemical Physics, 2004, 120, 7725-7732.	1.2	26
65	Probing and modeling of interfacial carrier motion in organic devices by optical second harmonic generation. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2010, 28, C5F12-C5F16.	0.6	26
66	Josephson Junctions Using Polyimide Langmuir-Blodgett Films with a Nb/Au/PI/(Pb-Bi) Structure. Japanese Journal of Applied Physics, 1991, 30, L393-L395.	0.8	25
67	Surface Potential of Heat-Treated PI Langmuir-Blodgett Films Deposited on Metal Electrodes. Japanese Journal of Applied Physics, 1992, 31, 3671-3674.	0.8	25
68	Analysis of scanning probe used for simultaneous measurement of tunneling current and surface potential. Journal of Applied Physics, 1999, 86, 7087-7093.	1.1	25
69	Probing carrier injection into pentacene field effect transistor by time-resolved microscopic optical second harmonic generation measurement. Journal of Applied Physics, 2009, 106, 014511.	1.1	25
70	Analysis of dielectric relaxation phenomena with molecular orientational ordering in monolayers at the liquid-air interface. Physical Review E, 1996, 54, 6603-6608.	0.8	24
71	Fabricating chiral polydiacetylene film by monolayer compression and circularly polarized ultra-violet light. Chemical Physics Letters, 2007, 442, 97-100.	1.2	24
72	Analyzing photovoltaic effect of double-layer organic solar cells as a Maxwell-Wagner effect system by optical electric-field-induced second-harmonic generation measurement. Journal of Applied Physics, 2011, 110, .	1.1	24

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73	Analyzing photo-induced interfacial charging in IZO/pentacene/C60/bathocuproine/Al organic solar cells by electric-field-induced optical second-harmonic generation measurement. Journal of Applied Physics, 2012, 111, .	1.1	24
74	Study of blocking effect of Cu-phthalocyanine layer in zinc oxide/pentacene/CuPc/C60/Al organic solar cells by electric field-induced optical second harmonic generation measurement. Organic Electronics, 2013, 14, 320-325.	1.4	24
75	Channel Formation as an Interface Charging Process in a Pentacene Field Effect Transistor Investigated by Time-Resolved Second Harmonic Generation and Impedance Spectroscopy. Japanese Journal of Applied Physics, 2012, 51, 02BK08.	0.8	24
76	Instrument equipped with Maxwell displacement current and optical second-harmonic generation measurement system. Review of Scientific Instruments, 2003, 74, 2828-2835.	0.6	23
77	Determination of the complete dielectric polarization of Langmuir monolayers. Review of Scientific Instruments, 2005, 76, 083902.	0.6	23
78	Analysis of interface carrier accumulation and relaxation in pentacene/C60 double-layer organic solar cell by impedance spectroscopy and electric-field-induced optical second harmonic generation. Journal of Applied Physics, 2011, 110, .	1.1	23
79	Calculation of the dielectric constant of monolayer films with dielectric anisotropy. Physical Review B, 1997, 55, 10922-10930.	1.1	22
80	Analysis of weak-anchoring effect in nematic liquid crystals. Physical Review E, 2000, 62, R1481-R1484.	0.8	22
81	Electrical properties of unsubstituted/fluorine-substituted phthalocyanine interface investigated by Kelvin probe method. Thin Solid Films, 2003, 438-439, 157-161.	0.8	22
82	Compression-shear-induced tilt azimuthal orientation of amphiphilic monolayers at the air-water interface: AC \rightarrow C \rightarrow transition in the flow of a two-dimensional hexatic structure. Physical Review E, 2003, 67, 041711.	0.8	22
83	Decay process of a large surface potential of Alq ₃ films by heating. Journal of Applied Physics, 2006, 100, 053707.	1.1	22
84	Injected carrier distribution in a pentacene field effect transistor probed using optical second harmonic generation. Journal of Applied Physics, 2008, 104, .	1.1	22
85	Interfacial electrostatic phenomena and capacitance-voltage characteristics of ultrathin polyimide Langmuir-Blodgett films. Journal of Applied Physics, 1999, 85, 7239-7243.	1.1	21
86	Analysis of pentacene field-effect transistor with contact resistance as an element of a Maxwell-Wagner effect system. Journal of Applied Physics, 2008, 104, .	1.1	21
87	Electronic Properties of Synthetic Shrimp Pathogens-derived DNA Schottky Diodes. Scientific Reports, 2018, 8, 896.	1.6	21
88	Detection of phase transition of monolayers at the air-water interface by compression using Maxwell displacement current and optical second harmonic generation. Journal of Chemical Physics, 2003, 118, 5640-5649.	1.2	20
89	Analyzing interfacial carrier charging in pentacene/C60 double-layer organic solar cells by optical electric field induced second-harmonic generation measurement. Chemical Physics Letters, 2011, 511, 491-495.	1.2	20
90	Second-harmonic generation and Maxwell displacement current spectroscopy of chiral organic monolayers at the air-water interface. Journal of Chemical Physics, 2003, 119, 7427-7434.	1.2	19

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91	Studying the chirality of polymerized 10,12-tricosadynoic acid LB films using SHG polarized angle dependence and SHG-CD method. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 284-285, 424-429.	2.3	19
92	Carrier injection and transport in organic field-effect transistor investigated by impedance spectroscopy. <i>Thin Solid Films</i> , 2009, 518, 448-451.	0.8	19
93	Nano-electrostatic phenomena in Langmuir-Blodgett films. <i>Thin Solid Films</i> , 1998, 331, 15-24.	0.8	18
94	Electrostatic energies stored in dipolar films and analysis of decaying process of a large surface potential of Alq3 films. <i>Chemical Physics Letters</i> , 2006, 430, 340-344.	1.2	18
95	Bulk-trap modulated Maxwell-Wagner type interfacial carrier relaxation process in a fullerene/polyimide double-layer device investigated by time-resolved second harmonic generation. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	18
96	Selective observation of photo-induced electric fields inside different material components in bulk-heterojunction organic solar cell. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	18
97	Probing of channel region in pentacene field effect transistors by optical second harmonic generation. <i>Chemical Physics Letters</i> , 2009, 477, 221-224.	1.2	17
98	Direct Observation of Anisotropic Carrier Transport in Organic Semiconductor by Time-Resolved Microscopic Optical Second-Harmonic Imaging. <i>Applied Physics Express</i> , 2013, 6, 101601.	1.1	17
99	Surface Potential of Polyimide Langmuir-Blodgett Films Deposited on Metal Electrodes. <i>Japanese Journal of Applied Physics</i> , 1990, 29, L638-L640.	0.8	16
100	Interfacial electronic density of states in phthalocyanine derivative Langmuir-Blodgett films determined by surface potential measurement. <i>Journal of Applied Physics</i> , 1999, 86, 3848-3852.	1.1	16
101	Displacement current analysis of carrier behavior in pentacene field effect transistor with poly(vinylidene fluoride and tetrafluoroethylene) gate insulator. <i>Journal of Applied Physics</i> , 2009, 106, 024505.	1.1	16
102	Transport limited interfacial carrier relaxation in a double-layer device investigated by time-resolved second harmonic generation and impedance spectroscopy. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	16
103	Direct probing of contact electrification by using optical second harmonic generation technique. <i>Scientific Reports</i> , 2015, 5, 13019.	1.6	16
104	Modeling and visualization of carrier motion in organic films by optical second harmonic generation and Maxwell-displacement current. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 373001.	1.3	16
105	Maxwell displacement current across single monolayers. <i>Thin Solid Films</i> , 1994, 244, 1031-1036.	0.8	15
106	Surface Morphology and Electrical Transport Properties of Polydiacetylene-Based Organic Field-Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 6436-6441.	0.8	15
107	Probing Electric Field Distribution in Underlayer of an Organic Double-Layer System by Optical Second-Harmonic Generation Measurement. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 021504.	0.8	15
108	Space charge field effect on light emitting from tetracene field-effect transistor under AC electric field. <i>Thin Solid Films</i> , 2009, 518, 583-587.	0.8	15

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109	Observation of electron behavior in ambipolar polymer-based light-emitting transistor by optical second harmonic generation. <i>Journal of Applied Physics</i> , 2011, 110, 013715.	1.1	15
110	Algal Biophotovoltaic Devices: Surface Potential Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 10511-10520.	3.2	15
111	Maxwell displacement current generation due to transphotoisomerization in monolayer Langmuir-Blodgett film. <i>Journal of Applied Physics</i> , 1992, 72, 1637-1641.	1.1	14
112	Displacement-Current Generation from Spread Monolayers of Poly(vinyl alcohol)s Bearing Azobenzene Sides. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 2832-2836.	0.8	14
113	Study of trap-filling effect on transient carrier transport in pentacene field effect transistors by time-resolved optical second harmonic generation. <i>Chemical Physics Letters</i> , 2011, 507, 195-198.	1.2	14
114	Direct probing of the selective electron and hole accumulation at organic/organic interfaces in a triple-layer organic device by time-resolved optical second harmonic generation. <i>Applied Physics Letters</i> , 2011, 99, 083301.	1.5	14
115	Probing and modeling of carrier motion in organic devices by electric-field-induced optical second-harmonic generation. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 100101.	0.8	14
116	Analysis of carrier transport and carrier trapping in organic diodes with polyimide-6,13-Bis(triisopropylsilylethynyl)pentacene double-layer by charge modulation spectroscopy and optical second harmonic generation measurement. <i>Applied Physics Letters</i> , 2014, 105, 073301.	1.5	14
117	Study of carrier transport in flexible organic field-effect transistors: Analysis of bending effect and microscopic observation using electric-field-induced optical second-harmonic generation. <i>Thin Solid Films</i> , 2014, 554, 166-169.	0.8	14
118	Maxwell displacement current across monolayer polyimide Langmuir-Blodgett films with azobenzene by photoirradiation. <i>Journal of Applied Physics</i> , 1993, 74, 1131-1137.	1.1	13
119	Electrostatic Phenomena in π -conjugated Langmuir-Blodgett Films on Metal Electrodes. <i>Japanese Journal of Applied Physics</i> , 1998, 37, 577-583.	0.8	13
120	Orientalional order study of 4-alkyl-4'-cyanobiphenyl Langmuir films by Maxwell displacement current and optical second harmonic generation measurements. <i>Thin Solid Films</i> , 2001, 393, 86-91.	0.8	13
121	Electric quadrupole model on the formation of molecular chirality dependent domain shapes of lipid monolayers at the air-water interface. <i>Journal of Chemical Physics</i> , 2007, 126, 125106.	1.2	13
122	Molecular structure modulated properties of azobenzene-substituted polydiacetylene LB films: Chirality formation and thermal stability. <i>Polymer</i> , 2010, 51, 2229-2235.	1.8	13
123	Reduction of Hysteresis in Organic Field-Effect Transistor by Ferroelectric Gate Dielectric. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 021601.	0.8	13
124	Recent progress in the development of portable high voltage source based on triboelectric nanogenerator. <i>Smart Materials in Medicine</i> , 2020, 1, 66-76.	3.7	13
125	Transient current across insulating films with long-range movements of charge carriers. <i>Journal of Applied Physics</i> , 1996, 79, 7936-7943.	1.1	12
126	Molecular twist transition in chiral and racemic phospholipid monolayers detected by Maxwell-displacement-current measurements. <i>Physical Review E</i> , 1999, 59, 2105-2108.	0.8	12

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127	Probing motion of electric dipoles and carriers in organic monolayers by Maxwell Displacement Current and optical second harmonic generation. <i>Thin Solid Films</i> , 2008, 517, 1312-1316.	0.8	12
128	Observation of Carrier Behavior in Organic Field-Effect Transistors with Electroluminescence under AC Electric Field. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 3200-3203.	0.8	12
129	Probing charging effects induced in ITO/polyimide/6,13-Bis(triisopropylsilylethynyl)-pentacene/Au diodes by time-resolved optical second harmonic generation measurement. <i>Chemical Physics Letters</i> , 2011, 515, 306-309.	1.2	12
130	Analyzing two electroluminescence modes of indium tin oxide/ $\sqrt{1\pm}$ -NPD/Alq3/Al diodes by using large alternating current square voltages. <i>Journal of Applied Physics</i> , 2011, 110, 103707.	1.1	12
131	Direct observation of space charge field in tetracene field-effect transistor using time-resolved microscopic optical second harmonic generation. <i>Journal of Applied Physics</i> , 2011, 109, 054506.	1.1	12
132	Analyzing hysteresis behavior of capacitance-voltage characteristics of IZO/C60/pentacene/Au diodes with a hole-transport electron-blocking polyterpenol layer by electric-field-induced optical second-harmonic generation measurement. <i>Chemical Physics Letters</i> , 2013, 572, 150-153.	1.2	12
133	Measurement of displacement current across single monolayers with thermal stimulation. <i>Review of Scientific Instruments</i> , 1993, 64, 2627-2631.	0.6	11
134	Polar orientational phase transition and differential dielectric constant of smectic monolayers on a water surface. <i>Journal of Chemical Physics</i> , 1998, 109, 4552-4561.	1.2	11
135	Determination of dipole moment of azobenzene dendrimer by Maxwell-displacement-current measurement for Langmuir monolayer. <i>Chemical Physics Letters</i> , 2002, 355, 164-168.	1.2	11
136	Electrical Transport Properties of Polydiacetylene Films during Thermochromic Process. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 3071-3076.	0.8	11
137	Electrostatic Maxwell stress model of the shapes of condensed phase domains in monolayers at the air-water interface. <i>Journal of Chemical Physics</i> , 2008, 128, 204706.	1.2	11
138	The Maxwell-Wagner model for charge transport in ambipolar organic field-effect transistors: The role of zero-potential position. <i>Applied Physics Letters</i> , 2012, 101, 243302.	1.5	11
139	Investigation of the chiroptical behavior of optically active polyaniline synthesized from naturally occurring amino acids. <i>Polymer Journal</i> , 2013, 45, 160-165.	1.3	11
140	Preparation of LB ultra-thin polyimide film of 4.ANGS. thickness and properties of build-up films.. <i>IEEJ Transactions on Fundamentals and Materials</i> , 1986, 106, 435-441.	0.2	11
141	A method for studying interface states in MIS structures by thermally stimulated surface potential. <i>Journal of Applied Physics</i> , 1978, 49, 2866-2875.	1.1	10
142	Photoinduced Surface Potential in Polyimide Langmuir-Blodgett Films. <i>Japanese Journal of Applied Physics</i> , 1993, 32, 860-863.	0.8	10
143	Effect of the metal/organic interface phenomena on the current-voltage characteristics of organic single electron tunneling device. <i>Thin Solid Films</i> , 2001, 393, 379-382.	0.8	10
144	Observation of Electron Injection into Organic Field-Effect Transistor with Au Electrodes using Electroluminescence under AC Electric Field. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 1297-1300.	0.8	10

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145	Trapping centers engineering by including of nanoparticles into organic semiconductors. Journal of Applied Physics, 2008, 104, 114502.	1.1	10
146	Induced Optical Chirality of Poly(diacetylene) Film by Circularly Polarized Light and Its Control by Changing Substrate Temperature. Japanese Journal of Applied Physics, 2008, 47, 1359-1362.	0.8	10
147	Probing carrier behavior in organic semiconductor device by electric field induced optical second harmonic generation measurement. Organic Electronics, 2012, 13, 2489-2493.	1.4	10
148	Analyzing a two-step polarization process in a pentacene/poly(vinylidene fluoride - trifluoroethylene) double-layer device using Maxwell-Wagner model. Journal of Applied Physics, 2012, 111, 023706.	1.1	10
149	Direct observation of trapped charges under field-plate in p-GaN gate AlGaN/GaN high electron mobility transistors by electric field-induced optical second-harmonic generation. Applied Physics Letters, 2017, 110, .	1.5	10
150	Detection of Molecular Switching in Single Monolayers by Maxwell-Displacement-Current-Measuring Technique. Japanese Journal of Applied Physics, 1995, 34, 3814-3819.	0.8	9
151	Molecular switching in phospholipid-azobenzene mixed monolayers by photoisomerization. Thin Solid Films, 1998, 331, 239-247.	0.8	9
152	Modeling analysis of molecular chiral effect detected by Maxwell-displacement-current measurements. Journal of Chemical Physics, 1999, 110, 12131-12141.	1.2	9
153	Nonlinear dependence of Maxwell displacement current across chiral phospholipid mixed monolayers on molar ratio. Journal of Chemical Physics, 2000, 113, 2880-2885.	1.2	9
154	Interfacial Electrostatic Phenomena in Phthalocyanine Langmuir-Blodgett Films under Photoillumination. Japanese Journal of Applied Physics, 2001, 40, 1315-1321.	0.8	9
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