Martin Weis

List of Publications by Year
in descending order

138 papers	1,761 citations	257101 24 h-index	344852 36 g-index
140 all docs	140 docs citations	140 times ranked	1823 citing authors

#	Article	IF	Citations
1	Fabrication of cupric oxide-based transistors by a solâ€“gel technique using a binary solvent mixture. Journal of Materials Science: Materials in Electronics, 2022, 33, 7701-7707.	1.1	5
2	Dithienylnaphthalenes and quaterthiophenes substituted with electron-withdrawing groups as n-type organic semiconductors for organic field-effect transistors. Journal of Materials Chemistry C, 2022, 10, 10058-10074.	2.7	3
3	Fabrication of cupric oxideâ€based transistors by solâ€“gel technique. Journal of Materials Science: Materials in Electronics, 2021, 32, 6883-6889.	1.1	4
4	Synthesis and Effect of the Structure of Bithienyl-Terminated Surfactants for Dielectric Layer Modification in Organic Transistor. Materials, 2021, 14, 6345.	1.3	3
5	Photoresponse Dimensionality of Organic Field-Effect Transistor. Materials, 2021, 14, 7465.	1.3	3
6	Flexible inkjet sensor fabricated by inkjet printing. , 2020, , .		1
7	Organic pentacene and fullerene C60 inverters: the influence of gate dielectric. , 2020, , .		0
8	Copper oxide field-effect transistor fabricated by sol-gel method. , 2020, , .		2
9	4-Azafluorenone and Î±-Carboline Fluorophores with Green and Violet/Blue Emission. Molecules, 2019, 24, 2378.	1.7	2
10	Synthesis and characterization of new [1]benzothieno[3,2-b]benzothiophene derivatives with alkyl-thiophene core for application in organic field-effect transistors. Organic Electronics, 2019, 68, 121-128.	1.4	14
11	Relation between secondary doping and phase separation in PEDOT:PSS films. Applied Surface Science, 2017, 395, 86-91.	3.1	36
12	Electric-field enhanced thermionic emission model for carrier injection mechanism of organic field-effect transistors: understanding of contact resistance. Journal Physics D: Applied Physics, 2017, 50, 035101.	1.3	22
13	Effect of alkyl side chains on properties and organic transistor performance of 2,6-bis(2,2â€²-bithiophen-5-yl)naphthalene. Synthetic Metals, 2017, 233, 1-14.	2.1	12
14	Charge injection and transport properties of an organic light-emitting diode. Beilstein Journal of Nanotechnology, 2016, 7, 47-52.	1.5	33
15	Effect of the ethynylene linker on the properties and carrier mobility of naphthalene derivatives with hexylbithienyl arms. Synthetic Metals, 2016, 217, 156-171.	2.1	7
16	Visible Light Photodiodes and Photovoltages from Detonation Nanodiamonds. MRS Advances, 2016, 1, 971-975.	0.5	0
17	Wearable healthcare electronics for 24-7 monitoring with focus on user comfort. , 2016, , .		2
18	Secondary doping in poly(3,4â€ethylenedioxythiophene):Poly(4â€styrenesulfonate) thin films. Journal of Polymer Science, Part B: Polymer Physics, 2015, 53, 1139-1146.	2.4	84

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19	Characterization of charge traps in pentacene diodes by electrical methods. Organic Electronics, 2015, 17, 240-246.	1.4	5
20	Oligothiophenes with the naphthalene core for organic thin-film transistors: variation in positions of bithiophenyl attachment to the naphthalene. Synthetic Metals, 2015, 202, 73-81.	2.1	15
21	Charge injection and accumulation in organic light-emitting diode with PEDOT:PSS anode. Journal of Applied Physics, 2015, 117, .	1.1	23
22	Modified transmission-line method for evaluation of the contact resistance: Effect of channel-length-dependent threshold voltage. Japanese Journal of Applied Physics, 2014, 53, 011601.	0.8	15
23	Impact of the interfacial traps on the charge accumulation in organic transistors. Journal of Experimental Nanoscience, 2014, 9, 994-1002.	1.3	2
24	Plasmonic properties of Au-Ag nanoparticles: Distinctiveness of metal arrangements by optical study. Journal of Applied Physics, 2014, 115, .	1.1	15
25	Effects of substrate condition on calcium corrosion and its role in the calcium test for water vapour transmission rate. Corrosion Science, 2014, 88, 400-404.	3.0	1
26	A non-equilibrium transient phase revealed by in situ GISAXS tracking of the solvent-assisted nanoparticle self-assembly. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	2
27	Metal nanoparticles in organic field-effect transistor: Transition from charge trapping to conduction mechanism. Thin Solid Films, 2014, 554, 189-193.	0.8	2
28	Direct visualization and modeling of carrier distribution in organic light emitting transistor. Thin Solid Films, 2014, 554, 162-165.	0.8	2
29	Surface plasmon resonance of gold and silver nanoparticle monolayers: effect of coupling and surface oxides. , 2013, , .		2
30	Effect of metal arrangement on localized surface plasmon polaritons in bimetallic nanoparticles. , 2013, , .		1
31	Photogenerated charge carriers in double-layer organic field-effect transistor. Synthetic Metals, 2013, 175, 47-51.	2.1	6
32	Coupling between Transport and Injection Properties of Pentacene Field-Effect Transistors with Different Morphologies. Japanese Journal of Applied Physics, 2013, 52, 080203.	0.8	0
33	Effects of positive and negative constant voltage stress on organic TFTs. , 2013, , .		5
34	Impact of Illumination on Charge Injection and Accumulation in Organic Transistor in Presence of Plasmonic Nanoparticles. Japanese Journal of Applied Physics, 2013, 52, 04CK08.	0.8	2
35	Gradual channel approximation models for organic field-effect transistors: The space-charge field effect. Journal of Applied Physics, 2012, 111, .	1.1	22
36	Effect of an Upward and Downward Interface Dipole Langmuirâ€“Blodgett Monolayer on Pentacene Organic Field-Effect Transistors: A Comparison Study. Japanese Journal of Applied Physics, 2012, 51, 024102.	0.8	10

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37	Analyzing Photo Induced Internal Electric Field in Pentacene/C₆₀ Double-Layer Organic Solar Cells under Various External Voltages by Electric-Field-Induced Optical Second Harmonic Generation Measurement. Japanese Journal of Applied Physics, 2012, 51, 041605.	0.8	2
38	Improved Tolerance Against UV and Alpha Irradiation of Encapsulated Organic TFTs. IEEE Transactions on Nuclear Science, 2012, 59, 2979-2986.	1.2	9
39	The Maxwell-Wagner model for charge transport in ambipolar organic field-effect transistors: The role of zero-potential position. Applied Physics Letters, 2012, 101, 243302.	1.5	11
40	Conservation of the injection and transit time ratio in organic field-effect transistors: A thermally accelerated aging study. Journal of Applied Physics, 2012, 111, 104505.	1.1	2
41	Influence of surface oxidation on plasmon resonance in monolayer of gold and silver nanoparticles. Journal of Applied Physics, 2012, 112, .	1.1	83
42	Electrochemical methods coupled with impedance measurement for energy gap study: correlation between the energy states and charge transport properties. Synthetic Metals, 2012, 162, 2236-2241.	2.1	3
43	Memory effect in organic transistor: Controllable shifts in threshold voltage. Chemical Physics Letters, 2012, 551, 105-110.	1.2	8
44	Anomalous charge transfer on a microstructured composite electrode: Application in sensing. Chemical Physics Letters, 2012, 544, 59-63.	1.2	0
45	Pentacene-Gate Dielectric Interface Modification with Silicon Nanoparticles for OTFTs. Physics Procedia, 2012, 32, 285-288.	1.2	2
46	Nonequilibrium Phases of Nanoparticle Langmuir Films. Langmuir, 2012, 28, 10409-10414.	1.6	33
47	Silver Nanoparticle Monolayer-to-Bilayer Transition at the Air/Water Interface as Studied by the GISAXS Technique: Application of a New Paracrystal Model. Langmuir, 2012, 28, 9395-9404.	1.6	27
48	Contact Resistance as an Origin of the Channel-Length-Dependent Threshold Voltage in Organic Field-Effect Transistors. Japanese Journal of Applied Physics, 2012, 51, 100205.	0.8	4
49	Multiple-trapping in pentacene field-effect transistors with a nanoparticles self-assembled monolayer. AIP Advances, 2012, 2, .	0.6	4
50	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
51	Effect of an Upward and Downward Interface Dipole Langmuirâ€“Blodgett Monolayer on Pentacene Organic Field-Effect Transistors: A Comparison Study. Japanese Journal of Applied Physics, 2012, 51, 024102.	0.8	4
52	Contact Resistance as an Origin of the Channel-Length-Dependent Threshold Voltage in Organic Field-Effect Transistors. Japanese Journal of Applied Physics, 2012, 51, 100205.	0.8	14
53	Analyzing Photo Induced Internal Electric Field in Pentacene/C₆₀Double-Layer Organic Solar Cells under Various External Voltages by Electric-Field-Induced Optical Second Harmonic Generation Measurement. Japanese Journal of Applied Physics, 2012, 51, 041605.	0.8	1
54	Trapping effect of metal nanoparticle mono- and multilayer in the organic field-effect transistor. Journal of Applied Physics, 2011, 109, 064512.	1.1	12

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55	Direct Probing of Photovoltaic Effect Generated in Double-Layer Organic Solar Cell by Electric-Field-Induced Optical Second-Harmonic Generation. Applied Physics Express, 2011, 4, 021602.	1.1	42
56	Effect of Photogenerated Carriers on Ferroelectric Polarization Reversal. Applied Physics Express, 2011, 4, 121601.	1.1	6
57	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
58	Microstructured nanoparticle membrane sensor based on non-Cottrellian diffusion. Journal of Electroanalytical Chemistry, 2011, 659, 58-62.	1.9	4
59	In situ GISAXS monitoring of Langmuir nanoparticle multilayer degradation processes induced by UV photolysis. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2629-2634.	0.8	11
60	Determination of Lifetime of Double-Layer CuPc/C60 Organic Solar Cells by Optical Electric-Field-Induced Second-Harmonic Generation Measurement. Physics Procedia, 2011, 14, 167-171.	1.2	0
61	Effect of carrier injection process in the organic field-effect transistor by introducing metal nanoparticle monolayer. Physics Procedia, 2011, 14, 239-244.	1.2	0
62	Carrier Propagation Dependence on Applied Potentials in OFET Investigated by Impedance Spectroscopy. Physics Procedia, 2011, 14, 187-191.	1.2	0
63	Effects of an Interface Monolayer with Downward Dipole Orientation on Pentacene Organic Field-Effect Transistors. Physics Procedia, 2011, 14, 198-203.	1.2	4
64	Direct Probing of Carrier Behavior in Electroluminescence Indiumâ€“Zinc-Oxide/N,N'-Di-[(1-naphthyl)-N,N'-diphenyl]-(1,1'-biphenyl)-4,4'-diamine/Tris(8-hydroxy-quinolinato)aluminum(III)/LiF/Al Diode by Time-Resolved Optical Second-Harmonic Generation. Japanese Journal of Applied Physics, 2011, 50, 04DK08.	0.8	6
65	Function of Interfacial Dipole Monolayer in Organic Field Effect Transistors. Japanese Journal of Applied Physics, 2011, 50, 04DK10.	0.8	8
66	Grain Boundary Effect on Charge Transport in Pentacene Thin Films. Japanese Journal of Applied Physics, 2011, 50, 04DK03.	0.8	8
67	Observation of Continuous and Quantized Domain Size and Shape Evolution in Monolayers at Airâ€“Water Interface. Japanese Journal of Applied Physics, 2011, 50, 051601.	0.8	1
68	Effects of Gold Nanoparticles on Pentacene Organic Field-Effect Transistors. Japanese Journal of Applied Physics, 2011, 50, 041601.	0.8	2
69	Analyzing carrier lifetime of double-layer organic solar cells by using optical electric-field-induced second-harmonic generation measurement. Applied Physics Letters, 2011, 98, .	1.5	44
70	Carrier Propagation Dependence on Applied Potentials in Pentacene Organic Field Effect Transistors Investigated by Impedance Spectroscopy and Electrical Time-of-Flight Techniques. Japanese Journal of Applied Physics, 2011, 50, 04DK01.	0.8	0
71	Study of relaxation process of dipalmitoyl phosphatidylcholine monolayers at airâ€“water interface: Effect of electrostatic energy. Journal of Chemical Physics, 2011, 134, 154709.	1.2	11
72	Effects of Gold Nanoparticles on Pentacene Organic Field-Effect Transistors. Japanese Journal of Applied Physics, 2011, 50, 041601.	0.8	2

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73	Carrier Propagation Dependence on Applied Potentials in Pentacene Organic Field Effect Transistors Investigated by Impedance Spectroscopy and Electrical Time-of-Flight Techniques. Japanese Journal of Applied Physics, 2011, 50, 04DK01.	0.8	2
74	Grain Boundary Effect on Charge Transport in Pentacene Thin Films. Japanese Journal of Applied Physics, 2011, 50, 04DK03.	0.8	7
75	Function of Interfacial Dipole Monolayer in Organic Field Effect Transistors. Japanese Journal of Applied Physics, 2011, 50, 04DK10.	0.8	2
76	Observation of Continuous and Quantized Domain Size and Shape Evolution in Monolayers at Airâ€“Water Interface. Japanese Journal of Applied Physics, 2011, 50, 051601.	0.8	2
77	Effect of Traps on Carrier Injection and Transport in Organic Fieldâ€effect Transistor. IEEJ Transactions on Electrical and Electronic Engineering, 2010, 5, 391-394.	0.8	2
78	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
79	Influence of traps on transient electric field and mobility evaluation in organic field-effect transistors. Journal of Applied Physics, 2010, 107, 043712.	1.1	31
80	The Charge Transport in Organic Field-Effect Transistor as an Interface Charge Propagation: The Maxwellâ€“Wagner Effect Model and Transmission Line Approximation. Japanese Journal of Applied Physics, 2010, 49, 071603.	0.8	46
81	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
82	Organic Electronics: Relaxation Time Controlled Devices. Japanese Journal of Applied Physics, 2010, 49, 04DK15.	0.8	6
83	Study of Organic Field-Effect Transistors Using Charge Modulation Spectroscopy: Behavior of Injected Carriers. Japanese Journal of Applied Physics, 2010, 49, 04DK07.	0.8	2
84	Effect of Trap Density on Carrier Propagation in Organic Field-Effect Transistors Investigated by Impedance Spectroscopy. Japanese Journal of Applied Physics, 2010, 49, 01AE14.	0.8	1
85	Reduction of Hysteresis in Organic Field-Effect Transistor by Ferroelectric Gate Dielectric. Japanese Journal of Applied Physics, 2010, 49, 021601.	0.8	13
86	Electron Injection into Pentacene Field-Effect Transistor Observed by Time-Resolved Optical Second Harmonic Generation Imaging. Japanese Journal of Applied Physics, 2010, 49, 04DK05.	0.8	6
87	Analysis of Carrier Transients in Double-Layer Organic Light Emitting Diodes by Electric-Field-Induced Second-Harmonic Generation Measurement. Journal of Physical Chemistry C, 2010, 114, 15136-15140.	1.5	46
88	Analysis of Organic Light-Emitting Diode As a Maxwellâ€'Wagner Effect Element by Time-Resolved Optical Second Harmonic Generation Measurement. Journal of Physical Chemistry Letters, 2010, 1, 803-807.	2.1	55
89	Modeling of threshold voltage in pentacene organic field-effect transistors. Journal of Applied Physics, 2010, 107, .	1.1	48
90	Tuning of Threshold Voltage in Organic Field-Effect Transistor by Dipole Monolayer. Japanese Journal of Applied Physics, 2010, 49, 04DK04.	0.8	13

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91	Dipolar electrostatic energy effect on relaxation process of monolayers at air-water interface: Analysis of thermodynamics and kinetics. Journal of Chemical Physics, 2009, 131, 244709.	1.2	6
92	Displacement current analysis of carrier behavior in pentacene field effect transistor with poly(vinylidene fluoride and tetrafluoroethylene) gate insulator. Journal of Applied Physics, 2009, 106, 024505.	1.1	16
93	Effect of Space-Charge Field on Injection Properties in Organic Sandwiched Structures. Japanese Journal of Applied Physics, 2009, 48, 04C173.	0.8	0
94	Effect of external electrostatic charge on condensed phase domains at the air-water interface: Experiment and shape equation analysis. Journal of Chemical Physics, 2009, 130, 104706.	1.2	12
95	Study of phase transition of two-dimensional ferroelectric copolymer P(VDF-TrFE) Langmuir monolayer by Maxwell displacement current and Brewster angle microscopy. Journal of Chemical Physics, 2009, 131, .	1.2	18
96	A comparative study of hydrogenâ€•and hydroxylâ€•related pentacene defect formation in thin films prepared by Langmuirâ€“Blodgett technique and thermal evaporation. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1404-1409.	0.8	4
97	A combined Xâ€•ray, ellipsometry and atomic force microscopy study on thin paryleneâ€C films. Physica Status Solidi (A) Applications and Materials Science, 2009, 206, 1727-1730.	0.8	10
98	Carrier injection and transport in organic field-effect transistor investigated by impedance spectroscopy. Thin Solid Films, 2009, 518, 448-451.	0.8	19
99	Transient charge accumulation in pentacene field effect transistor with silver electrode. Thin Solid Films, 2009, 518, 485-488.	0.8	2
100	Thermionic emission model for contact resistance in organic field-effect transistor. Thin Solid Films, 2009, 518, 795-798.	0.8	24
101	Effect of orientational order of tris(8-hydroxyquinolinato)aluminum(III) on electroabsorption. Thin Solid Films, 2009, 518, 754-757.	0.8	2
102	Preparation and properties of thin parylene layers as the gate dielectrics for organic field effect transistors. Microelectronics Journal, 2009, 40, 595-597.	1.1	77
103	Probing of channel region in pentacene field effect transistors by optical second harmonic generation. Chemical Physics Letters, 2009, 477, 221-224.	1.2	17
104	Probing of carrier behavior in organic electroluminescent diode using electric field induced optical second-harmonic generation measurement. Applied Physics Letters, 2009, 95, .	1.5	66
105	Spontaneous Orientational Ordering of Liquid Crystal Layer During Evaporation onto Silica. Molecular Crystals and Liquid Crystals, 2009, 512, 100/[1946]-108/[1954].	0.4	0
106	Structural and electronic properties of pentacene/pentacenequinone thin films prepared by Langmuirâ€“Blodgett technique. Collection of Czechoslovak Chemical Communications, 2009, 74, 565-579.	1.0	0
107	Origin of electric field distribution in organic field-effect transistor: Experiment and analysis. Journal of Applied Physics, 2009, 105, .	1.1	59
108	Studying Transient Carrier Behaviors in Pentacene Field Effect Transistors Using Visualized Electric Field Migration. Journal of Physical Chemistry C, 2009, 113, 10279-10284.	1.5	36

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109	Analysis of Transient Currents in Organic Field Effect Transistor: The Time-of-Flight Method. Journal of Physical Chemistry C, 2009, 113, 18459-18461.	1.5	45
110	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
111	Analysis of mechanically induced processes in the Langmuir film. Applied Surface Science, 2008, 254, 3093-3099.	3.1	2
112	Study of electrostatic energy contribution on monolayer domains size. Thin Solid Films, 2008, 517, 1317-1320.	0.8	2
113	Influence of vitamin C on alcohol binding to phospholipid monolayers. European Biophysics Journal, 2008, 37, 893-901.	1.2	5
114	Orientation Ordering of Nanoparticle Ag/Co Cores Controlled by Electric and Magnetic Fields. ChemPhysChem, 2008, 9, 1036-1039.	1.0	7
115	Observation of channel formation carriers in pentacene field-effect transistor by electric field induced optical second harmonic generation. Thin Solid Films, 2008, 517, 1321-1323.	0.8	1
116	Orientational ordering of 4-pentyl-4â€²-cyanobiphenyl molecules evaporated on multi-layered polyimide film. Thin Solid Films, 2008, 517, 1407-1410.	0.8	1
117	Mixed 2D molecular systems: Mechanic, thermodynamic and dielectric properties. Applied Surface Science, 2008, 254, 6370-6375.	3.1	5
118	Effect of charged deep states in hydrogenated amorphous silicon on the behavior of iron oxides nanoparticles deposited on its surface. Applied Surface Science, 2008, 254, 7008-7013.	3.1	5
119	Defect states in pentacene thin films prepared by thermal evaporation and Langmuirâ€“Blodgett technique. Journal of Non-Crystalline Solids, 2008, 354, 2888-2891.	1.5	7
120	Trapping centers engineering by including of nanoparticles into organic semiconductors. , 2008, , .		1
121	Trapping centers engineering by including of nanoparticles into organic semiconductors. Journal of Applied Physics, 2008, 104, 114502.	1.1	10
122	Diffusionlike electric-field migration in the channel of organic field-effect transistors. Physical Review B, 2008, 78, .	1.1	63
123	Injected carrier distribution in a pentacene field effect transistor probed using optical second harmonic generation. Journal of Applied Physics, 2008, 104, .	1.1	22
124	Control of Single-Electron Charging of Metallic Nanoparticles onto Amorphous Silicon Surface. Journal of Nanoscience and Nanotechnology, 2008, 8, 5684-5689.	0.9	9
125	Electrostatic Maxwell stress model of the shapes of condensed phase domains in monolayers at the air-water interface. Journal of Chemical Physics, 2008, 128, 204706.	1.2	11
126	Analysis of Human Spleen Contamination. Materials Research Society Symposia Proceedings, 2007, 1063, 1.	0.1	1

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127	Study of the Calix[4]resorcinareneâ˜Dopamine Interactions in Monolayers by Measurement of Pressureâ˜Area Isotherms and Maxwell Displacement Currents. Journal of Physical Chemistry B, 2007, 111, 10626-10631.	1.2	11
128	Analysis of Human Spleen Contamination. Nature Precedings, 2007, , .	0.1	0
129	Quantized Double-Layer Charging of Iron Oxide Nanoparticles on a-Si:H Controlled by Charged Defects in a-Si:H. Electroanalysis, 2007, 19, 1323-1326.	1.5	4
130	Maxwell displacement current allows to study structural changes of gramicidin A in monolayers at the airâ€“water interface. Bioelectrochemistry, 2007, 70, 469-480.	2.4	3
131	Ion selectivity of a poly(3-pentylmethoxythiophene) LB-layer modified carbon-fiber microelectrode as a consequence of the second order filtering in voltcoulometry. Journal of Proteomics, 2007, 70, 385-390.	2.4	6
132	Influence of alcohol on mechanical and electrical properties of thin organic films. Open Physics, 2007, 5, .	0.8	0
133	Study of Gramicidin Aâ˜Phospholipid Interactions in Langmuir Monolayers:Â Analysis of Their Mechanical, Thermodynamical, and Electrical Properties. Journal of Physical Chemistry B, 2006, 110, 26272-26278.	1.2	7
134	Kinetics of slow collapse process: Thermodynamic description of rate constants. Applied Surface Science, 2006, 253, 1469-1472.	3.1	8
135	Ethanol and methanol induced changes in phospholipid monolayer. Applied Surface Science, 2006, 253, 2425-2431.	3.1	10
136	Study of relaxation processes in monomolecular films by the step compression experiment. Open Physics, 2005, 3, .	0.8	1
137	Study of molecular orientational order in the Lagmuir monolayer. Applied Surface Science, 2004, 229, 183-189.	3.1	10
138	Mobility Measurement Based on Visualized Electric Field Migration in Organic Field-Effect Transistors. Applied Physics Express, 0, 2, 061501.	1.1	9