

# Masakazu Nakamura

## List of Publications by Year in descending order

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128  
papers

2,669  
citations

218677

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223800

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129  
all docs

129  
docs citations

129  
times ranked

3169  
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in the macroscopic orientation of semiconducting polymers by floating film transfer method. Japanese Journal of Applied Physics, 2022, 61, SB0801.	1.5	11
2	Carbon Nanotube/Biomolecule Composite Yarn for Wearable Thermoelectric Applications. ACS Applied Energy Materials, 2022, 5, 3698-3705.	5.1	10
3	Nanoscale Observation of the Influence of Solvent Additives on All-Polymer Blend Solar Cells by Photoconductive Atomic Force Microscopy. ACS Applied Polymer Materials, 2022, 4, 169-178.	4.4	5
4	Perfectness of the main-chain alignment in the conjugated polymer films prepared by the floating film transfer method. Applied Physics Letters, 2022, 120, .	3.3	8
5	Round Robin Study on the Thermal Conductivity/Diffusivity of a Gold Wire with a Diameter of 30 $\mu\text{m}$ Tested via Five Measurement Methods. Journal of Thermal Science, 2022, 31, 1037-1051.	1.9	9
6	Bias effect on surface chemical states of $\text{CH}_3\text{NH}_3\text{PbBr}_3$ hybrid perovskite single crystal: Decreasing $\text{CH}_3\text{NH}_2$ molecular defect. Applied Surface Science, 2021, 542, 148536.	6.1	3
7	Electron Transport in Thin Films of Polymer and Small-Molecule Acceptors Visualized by Conductive Atomic Force Microscopy. Journal of Physical Chemistry C, 2021, 125, 13741-13748.	3.1	3
8	Band-Gap-Engineered Transparent Perovskite Solar Modules to Combine Photovoltaics with Photosynthesis. ACS Applied Materials & Interfaces, 2021, 13, 39230-39238.	8.0	8
9	Extreme Orientational Uniformity in Large-Area Floating Films of Semiconducting Polymers for Their Application in Flexible Electronics. ACS Applied Materials & Interfaces, 2021, 13, 38534-38543.	8.0	18
10	Assisted alignment of conjugated polymers in floating film transfer method using polymer blend. Thin Solid Films, 2021, 734, 138814.	1.8	6
11	Terahertz Wave Absorption Property of all Mixed Organic-Inorganic Hybrid Perovskite Thin Film $\text{MA}(\text{Sn}, \text{Pb})(\text{Br}, \text{I})_3$ Fabricated by Sequential Vacuum Evaporation Method. Frontiers in Chemistry, 2021, 9, 753141.	3.6	3
12	Gas phase doping of pre-fabricated CNT yarns for enhanced thermoelectric properties. Synthetic Metals, 2021, 280, 116874.	3.9	6
13	Novel Materials and Device Design for Wearable Energy Harvesters. , 2021, , 41-57.		0
14	Correlation of THz-wave absorption properties by different halogen elements in $\text{FAPb}(\text{Br}, \text{I})$ -based hybrid perovskite thin films. Applied Physics Express, 2021, 14, 121002.	2.4	2
15	Unusual terahertz-wave absorptions in $\text{FAPbI}_3$ -mixed-phase $\text{FAPbBr}_3$ single crystals: interfacial phonon vibration modes. NPG Asia Materials, 2021, 13, .	7.9	10
16	Enhancement of Short-Range Ordering of Low-Bandgap Donor-Acceptor Conjugated Polymer in Polymer/Polymer Blend Films. Macromolecules, 2020, 53, 6630-6639.	4.8	7
17	Unique phonon modes of a $\text{CH}_3\text{NH}_3\text{PbBr}_3$ hybrid perovskite film without the influence of defect structures: an attempt toward a novel THz-based application. NPG Asia Materials, 2020, 12, .	7.9	20
18	Combining Photosynthesis and Photovoltaics: A Hybrid Energy-Harvesting System Using Optical Antennas. ACS Applied Materials & Interfaces, 2020, 12, 40261-40268.	8.0	8

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19	Solvent-Assisted Friction Transfer Method for Fabricating Large-Area Thin Films of Semiconducting Polymers with Edge-On Oriented Extended Backbones. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 55033-55043.	8.0	5
20	Fabrication of ribbon-like films of orientation-controlled carbon nanotube/polymer composite using a robotic dispenser. <i>Applied Physics Express</i> , 2020, 13, 065503.	2.4	3
21	Surface Degradation Mechanism on CH <sub>3</sub> NH <sub>3</sub> PbBr <sub>3</sub> Hybrid Perovskite Single Crystal by a Grazing E-Beam Irradiation. <i>Nanomaterials</i> , 2020, 10, 1253.	4.1	12
22	Investigation and Control of Charge Transport Anisotropy in Highly Oriented Friction-Transferred Polythiophene Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 11876-11883.	8.0	25
23	Strong Linear Correlation between CH <sub>3</sub> NH <sub>2</sub> Molecular Defect and THz-Wave Absorption in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Hybrid Perovskite Thin Film. <i>Nanomaterials</i> , 2020, 10, 721.	4.1	9
24	Investigation of Organic-Based Thermoelectric Materials for Flexible Thermoelectric Generators. <i>Vacuum and Surface Science</i> , 2020, 63, 239-244.	0.1	0
25	Clean interface without any intermixed state between ultra-thin P3 polymer and CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> hybrid perovskite thin film. <i>Scientific Reports</i> , 2019, 9, 10853.	3.3	4
26	Light-driven molecular switch for reconfigurable spin filters. <i>Nature Communications</i> , 2019, 10, 2455.	12.8	109
27	An origin of the irreproducibility of hole injection barrier from Au top-contact electrodes and its influence on device performance in top-contact organic field-effect transistors. <i>Organic Electronics</i> , 2019, 69, 92-97.	2.6	0
28	Significant THz-wave absorption property in mixed $\text{CH}_3\text{NH}_2$ - and $\text{CH}_3\text{NH}_3^+$ -FAPbI <sub>3</sub> hybrid perovskite flexible thin film formed by sequential vacuum evaporation. <i>Applied Physics Express</i> , 2019, 12, 051003.	2.4	17
29	Significant THz absorption in CH <sub>3</sub> NH <sub>2</sub> molecular defect-incorporated organic-inorganic hybrid perovskite thin film. <i>Scientific Reports</i> , 2019, 9, 5811.	3.3	26
30	Formation of CH <sub>3</sub> NH <sub>2</sub> -incorporated intermediate state in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> hybrid perovskite thin film formed by sequential vacuum evaporation. <i>Applied Physics Express</i> , 2019, 12, 015501.	2.4	13
31	Thermoelectric and Thermal Transport Properties in Sumanene Crystals. <i>Chemistry Letters</i> , 2018, 47, 524-527.	1.3	10
32	Surface Instability of Sn-Based Hybrid Perovskite Thin Film, CH <sub>3</sub> NH <sub>3</sub> SnI <sub>3</sub> : The Origin of Its Material Instability. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2293-2297.	4.6	45
33	Universality of the giant Seebeck effect in organic small molecules. <i>Materials Chemistry Frontiers</i> , 2018, 2, 1276-1283.	5.9	31
34	Diffusion and influence on photovoltaic characteristics of p-type dopants in organic photovoltaics for energy harvesting from blue-light. <i>Organic Electronics</i> , 2018, 52, 17-21.	2.6	10
35	Comprehensive Understanding and Controlling the Defect Structures: An Effective Approach for Organic-Inorganic Hybrid Perovskite-Based Solar-Cell Application. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	35
36	From materials to device design of a thermoelectric fabric for wearable energy harvesters. <i>Journal of Materials Chemistry A</i> , 2017, 5, 12068-12072.	10.3	120

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37	Simple Salt-Coordinated n-Type Nanocarbon Materials Stable in Air. <i>Advanced Functional Materials</i> , 2016, 26, 3021-3028.	14.9	232
38	Characterization of ohmic contacts in polymer organic field-effect transistors. <i>Organic Electronics</i> , 2016, 37, 491-497.	2.6	9
39	Carbon Nanotubes: Simple Salt-Coordinated n-Type Nanocarbon Materials Stable in Air ( <i>Adv. Funct.</i> ) Tj ETQq1 1 0.784314 rgBT /Over 14.9	14.9	232
40	Origin of mobility enhancement by chemical treatment of gate-dielectric surface in organic thin-film transistors: Quantitative analyses of various limiting factors in pentacene thin films. <i>Journal of Applied Physics</i> , 2015, 118, .	2.5	10
41	Potential Fluctuation of the Carrier Transporting Levels in Organic Field-Effect Transistors and Its Application to Terahertz-Wave Sensors. <i>Journal of the Vacuum Society of Japan</i> , 2015, 58, 97-103.	0.3	0
42	Giant Seebeck effect in pure fullerene thin films. <i>Applied Physics Express</i> , 2015, 8, 121301.	2.4	25
43	Mobility Limiting Factors in Practical Polycrystalline Organic Thin Films. <i>Springer Series in Materials Science</i> , 2015, , 185-225.	0.6	0
44	Recent Advances in Molecular Electronics and Bioelectronics. <i>Japanese Journal of Applied Physics</i> , 2014, 53, 01A001.	1.5	0
45	Structural ordering versus energy band alignment: Effects of self-assembled monolayers on the metal/semiconductor interfaces of small molecule organic thin-film transistors. <i>Organic Electronics</i> , 2014, 15, 3723-3728.	2.6	15
46	Enhancement of thermoelectric properties of carbon nanotube composites by inserting biomolecules at nanotube junctions. <i>Applied Physics Express</i> , 2014, 7, 065102.	2.4	32
47	Scaling limits of organic digital circuits. <i>Organic Electronics</i> , 2014, 15, 461-469.	2.6	25
48	Carrier Mobility in Organic Thin-film Transistors: Limiting Factors and Countermeasures. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2014, 27, 307-316.	0.3	11
49	THz-wave absorption by field-induced carriers in pentacene thin-film transistors for THz imaging sensors. <i>Organic Electronics</i> , 2013, 14, 1157-1162.	2.6	9
50	In-situ observation of electric-field-induced acceleration in crystal growth of tetrathiafulvalene-tetracyanoquinodimethane. <i>Journal of Applied Physics</i> , 2013, 113, 153513.	2.5	3
51	Flexible organic field-effect transistor fabricated by thermal press process. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1353-1357.	1.8	17
52	Designing organic and inorganic ambipolar thin-film transistors and inverters: Theory and experiment. <i>Organic Electronics</i> , 2012, 13, 2816-2824.	2.6	35
53	Gate-Induced Thermally Stimulated Current on the Ferroelectric-like Dielectric Properties of (BEDT-TTF)(TCNQ) Crystalline Field Effect Transistor. <i>Crystals</i> , 2012, 2, 730-740.	2.2	2
54	Fabrication of organic conductive wires and molecular break junction. <i>Journal of Physics: Conference Series</i> , 2012, 358, 012011.	0.4	3

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55	Orientational control of pentacene crystals on SiO <sub>2</sub> by graphoepitaxy to improve lateral carrier transport. <i>Organic Electronics</i> , 2012, 13, 864-869.	2.6	9
56	Direct measurement of density of states in pentacene thin film transistors. <i>Physical Review B</i> , 2011, 84, .	3.2	42
57	Visible effects of static electric field on physical vapor growth of lead phthalocyanine crystals. <i>Journal of Applied Physics</i> , 2011, 109, 054309.	2.5	10
58	CMOS Circuits Based on a Stacked Structure Using Silicone-Resin as Dielectric Layers. <i>IEICE Transactions on Electronics</i> , 2011, E94-C, 136-140.	0.6	3
59	Organic Complementary Inverters Based on Step-Edge Vertical Channel Organic Field-Effect Transistors. <i>Applied Physics Express</i> , 2011, 4, 054203.	2.4	4
60	Crystal order in pentacene thin films grown on SiO <sub>2</sub> and its influence on electronic band structure. <i>Organic Electronics</i> , 2011, 12, 195-201.	2.6	37
61	Local charge accumulation and trapping in grain boundaries of pentacene thin film transistors. <i>Organic Electronics</i> , 2010, 11, 1729-1735.	2.6	35
62	Anisotropy of electrical conductivity in a pentacene crystal grain on SiO <sub>2</sub> evaluated by atomic-force-microscope potentiometry and electrostatic simulation. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	2
63	Ferroelectriclike dielectric response and metal-insulator transition in organic Mott insulator-gate insulator interface. <i>Journal of Applied Physics</i> , 2010, 107, .	2.5	10
64	High-Speed Operation of Step-Edge Vertical-Channel Organic Transistors with Pentacene and 6,13-Bis(triisopropyl-silylethynyl) Pentacene. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 04DK03.	1.5	14
65	Evaluation of Thermopower of Organic Materials Toward Flexible Thermoelectric Power Generators. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1197, 72.	0.1	10
66	Fabrication of Active Light-Emitting Device Combined with ZnO Transistors. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 04C167.	1.5	3
67	Extrinsic limiting factors of carrier transport in organic field-effect transistors. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 73-80.	2.3	28
68	Vertical electrical conduction in pentacene polycrystalline thin films mediated by Au-induced gap states at grain boundaries. <i>Applied Physics A: Materials Science and Processing</i> , 2009, 95, 225-232.	2.3	25
69	Effect of gate insulating layer on organic static induction transistor characteristics. <i>Thin Solid Films</i> , 2009, 518, 514-517.	1.8	5
70	Thickness dependence of mobility of pentacene planar bottom-contact organic thin-film transistors. <i>Thin Solid Films</i> , 2008, 516, 2776-2778.	1.8	16
71	Factors influencing local potential drop in bottom-contact organic thin-film transistor using solution-processible tetrabenzoporphyrin. <i>Organic Electronics</i> , 2008, 9, 439-444.	2.6	14
72	Analysis of barrier height at crystalline domain boundary and in-domain mobility in pentacene polycrystalline films on SiO <sub>2</sub> . <i>Applied Physics Letters</i> , 2008, 92, .	3.3	84

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73	Characterization of Organic Static Induction Transistors with Nano-Gap Gate Fabricated by Electron Beam Lithography. IEICE Transactions on Electronics, 2008, E91-C, 1852-1855.	0.6	2
74	Enhanced performance of solution-processed regioregular poly(3-hexylthiophene) thin-film transistors using planar bottom-contact architecture. Applied Physics Letters, 2007, 90, 223512.	3.3	13
75	Organic nanochannel field-effect transistor with organic conductive wires. Applied Physics Letters, 2007, 90, 062101.	3.3	19
76	Conductivity fluctuation within a crystalline domain and its origin in pentacene thin-film transistors. Applied Physics Letters, 2007, 91, .	3.3	41
77	Ambipolar field-effect transistor characteristics of (BEDT-TTF)(TCNQ) crystals and metal-like conduction induced by a gate electric field. Physical Review B, 2007, 76, .	3.2	70
78	Electrostatic Force Microscopy. Nanoscience and Technology, 2007, , 43-51.	1.5	10
79	High-Performance, Vertical-Type Organic Transistors with Built-In Nanotriode Arrays. Advanced Materials, 2007, 19, 525-530.	21.0	71
80	High-Performance Bottom-Contact Organic Thin-Film Transistors with Controlled Molecule-Crystal/Electrode Interface. Advanced Materials, 2007, 19, 371-375.	21.0	65
81	Origin of the highest occupied band position in pentacene films from ultraviolet photoelectron spectroscopy: Hole stabilization versus band dispersion. Physical Review B, 2006, 73, .	3.2	184
82	Device preparation and characterization of drain current transients in static induction micro transistors. Microelectronics Journal, 2006, 37, 884-887.	2.0	1
83	Fabrication and Device Simulation of Single Nano-Scale Organic Static Induction Transistors. IEICE Transactions on Electronics, 2006, E89-C, 1765-1770.	0.6	5
84	Fabrication of organic static induction transistors with higher order structures. Applied Surface Science, 2005, 244, 603-606.	6.1	6
85	Organic Static Induction Transistors with Nano-Hole Arrays Fabricated by Colloidal Lithography. E-Journal of Surface Science and Nanotechnology, 2005, 3, 327-331.	0.4	19
86	Poly(3-hexylthiophene) Field-Effect Transistor with Controllable Threshold Voltage. Japanese Journal of Applied Physics, 2005, 44, 621-625.	1.5	5
87	Self-organized growth of tetrathiafulvalene-tetracyanoquinodimethane molecular wires using the coevaporation method under a static electric field. Journal of Applied Physics, 2005, 97, 053509.	2.5	22
88	Vertical type organic light emitting device using thin-film ZnO electrode. Synthetic Metals, 2005, 154, 149-152.	3.9	14
89	Organic nano-transistor fabricated by co-evaporation method under alternating electric field. Synthetic Metals, 2005, 153, 293-296.	3.9	23
90	Potential mapping of pentacene thin-film transistors using purely electric atomic-force-microscope potentiometry. Applied Physics Letters, 2005, 86, 122112.	3.3	71

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91	Thin Film Transistors with Oriented Copper Phthalocyanine Crystals Fabricated by Physical Vapor Deposition under DC Electric Field. Japanese Journal of Applied Physics, 2004, 43, 2362-2365.	1.5	17
92	Fabrication and characterization of alternately multilayered films consisting of organic ultrathin layer using self-assembly and spin-coating method. Electronics and Communications in Japan, 2004, 87, 18-25.	0.2	5
93	Vertical- and lateral-type organic FET using pentacene evaporated films. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2004, 149, 43-48.	0.4	10
94	Structural and electrical characterization of pentacene films on SiO <sub>2</sub> grown by molecular beam deposition. Thin Solid Films, 2004, 464-465, 398-402.	1.8	85
95	Organic Nano-transistors Wired by Oriented Charge Transfer Complex Crystal. IEEJ Transactions on Electronics, Information and Systems, 2004, 124, 1224-1228.	0.2	0
96	Fabrication and characterization of ultra-thin film transistor using TMPD-CnTCNQ LB films. Thin Solid Films, 2003, 438-439, 326-329.	1.8	7
97	Fabrication and device characterization of organic light emitting transistors. Thin Solid Films, 2003, 438-439, 330-333.	1.8	49
98	Characterization of organic nano-transistors using a conductive AFM probe. Thin Solid Films, 2003, 438-439, 360-364.	1.8	12
99	Development of AFM potentiometry for potential mapping of organic conductors. Synthetic Metals, 2003, 137, 887-888.	3.9	20
100	Ultrathin Multilayered Films Using CuPcSAS and Polyaniline. Synthetic Metals, 2003, 137, 889-890.	3.9	0
101	Thermally stimulated current of pentacene Schottky diode. Synthetic Metals, 2003, 137, 895-896.	3.9	13
102	Fabrication and Electrical Characterization of Tetrathiafulvalene-tetracyanoquinodimethane Molecular Wires. Japanese Journal of Applied Physics, 2003, 42, 2488-2491.	1.5	25
103	Fabrication of Ultra-Thin Film Transistor Using Charge-Transfer-Complex LB Films. IEEJ Transactions on Electronics, Information and Systems, 2003, 123, 1027-1028.	0.2	0
104	"Self-Assembled" Organic Nano-Transistors.. Hyomen Kagaku, 2003, 24, 77-82.	0.0	0
105	Vertical and Lateral-Type Organic FET Using Pentacene Evaporated Films. IEEJ Transactions on Electronics, Information and Systems, 2003, 123, 853-857.	0.2	0
106	Control of FET Characteristics by Electric Field During Charge Transfer Complex Deposition. Japanese Journal of Applied Physics, 2002, 41, 2720-2723.	1.5	7
107	Evaluation of SiO <sub>2</sub> Films and SiO <sub>2</sub> /Si Interfaces by Graded Etching. Japanese Journal of Applied Physics, 2002, 41, 805-809.	1.5	5
108	Fabrication of Field-Effect Transistor Using Charge-Transfer-Complex Langmuir-Blodgett Films. Japanese Journal of Applied Physics, 2002, 41, 2727-2729.	1.5	8

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109	Influence of Substrate on In-Plane Electrical Conduction of CuPc Nano-Crystals. Materials Research Society Symposia Proceedings, 2002, 738, 8111.	0.1	1
110	Influence of Substrate on In-Plane Electrical Conduction of CuPc Nano-Crystals. Materials Research Society Symposia Proceedings, 2002, 761, 1.	0.1	0
111	Control of in-plane orientation of phthalocyanine molecular columns using vicinal Si(001)-(2 $\times$ 1)-H. Journal of Applied Physics, 2001, 89, 7860-7865.	2.5	25
112	Optical properties of SrMoO <sub>3</sub> thin film. Journal of Applied Physics, 2000, 87, 4617-4619.	2.5	39
113	Molecular-scale structures of Langmuir-Blodgett films of fatty acids observed by atomic force microscopy (II) – cation dependence. Thin Solid Films, 1998, 331, 170-175.	1.8	13
114	Investigation of mesoscopic domains in thin organic films using near-field optical absorption mapping. Ultramicroscopy, 1998, 71, 281-285.	1.9	9
115	Molecular arrangement of copper phthalocyanine on Si(001)-(2 $\times$ 1)-H: a high-resolution frictional force microscopy and molecular mechanics study. Surface Science, 1998, 398, 143-153.	1.9	31
116	The Overlayer Structure on the Si(001)-(2 $\times$ 3)-Ag Surface Determined by X-ray Photoelectron Diffraction. Surface Review and Letters, 1998, 05, 953-958.	1.1	17
117	Scanning probe microscopy study of the molecular arrangement of CuPc crystal on Si(001)-(2 $\times$ 1)-H. Surface Science, 1997, 377-379, 85-89.	1.9	6
118	Existence of a stable intermixing phase for monolayer Ge on Si(001). Surface Science, 1997, 381, L533-L539.	1.9	39
119	Influence of film thickness on the molecular arrangement of copper phthalocyanine on hydrogen-terminated Si(111). Applied Surface Science, 1997, 113-114, 316-321.	6.1	15
120	Molecular arrangement of copper phthalocyanine on hydrogen-terminated Si(111): Influence of surface roughness. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1996, 14, 1109.	1.6	55
121	Epitaxial growth of $\sqrt{2}$ -copper phthalocyanine crystal on Si(001) substrate by organic molecular beam deposition. Thin Solid Films, 1995, 256, 262-267.	1.8	35
122	Fluorine Termination of Silicon Surface by F <sub>2</sub> and Succeeding Reaction with Water. Japanese Journal of Applied Physics, 1993, 32, 3125-3130.	1.5	12
123	Low-Temperature Growth of SiO <sub>2</sub> Thin Film by Photo-Induced Chemical Vapor Deposition Using Synchrotron Radiation. Japanese Journal of Applied Physics, 1992, 31, 1972-1978.	1.5	12
124	Infrared Characterization of Interface State Reduction by F <sub>2</sub> Treatment in SiO <sub>2</sub> /Si Structure using Photo-CVD SiO <sub>2</sub> Film. Japanese Journal of Applied Physics, 1990, 29, L687-L689.	1.5	12
125	Reduction of interface state density by F <sub>2</sub> treatment in a metal-oxide-semiconductor diode prepared from a photochemical vapor deposited SiO <sub>2</sub> film. Applied Physics Letters, 1989, 55, 2402-2404.	3.3	18
126	Optimization of the CuPc active layer thickness of static induction transistors. , 0, , .		1



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127	Spontaneous Activation Process for Self-aligned Organic Nanochannel Transistors. Applied Physics Express, 0, 1, 081802.	2.4	5
128	High-Speed Operation of Vertical Type Organic Transistors Utilizing Step-Edge Structures. Applied Physics Express, 0, 2, 071501.	2.4	29