

Ioannis Kymissis

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

163
papers

5,134
citations

38
h-index

68
g-index

198
ext. papers

5,888
ext. citations

5.8
avg. IF

5.54
L-index

#	Paper	IF	Citations
163	Origin of open-circuit voltage reduction in high-mobility perovskite solar cells. <i>Solar Energy</i> , 2022 , 236, 473-479	6.8	3
162	High carrier mobility in graphene doped using a monolayer of tungsten oxyselenide. <i>Nature Electronics</i> , 2021 , 4, 731-739	28.4	4
161	Enhanced microLED efficiency via strategic pGaN contact geometries. <i>Optics Express</i> , 2021 , 29, 14841-14852	4.5	2
160	51-3: Color Shifting in High Dynamic Range OLED Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2021 , 52, 706-709	0.5	0
159	Magnetic and dielectric property control in the multivalent nanoscale perovskite EuBaTiO. <i>Nanoscale</i> , 2021 , 13, 10365-10384	7.7	1
158	Early defect identification for micro light-emitting diode displays via photoluminescent and cathodoluminescent imaging. <i>Journal of the Society for Information Display</i> , 2021 , 29, 264-274	2.1	2
157	Flexible optical imaging band system for the assessment of arthritis in patients with systemic lupus erythematosus. <i>Biomedical Optics Express</i> , 2021 , 12, 1651-1665	3.5	
156	ESD Breakdown of Parylene OFETs With Varying Contact Overlap Capacitance. <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 4630-4636	2.9	0
155	Review of Gravimetric Sensing of Volatile Organic Compounds. <i>ACS Sensors</i> , 2020 , 5, 1514-1534	9.2	30
154	A Sensorized Multicurved Robot Finger With Data-Driven Touch Sensing via Overlapping Light Signals. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 2416-2427	5.5	18
153	Organic Thin-Film Transistors as Gas Sensors: A Review. <i>Materials</i> , 2020 , 14,	3.5	5
152	Polymer/Nanocrystal Nanocomposites: Device Concepts in Capacitors and Multiferroics. <i>IEEE Nanotechnology Magazine</i> , 2020 , 19, 255-268	2.6	6
151	. <i>IEEE Internet of Things Journal</i> , 2020 , 7, 9080-9090	10.7	2
150	37-4: Micro LED Defect Analysis via Photoluminescent and Cathodoluminescent Imaging. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 532-535	0.5	3
149	44-4: A Brief Survey of MicroLED Technologies. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 650-652	0.5	0
148	Improved Cyclohexanone Vapor Detection via Gravimetric Sensing. <i>Journal of Microelectromechanical Systems</i> , 2020 , 29, 1253-1263	2.5	
147	57-3: Characterizing Image Retention for HDR OLED Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2020 , 51, 850-853	0.5	2

146	A Reconfigurable Surface Acoustic Wave Filter on ZnO/AlGa _N /Ga _N Heterostructure. <i>IEEE Transactions on Electron Devices</i> , 2020 , 67, 4507-4514	2.9	5
145	Resistance to Unwanted Photo-Oxidation of Multi-Acene Molecules. <i>Journal of Organic Chemistry</i> , 2020 , 85, 12731-12739	4.2	4
144	Organic Thin Film Transistors in Mechanical Sensors. <i>Advanced Functional Materials</i> , 2020 , 30, 2004700	15.6	5
143	Formulation, printing, and poling method for piezoelectric films based on PVDF/rFe. <i>Journal of Applied Physics</i> , 2020 , 128, 225304	2.5	4
142	0.6V Threshold Voltage Thin Film Transistors With Solution Processable Indium Oxide (In ₂ O ₃) Channel and Anodized High- κ Al ₂ O ₃ Dielectric. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1112-1115	4.4	5
141	Apparent Piezo-Photocurrent Modulation in Methylammonium Lead Iodide Perovskite Photodetectors. <i>Advanced Electronic Materials</i> , 2019 , 5, 1900518	6.4	4
140	Solution-Processable Superatomic Thin-Films. <i>Journal of the American Chemical Society</i> , 2019 , 141, 10967-10971	11.0971	4
139	Flexible electronic bands for the dynamic optical spectroscopic assessment of systemic lupus erythematosus in finger joints 2019 ,		1
138	Near ultraviolet light emission in hexagonal boron nitride based van der Waals heterostructures 2019 ,		1
137	Display meets biology: A vision for ubiquitous healthcare platforms. <i>Journal of the Society for Information Display</i> , 2019 , 27, 181-191	2.1	2
136	Cross-linked polyvinyl phenol as dielectric for flexible bottom gate bottom contact transistors 2019 ,		1
135	A Tunable Surface Acoustic Wave Device on Zinc Oxide via acoustoelectric interaction with AlGa _N /Ga _N 2DEG 2019 ,		1
134	Nanocomposite Capacitors in Power Electronics and Multiferroics: Prospects for the Future of Nanopackaging and Beyond. <i>IEEE Nanotechnology Magazine</i> , 2019 , 13, 8-17	1.7	3
133	Localizing Seizure Activity in the Brain Using Implantable Micro-LEDs with Quantum Dot Downconversion. <i>Advanced Materials Technologies</i> , 2018 , 3, 1700366	6.8	7
132	Employing Pneumatic Nozzle Printing for Controlling the Crystal Growth of Small Molecule Organic Semiconductor for Field-Effect Transistors. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700534	6.4	12
131	PVDF-Based Piezoelectric Microphone for Sound Detection Inside the Cochlea: Toward Totally Implantable Cochlear Implants. <i>Trends in Hearing</i> , 2018 , 22, 2331216518774450	3.2	22
130	A Hybrid Electronic Nose and Tongue for the Detection of Ketones: Improved Sensor Orthogonality Using Graphene Oxide-Based Detectors. <i>IEEE Sensors Journal</i> , 2017 , 17, 1971-1980	4	21
129	Synthesis, characterization and printing application of alkylated indolo[3,2-b]carbazoles. <i>Synthetic Metals</i> , 2017 , 228, 9-17	3.6	12

128	Grapheneorganic hybrid electronics. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4598-4613	7.1	64
127	19-1: Invited Paper: Micro-LED Microdisplays by Integration of III-V LEDs with Silicon Thin Film Transistors. <i>Digest of Technical Papers SID International Symposium</i> , 2017 , 48, 246-248	0.5	7
126	Unexpected length dependence of excited-state charge transfer dynamics for surface-confined perylenediimide ensembles. <i>Materials Horizons</i> , 2017 , 4, 437-441	14.4	5
125	Color Fine-Tuning of Optical Materials Through Rational Design. <i>ChemPhysChem</i> , 2017 , 18, 549-563	3.2	11
124	Triple-Mode, Hybrid-Storage, Energy Harvesting Power Management Unit: Achieving High Efficiency Against Harvesting and Load Power Variabilities. <i>IEEE Journal of Solid-State Circuits</i> , 2017 , 52, 2550-2562	5.5	17
123	CMOS integrated ZnO thin film bulk acoustic resonator with Si3N4 susceptor layer for improved IR sensitivity 2017 ,		1
122	Monolithically Integrated CMOS-SMR Oscillator in 65 nm CMOS Using Custom MPW Die-Level Fabrication Process. <i>Journal of Microelectromechanical Systems</i> , 2017 , 26, 846-858	2.5	7
121	Single-crystal-to-single-crystal intercalation of a low-bandgap superatomic crystal. <i>Nature Chemistry</i> , 2017 , 9, 1170-1174	17.6	44
120	Accurate contact localization and indentation depth prediction with an optics-based tactile sensor 2017 ,		3
119	Permanent water swelling effect in low temperature thermally reduced graphene oxide. <i>Applied Physics Letters</i> , 2017 , 110, 252106	3.4	7
118	Characterization of ESD protection devices under total ionizing dose irradiation 2017 ,		5
117	Inexpensive, Versatile, and Robust USB-Driven Sensor Platform 2017 , 1, 1-4		4
116	Limits of Carrier Diffusion in n-Type and p-Type CH3NH3PbI3 Perovskite Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 3510-8	6.4	69
115	Radiation hardened graphene field effect transistors 2016 ,		3
114	An Intracochlear Pressure Sensor as a Microphone for a Fully Implantable Cochlear Implant. <i>Otology and Neurotology</i> , 2016 , 37, 1596-1600	2.6	10
113	A macroscopic model for vertical graphene-organic semiconductor heterojunction field-effect transistors. <i>Organic Electronics</i> , 2016 , 36, 45-49	3.5	10
112	Production and electrical characterization of the reflectin A2 isoform from <i>Doryteuthis (Loligo) pealeii</i> . <i>RSC Advances</i> , 2016 , 6, 57103-57107	3.7	12
111	. <i>IEEE Transactions on Power Electronics</i> , 2016 , 31, 2695-2708	7.2	12

110	Micro-LED Technologies and Applications. <i>Information Display</i> , 2016 , 32, 16-23	0.8	30
109	P-99: Pneumatic Nozzle Printing as a Versatile Approach to Crystal Growth Management and Patterning of Printed Organic Thin Film Transistors. <i>Digest of Technical Papers SID International Symposium</i> , 2016 , 47, 1502-1505	0.5	2
108	Improving the radiation hardness of graphene field effect transistors. <i>Applied Physics Letters</i> , 2016 , 109, 153108	3.4	15
107	Contact localization through spatially overlapping piezoresistive signals 2016 ,		6
106	Effect of vacuum thermal annealing to encapsulated graphene field effect transistors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2016 , 34, 041805	1.3	5
105	Length-Independent Charge Transport in Chimeric Molecular Wires. <i>Angewandte Chemie</i> , 2016 , 128, 14479-14483	3.6	1
104	The Effect of Thermal Reduction and Film Thickness on fast Response Transparent Graphene Oxide Humidity Sensors. <i>Procedia Engineering</i> , 2016 , 168, 301-304		10
103	Microscopy and microRaman study of periodically poled domains in deeply thinned lithium niobate wafers. <i>Optical Materials</i> , 2016 , 57, 243-248	3.3	6
102	Comparison of top- and bottom-contact pentacene field-effect transistors using photocurrent microscopy 2016 ,		1
101	Length-Independent Charge Transport in Chimeric Molecular Wires. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 14267-14271	16.4	13
100	Clean graphene electrodes on organic thin-film devices via orthogonal fluorinated chemistry. <i>Nano Letters</i> , 2015 , 15, 2555-61	11.5	12
99	Observation of Ground- and Excited-State Charge Transfer at the C60/Graphene Interface. <i>ACS Nano</i> , 2015 , 9, 7175-85	16.7	60
98	Encapsulated graphene field-effect transistors for air stable operation. <i>Applied Physics Letters</i> , 2015 , 106, 113104	3.4	28
97	Photocurrent measurements of pentacene-based devices. <i>Applied Physics Reviews</i> , 2015 , 2, 031101	17.3	10
96	Sequential Lateral Solidification of Silicon Thin Films on Cu BEOL-Integrated Wafers for Monolithic 3-D Integration. <i>IEEE Transactions on Electron Devices</i> , 2015 , 62, 3887-3891	2.9	5
95	Decoupling the Effects of Self-Assembled Monolayers on Gold, Silver, and Copper Organic Transistor Contacts. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400384	4.6	61
94	Low-voltage organic electronics based on a gate-tunable injection barrier in vertical graphene-organic semiconductor heterostructures. <i>Nano Letters</i> , 2015 , 15, 69-74	11.5	83
93	Co-development of complementary technology and modified-CPL family for organic digital integrated circuits. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1795, 19-25		

92	A High-Capacitance Salt-Free Dielectric for Self-Healable, Printable, and Flexible Organic Field Effect Transistors and Chemical Sensor. <i>Advanced Functional Materials</i> , 2015 , 25, 3745-3755	15.6	99
91	An ultra thin implantable system for cerebral blood volume monitoring using flexible OLED and OPD 2015 ,		3
90	Energy-Harvesting Active Networked Tags (EnHANTs). <i>ACM Transactions on Sensor Networks</i> , 2015 , 11, 1-27	2.9	30
89	Substituted triphenylamines as building blocks for star shaped organic electronic materials. <i>New Journal of Chemistry</i> , 2015 , 39, 1840-1851	3.6	13
88	Movers and Shakers: Kinetic Energy Harvesting for the Internet of Things. <i>IEEE Journal on Selected Areas in Communications</i> , 2015 , 33, 1624-1639	14.2	78
87	Difluorinated 6,13-Bis(triisopropylsilylethynyl)pentacene: Synthesis, Crystallinity, and Charge-Transport Properties. <i>ChemPhysChem</i> , 2015 , 16, 1251-7	3.2	11
86	Low-power organic electronics based on gate-tunable injection barrier in vertical graphene-organic semiconductor heterostructures 2014 ,		2
85	Printable ammonia sensor based on organic field effect transistor. <i>Organic Electronics</i> , 2014 , 15, 3221-3230	3.9	39
84	An integrated CMOS quantitative-polymerase-chain-reaction lab-on-chip for point-of-care diagnostics. <i>Lab on A Chip</i> , 2014 , 14, 4076-84	7.2	86
83	Nanostructured Electrodes Improve the Fill Factor of Organic Photovoltaics. <i>IEEE Journal of Photovoltaics</i> , 2014 , 4, 1100-1106	3.7	5
82	Sequential lateral solidification of silicon thin films on low-k dielectrics for low temperature integration. <i>Applied Physics Letters</i> , 2014 , 105, 242904	3.4	4
81	Helium-ion-induced radiation damage in LiNbO ₃ thin-film electro-optic modulators. <i>Optics Express</i> , 2014 , 22, 19653-61	3.3	12
80	Direct observation of both contact and remote oxygen scavenging of GeO ₂ in a metal-oxide-semiconductor stack. <i>Journal of Applied Physics</i> , 2014 , 116, 164101	2.5	8
79	Waveguide-integrated photonic crystal spectrometer with camera readout. <i>Applied Physics Letters</i> , 2014 , 105, 051103	3.4	11
78	General method for simultaneous optimization of light trapping and carrier collection in an ultra-thin film organic photovoltaic cell. <i>Journal of Applied Physics</i> , 2014 , 116, 023110	2.5	1
77	Strongly correlated alignment of fluorinated 5,11-bis(triethylgermylethynyl)anthradithiophene crystallites in solution-processed field-effect transistors. <i>ChemPhysChem</i> , 2014 , 15, 2913-6	3.2	16
76	Movers and shakers 2014 ,		39
75	Impedance spectroscopy on copper phthalocyanine diodes with surface-induced molecular orientation. <i>Organic Electronics</i> , 2014 , 15, 1724-1730	3.5	20

74	Movers and shakers. <i>Performance Evaluation Review</i> , 2014 , 42, 407-419	0.4	29
73	Prototyping energy harvesting active networked tags (EnHANTs) 2013 ,		20
72	Orientation of luminescent excitons in layered nanomaterials. <i>Nature Nanotechnology</i> , 2013 , 8, 271-6	28.7	195
71	A 4.4- μ W Wake-Up Receiver Using Ultrasound Data. <i>IEEE Journal of Solid-State Circuits</i> , 2013 , 48, 649-660	5.5	23
70	Donor-Acceptor Shape Matching Drives Performance in Photovoltaics. <i>Advanced Energy Materials</i> , 2013 , 3, 894-902	21.8	39
69	Bimorph actuator with monolithically integrated CMOS OFET control. <i>Organic Electronics</i> , 2013 , 14, 286-290	3.9	5
68	Templating and charge injection from copper electrodes into solution-processed organic field-effect transistors. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3716-21	9.5	28
67	Asymmetric leakage in (Ba, Sr)TiO ₃ nanoparticle/parylene-C composite capacitors. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013 , 51, 35-38	2.6	9
66	Inexpensive photonic crystal spectrometer for colorimetric sensing applications. <i>Optics Express</i> , 2013 , 21, 4411-23	3.3	9
65	Project-based learning within a large-scale interdisciplinary research effort 2013 ,		2
64	More than meets the eye - A portable measurement unit for characterizing light energy availability 2013 ,		4
63	Poly-(3)hexylthiophene nanowire networks for versatile fabrication of bulk heterojunctions with increased active volume. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013 , 31, 031209	1.3	4
62	Influence of electromigration on the maximum operating field of (Ba,Sr)TiO ₃ /parylene-C composite capacitors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013 , 31, 060603	1.3	2
61	Evaluating photovoltaic performance indoors 2012 ,		13
60	A tone analyzer based on a piezoelectric polymer and organic thin film transistors. <i>Journal of the Acoustical Society of America</i> , 2012 , 132, 3826-31	2.2	2
59	Electrochemical codeposition of poly(thieno[3,2-b]thiophene) and fullerene: An approach to a bulk heterojunction organic photovoltaic device. <i>Synthetic Metals</i> , 2012 , 162, 10-17	3.6	13
58	Effect of solubilizing agent on properties of poly(3,4-ethylenedioxythiophene) (PEDOT) electrodeposited from aqueous solution. <i>Electrochimica Acta</i> , 2012 , 78, 638-643	6.7	24
57	75.2L: Late-News Paper: A Passive-Matrix Inorganic LED Array as a Projection Source. <i>Digest of Technical Papers SID International Symposium</i> , 2012 , 43, 1013-1015	0.5	2

56	Integrated VOC vapor sensing on FBAR-CMOS array 2012 ,		11
55	Reticulated Organic Photovoltaics. <i>Advanced Functional Materials</i> , 2012 , 22, 1167-1173	15.6	12
54	A high-resolution spectrometer based on a compact planar two dimensional photonic crystal cavity array. <i>Applied Physics Letters</i> , 2012 , 100, 231104	3.4	48
53	Single-layer graphene cathodes for organic photovoltaics. <i>Applied Physics Letters</i> , 2011 , 98, 123303	3.4	53
52	A Laboratory-Based Course in Display Technology. <i>IEEE Transactions on Education</i> , 2011 , 54, 314-319	2.1	5
51	A Locally Amplified Strain Sensor Based on a Piezoelectric Polymer and Organic Field-Effect Transistors. <i>IEEE Transactions on Electron Devices</i> , 2011 , 58, 910-917	2.9	40
50	Gene expression analysis with an integrated CMOS microarray by time-resolved fluorescence detection. <i>Biosensors and Bioelectronics</i> , 2011 , 26, 2660-5	11.8	17
49	Morphological and Spectroscopic Studies of Electrochemically Deposited Poly(3,4-ethylenedioxythiophene) (PEDOT) Hole Extraction Layer for Organic Photovoltaic Device (OPVd) Fabrication. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 4307-4314	3.8	48
48	Electrochemically prepared polymer solar cell by three-layer deposition of poly(3,4-ethylenedioxythiophene)/poly(2,2'-bithiophene)/fullerene (PEDOT/PBT/C60). <i>Polymer</i> , 2011 , 52, 3627-3632	3.9	16
47	Organic solar cell-equipped energy harvesting active networked tag (EnHANT) prototypes 2011 ,		2
46	Laboratory pentacene and parylene evaporation systems for fabricating organic thin film devices. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 022401	1.3	4
45	Group IV Nanocrystals for Silicon Photovoltaics. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1305, 1		1
44	Energy harvesting active networked tags (EnHANTs) for ubiquitous object networking. <i>IEEE Wireless Communications</i> , 2010 , 17, 18-25	13.4	70
43	Correction to Btudy of Local Mobility in Pentacene Field-Effect Transistors Using Spatially Resolved Photocurrent Measurement [Jul 10 761-763]. <i>IEEE Electron Device Letters</i> , 2010 , 31, 1164-1164 ⁴	4.4	1
42	Doping and Illumination Dependence of $1/f$ Noise in Pentacene Thin-Film Transistors. <i>IEEE Electron Device Letters</i> , 2010 , 31, 1050-1052	4.4	9
41	In situ study of pentacene interaction with archetypal hybrid contacts: Fluorinated versus alkane thiols on gold. <i>Physical Review B</i> , 2010 , 82,	3.3	40
40	Photonic crystal spectrometer. <i>Optics Express</i> , 2010 , 18, 8277-85	3.3	36
39	Lab kits using the Arduino prototyping platform 2010 ,		44

38	FBAR-CMOS Oscillator Array for Mass-Sensing Applications. <i>IEEE Sensors Journal</i> , 2010 , 10, 1042-1047	4	51
37	Study of Local Mobility in Pentacene Field-Effect Transistors Using Spatially Resolved Photocurrent Measurement. <i>IEEE Electron Device Letters</i> , 2010 , 31, 761-763	4.4	9
36	An electrostrictive high dielectric constant fluorinated terpolymer sheet fabricated by a melt and stretch extrusion process. <i>Journal of Materials Science</i> , 2010 , 45, 6834-6836	4.3	4
35	LED-Based Optical Device for Chronic In Vivo Cerebral Blood Volume Measurement. <i>IEEE Transactions on Electron Devices</i> , 2010 , 57, 174-177	2.9	7
34	Laboratory Thin-Film Encapsulation of Air-Sensitive Organic Semiconductor Devices. <i>IEEE Transactions on Electron Devices</i> , 2010 , 57, 153-156	2.9	26
33	Photocurrent Study of Oxygen-Mediated Doping States in Pentacene Thin-Film Transistors. <i>IEEE Transactions on Electron Devices</i> , 2010 , 57, 380-384	2.9	12
32	Photovoltaic universal joints: ball-and-socket interfaces in molecular photovoltaic cells. <i>ChemPhysChem</i> , 2010 , 11, 799-803	3.2	65
31	Inside Cover: Photovoltaic Universal Joints: Ball-and-Socket Interfaces in Molecular Photovoltaic Cells (ChemPhysChem 4/2010). <i>ChemPhysChem</i> , 2010 , 11, 742-742	3.2	
30	High K Capacitors and OFET Gate Dielectrics from Self-Assembled BaTiO ₃ and (Ba,Sr)TiO ₃ Nanocrystals in the Superparaelectric Limit. <i>Advanced Functional Materials</i> , 2010 , 20, 554-560	15.6	91
29	Reticulated Heterojunctions for Photovoltaic Devices. <i>Angewandte Chemie</i> , 2010 , 122, 8081-8084	3.6	25
28	Reticulated heterojunctions for photovoltaic devices. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7909-12	16.4	75
27	Isolation of organic field-effect transistors by surface patterning with an UV/ozone process. <i>Journal of Vacuum Science & Technology B</i> , 2009 , 27, 1057		3
26	Performance of monolayer graphene nanomechanical resonators with electrical readout. <i>Nature Nanotechnology</i> , 2009 , 4, 861-7	28.7	694
25	Challenge 2009 ,		60
24	Solar Cells from a Solution Processable Pentacene with Improved Air Stability. <i>Chemistry of Materials</i> , 2009 , 21, 4090-4092	9.6	41
23	Organic Field Effect Transistors. <i>Integrated Circuits and Systems</i> , 2009 ,	0.2	67
22	NEMS applications of graphene 2009 ,		2
21	An Organic Active-Matrix Imager. <i>IEEE Transactions on Electron Devices</i> , 2008 , 55, 527-532	2.9	49

20	An Organic Imager for Flexible Large Area Electronics. <i>Digest of Technical Papers - IEEE International Solid-State Circuits Conference</i> , 2007 ,	4	5
19	Engineering density of semiconductor-dielectric interface states to modulate threshold voltage in OFETs. <i>IEEE Transactions on Electron Devices</i> , 2006 , 53, 9-13	2.9	54
18	Tunable threshold voltage and flatband voltage in pentacene field effect transistors. <i>Applied Physics Letters</i> , 2006 , 89, 112109	3.4	71
17	A lithographic process for integrated organic field-effect transistors. <i>Journal of Display Technology</i> , 2005 , 1, 289-294		24
16	Direct extraction of mobility in pentacene OFETs using C-V and I-V measurements. <i>IEEE Electron Device Letters</i> , 2005 , 26, 716-718	4.4	61
15	Organic field emission device integrated with organic transistor. <i>IEEE Transactions on Electron Devices</i> , 2005 , 52, 1907-1914	2.9	1
14	Memory effect from charge trapping in layered organic structures. <i>Applied Physics Letters</i> , 2004 , 85, 4666-4668	5.1	
13	Double-gated silicon field emitters. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003 , 21, 486		21
12	Electrical and optical characterization of field emitter tips with integrated vertically stacked focus. <i>IEEE Transactions on Electron Devices</i> , 2003 , 50, 2548-2558	2.9	42
11	Field emission from a patterned organic conducting composite. <i>Applied Physics Letters</i> , 2003 , 82, 2347-2349	4.9	16
10	Patterning pentacene organic thin film transistors. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002 , 20, 956		85
9	Correction to "High-performance bottom electrode organic thin-film transistors". <i>IEEE Transactions on Electron Devices</i> , 2001 , 48, 1750-1750	2.9	4
8	High-performance bottom electrode organic thin-film transistors. <i>IEEE Transactions on Electron Devices</i> , 2001 , 48, 1060-1064	2.9	255
7	Low-Voltage, High-Mobility Pentacene Transistors with Solution-Processed High Dielectric Constant Insulators. <i>Advanced Materials</i> , 1999 , 11, 1372-1375	24	146
6	Low-voltage organic transistors on plastic comprising high-dielectric constant gate insulators. <i>Science</i> , 1999 , 283, 822-4	33.3	771
5	trans-trans-2,5-Bis-[2-5-(2,2'-bithienyl)ethenyl]thiophene: synthesis, characterization, thin film deposition and fabrication of organic field-effect transistors. <i>Synthetic Metals</i> , 1997 , 89, 193-197	3.6	29
4	An organic semiconductor based process for photodetecting applications		3
3	Process control of threshold voltage in organic FETs		5

2 Novel cmp-based process for fabricating arrays of double-gated silicon field emitters 2

1 Biomass-Derived Nanoporous Graphene Memory Cell. *Advanced Materials Interfaces*,2200084 4.6