

Yutaka Noguchi

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.

72
papers

1,026
citations

17
h-index

29
g-index

78
ext. papers

1,193
ext. citations

3.4
avg, IF

4.08
L-index

#	Paper	IF	Citations
72	Investigating Bulk-to-Interface Doping Relaxation in Light-Emitting Electrochemical Cells via Displacement Current Measurements. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 2355-2361	4	1
71	Influence of intermolecular interactions on the formation of spontaneous orientation polarization in organic semiconducting films. <i>Journal of the Society for Information Display</i> , 2021 , 29, 29-37	2.1	6
70	Oxidative vaporization etching for molybdenum tip formation in air. <i>Applied Surface Science</i> , 2021 , 542, 148642	6.7	0
69	Enhancement of the molecular orientation of TPBi in coevaporated films of UGH-2 host molecules. <i>Surface and Interface Analysis</i> , 2021 , 53, 460-465	1.5	3
68	Active refractive index control using a stably evaporable perfluororesin for high-outcoupling-efficiency organic light-emitting diodes. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 11115-11125	7.1	15
67	Spontaneous Orientation Polarization in Organic Light-Emitting Diodes and its Influence on Charge Injection, Accumulation, and Degradation Properties 2021 , 273-293		
66	Molecular orientation anisotropy and hole transport properties of diluted semiconducting films of poly(p-phenylenevinylene) derivative. <i>Organic Electronics</i> , 2021 , 96, 106246	3.5	1
65	Bubble-Free Transfer Technique for High-Quality Graphene/Hexagonal Boron Nitride van der Waals Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 8533-8538	9.5	23
64	Photocontrollable ambipolar transistors with π -conjugated diarylethene photochromic channels. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SDDH03	1.4	5
63	Topological valley currents in bilayer graphene/hexagonal boron nitride superlattices. <i>Applied Physics Letters</i> , 2019 , 114, 243105	3.4	16
62	Spontaneous orientation polarization in organic light-emitting diodes. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, SF0801	1.4	28
61	Ambipolar carrier transport in an optically controllable diarylethene thin film transistor. <i>Organic Electronics</i> , 2019 , 64, 205-208	3.5	12
60	Observation of spontaneous orientation polarization in evaporated films of organic light-emitting diode materials. <i>Organic Electronics</i> , 2018 , 58, 313-317	3.5	32
59	Simultaneous Observation of the Electrical and Luminous Characteristics of Light-Emitting Electrochemical Cells by Using a Displacement Current Measurement Technique. <i>Advanced Optical Materials</i> , 2018 , 6, 1800318	8.1	6
58	Degradation Process in Pentacene-Based Organic Field-Effect Transistors Evaluated by Three-Terminal Capacitance-Voltage Measurements. <i>MRS Advances</i> , 2017 , 2, 1267-1272	0.7	2
57	Molecular floating-gate single-electron transistor. <i>Scientific Reports</i> , 2017 , 7, 1589	4.9	9
56	Negative capacitance in an organic solar cell observed by displacement current measurement. <i>Journal of Physics: Conference Series</i> , 2017 , 924, 012012	0.3	3

55	Significant relaxation of residual negative carrier in polar Alq3film directly detected by high-sensitivity photoemission. <i>Applied Physics Express</i> , 2016 , 9, 021601	2.4	17
54	Observation of ambipolar switching in a silver nanoparticle single-electron transistor with multiple molecular floating gates. <i>Japanese Journal of Applied Physics</i> , 2016 , 55, 03DC02	1.4	2
53	Observation of charge transport through CdSe/ZnS quantum dots in a single-electron transistor structure. <i>Journal of Applied Physics</i> , 2016 , 120, 164306	2.5	3
52	Simulation of OLEDs with a polar electron transport layer. <i>Organic Electronics</i> , 2016 , 39, 244-249	3.5	26
51	Analyzing degradation effects of organic light-emitting diodes via transient optical and electrical measurements. <i>Journal of Applied Physics</i> , 2015 , 117, 215502	2.5	31
50	Spontaneous Orientation Polarization of Polar Molecules and Interface Properties of Organic Electronic Devices. <i>Journal of the Vacuum Society of Japan</i> , 2015 , 58, 109-116		2
49	Effects of Interface Electronic Structures on Transition Voltage Spectroscopy of Alkanethiol Molecular Junctions. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 12765-12771	3.8	10
48	Charge carrier dynamics and degradation phenomena in organic light-emitting diodes doped by a thermally activated delayed fluorescence emitter. <i>Organic Electronics</i> , 2015 , 17, 184-191	3.5	28
47	Complete Demonstration of the Valence Electronic Structure Inside a Practical Organic Solar Cell Probed by Low Energy Photoemission. <i>Advanced Energy Materials</i> , 2014 , 4, 1301354	21.8	28
46	Evaluation of internal potential distribution and carrier extraction properties of organic solar cells through Kelvin probe and time-of-flight measurements. <i>Journal of Applied Physics</i> , 2014 , 116, 114503	2.5	12
45	Wavelength dependence and multiple-induced states in photoresponses of copper phthalocyanine-doped gold nanoparticle single-electron device. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 01AC02	1.4	2
44	Three-terminal capacitance-voltage measurements of pentacene field-effect transistors during operation. <i>Organic Electronics</i> , 2013 , 14, 2491-2496	3.5	8
43	Displacement Current Measurement for Exploring Charge Carrier Dynamics in Organic Semiconductor Devices 2013 , 119-154		4
42	Photoresponses in Gold Nanoparticle Single-Electron Transistors with Molecular Floating Gates. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 110102	1.4	12
41	Influence of the direction of spontaneous orientation polarization on the charge injection properties of organic light-emitting diodes. <i>Applied Physics Letters</i> , 2013 , 102, 203306	3.4	45
40	Charge accumulation at organic semiconductor interfaces due to a permanent dipole moment and its orientational order in bilayer devices. <i>Journal of Applied Physics</i> , 2012 , 111, 114508	2.5	110
39	Electronic structures at organic heterojunctions of N,N'-bis(1-naphthyl)-N,N'-diphenyl-1,1'-biphenyl-4,4'-diamin (NPB)-based organic light emitting diodes. <i>Organic Electronics</i> , 2012 , 13, 2850-2855	3.5	23
38	Photoinduced conductance switching in a dye-doped gold nanoparticle transistor. <i>Applied Physics Letters</i> , 2012 , 101, 023103	3.4	11

37	Device properties of Alq ₃ -based organic light-emitting diodes studied by displacement current measurement. <i>Journal of Photonics for Energy</i> , 2012 , 2, 021214	1.2	14
36	Performance of Alq ₃ -based Organic Light-Emitting Diode Fabricated under Light Irradiation. <i>Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi]</i> , 2012 , 25, 183-187	0.7	1
35	Time-Of-Flight Technique to Examine Carrier Blocking Nature in Organic Light Emitting Diode. <i>E-Journal of Surface Science and Nanotechnology</i> , 2012 , 10, 315-320	0.7	1
34	Impedance spectroscopy for pentacene field-effect transistor: channel formation process in transistor operation 2011 ,		4
33	Charge transport in various dimensions of small networks composed of gold nanoparticles and terthiophene wire-molecules. <i>Applied Physics Letters</i> , 2011 , 98, 263114	3.4	13
32	Characterization of the Interactions between Alq ₃ Thin Films and Al Probed by Two-Color Sum-Frequency Generation Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 9551-9560	3.8	18
31	Displacement current measurement of a pentacene metal-insulator-semiconductor device to investigate both quasi-static and dynamic carrier behavior using a combined waveform. <i>Organic Electronics</i> , 2011 , 12, 1560-1565	3.5	34
30	Displacement Current Measurement of MIS Devices with Ionic Liquids to Explore Carrier Behaviors in Model Interfaces of Organic Devices. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1286, 39		
29	Capacitance-Voltage Measurement of an Ambipolar Pentacene Field Effect Transistor in Operation by Using Displacement Current Measurement. <i>Materials Research Society Symposia Proceedings</i> , 2011 , 1287, 1		2
28	Light- and ion-gauge-induced space charges in tris-(8-hydroxyquinolate) aluminum-based organic light-emitting diodes. <i>Applied Physics Letters</i> , 2010 , 96, 143305	3.4	17
27	A photoresponsive single electron transistor prepared from oligothiophene molecules and gold nanoparticles in a nanogap electrode. <i>Applied Physics Letters</i> , 2010 , 96, 103117	3.4	19
26	Interface electronic structures of 2-amino-4,5-imidazoledicarbonitrile on Ag and Al surfaces. <i>Journal of Applied Physics</i> , 2010 , 108, 053702	2.5	5
25	Higher Resistance to Hole Injection and Electric Field Distribution in Organic Light-Emitting Diodes with Copper Phthalocyanine Interlayer. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 01AA01	1.4	7
24	Superperiodic conductance in a molecularly wired double-dot system self-assembled in a nanogap electrode. <i>Journal of Applied Physics</i> , 2010 , 108, 094313	2.5	11
23	Light Effective Mass in the Widely-Dispersed Valence Band of Single Crystalline Rubrene Observed by High-Resolution Angle-Resolved Ultraviolet Photoelectron Spectroscopy. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1197, 44		
22	Origins of Improved Hole-Injection Efficiency by the Deposition of MoO ₃ on the Polymeric Semiconductor Poly(dioctylfluorene-alt-benzothiadiazole). <i>Advanced Functional Materials</i> , 2009 , 19, 3746-3752 ¹⁵⁶ ₉₅		
21	Mechanism of hole accumulation at NPDP/Alq ₃ interface studied by displacement current measurement 2008 ,		7
20	Threshold voltage shift and formation of charge traps induced by light irradiation during the fabrication of organic light-emitting diodes. <i>Applied Physics Letters</i> , 2008 , 92, 203306	3.4	59

19	Direct observation of the electronic states of single crystalline rubrene under ambient condition by photoelectron yield spectroscopy. <i>Applied Physics Letters</i> , 2008 , 93, 173305	3.4	67
18	Photoemission measurement of extremely insulating materials: Capacitive photocurrent detection in photoelectron yield spectroscopy. <i>Applied Physics Letters</i> , 2008 , 92, 153306	3.4	48
17	Organic Mott insulator-based nanowire formed by using the Nanoscale-electrocrystallization. <i>Thin Solid Films</i> , 2008 , 516, 2491-2494	2.2	7
16	Observation of negative differential resistance and single-electron tunneling in electromigrated break junctions. <i>Thin Solid Films</i> , 2008 , 516, 2762-2766	2.2	11
15	Fowler-Nordheim Tunneling in Electromigrated Break Junctions with Porphyrin Molecules. <i>Japanese Journal of Applied Physics</i> , 2007 , 46, 2683-2686	1.4	11
14	Fabrication of Au-molecule-Au junctions using electromigration method. <i>Thin Solid Films</i> , 2006 , 499, 90-94	2.2	13
13	Nano-interfacial space charge and single electron tunneling conduction in metal/polyimide/metal junctions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 257-258, 345-349	5.1	
12	Contribution of the metal/BiO ₂ interface potential to photoinduced switching in molecular single-electron tunneling junctions. <i>Journal of Applied Physics</i> , 2005 , 97, 073513	2.5	5
11	Polyimide as a tunneling barrier in single-electron tunneling junctions 2005 , 439-452		1
10	Single-electron transport in metal/polyimide:C60/metal junction. <i>Thin Solid Films</i> , 2003 , 438-439, 369-373	3.2	5
9	Interfacial electrostatic phenomena in polyimide Langmuir-Blodgett films in electron tunneling devices. <i>Current Applied Physics</i> , 2003 , 3, 223-226	2.6	
8	STM observation of Coulomb staircase behavior through C60 clusters. <i>Current Applied Physics</i> , 2003 , 3, 397-399	2.6	3
7	Single electron tunneling organic devices 2003 , 31-39		
6	Step voltage in metal/polyimide/organic molecule/polyimide/metal junction. <i>Current Applied Physics</i> , 2002 , 2, 279-283	2.6	
5	Analysis of Step Voltages in Single Electron Tunneling Devices Using Organic Thin Films. <i>Japanese Journal of Applied Physics</i> , 2002 , 41, 2749-2752	1.4	3
4	Addendum: Space charge effect and the step voltages in metal/polyimide/rhodamine-dendrimer/polyimide/metal junctions[J. Appl. Phys. 90, 1368 (2001)]. <i>Journal of Applied Physics</i> , 2002 , 92, 1174-1176	2.5	2
3	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	2.2	8
2	Analysis of Potential Distribution and Current-Voltage Characteristic in Polyimide Langmuir-Blodgett Films. <i>Japanese Journal of Applied Physics</i> , 2001 , 40, 4575-4580	1.4	5

- 1 Space charge effect and the step voltages in metal/polyimide/rhodamine π endotrimer/polyimide/metal junctions. *Journal of Applied Physics*, **2001**, 90, 1368-1375

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