Takafumi Uemura

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#	Paper	IF	Citations
97	Patternable solution-crystallized organic transistors with high charge carrier mobility. <i>Advanced Materials</i> , 2011 , 23, 1626-9	24	303
96	Very High Mobility in Solution-Processed Organic Thin-Film Transistors of Highly Ordered [1]Benzothieno[3,2-b]benzothiophene Derivatives. <i>Applied Physics Express</i> , 2009 , 2, 111501	2.4	238
95	High-performance solution-processable N-shaped organic semiconducting materials with stabilized crystal phase. <i>Advanced Materials</i> , 2014 , 26, 4546-51	24	164
94	On the Extraction of Charge Carrier Mobility in High-Mobility Organic Transistors. <i>Advanced Materials</i> , 2016 , 28, 151-5	24	163
93	V-shaped organic semiconductors with solution processability, high mobility, and high thermal durability. <i>Advanced Materials</i> , 2013 , 25, 6392-7	24	162
92	Solution-crystallized organic field-effect transistors with charge-acceptor layers: high-mobility and low-threshold-voltage operation in air. <i>Advanced Materials</i> , 2011 , 23, 3309-14	24	143
91	Enhanced fluorescence by surface plasmon coupling of Au nanoparticles in an organic electroluminescence diode. <i>Applied Physics Letters</i> , 2010 , 96, 043307	3.4	136
90	High electron mobility in air for N,N⊌1H,1H-perfluorobutyldicyanoperylene carboxydi-imide solution-crystallized thin-film transistors on hydrophobic surfaces. <i>Advanced Materials</i> , 2011 , 23, 3681-5	5 ²⁴	112
89	Hall-effect measurements probing the degree of charge-carrier delocalization in solution-processed crystalline molecular semiconductors. <i>Physical Review Letters</i> , 2011 , 107, 066601	7.4	94
88	Inch-Size Solution-Processed Single-Crystalline Films of High-Mobility Organic Semiconductors. <i>Applied Physics Express</i> , 2013 , 6, 076503	2.4	86
87	An ultraflexible organic differential amplifier for recording electrocardiograms. <i>Nature Electronics</i> , 2019 , 2, 351-360	28.4	62
86	Band-like transport in solution-crystallized organic transistors. <i>Current Applied Physics</i> , 2012 , 12, S87-S9	31 2.6	59
85	Boron-Stabilized Planar Neutral ERadicals with Well-Balanced Ambipolar Charge-Transport Properties. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14336-14339	16.4	56
84	High-speed flexible organic field-effect transistors with a 3D structure. <i>Advanced Materials</i> , 2011 , 23, 3047-51	24	53
83	Charge transport and Hall effect in rubrene single-crystal transistors under high pressure. <i>Physical Review B</i> , 2011 , 84,	3.3	51
82	Free-electron-like Hall effect in high-mobility organic thin-film transistors. <i>Physical Review B</i> , 2010 , 81,	3.3	50
81	Electronic functionalization of solid-to-liquid interfaces between organic semiconductors and ionic liquids: Realization of very high performance organic single-crystal transistors. <i>Applied Physics Letters</i> . 2008 . 93. 263305	3.4	50

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80	Local-plasmon-enhanced up-conversion fluorescence from copper phthalocyanine. <i>Chemical Physics Letters</i> , 2007 , 448, 232-236	2.5	47
79	Temperature dependence of the Hall effect in pentacene field-effect transistors: Possibility of charge decoherence induced by molecular fluctuations. <i>Physical Review B</i> , 2012 , 85,	3.3	46
78	Low-voltage operation of n-type organic field-effect transistors with ionic liquid. <i>Applied Physics Letters</i> , 2009 , 95, 103301	3.4	46
77	Electrical properties of individual ZnO nanowires. <i>Nanotechnology</i> , 2009 , 20, 155203	3.4	44
76	Dinaphtho[1,2-b:2?,1?-d]chalcogenophenes: Comprehensive Investigation of the Effect of the Chalcogen Atoms in the Phenacene-Type Electronic Cores. <i>Chemistry of Materials</i> , 2013 , 25, 3952-3956	9.6	43
75	Imperceptible magnetic sensor matrix system integrated with organic driver and amplifier circuits. <i>Science Advances</i> , 2020 , 6, eaay6094	14.3	39
74	Study of contact resistance of high-mobility organic transistors through comparisons. <i>Organic Electronics</i> , 2013 , 14, 2590-2595	3.5	39
73	High-Mobility Organic Transistors with Wet-Etch-Patterned Top Electrodes: A Novel Patterning Method for Fine-Pitch Integration of Organic Devices. <i>Advanced Materials Interfaces</i> , 2014 , 1, 1300124	4.6	38
72	Flexible three-dimensional organic field-effect transistors fabricated by an imprinting technique. <i>Advanced Materials</i> , 2012 , 24, 5212-6, 5276	24	34
71	Wireless Monitoring Using a Stretchable and Transparent Sensor Sheet Containing Metal Nanowires. <i>Advanced Materials</i> , 2020 , 32, e1902684	24	34
70	Structural investigation of ionic liquid/rubrene single crystal interfaces by using frequency-modulation atomic force microscopy. <i>Chemical Communications</i> , 2013 , 49, 10596-8	5.8	32
69	High-speed organic single-crystal transistors gated with short-channel air gaps: Efficient hole and electron injection in organic semiconductor crystals. <i>Organic Electronics</i> , 2013 , 14, 1656-1662	3.5	31
68	Optical pump-probe spectroscopy of photocarriers in rubrene single crystals. <i>Physical Review B</i> , 2011 , 83,	3.3	31
67	High-performance organic transistors with high-k dielectrics: A comparative study on solution-processed single crystals and vacuum-deposited polycrystalline films of 2,9-didecyl-dinaphtho[2,3-b:2?,3?-f]thieno[3,2-b]thiophene. <i>Applied Physics Letters</i> , 2012 , 101, 223304	3.4	31
66	Air-stable n-channel single-crystal transistors with negligible threshold gate voltage. <i>Applied Physics Letters</i> , 2009 , 94, 053305	3.4	30
65	Long-Term Implantable, Flexible, and Transparent Neural Interface Based on Ag/Au Core-Shell Nanowires. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1900130	10.1	29
64	Split-gate organic field-effect transistors for high-speed operation. Advanced Materials, 2014, 26, 2983-	824	29
63	Imperceptible energy harvesting device and biomedical sensor based on ultraflexible ferroelectric transducers and organic diodes. <i>Nature Communications</i> , 2021 , 12, 2399	17.4	29

62	Function point measurement tool for UML design specification		27
61	Comprehensive Evaluation of Electron Mobility for a Trifluoroacetyl-Terminated Electronegative Conjugated Oligomer. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 17189-17193	3.8	25
60	Charge-transfer induced surface conductivity for a copper based inorganic-organic hybrid. <i>Applied Physics Letters</i> , 2009 , 95, 173104	3.4	24
59	Monolithic complementary inverters based on organic single crystals. <i>Advanced Materials</i> , 2010 , 22, 393	38 <u>-4</u> 1	24
58	High-power and high-speed organic three-dimensional transistors with submicrometer channels. <i>Applied Physics Letters</i> , 2010 , 97, 013301	3.4	23
57	Ultraflexible and ultrathin polymeric gate insulator for 2 V organic transistor circuits. <i>Applied Physics Express</i> , 2016 , 9, 061602	2.4	23
56	Relaxation dynamics of photoexcited excitons in rubrene single crystals using femtosecond absorption spectroscopy. <i>Physical Review Letters</i> , 2012 , 109, 097403	7.4	20
55	Single-crystal Field-effect Transistors with a Furan-containing Organic Semiconductor Having a Twisted Electronic System. <i>Chemistry Letters</i> , 2013 , 42, 654-656	1.7	19
54	Electroconductive Dunction Au Nanoparticles. Bulletin of the Chemical Society of Japan, 2012, 85, 957-9	9 65 1.1	18
53	Reduced contact resistances in organic transistors with secondary gates on source and drain electrodes. <i>Applied Physics Letters</i> , 2009 , 95, 113308	3.4	17
52	The emergence of charge coherence in soft molecular organic semiconductors via the suppression of thermal fluctuations. <i>NPG Asia Materials</i> , 2016 , 8, e252-e252	10.3	17
51	Molecularly clean ionic liquid/rubrene single-crystal interfaces revealed by frequency modulation atomic force microscopy. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 6794-800	3.6	16
50	Carrier dynamics of rubrene single-crystals revealed by transient broadband terahertz spectroscopy. <i>Applied Physics Letters</i> , 2014 , 105, 143302	3.4	15
49	Clean surface processing of rubrene single crystal immersed in ionic liquid by using frequency modulation atomic force microscopy. <i>Applied Physics Letters</i> , 2014 , 104, 263102	3.4	15
48	Tunneling-current-induced light emission from individual carbon nanotubes. <i>Surface Science</i> , 2006 , 600, L15-L19	1.8	15
47	Correlation between thermal fluctuation effects and phase coherence factor in carrier transport of single-crystal organic semiconductors. <i>Applied Physics Letters</i> , 2015 , 106, 143302	3.4	13
46	Enhancement of the Exciton Coherence Size in Organic Semiconductor by Alkyl Chain Substitution. Journal of Physical Chemistry C, 2016 , 120, 7941-7948	3.8	13
45	Fine printing method of silver nanowire electrodes with alignment and accumulation. Nanotechnology, 2019, 30, 37LT03	3.4	12

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44	Highly-ordered Triptycene Modifier Layer Based on Blade Coating for Ultraflexible Organic Transistors. <i>Scientific Reports</i> , 2019 , 9, 9200	4.9	12	
43	Ultrafast exciton dynamics in dinaphtho[2,3-b:2\igcup\G\f]thieno[3,2-b]-thiophene thin films. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 7501-12	3.6	12	
42	Syntheses and Thermal Properties of New Liquid Crystalline Materials Involving Tropolone. <i>Molecular Crystals and Liquid Crystals</i> , 1983 , 95, 287-297		12	
41	Gradual improvements of charge carrier mobility at ionic liquid/rubrene single crystal interfaces. <i>Applied Physics Letters</i> , 2016 , 108, 083113	3.4	12	
40	Printable Transparent Microelectrodes toward Mechanically and Visually Imperceptible Electronics. <i>Advanced Intelligent Systems</i> , 2020 , 2, 2000093	6	11	
39	Charge modulation infrared spectroscopy of rubrene single-crystal field-effect transistors. <i>Applied Physics Letters</i> , 2013 , 102, 093301	3.4	10	
38	Implantable wireless 64-channel system with flexible ECoG electrode and optogenetics probe 2016 ,		10	
37	Design of ultraflexible organic differential amplifier circuits for wearable sensor technologies 2018,		10	
36	Orientation analysis of pentacene molecules in organic field-effect transistor devices using polarization-dependent Raman spectroscopy. <i>Scientific Reports</i> , 2019 , 9, 15149	4.9	9	
35	Enhanced electronic-transport modulation in single-crystalline VO nanowire-based solid-state field-effect transistors. <i>Scientific Reports</i> , 2017 , 7, 17215	4.9	9	
34	Microscopic hole-transfer efficiency in organic thin-film transistors studied with charge-modulation spectroscopy. <i>Physical Review B</i> , 2015 , 91,	3.3	9	
33	Wireless EEG patch sensor on forehead using on-demand stretchable electrode sheet and electrode-tissue impedance scanner. Annual International Conference of the IEEE Engineering in Medicine and Biology Society Annual International	0.9	7	
32	High-performance solution-processed organic transistors with electroless-plated electrodes. Organic Electronics, 2013, 14, 2144-2147	3.5	7	
31	Very Low-Voltage Operation of Ionic Liquid-Gated n-Type Organic Field-Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 01AB13	1.4	7	
30	Spatially resolved detection of plasmon-enhanced fluorescence using scanning tunneling microscopy. <i>Surface and Interface Analysis</i> , 2008 , 40, 1050-1053	1.5	7	
29	Tunneling-Current-Induced Light Emission from Copper Phthalocyanine Thin Films. <i>E-Journal of Surface Science and Nanotechnology</i> , 2006 , 4, 559-562	0.7	6	
28	Ultralow-Noise Organic Transistors Based on Polymeric Gate Dielectrics with Self-Assembled Modifiers. <i>ACS Applied Materials & amp; Interfaces</i> , 2019 , 11, 41561-41569	9.5	5	
27	Flexible neural interfaces for brain implants the pursuit of thinness and high density. Flexible and Printed Electronics, 2020 , 5, 043002	3.1	5	

26	Raman Spectroscopic Studies of Dinaphthothienothiophene (DNTT). <i>Materials</i> , 2019 , 12,	3.5	4
25	Rapid improvements in charge carrier mobility at ionic liquid/pentacene single crystal interfaces by self-cleaning. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 6131-6135	3.6	4
24	Growth Of Organic Semiconductor Thin Films with Multi-Micron Domain Size and Fabrication of Organic Transistors Using a Stencil Nanosieve. <i>ACS Applied Materials & Domain Size</i> and Fabrication of Organic Transistors Using a Stencil Nanosieve. <i>ACS Applied Materials & Domain Size</i> and Fabrication of Organic Transistors Using a Stencil Nanosieve.	3348	4
23	Mobility enhancement of DNTT and BTBT derivative organic thin-film transistors by triptycene molecule modification. <i>Organic Electronics</i> , 2021 , 96, 106219	3.5	4
22	Materials and devices with applications in high-end organic transistors. <i>Thin Solid Films</i> , 2014 , 554, 19-26	62.2	3
21	Flexible organic TFT bio-signal amplifier using reliable chip component assembly process with conductive adhesive. Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference,	0.9	3
20	Flexible sensor sheet for real-time pressure monitoring in artificial knee joint during total knee arthroplasty. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2017 , 2017, 1591-1594	0.9 I	3
19	Flexible electronics for bio-signal monitoring in implantable applications. <i>IEICE Electronics Express</i> , 2017 , 14, 20172003-20172003	0.5	3
18	High-power three-dimensional polymer FETs. Current Applied Physics, 2012, 12, S92-S95	2.6	3
17	Investigation of Hole Transporting Properties in Thin-Film and Single-Crystal Organic Field-Effect Transistor Based on Dinaphtho[2,1-b:1从2时]thiophene. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 05DC10	1.4	3
16	Heterogeneous Functional Dielectric Patterns for Charge-Carrier Modulation in Ultraflexible Organic Integrated Circuits. <i>Advanced Materials</i> , 2021 , 33, e2104446	24	3
15	Probing inter-molecular interactions of dinaphthothienothiophene (DNTT) molecules in a transistor device using low-frequency Raman spectroscopy. <i>Applied Physics Express</i> , 2020 , 13, 022010	2.4	2
14	Coherent Phonon Dynamics in Singlet Fission of Rubrene Single Crystal. <i>Springer Proceedings in Physics</i> , 2015 , 218-221	0.2	2
13	Hall Effect of Solution-crystallized and Vapor-deposited 2,7-Dioctylbenzothieno[3,2-b]Benzothiophene Field-effect Transistors. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1270, 1		1
12	Coherent phonon dynamics in singlet fission of rubrene single crystal 2014,		1
11	Three-Dimensional Organic Field-Effect Transistors Using Solution-Processed Thin Films of Benzothieno-Benzothiophene Derivatives. <i>Molecular Crystals and Liquid Crystals</i> , 2011 , 539, 58/[398]-62	2/[402]	0
10	Retrieval of Electronic Spectra of Charge Carriers in Organic Field-Effect Transistors from Charge Modulation Reflectance Spectra Distorted by Optical Interference. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 062401	1.4	O
9	Non-contact Laser Printing of Ag Nanowire-based Electrode with Photodegradable Polymers. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2019, 32, 429-434	0.7	О

LIST OF PUBLICATIONS

8	Evaluating intrinsic mobility from transient terahertz conductivity spectra of microcrystal samples of organic molecular semiconductors. <i>Applied Physics Letters</i> , 2019 , 115, 143301	3.4
7	3D Organic Field-Effect Transistors: Flexible Three-Dimensional Organic Field-Effect Transistors Fabricated by an Imprinting Technique (Adv. Mater. 38/2012). <i>Advanced Materials</i> , 2012 , 24, 5276-5276	24
6	Organic Semiconductors: V-Shaped Organic Semiconductors With Solution Processability, High Mobility, and High Thermal Durability (Adv. Mater. 44/2013). <i>Advanced Materials</i> , 2013 , 25, 6306-6306	24
5	Organic Field-Effect Transistors: High Electron Mobility in Air for N,N?-1H,1H-Perfluorobutyldicyanoperylene Carboxydi-imide Solution-Crystallized Thin-Film Transistors on Hydrophobic Surfaces (Adv. Mater. 32/2011). <i>Advanced Materials</i> , 2011 , 23, 3680-3680	24
4	High-power Organic Field-effect Transistors Using a Three-dimensional Structure. <i>Materials Research Society Symposia Proceedings</i> , 2010 , 1270, 1	
3	Air-Stable n-Channel Single-Crystal Field-Effect Transistors. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 01AB05	1.4
2	Heterogeneous Functional Dielectric Patterns for Charge-Carrier Modulation in Ultraflexible Organic Integrated Circuits (Adv. Mater. 45/2021). <i>Advanced Materials</i> , 2021 , 33, 2170358	24
1	Interfacial Structural Investigations of Electric Double Layer Transistors Using Ionic Liquid: Relation between Microscopic Structures and Device Performances. <i>Hyomen Kagaku</i> , 2017 , 38, 419-424	