

Hirohiko Fukagawa

List of Publications by Year in descending order

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Version: 2024-02-01

62
papers

1,660
citations

331259

21
h-index

288905

40
g-index

63
all docs

63
docs citations

63
times ranked

2095
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Efficient and Stable Red Phosphorescent Organic Light-Emitting Diodes Using Platinum Complexes. <i>Advanced Materials</i> , 2012, 24, 5099-5103.	11.1	160
2	Low-density band-gap states in pentacene thin films probed with ultrahigh-sensitivity ultraviolet photoelectron spectroscopy. <i>Applied Physics Letters</i> , 2009, 95, .	1.5	128
3	The Role of the Ionization Potential in Vacuum-Level Alignment at Organic Semiconductor Interfaces. <i>Advanced Materials</i> , 2007, 19, 665-668.	11.1	127
4	Anthracene derivatives as efficient emitting hosts for blue organic light-emitting diodes utilizing triplet-triplet annihilation. <i>Organic Electronics</i> , 2012, 13, 1197-1203.	1.4	112
5	Long-Lived Flexible Displays Employing Efficient and Stable Inverted Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2018, 30, e1706768.	11.1	93
6	Pyridindole Derivative as Electron Transporting Host Material for Efficient Deep-blue Phosphorescent Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2010, 22, 4775-4778.	11.1	76
7	Charge Reorganization Energy and Small Polaron Binding Energy of Rubrene Thin Films by Ultraviolet Photoelectron Spectroscopy. <i>Advanced Materials</i> , 2012, 24, 901-905.	11.1	65
8	Highly efficient and air-stable inverted organic light-emitting diode composed of inert materials. <i>Applied Physics Express</i> , 2014, 7, 082104.	1.1	64
9	Highly efficient and stable organic light-emitting diodes with a greatly reduced amount of phosphorescent emitter. <i>Scientific Reports</i> , 2015, 5, 9855.	1.6	62
10	High-efficiency ultrapure green organic light-emitting diodes. <i>Materials Chemistry Frontiers</i> , 2018, 2, 704-709.	3.2	60
11	Operational lifetimes of organic light-emitting diodes dominated by Förster resonance energy transfer. <i>Scientific Reports</i> , 2017, 7, 1735.	1.6	59
12	Experimental Reorganization Energies of Pentacene and Perfluoropentacene: Effects of Perfluorination. <i>Journal of Physical Chemistry C</i> , 2013, 117, 22428-22437.	1.5	53
13	Spectroscopic evidence of strong π - π interorbital interaction in a lead-phthalocyanine bilayer film attributed to the dimer nanostructure. <i>Physical Review B</i> , 2007, 75, .	1.1	49
14	Flexible Active-Matrix Organic Light-Emitting Diode Display Using Air-Stable Organic Semiconductor of $\text{Dinaphtho}[\text{h}2, \text{h}3\text{h}b]: \text{h}2^{\text{prime}}, \text{h}3^{\text{prime}} \text{h}f \text{thieno}[\text{h}3, \text{h}2 \text{h}b] \text{h} \text{thiophene}$. <i>IEEE Transactions on Electron Devices</i> , 2012, 59, 3442-3449.	1.6	47
15	Novel Hole-Transporting Materials with High Triplet Energy for Highly Efficient and Stable Organic Light-Emitting Diodes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 18748-18755.	1.5	46
16	Highly Efficient and Stable Phosphorescent Organic Light-Emitting Diodes Utilizing Reverse Intersystem Crossing of the Host Material. <i>Advanced Optical Materials</i> , 2014, 2, 1070-1075.	3.6	36
17	Fabrication of 5.8-in. OTFT-driven flexible color AMOLED display using dual protection scheme for organic semiconductor patterning. <i>Journal of the Society for Information Display</i> , 2009, 17, 629-634.	0.8	35
18	Efficient white organic light emitting diodes with solution processed and vacuum deposited emitting layers. <i>Organic Electronics</i> , 2009, 10, 798-802.	1.4	30

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19	A 5.8-inch, phosphorescent color AMOLED display fabricated by inkjet printing on plastic substrate. Journal of the Society for Information Display, 2009, 17, 1037-1042.	0.8	30
20	Unravelling the electron injection/transport mechanism in organic light-emitting diodes. Nature Communications, 2021, 12, 2706.	5.8	30
21	Observation of a temperature-dependent transition of a copper-phthalocyanine thin film adsorbed on HOPG. Chemical Physics Letters, 2008, 451, 43-47.	1.2	24
22	Understanding coordination reaction for producing stable electrode with various low work functions. Nature Communications, 2020, 11, 3700.	5.8	23
23	Development of 8-inch, oxide-TFT-driven flexible AMOLED display using high-performance red phosphorescent OLED. Journal of the Society for Information Display, 2014, 22, 137-143.	0.8	20
24	Development of flexible displays using back-channel-etched In-Sn-Zn-O thin-film transistors and air-stable inverted organic light-emitting diodes. Journal of the Society for Information Display, 2016, 24, 3-11.	0.8	20
25	Universal Strategy for Efficient Electron Injection into Organic Semiconductors Utilizing Hydrogen Bonds. Advanced Materials, 2019, 31, 1904201.	11.1	20
26	20.4: An 8-inch, Oxide-TFT-Driven Flexible AMOLED Display with Solution-Processed Insulators. Digest of Technical Papers SID International Symposium, 2012, 43, 271-274.	0.1	18
27	16.4: Low-Temperature Fabrication of Flexible AMOLED Displays Using Oxide TFTs with Polymer Gate Insulators. Digest of Technical Papers SID International Symposium, 2011, 42, 202-205.	0.1	17
28	Simply structured, deep-blue phosphorescent organic light-emitting diode with bipolar host material. Organic Electronics, 2011, 12, 1638-1643.	1.4	17
29	Molecular design of hole-transporting material for efficient and stable green phosphorescent organic light-emitting diodes. Applied Physics Letters, 2013, 103, .	1.5	15
30	UPS study of VUV-photodegradation of polytetrafluoroethylene (PTFE) ultrathin film by using synchrotron radiation. Nuclear Instruments & Methods in Physics Research B, 2005, 236, 377-382.	0.6	12
31	Low-temperature fabrication of 5-inch, QVGA flexible AMOLED display driven by OTFTs using olefin polymer as the gate insulator. Journal of the Society for Information Display, 2011, 19, 861-866.	0.8	11
32	P454: Fabrication of 8-inch VGA Flexible Display Using Air-Stable Inverted OLED. Digest of Technical Papers SID International Symposium, 2014, 45, 1561-1564.	0.1	11
33	P.140L: <i>Late News Poster</i>: Highly Efficient Inverted OLED with Air-Stable Electron Injection Layer. Digest of Technical Papers SID International Symposium, 2013, 44, 1466-1469.	0.1	10
34	Direct Observation of Efficient Triplet-Triplet Energy Transfer in Phosphorescent Organic Light-Emitting Diode. Applied Physics Express, 2013, 6, 052104.	1.1	9
35	High-current operation of vertical-type organic transistor with preferentially oriented molecular film. AIP Advances, 2016, 6, .	0.6	9
36	Improvement in image quality of a 5.8-inch, OTFT-driven flexible AMOLED display. Journal of the Society for Information Display, 2011, 19, 94-99.	0.8	7

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37	Effect of Host Moieties on the Phosphorescent Spectrum of Green Platinum Complex. <i>Molecules</i> , 2019, 24, 454.	1.7	7
38	Long-Lived Efficient Inverted Organic Light-Emitting Diodes Developed by Controlling Carrier Injection Barrier into Emitting Layer. <i>Advanced Optical Materials</i> , 2020, 8, 2000506.	3.6	6
39	46.4: Effects of Electron Injection Layer on Storage and Operational Stability of Air-Stable OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2015, 46, 696-699.	0.1	5
40	65.3: Development of Flexible Displays using Back-Channel-Etched In-Sn-Zn-O TFTs and Air-Stable Inverted OLEDs. <i>Digest of Technical Papers SID International Symposium</i> , 2015, 46, 969-972.	0.1	5
41	58-3: Invited Paper: Demonstration of Highly Efficient and Air-Stable OLED Utilizing Novel Heavy-Doping Technique. <i>Digest of Technical Papers SID International Symposium</i> , 2016, 47, 790-793.	0.1	5
42	Air-Stable Ultra-Flexible Organic Photonic System for Cardiovascular Monitoring. <i>Advanced Materials Technologies</i> , 2022, 7, .	3.0	5
43	47-2: Invited Paper: Oxide/Organic Semiconductor Electronics on Plastic Substrates for Flexible AMOLED Displays. <i>Digest of Technical Papers SID International Symposium</i> , 2016, 47, 633-636.	0.1	4
44	6 inch-flexible AM-OLED moving image display. , 2009, , .		3
45	Characteristics of OTFTs Using Olefin-polymer Gate Insulator and Their Application to a 5-in. OTFT-driven Flexible AMOLED Display. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1287, 1.	0.1	3
46	61: Demonstration of Long-Term Stable Emission from Inverted OLED with Imperfect Encapsulation. <i>Digest of Technical Papers SID International Symposium</i> , 2018, 49, 811-814.	0.1	3
47	Comprehensive study on operational lifetime of organic light-emitting diodes: effects of molecular structure and energy transfer. <i>Japanese Journal of Applied Physics</i> , 2021, 60, 040902.	0.8	2
48	Role of intrinsic band-gap states for the energy level alignment at weakly interacting organic-conductor interfaces: gap states versus band dispersion in pentacene thin films. <i>Proceedings of SPIE</i> , 2007, , .	0.8	1
49	New Driving Scheme to Improve Hysteresis Characteristics of Organic Thin Film Transistor-Driven Active-Matrix Organic Light Emitting Diode Display. <i>Japanese Journal of Applied Physics</i> , 2011, 50, 024201.	0.8	1
50	Flexible AMOLED display using an oxide-TFT backplane and inverted OLEDs. , 2014, , .		1
51	Oxide thin-film transistor technology for flexible organic light-emitting diode displays. , 2015, , .		1
52	Effects of Energy-Level Alignment on Characteristics of Inverted Organic Light-Emitting Diodes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 21749-21755.	4.0	1
53	20: Universal Method to Inject Electrons into Organic Semiconductors Utilizing Hydrogen Bonds. <i>Digest of Technical Papers SID International Symposium</i> , 2020, 51, 285-288.	0.1	1
54	Fabrication of High Performance Organic Thin Film Transistor Arrays and Application to 5-inch Flexible Displays. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1196, 52.	0.1	0

#	ARTICLE	IF	CITATIONS
55	Paper No 10.4: Oxide-Driven Flexible Display Using Highly Efficient Phosphorescent OLED. Digest of Technical Papers SID International Symposium, 2013, 44, 206-209.	0.1	0
56	Key Materials for Highly Stable Phosphorescent Organic Light-Emitting Diodes with Reduced Amount of Emitter. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2015, 28, 341-342.	0.1	0
57	Energy Level Alignment at Beq2/PEI/ITO Interfaces Studied by UV Photoemission Spectroscopy. MRS Advances, 2017, 2, 2261-2266.	0.5	0
58	57: Demonstration of Efficient Green OLEDs with High Color Purity. Digest of Technical Papers SID International Symposium, 2017, 48, 853-856.	0.1	0
59	P: Operationally Stable Blue Inverted OLEDs Employing Fluorescent Emitter. Digest of Technical Papers SID International Symposium, 2019, 50, 1873-1876.	0.1	0
60	Electron Injection Technique for Practical Application of Flexible Organic Devices. Vacuum and Surface Science, 2021, 64, 10-15.	0.0	0
61	New Driving Scheme to Improve Hysteresis Characteristics of Organic Thin Film Transistor-Driven Active-Matrix Organic Light Emitting Diode Display. Japanese Journal of Applied Physics, 2011, 50, 024201.	0.8	0
62	6: Understanding the Electron Injection/Transport Mechanism in OLEDs by Using a Superbase as Electron Injection Layer. Digest of Technical Papers SID International Symposium, 2022, 53, 889-892.	0.1	0