

# Chanwoo Yang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10414350/publications.pdf>

Version: 2024-02-01

27  
papers

1,129  
citations

304743

22  
h-index

526287

27  
g-index

27  
all docs

27  
docs citations

27  
times ranked

1564  
citing authors

#	ARTICLE	IF	CITATIONS
1	Bending-stress-driven phase transitions in pentacene thin films for flexible organic field-effect transistors. <i>Applied Physics Letters</i> , 2008, 92, .	3.3	124
2	Effect of water in ambient air on hysteresis in pentacene field-effect transistors containing gate dielectrics coated with polymers with different functional groups. <i>Organic Electronics</i> , 2008, 9, 673-677.	2.6	85
3	Reducing the contact resistance in organic thin-film transistors by introducing a PEDOT:PSS hole-injection layer. <i>Organic Electronics</i> , 2008, 9, 864-868.	2.6	79
4	Effect of the hydrophobicity and thickness of polymer gate dielectrics on the hysteresis behavior of pentacene-based field-effect transistors. <i>Journal of Applied Physics</i> , 2009, 105, .	2.5	69
5	Effects of polymer gate dielectrics roughness on pentacene field-effect transistors. <i>Applied Physics Letters</i> , 2006, 88, 072109.	3.3	64
6	Effects of polar functional groups and roughness topography of polymer gate dielectric layers on pentacene field-effect transistors. <i>Organic Electronics</i> , 2007, 8, 336-342.	2.6	57
7	Hysteresis behaviour of low-voltage organic field-effect transistors employing high dielectric constant polymer gate dielectrics. <i>Journal Physics D: Applied Physics</i> , 2010, 43, 465102.	2.8	57
8	Dependence of Pentacene Crystal Growth on Dielectric Roughness for Fabrication of Flexible Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2010, 2, 391-396.	8.0	50
9	Origin of high mobility within an amorphous polymeric semiconductor: Space-charge-limited current and trap distribution. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	47
10	Solution-processed flexible ZnO transparent thin-film transistors with a polymer gate dielectric fabricated by microwave heating. <i>Nanotechnology</i> , 2009, 20, 465201.	2.6	45
11	Lower hole-injection barrier between pentacene and a 1-hexadecanethiol-modified gold substrate with a lowered work function. <i>Organic Electronics</i> , 2008, 9, 21-29.	2.6	44
12	High-performance solution-processed triisopropylsilylethynyl pentacene transistors and inverters fabricated by using the selective self-organization technique. <i>Applied Physics Letters</i> , 2008, 93, .	3.3	41
13	Hysteresis-free organic field-effect transistors and inverters using photocrosslinkable poly(vinyl Tj ETQq1 1 0.784314 rgBT /Overlock	3.3	40
14	Effects of Poor Solvent for Solution-Processing Passivation of Organic Field Effect Transistors. <i>Journal of the Electrochemical Society</i> , 2010, 157, H90.	2.9	32
15	Photopatternable Poly(4-styrene sulfonic acid)-Wrapped MWNT Thin-Film Source/Drain Electrodes for Use in Organic Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 74-79.	8.0	30
16	Thin-film passivation by atomic layer deposition for organic field-effect transistors. <i>Applied Physics Letters</i> , 2008, 93, 163304.	3.3	29
17	High Tg cyclic olefin copolymer/Al2O3 bilayer gate dielectrics for flexible organic complementary circuits with low-voltage and air-stable operation. <i>Journal of Materials Chemistry</i> , 2011, 21, 12542.	6.7	28
18	Ambipolar thin-film transistors and an inverter based on pentacene/self-assembled monolayer modified ZnO hybrid structures for balanced hole and electron mobilities. <i>Organic Electronics</i> , 2011, 12, 411-418.	2.6	28

#	ARTICLE	IF	CITATIONS
19	Low-voltage organic transistors on a polymer substrate with an aluminum foil gate fabricated by a laminating and electropolishing process. <i>Applied Physics Letters</i> , 2006, 89, 153508.	3.3	27
20	An inkjet-printed passivation layer based on a photocrosslinkable polymer for long-term stable pentacene field-effect transistors. <i>Organic Electronics</i> , 2009, 10, 67-72.	2.6	27
21	Photopatternable ultrathin gate dielectrics for low-voltage-operating organic circuits. <i>Applied Physics Letters</i> , 2009, 95, .	3.3	24
22	Photopatternable, highly conductive and low work function polymer electrodes for high-performance n-type bottom contact organic transistors. <i>Organic Electronics</i> , 2011, 12, 516-519.	2.6	24
23	Solution-processed organic field-effect transistors composed of poly(4-styrene sulfonate) wrapped multiwalled carbon nanotube source/drain electrodes. <i>Organic Electronics</i> , 2009, 10, 363-367.	2.6	22
24	Improved n-type bottom-contact organic transistors by introducing a poly(3,4-ethylenedioxythiophene):poly(4-styrene sulfonate) coating on the source/drain electrodes. <i>Applied Physics Letters</i> , 2010, 97, 103304.	3.3	20
25	Photopatternable Source/Drain Electrodes using Multiwalled Carbon Nanotube/Polymer Nanocomposites for Organic Field-Effect Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , 2009, 1, 2332-2337.	8.0	16
26	Oxygen plasma treatment and postaging of pentacene field-effect transistors for improved mobility. <i>Applied Physics Letters</i> , 2007, 91, 023508.	3.3	12
27	Hybrid flexible ambipolar thin-film transistors based on pentacene and ZnO capable of low-voltage operation. <i>Chinese Journal of Physics</i> , 2016, 54, 471-474.	3.9	8