

Shijiao Han

List of Publications by Year in descending order

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26
papers

860
citations

471509

17
h-index

677142

22
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26
all docs

26
docs citations

26
times ranked

1206
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of hydroxyl group in polymeric dielectric layer on the performance of organic thin-film transistors and their application for NO ₂ gas sensor. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 20638-20645.	2.2	1
2	Crystallinity and grain boundary control of TIPS-pentacene in organic thin-film transistors for the ultra-high sensitive detection of NO ₂ . <i>Journal of Materials Chemistry C</i> , 2019, 7, 10196-10202.	5.5	34
3	Organic field-effect transistor gas sensor based on GO/PMMA hybrid dielectric for the enhancement of sensitivity and selectivity to ammonia. <i>Organic Electronics</i> , 2019, 67, 247-252.	2.6	37
4	Hole-transporting polymer dilution driven high performance organic transistor-based NO ₂ gas sensor. <i>Materials Letters</i> , 2019, 236, 285-288.	2.6	14
5	Sub-ppm and high response organic thin-film transistor NO ₂ sensor based on nanofibrillar structured TIPS-pentacene. <i>Sensors and Actuators B: Chemical</i> , 2019, 279, 238-244.	7.8	46
6	Influence of polymer additional modulating layer on the selectivity performance of organic field-effect transistor based gas sensor. , 2019, , .		0
7	Improved Room Temperature NO ₂ Sensing Performance of Organic Field-Effect Transistor by Directly Blending a Hole-Transporting/Electron-Blocking Polymer into the Active Layer. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 38280-38286.	8.0	40
8	Investigation of the atmosphere influence on device characteristics and NO ₂ sensing performance of organic field-effect transistors consisting of polymer bulk heterojunction. <i>Organic Electronics</i> , 2018, 62, 114-120.	2.6	18
9	UV-Induced Ozone Interfacial Modification in Organic Transistors for High-Sensitivity NO ₂ Detection. <i>Advanced Materials</i> , 2017, 29, 1701706.	21.0	106
10	Poly(vinyl alcohol) as a gas accumulation layer for an organic field-effect transistor ammonia sensor. <i>Sensors and Actuators B: Chemical</i> , 2017, 243, 1248-1254.	7.8	25
11	Organic Thin-Film Transistors: UV-Induced Ozone Interfacial Modification in Organic Transistors for High-Sensitivity NO ₂ Detection (<i>Adv. Mater.</i> 31/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	0
12	Interfacial modifying layer-driven high-performance organic thin-film transistors and their nitrogen dioxide gas sensors. <i>Organic Electronics</i> , 2017, 49, 334-339.	2.6	22
13	Achievement of High-Response Organic Field-Effect Transistor NO ₂ Sensor by Using the Synergistic Effect of ZnO/PMMA Hybrid Dielectric and CuPc/Pentacene Heterojunction. <i>Sensors</i> , 2016, 16, 1763.	3.8	13
14	Tailoring the Dielectric Layer Structure for Enhanced Performance of Organic Field-Effect Transistors: The Use of a Sandwiched Polar Dielectric Layer. <i>Materials</i> , 2016, 9, 545.	2.9	16
15	Biocompatible/Degradable Silk Fibroin:Poly(Vinyl Alcohol)-Blended Dielectric Layer Towards High-Performance Organic Field-Effect Transistor. <i>Nanoscale Research Letters</i> , 2016, 11, 439.	5.7	21
16	Poly(3-hexylthiophene)/polystyrene (P3HT/PS) blends based organic field-effect transistor ammonia gas sensor. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 10-15.	7.8	159
17	Solvent-dependent electrical properties improvement of organic field-effect transistor based on disordered conjugated polymer/insulator blends. <i>Organic Electronics</i> , 2015, 27, 160-166.	2.6	30
18	High mobility organic field-effect transistor based on water-soluble deoxyribonucleic acid via spray coating. <i>Applied Physics Letters</i> , 2015, 106, 043303.	3.3	24

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19	High performance low-voltage organic field-effect transistors enabled by solution processed alumina and polymer bilayer dielectrics. <i>Synthetic Metals</i> , 2015, 209, 337-342.	3.9	17
20	High photoresponse inverted ultraviolet photodetectors consisting of iridium phosphor doped into poly(N-vinylcarbazole) polymeric matrix. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	10
21	Performance improvement of organic field-effect transistor ammonia gas sensor using ZnO/PMMA hybrid as dielectric layer. <i>Sensors and Actuators B: Chemical</i> , 2014, 203, 9-16.	7.8	51
22	Flexible spray-coated TIPS-pentacene organic thin-film transistors as ammonia gas sensors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 6532.	5.5	118
23	Hysteresis mechanism and control in pentacene organic field-effect transistors with polymer dielectric. <i>AIP Advances</i> , 2013, 3, .	1.3	35
24	Discrepancies in performance for heterojunction organic field-effect transistors with different channel lengths. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012, 30, 062401.	1.2	0
25	Size-selected growth of transparent well-aligned ZnO nanowire arrays. <i>Nanoscale Research Letters</i> , 2012, 7, 517.	5.7	23
26	High performance organic field-effect transistor with oxide/metal bilayer electrodes. , 2012, , .		0