Jianwen

List of Publications by Year in descending order

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Version: 2024-02-01

76	3,098	172457	161849
papers	citations	29 h-index	54 g-index

77	77	77	4193
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Preparation of large-area, high-performance single-walled carbon nanotube (SWCNT)-based heater films by roll-to-roll gravure printing. Flexible and Printed Electronics, 2022, 7, 015007.	2.7	7
2	Printed carbon nanotube thin film transistors based on perhydropolysilazane-derived dielectrics for low power flexible electronics. Carbon, 2022, 191, 267-276.	10.3	14
3	Fabrication and electrical properties of printed three-dimensional integrated carbon nanotube PMOS inverters on flexible substrates. Nanoscale, 2022, 14, 4679-4689.	5.6	6
4	Printed thin film transistors with 108 on/off ratios and photoelectrical synergistic characteristics using isoindigo-based polymers-enriched (9,8) carbon nanotubes. Nano Research, 2022, 15, 5517-5526.	10.4	7
5	Highly sensitive and selective H2S sensors with ultra-low power consumption based on flexible printed carbon-nanotube-thin-film-transistors. Sensors and Actuators B: Chemical, 2022, 360, 131633.	7.8	16
6	A Universal Method for Highâ€Efficiency Immobilization of Semiconducting Carbon Nanotubes toward Fully Printed Paperâ€Based Electronics. Advanced Electronic Materials, 2021, 7, 2001025.	5.1	18
7	Flexible printed single-walled carbon nanotubes olfactory synaptic transistors with crosslinked poly(4-vinylphenol) as dielectrics. Flexible and Printed Electronics, 2021, 6, 034001.	2.7	16
8	Ambipolar carbon nanotube transistors with hybrid nanodielectric for low-voltage CMOS-like electronics. Nano Futures, 2021, 5, 025001.	2.2	10
9	Multimodal optoelectronic neuromorphic electronics based on lead-free perovskite-mixed carbon nanotubes. Carbon, 2021, 176, 592-601.	10.3	35
10	Layerâ€Byâ€Layer Printing Strategy for Highâ€Performance Flexible Electronic Devices with Lowâ€Temperature Catalyzed Solutionâ€Processed SiO 2. Small Methods, 2021, 5, 2100263.	8.6	8
11	Layerâ€Byâ€Layer Printing Strategy for Highâ€Performance Flexible Electronic Devices with Lowâ€Temperature Catalyzed Solutionâ€Processed SiO₂ (Small Methods 8/2021). Small Methods, 2021, 5, 2170038.	8.6	0
12	Large-area (64 Ã— 64 array) inkjet-printed high-performance metal oxide bilayer heterojunction thin film transistors and n-metal-oxide-semiconductor (NMOS) inverters. Journal of Materials Science and Technology, 2021, 81, 26-35.	10.7	13
13	High-performance flexible fully-printed all-carbon thin film transistors and ultrasensitive NH₃ sensors. Journal of Materials Chemistry C, 2021, 9, 2133-2144.	5.5	21
14	Printed solid state electrolyte carbon nanotube thin film transistors for sub-1 V fully printed flexible CMOS inverters. Journal of Materials Chemistry C, 2021, 9, 6852-6862.	5.5	21
15	Photoresponsive Transistors Based on Leadâ€Free Perovskite and Carbon Nanotubes. Advanced Functional Materials, 2020, 30, 1906335.	14.9	84
16	Radiation-Hard and Repairable Complementary Metalâ€“Oxideâ€“Semiconductor Circuits Integrating n-type Indium Oxide and p-type Carbon Nanotube Field-Effect Transistors. ACS Applied Materials & Interfaces, 2020, 12, 49963-49970.	8.0	14
17	Radiation-hardened and repairable integrated circuits based on carbon nanotube transistors with ion gel gates. Nature Electronics, 2020, 3, 622-629.	26.0	53
18	Ambipolar Deep-Subthreshold Printed-Carbon-Nanotube Transistors for Ultralow-Voltage and Ultralow-Power Electronics. ACS Nano, 2020, 14, 14036-14046.	14.6	30

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19	Large-Area Flexible Printed Thin-Film Transistors with Semiconducting Single-Walled Carbon Nanotubes for NO₂ Sensors. ACS Applied Materials & Interfaces, 2020, 12, 51797-51807.	8.0	41
20	Air-stable N-type printed carbon nanotube thin film transistors for CMOS logic circuits. Carbon, 2020, 163, 145-153.	10.3	31
21	Optically and electrically modulated printed carbon nanotube synaptic transistors with a single input terminal and multi-functional output characteristics. Journal of Materials Chemistry C, 2020, 8, 6914-6922.	5.5	11
22	Overcoming Electrochemical Instabilities of Printed Silver Electrodes in All-Printed Ion Gel Gated Carbon Nanotube Thin-Film Transistors. ACS Applied Materials & Interfaces, 2019, 11, 41531-41543.	8.0	27
23	43.1: Invited Paper: Largeâ€area and highâ€performance printed carbon nanotube and metal oxide thin film transistors and their applications. Digest of Technical Papers SID International Symposium, 2019, 50, 483-484.	0.3	0
24	High-performance metal-oxide thin-film transistors based on inkjet-printed self-confined bilayer heterojunction channels. Journal of Materials Chemistry C, 2019, 7, 6169-6177.	5.5	31
25	Polarity tuning of carbon nanotube transistors by chemical doping for printed flexible complementary metal-oxide semiconductor (CMOS)-like inverters. Carbon, 2019, 147, 566-573.	10.3	22
26	Highâ€Performance Partially Printed Hybrid CMOS Inverters Based on Indiumâ€Zincâ€Oxide and Chirality Enriched Carbon Nanotube Thinâ€Film Transistors. Advanced Electronic Materials, 2019, 5, 1900034.	5.1	11
27	Optoelectronic Properties of Printed Photogating Carbon Nanotube Thin Film Transistors and Their Application for Light-Stimulated Neuromorphic Devices. ACS Applied Materials & Interfaces, 2019, 11, 12161-12169.	8.0	80
28	Monolithic Heterogeneous Integration of BEOL Power Gating Transistors of Carbon Nanotube Networks with FEOL Si Ring Oscillator Circuits. , 2019, , .		5
29	Room-temperature printing of CNTs-based flexible TFTs with high performance. , 2019, , .		0
30	High-Resolution Inkjet-Printed Oxide Thin-Film Transistors with a Self-Aligned Fine Channel Bank Structure. ACS Applied Materials & Interfaces, 2018, 10, 15847-15854.	8.0	14
31	Highly flexible printed carbon nanotube thin film transistors using cross-linked poly(4-vinylphenol) as the gate dielectric and application for photosenstive light-emitting diode circuit. Carbon, 2018, 133, 390-397.	10.3	17
32	Flexible integrated diode-transistor logic (DTL) driving circuits based on printed carbon nanotube thin film transistors with low operation voltage. Nanoscale, 2018, 10, 614-622.	5.6	23
33	66â€2: Printed Carbon Nanotube Thinâ€film Transistors and Application in OLED Backplane Circuits. Digest of Technical Papers SID International Symposium, 2017, 48, 968-971.	0.3	2
34	Selective Conversion from p-Type to n-Type of Printed Bottom-Gate Carbon Nanotube Thin-Film Transistors and Application in Complementary Metalâ€“Oxideâ€“Semiconductor Inverters. ACS Applied Materials & Interfaces, 2017, 9, 12750-12758.	8.0	41
35	Printed Neuromorphic Devices Based on Printed Carbon Nanotube Thinâ€Film Transistors. Advanced Functional Materials, 2017, 27, 1604447.	14.9	147
36	Selective Dispersion of Largeâ€Diameter Semiconducting Carbon Nanotubes by Functionalized Conjugated Dendritic Oligothiophenes for Use in Printed Thin Film Transistors. Advanced Functional Materials, 2017, 27, 1703938.	14.9	22

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37	Synthesis, Crystal Analyses, Physical Properties, and Electroluminescent Behavior of Unsymmetrical Heterotwistacenes. ACS Applied Materials & Interfaces, 2016, 8, 18998-19003.	8.0	33
38	Flexible CMOSâ€Like Circuits Based on Printed Pâ€Type and Nâ€Type Carbon Nanotube Thinâ€Film Transistors. Small, 2016, 12, 5066-5073.	10.0	51
39	Printed thin-film transistors and circuits based on sorted semiconducting single-walled carbon nanotubes. , 2016, , .		0
40	Printed thin-film transistors and NO2 gas sensors based on sorted semiconducting carbon nanotubes by isoindigo-based copolymer. Carbon, 2016, 108, 372-380.	10.3	70
41	Printed thin film transistors and CMOS inverters based on semiconducting carbon nanotube ink purified by a nonlinear conjugated copolymer. Nanoscale, 2016, 8, 4588-4598.	5.6	44
42	Twistacene functionalized anthracenes with high-efficiency blue fluorescence. Dyes and Pigments, 2016, 125, 356-361.	3.7	11
43	Sorting semiconducting single walled carbon nanotubes by poly(9,9-dioctylfluorene) derivatives and application for ammonia gas sensing. Carbon, 2015, 94, 903-910.	10.3	36
44	Synthesis, characterization and photocurrent behavior of asymmetrical heterotwistacenes. Dyes and Pigments, 2015, 115, 143-148.	3.7	15
45	Substituent effects in twisted dibenzotetracene derivatives: Blue emitting materials for organic light-emitting diodes. Dyes and Pigments, 2015, 112, 176-182.	3.7	39
46	Selective silencing of the electrical properties of metallic single-walled carbon nanotubes by 4-nitrobenzenediazonium tetrafluoroborate. Journal of Materials Science, 2014, 49, 2054-2062.	3.7	11
47	Synthesis, Crystal Structures, Optical Properties, and Photocurrent Response of Heteroacene Derivatives. Chemistry - an Asian Journal, 2014, 9, 1943-1949.	3.3	16
48	Sorting of large-diameter semiconducting carbon nanotube and printed flexible driving circuit for organic light emitting diode (OLED). Nanoscale, 2014, 6, 1589-1595.	5.6	107
49	Flexible logic circuits based on top-gate thin film transistors with printed semiconductor carbon nanotubes and top electrodes. Nanoscale, 2014, 6, 14891-14897.	5.6	72
50	Effect of Surface Wettability Properties on the Electrical Properties of Printed Carbon Nanotube Thin-Film Transistors on SiO₂/Si Substrates. ACS Applied Materials & Interfaces, 2014, 6, 9997-10004.	8.0	55
51	Electrical and Photoresponse Properties of Printed Thin-Film Transistors Based on Poly(9,9-dioctylfluorene-co-bithiophene) Sorted Large-Diameter Semiconducting Carbon Nanotubes. Journal of Physical Chemistry C, 2013, 117, 18243-18250.	3.1	76
52	High performance thin film transistors based on regioregular poly(3-dodecylthiophene)-sorted large diameter semiconducting single-walled carbon nanotubes. Nanoscale, 2013, 5, 4156.	5.6	49
53	Printed thin-film transistors with functionalized single-walled carbon nanotube inks. Journal of Materials Chemistry, 2012, 22, 2051-2056.	6.7	39
54	Fabrication and electrical properties of all-printed carbon nanotube thin film transistors on flexible substrates. Journal of Materials Chemistry, 2012, 22, 20747.	6.7	41

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55	Printed carbon nanotube devices and their applications. , 2012, , .		2
56	Mobility Enhancement in Carbon Nanotube Transistors by Screening Charge Impurity with Silica Nanoparticles. Journal of Physical Chemistry C, 2011, 115, 6975-6979.	3.1	15
57	High yield fabrication of semiconducting thin-film field-effect transistors based on chemically functionalized single-walled carbon nanotubes. Science China Chemistry, 2011, 54, 1484-1490.	8.2	5
58	Surface-Enhanced Raman Scattering of 4-Aminothiophenol Adsorbed on Silver Nanosheets Deposited onto Cubic Boron Nitride Films. Analytical Sciences, 2010, 26, 957-961.	1.6	9
59	Preparation of grain size controlled boron-doped diamond thin films and their applications in selective detection of glucose in basic solutions. Science China Chemistry, 2010, 53, 1378-1384.	8.2	12
60	Selective Synthesis of (9,8) Single Walled Carbon Nanotubes on Cobalt Incorporated TUD-1 Catalysts. Journal of the American Chemical Society, 2010, 132, 16747-16749.	13.7	119
61	Ultra-large single-layer graphene obtained from solution chemical reduction and its electrical properties. Physical Chemistry Chemical Physics, 2010, 12, 2164.	2.8	176
62	Highly Efficient Restoration of Graphitic Structure in Graphene Oxide Using Alcohol Vapors. ACS Nano, 2010, 4, 5285-5292.	14.6	242
63	A novel tyrosinase biosensor based on biofunctional ZnO nanorod microarrays on the nanocrystalline diamond electrode for detection of phenolic compounds. Bioelectrochemistry, 2009, 75, 44-49.	4.6	107
64	A direct electrochemical method for diabetes diagnosis based on as-prepared boron-doped nanocrystalline diamond thin film electrodes. Journal of Electroanalytical Chemistry, 2009, 626, 98-102.	3.8	16
65	Non-enzymatic glucose detection using as-prepared boron-doped diamond thin-film electrodes. Analyst, The, 2009, 134, 794.	3.5	37
66	Solution-processable semiconducting thin-film transistors using single-walled carbon nanotubes chemically modified by organic radical initiators. Chemical Communications, 2009, , 7182.	4.1	33
67	Electrical and Spectroscopic Characterizations of Ultra-Large Reduced Graphene Oxide Monolayers. Chemistry of Materials, 2009, 21, 5674-5680.	6.7	476
68	A Tyrosinase Biosensor Based on ZnO Nanorod Clusters/ Nanocrystalline Diamond Electrodes for Biosensing of Phenolic Compounds. Analytical Sciences, 2009, 25, 1083-1088.	1.6	20
69	Electroless deposition of copper and fabrication of copper micropatterns on CVD diamond film surfaces. Applied Surface Science, 2008, 254, 3282-3287.	6.1	10
70	Deposition of silver nanoleaf film onto chemical vapor deposited diamond substrate and its application in surface-enhanced Raman scattering. Thin Solid Films, 2008, 516, 4047-4052.	1.8	12
71	Fabrication of micropatterned ZnO/SiO2 core/shell nanorod arrays on a nanocrystalline diamond film and their application to DNA hybridization detection. Journal of Materials Chemistry, 2008, 18, 2459.	6.7	45
72	Rapidly determining E. coli and P. aeruginosa by an eight channels bulk acoustic wave impedance physical biosensor. Sensors and Actuators B: Chemical, 2005, 107, 271-276.	7.8	18

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73	Simultaneous determinations of paeonol and palmatine hydrochloride in Shangshi Aerosols by HPLC method. Journal of Pharmaceutical and Biomedical Analysis, 2005, 38, 571-575.	2.8	9
74	Development of a Validated HPLC Method for Analysis of Astragaloside II, Paeonol, and Osthole in Snake Wine. Chromatographia, 2005, 62, 543-546.	1.3	2
75	A rapid method for determining Mycobacterium tuberculosis based on a bulk acoustic wave impedance biosensor. Talanta, 2003, 59, 935-941.	5.5	39
76	A TSM immunosensor for detection of M. tuberculosis with a new membrane material. Sensors and Actuators B: Chemical, 2002, 85, 284-290.	7.8	29