

Jianwen

List of Publications by Year in descending order

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76
papers

3,098
citations

172457

29
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161849

54
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all docs

77
docs citations

77
times ranked

4193
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrical and Spectroscopic Characterizations of Ultra-Large Reduced Graphene Oxide Monolayers. <i>Chemistry of Materials</i> , 2009, 21, 5674-5680.	6.7	476
2	Highly Efficient Restoration of Graphitic Structure in Graphene Oxide Using Alcohol Vapors. <i>ACS Nano</i> , 2010, 4, 5285-5292.	14.6	242
3	Ultra-large single-layer graphene obtained from solution chemical reduction and its electrical properties. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 2164.	2.8	176
4	Printed Neuromorphic Devices Based on Printed Carbon Nanotube Thin-Film Transistors. <i>Advanced Functional Materials</i> , 2017, 27, 1604447.	14.9	147
5	Selective Synthesis of (9,8) Single Walled Carbon Nanotubes on Cobalt Incorporated TUD-1 Catalysts. <i>Journal of the American Chemical Society</i> , 2010, 132, 16747-16749.	13.7	119
6	A novel tyrosinase biosensor based on biofunctional ZnO nanorod microarrays on the nanocrystalline diamond electrode for detection of phenolic compounds. <i>Bioelectrochemistry</i> , 2009, 75, 44-49.	4.6	107
7	Sorting of large-diameter semiconducting carbon nanotube and printed flexible driving circuit for organic light emitting diode (OLED). <i>Nanoscale</i> , 2014, 6, 1589-1595.	5.6	107
8	Photoresponsive Transistors Based on Lead-Free Perovskite and Carbon Nanotubes. <i>Advanced Functional Materials</i> , 2020, 30, 1906335.	14.9	84
9	Optoelectronic Properties of Printed Photogating Carbon Nanotube Thin Film Transistors and Their Application for Light-Stimulated Neuromorphic Devices. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12161-12169.	8.0	80
10	Electrical and Photoresponse Properties of Printed Thin-Film Transistors Based on Poly(9,9-dioctylfluorene-co-bithiophene) Sorted Large-Diameter Semiconducting Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2013, 117, 18243-18250.	3.1	76
11	Flexible logic circuits based on top-gate thin film transistors with printed semiconductor carbon nanotubes and top electrodes. <i>Nanoscale</i> , 2014, 6, 14891-14897.	5.6	72
12	Printed thin-film transistors and NO ₂ gas sensors based on sorted semiconducting carbon nanotubes by isoindigo-based copolymer. <i>Carbon</i> , 2016, 108, 372-380.	10.3	70
13	Effect of Surface Wettability Properties on the Electrical Properties of Printed Carbon Nanotube Thin-Film Transistors on SiO ₂ /Si Substrates. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 9997-10004.	8.0	55
14	Radiation-hardened and repairable integrated circuits based on carbon nanotube transistors with ion gel gates. <i>Nature Electronics</i> , 2020, 3, 622-629.	26.0	53
15	Flexible CMOS-Like Circuits Based on Printed P-type and N-type Carbon Nanotube Thin-Film Transistors. <i>Small</i> , 2016, 12, 5066-5073.	10.0	51
16	High performance thin film transistors based on regioregular poly(3-dodecylthiophene)-sorted large diameter semiconducting single-walled carbon nanotubes. <i>Nanoscale</i> , 2013, 5, 4156.	5.6	49
17	Fabrication of micropatterned ZnO/SiO ₂ core/shell nanorod arrays on a nanocrystalline diamond film and their application to DNA hybridization detection. <i>Journal of Materials Chemistry</i> , 2008, 18, 2459.	6.7	45
18	Printed thin film transistors and CMOS inverters based on semiconducting carbon nanotube ink purified by a nonlinear conjugated copolymer. <i>Nanoscale</i> , 2016, 8, 4588-4598.	5.6	44

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19	Fabrication and electrical properties of all-printed carbon nanotube thin film transistors on flexible substrates. <i>Journal of Materials Chemistry</i> , 2012, 22, 20747.	6.7	41
20	Selective Conversion from p-Type to n-Type of Printed Bottom-Gate Carbon Nanotube Thin-Film Transistors and Application in Complementary Metal-Oxide Semiconductor Inverters. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 12750-12758.	8.0	41
21	Large-Area Flexible Printed Thin-Film Transistors with Semiconducting Single-Walled Carbon Nanotubes for NO ₂ Sensors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51797-51807.	8.0	41
22	A rapid method for determining Mycobacterium tuberculosis based on a bulk acoustic wave impedance biosensor. <i>Talanta</i> , 2003, 59, 935-941.	5.5	39
23	Printed thin-film transistors with functionalized single-walled carbon nanotube inks. <i>Journal of Materials Chemistry</i> , 2012, 22, 2051-2056.	6.7	39
24	Substituent effects in twisted dibenzotetracene derivatives: Blue emitting materials for organic light-emitting diodes. <i>Dyes and Pigments</i> , 2015, 112, 176-182.	3.7	39
25	Non-enzymatic glucose detection using as-prepared boron-doped diamond thin-film electrodes. <i>Analyst</i> , 2009, 134, 794.	3.5	37
26	Sorting semiconducting single walled carbon nanotubes by poly(9,9-dioctylfluorene) derivatives and application for ammonia gas sensing. <i>Carbon</i> , 2015, 94, 903-910.	10.3	36
27	Multimodal optoelectronic neuromorphic electronics based on lead-free perovskite-mixed carbon nanotubes. <i>Carbon</i> , 2021, 176, 592-601.	10.3	35
28	Solution-processable semiconducting thin-film transistors using single-walled carbon nanotubes chemically modified by organic radical initiators. <i>Chemical Communications</i> , 2009, , 7182.	4.1	33
29	Synthesis, Crystal Analyses, Physical Properties, and Electroluminescent Behavior of Unsymmetrical Heterotwistacenes. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 18998-19003.	8.0	33
30	High-performance metal-oxide thin-film transistors based on inkjet-printed self-confined bilayer heterojunction channels. <i>Journal of Materials Chemistry C</i> , 2019, 7, 6169-6177.	5.5	31
31	Air-stable N-type printed carbon nanotube thin film transistors for CMOS logic circuits. <i>Carbon</i> , 2020, 163, 145-153.	10.3	31
32	Ambipolar Deep-Subthreshold Printed-Carbon-Nanotube Transistors for Ultralow-Voltage and Ultralow-Power Electronics. <i>ACS Nano</i> , 2020, 14, 14036-14046.	14.6	30
33	A TSM immunosensor for detection of M. tuberculosis with a new membrane material. <i>Sensors and Actuators B: Chemical</i> , 2002, 85, 284-290.	7.8	29
34	Overcoming Electrochemical Instabilities of Printed Silver Electrodes in All-Printed Ion Gel Gated Carbon Nanotube Thin-Film Transistors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 41531-41543.	8.0	27
35	Flexible integrated diode-transistor logic (DTL) driving circuits based on printed carbon nanotube thin film transistors with low operation voltage. <i>Nanoscale</i> , 2018, 10, 614-622.	5.6	23
36	Selective Dispersion of Large-Diameter Semiconducting Carbon Nanotubes by Functionalized Conjugated Dendritic Oligothiophenes for Use in Printed Thin Film Transistors. <i>Advanced Functional Materials</i> , 2017, 27, 1703938.	14.9	22

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37	Polarity tuning of carbon nanotube transistors by chemical doping for printed flexible complementary metal-oxide semiconductor (CMOS)-like inverters. <i>Carbon</i> , 2019, 147, 566-573.	10.3	22
38	High-performance flexible fully-printed all-carbon thin film transistors and ultrasensitive NH ₃ sensors. <i>Journal of Materials Chemistry C</i> , 2021, 9, 2133-2144.	5.5	21
39	Printed solid state electrolyte carbon nanotube thin film transistors for sub-1 V fully printed flexible CMOS inverters. <i>Journal of Materials Chemistry C</i> , 2021, 9, 6852-6862.	5.5	21
40	A Tyrosinase Biosensor Based on ZnO Nanorod Clusters/ Nanocrystalline Diamond Electrodes for Biosensing of Phenolic Compounds. <i>Analytical Sciences</i> , 2009, 25, 1083-1088.	1.6	20
41	Rapidly determining <i>E. coli</i> and <i>P. aeruginosa</i> by an eight channels bulk acoustic wave impedance physical biosensor. <i>Sensors and Actuators B: Chemical</i> , 2005, 107, 271-276.	7.8	18
42	A Universal Method for High Efficiency Immobilization of Semiconducting Carbon Nanotubes toward Fully Printed Paper-Based Electronics. <i>Advanced Electronic Materials</i> , 2021, 7, 2001025.	5.1	18
43	Highly flexible printed carbon nanotube thin film transistors using cross-linked poly(4-vinylphenol) as the gate dielectric and application for photosensitive light-emitting diode circuit. <i>Carbon</i> , 2018, 133, 390-397.	10.3	17
44	A direct electrochemical method for diabetes diagnosis based on as-prepared boron-doped nanocrystalline diamond thin film electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2009, 626, 98-102.	3.8	16
45	Synthesis, Crystal Structures, Optical Properties, and Photocurrent Response of Heteroacene Derivatives. <i>Chemistry - an Asian Journal</i> , 2014, 9, 1943-1949.	3.3	16
46	Flexible printed single-walled carbon nanotubes olfactory synaptic transistors with crosslinked poly(4-vinylphenol) as dielectrics. <i>Flexible and Printed Electronics</i> , 2021, 6, 034001.	2.7	16
47	Highly sensitive and selective H ₂ S sensors with ultra-low power consumption based on flexible printed carbon-nanotube-thin-film-transistors. <i>Sensors and Actuators B: Chemical</i> , 2022, 360, 131633.	7.8	16
48	Mobility Enhancement in Carbon Nanotube Transistors by Screening Charge Impurity with Silica Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6975-6979.	3.1	15
49	Synthesis, characterization and photocurrent behavior of asymmetrical heterotwistacenes. <i>Dyes and Pigments</i> , 2015, 115, 143-148.	3.7	15
50	High-Resolution Inkjet-Printed Oxide Thin-Film Transistors with a Self-Aligned Fine Channel Bank Structure. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15847-15854.	8.0	14
51	Radiation-Hard and Repairable Complementary Metal-Oxide Semiconductor Circuits Integrating n-type Indium Oxide and p-type Carbon Nanotube Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 49963-49970.	8.0	14
52	Printed carbon nanotube thin film transistors based on perhydropolysilazane-derived dielectrics for low power flexible electronics. <i>Carbon</i> , 2022, 191, 267-276.	10.3	14
53	Large-area (64 Å– 64 array) inkjet-printed high-performance metal oxide bilayer heterojunction thin film transistors and n-metal-oxide-semiconductor (NMOS) inverters. <i>Journal of Materials Science and Technology</i> , 2021, 81, 26-35.	10.7	13
54	Deposition of silver nanoleaf film onto chemical vapor deposited diamond substrate and its application in surface-enhanced Raman scattering. <i>Thin Solid Films</i> , 2008, 516, 4047-4052.	1.8	12

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55	Preparation of grain size controlled boron-doped diamond thin films and their applications in selective detection of glucose in basic solutions. <i>Science China Chemistry</i> , 2010, 53, 1378-1384.	8.2	12
56	Selective silencing of the electrical properties of metallic single-walled carbon nanotubes by 4-nitrobenzenediazonium tetrafluoroborate. <i>Journal of Materials Science</i> , 2014, 49, 2054-2062.	3.7	11
57	Twistacene functionalized anthracenes with high-efficiency blue fluorescence. <i>Dyes and Pigments</i> , 2016, 125, 356-361.	3.7	11
58	High-performance Partially Printed Hybrid CMOS Inverters Based on Indium Zinc Oxide and Chirality Enriched Carbon Nanotube Thin Film Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1900034.	5.1	11
59	Optically and electrically modulated printed carbon nanotube synaptic transistors with a single input terminal and multi-functional output characteristics. <i>Journal of Materials Chemistry C</i> , 2020, 8, 6914-6922.	5.5	11
60	Electroless deposition of copper and fabrication of copper micropatterns on CVD diamond film surfaces. <i>Applied Surface Science</i> , 2008, 254, 3282-3287.	6.1	10
61	Ambipolar carbon nanotube transistors with hybrid nanodielectric for low-voltage CMOS-like electronics. <i>Nano Futures</i> , 2021, 5, 025001.	2.2	10
62	Simultaneous determinations of paeonol and palmatine hydrochloride in Shangshi Aerosols by HPLC method. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 38, 571-575.	2.8	9
63	Surface-Enhanced Raman Scattering of 4-Aminothiophenol Adsorbed on Silver Nanosheets Deposited onto Cubic Boron Nitride Films. <i>Analytical Sciences</i> , 2010, 26, 957-961.	1.6	9
64	Layer-by-Layer Printing Strategy for High-performance Flexible Electronic Devices with Low-Temperature Catalyzed Solution-Processed SiO ₂ . <i>Small Methods</i> , 2021, 5, 2100263.	8.6	8
65	Preparation of large-area, high-performance single-walled carbon nanotube (SWCNT)-based heater films by roll-to-roll gravure printing. <i>Flexible and Printed Electronics</i> , 2022, 7, 015007.	2.7	7
66	Printed thin film transistors with 108 on/off ratios and photoelectrical synergistic characteristics using isoindigo-based polymers-enriched (9,8) carbon nanotubes. <i>Nano Research</i> , 2022, 15, 5517-5526.	10.4	7
67	Fabrication and electrical properties of printed three-dimensional integrated carbon nanotube PMOS inverters on flexible substrates. <i>Nanoscale</i> , 2022, 14, 4679-4689.	5.6	6
68	High yield fabrication of semiconducting thin-film field-effect transistors based on chemically functionalized single-walled carbon nanotubes. <i>Science China Chemistry</i> , 2011, 54, 1484-1490.	8.2	5
69	Monolithic Heterogeneous Integration of BEOL Power Gating Transistors of Carbon Nanotube Networks with FEOL Si Ring Oscillator Circuits. , 2019, , .		5
70	Development of a Validated HPLC Method for Analysis of Astragaloside II, Paeonol, and Osthole in Snake Wine. <i>Chromatographia</i> , 2005, 62, 543-546.	1.3	2
71	Printed carbon nanotube devices and their applications. , 2012, , .		2
72	66 th : Printed Carbon Nanotube Thin Film Transistors and Application in OLED Backplane Circuits. <i>Digest of Technical Papers SID International Symposium</i> , 2017, 48, 968-971.	0.3	2

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73	Printed thin-film transistors and circuits based on sorted semiconducting single-walled carbon nanotubes. , 2016, , .		0
74	43.1: <i>Invited Paper:</i> Largeâ€œarea and highâ€œperformance 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
75	Room-temperature printing of CNTs-based flexible TFTs with high performance. , 2019, , .		0
76	Layerâ€œbyâ€œLayer Printing Strategy for Highâ€œPerformance Flexible Electronic Devices with Lowâ€œTemperature Catalyzed Solutionâ€œProcessed SiO₂ (Small Methods 8/2021). Small Methods, 2021, 5, 2170038.	8.6	0