Dacheng Wei

List of Publications by Year
in descending order

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74	6,612	147801	71685
papers	citations	31 h-index	76 g-index

77	77	77	10193
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Epitaxial etching of organic single crystals. Chinese Chemical Letters, 2022, 33, 533-536.	9.0	3
2	Olefin-linked covalent organic frameworks with twisted tertiary amine knots for enhanced ultraviolet detection. Chinese Chemical Letters, 2022, 33, 2621-2624.	9.0	7
3	<scp>Twoâ€Dimensional Metalâ€Organic</scp> Frameworks and Covalent Organic Frameworks. Chinese Journal of Chemistry, 2022, 40, 1359-1385.	4.9	31
4	Flexible force sensitive frequency reconfigurable antenna base on stretchable conductive fabric. Journal Physics D: Applied Physics, 2022, 55, 195301.	2.8	5
5	Rapid and ultrasensitive electromechanical detection of ions, biomolecules and SARS-CoV-2 RNA in unamplified samples. Nature Biomedical Engineering, 2022, 6, 276-285.	22.5	153
6	Ultra-Fast Synthesis of Single-Crystalline Three-Dimensional Covalent Organic Frameworks and Their Applications in Polarized Optics. Chemistry of Materials, 2022, 34, 2886-2895.	6.7	12
7	Two-Dimensional Field-Effect Transistor Sensors: The Road toward Commercialization. Chemical Reviews, 2022, 122, 10319-10392.	47.7	89
8	Triple-Probe DNA Framework-Based Transistor for SARS-CoV-2 10-in-1 Pooled Testing. Nano Letters, 2022, 22, 3307-3316.	9.1	24
9	Self-Expanding Molten Salt-Driven Growth of Patterned Transition-Metal Dichalcogenide Crystals. Journal of the American Chemical Society, 2022, 144, 8746-8755.	13.7	15
10	Microconformal electrode-dielectric integration for flexible ultrasensitive robotic tactile sensing. Nano Energy, 2021, 80, 105580.	16.0	63
11	Short-wavelength ultraviolet dosimeters based on DNA nanostructure-modified graphene field-effect transistors. Chemical Communications, 2021, 57, 5071-5074.	4.1	6
12	Plasma-Enhanced Chemical Vapor Deposition of Two-Dimensional Materials for Applications. Accounts of Chemical Research, 2021, 54, 1011-1022.	15.6	63
13	Colossal Terahertz Photoresponse at Room Temperature: A Signature of Type-II Dirac Fermiology. ACS Nano, 2021, 15, 5138-5146.	14.6	17
14	A comprehensive nano-interpenetrating semiconducting photoresist toward all-photolithography organic electronics. Science Advances, 2021, 7, .	10.3	31
15	Ultra-fast single-crystal polymerization of large-sized covalent organic frameworks. Nature Communications, 2021, 12, 5077.	12.8	63
16	Ultrasensitive Detection of SARS-CoV-2 Antibody by Graphene Field-Effect Transistors. Nano Letters, 2021, 21, 7897-7904.	9.1	64
17	Shapeâ€Engineerable Silk Fibroin Papers for Ideal Substrate Alternatives of Plastic Electronics. Advanced Functional Materials, 2021, 31, 2104088.	14.9	18
18	High-performance mid-infrared photodetection based on Bi₂Se₃ maze and free-standing nanoplates. Nanotechnology, 2021, 32, 105705.	2.6	9

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19	Direct SARS-CoV-2 Nucleic Acid Detection by Y-Shaped DNA Dual-Probe Transistor Assay. Journal of the American Chemical Society, 2021, 143, 17004-17014.	13.7	79
20	Rapid SARS-CoV-2 Nucleic Acid Testing and Pooled Assay by Tetrahedral DNA Nanostructure Transistor. Nano Letters, 2021, 21, 9450-9457.	9.1	33
21	Ultraprecise Antigen 10-in-1 Pool Testing by Multiantibodies Transistor Assay. Journal of the American Chemical Society, 2021, 143, 19794-19801.	13.7	48
22	Shapeâ€Engineerable Silk Fibroin Papers for Ideal Substrate Alternatives of Plastic Electronics (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	14.9	3
23	Graphene plasmonic nanoresonators/graphene heterostructures for efficient room-temperature infrared photodetection. Journal of Semiconductors, 2020, 41, 072907.	3.7	9
24	Anisotropic ultrasensitive PdTe ₂ -based phototransistor for room-temperature long-wavelength detection. Science Advances, 2020, 6, .	10.3	74
25	Self-Controlled Growth of Covalent Organic Frameworks by Repolymerization. Chemistry of Materials, 2020, 32, 5634-5640.	6.7	37
26	Graphene Fieldâ€Effect Transistors on Hexagonalâ€Boron Nitride for Enhanced Interfacial Thermal Dissipation. Advanced Electronic Materials, 2020, 6, 2000059.	5.1	8
27	Antifouling Fieldâ€Effect Transistor Sensing Interface Based on Covalent Organic Frameworks. Advanced Electronic Materials, 2020, 6, 1901169.	5.1	26
28	Catalyst-Free Growth of Two-Dimensional BC_xN Materials on Dielectrics by Temperature-Dependent Plasma-Enhanced Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2020, 12, 33113-33120.	8.0	15
29	Strain-Sensitive Fluorescence from Two-Dimensional Organic Crystal. Journal of Physical Chemistry Letters, 2020, 11, 1909-1914.	4.6	6
30	Broadband InSb/Si heterojunction photodetector with graphene transparent electrode. Nanotechnology, 2020, 31, 315204.	2.6	22
31	Synthesis of large-area uniform Si₂Te₃ thin films for p-type electronic devices. Nanoscale, 2020, 12, 11242-11250.	5.6	8
32	Highly stable all-in-one photoelectrochemical electrodes based on carbon nanowalls. Nanotechnology, 2020, 31, 335401.	2.6	2
33	Innerâ€Evaporator Modification of Lowâ€Cost Metal Electrodes of Organic Fieldâ€Effect Transistors by 2D Polyporphyrin. Advanced Electronic Materials, 2019, 5, 1900447.	5.1	4
34	Nanoscale thermal mapping of few-layer organic crystals. CrystEngComm, 2019, 21, 5402-5409.	2.6	5
35	A two-dimensional cross-linked polythiophene network. Journal of Materials Chemistry C, 2019, 7, 9362-9368.	5.5	8
36	Distinctive Performance of Terahertz Photodetection Driven by Chargeâ€Densityâ€Wave Order in CVDâ€Grown Tantalum Diselenide. Advanced Functional Materials, 2019, 29, 1905057.	14.9	13

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37	Surface Catalytic Modification of Conjugated Polymer on Lowâ€Cost Bottom Contact for Improved Injection Efficiency of Organic Transistors. Advanced Electronic Materials, 2019, 5, 1900028.	5.1	1
38	Nitrogen Doped Carbons Derived From Graphene Aerogel Templated Triazine-Based Conjugated Microporous Polymers for High-Performance Supercapacitors. Frontiers in Chemistry, 2019, 7, 142.	3.6	5
39	Conformal hexagonal-boron nitride dielectric interface for tungsten diselenide devices with improved mobility and thermal dissipation. Nature Communications, 2019, 10, 1188.	12.8	71
40	Free radical sensors based on inner-cutting graphene field-effect transistors. Nature Communications, 2019, 10, 1544.	12.8	85
41	Two-dimensional self-healing hydrogen-bond-based supramolecular polymer film. Chinese Chemical Letters, 2019, 30, 961-965.	9.0	14
42	Enhanced photoelectrical response of thermodynamically epitaxial organic crystals at the two-dimensional limit. Nature Communications, 2019, 10, 756.	12.8	71
43	Towards sensitive terahertz detection via thermoelectric manipulation using graphene transistors. NPG Asia Materials, 2018, 10, 318-327.	7.9	31
44	Raman enhancement on ultra-clean graphene quantum dots produced by quasi-equilibrium plasma-enhanced chemical vapor deposition. Nature Communications, 2018, 9, 193.	12.8	117
45	Roomâ€Temperature Highâ€Gain Longâ€Wavelength Photodetector via Opticalâ€“Electrical Controlling of Hot Carriers in Graphene. Advanced Optical Materials, 2018, 6, 1800836.	7.3	28
46	Hydrogen-bonding-directed helical nanofibers in a polythiophene-based all-conjugated diblock copolymer. Soft Matter, 2018, 14, 5906-5912.	2.7	13
47	Large photoelectric-gating effect of two-dimensional van-der-Waals organic/tungsten diselenide heterointerface. Npj 2D Materials and Applications, 2018, 2, .	7.9	28
48	Abnormal n-type doping effect in nitrogen-doped tungsten diselenide prepared by moderate ammonia plasma treatment. Nano Research, 2018, 11, 4923-4930.	10.4	27
49	Solvent-Free Process to Produce Three Dimensional Graphene Network with High Electrochemical Stability. Journal of Physical Chemistry C, 2017, 121, 3062-3069.	3.1	16
50	Hierarchical graphene foam-based phase change materials with enhanced thermal conductivity and shape stability for efficient solar-to-thermal energy conversion and storage. Nano Research, 2017, 10, 802-813.	10.4	206
51	Photo-switchable field-effect transistors based on two-dimensional stilbene oligomer crystals. Journal of Materials Chemistry C, 2017, 5, 9597-9601.	5.5	19
52	Hemin/Au nanorods/self-doped TiO2nanowires as a novel photoelectrochemical bioanalysis platform. Analyst, The, 2017, 142, 2805-2811.	3.5	8
53	Hierarchical Porous Carbon Materials Derived from Sheep Manure for Highâ€Capacity Supercapacitors. ChemSusChem, 2016, 9, 932-937.	6.8	63
54	Direct growth of nanographene at low temperature from carbon black for highly sensitive temperature detectors. Nanotechnology, 2016, 27, 505603.	2.6	10

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55	Direct Growth of Graphene Films on 3D Grating Structural Quartz Substrates for High-Performance Pressure-Sensitive Sensors. ACS Applied Materials & Interfaces, 2016, 8, 16869-16875.	8.0	35
56	Low Temperature Critical Growth of High Quality Nitrogen Doped Graphene on Dielectrics by Plasma-Enhanced Chemical Vapor Deposition. ACS Nano, 2015, 9, 164-171.	14.6	125
57	Tunable optical absorption and interactions in graphene via oxygen plasma. Physical Review B, 2014, 89, .	3.2	42
58	Critical Crystal Growth of Graphene on Dielectric Substrates at Low Temperature for Electronic Devices. Angewandte Chemie - International Edition, 2013, 52, 14121-14126.	13.8	125
59	Controllable Chemical Vapor Deposition Growth of Few Layer Graphene for Electronic Devices. Accounts of Chemical Research, 2013, 46, 106-115.	15.6	88
60	Controllable unzipping for intramolecular junctions of graphene nanoribbons and single-walled carbon nanotubes. Nature Communications, 2013, 4, 1374.	12.8	125
61	Controllable Synthesis of Graphene and Its Applications. Advanced Materials, 2010, 22, 3225-3241.	21.0	375
62	A Generalized Method for Evaluating the Metallic-to-Semiconducting Ratio of Separated Single-Walled Carbon Nanotubes by UVâˆ'visâˆ'NIR Characterization. Journal of Physical Chemistry C, 2010, 114, 12095-12098.	3.1	24
63	Fabrication and characterization of molecular scale field-effect transistors. Journal of Materials Chemistry, 2010, 20, 2305.	6.7	16
64	Minimizing purification-induced defects in single-walled carbon nanotubes gives films with improved conductivity. Nano Research, 2009, 2, 865.	10.4	13
65	Synthesis of N-Doped Graphene by Chemical Vapor Deposition and Its Electrical Properties. Nano Letters, 2009, 9, 1752-1758.	9.1	2,822
66	Scalable Synthesis of Few-Layer Graphene Ribbons with Controlled Morphologies by a Template Method and Their Applications in Nanoelectromechanical Switches. Journal of the American Chemical Society, 2009, 131, 11147-11154.	13.7	214
67	Patterned Graphene as Source/Drain Electrodes for Bottomâ€Contact Organic Fieldâ€Effect Transistors. Advanced Materials, 2008, 20, 3289-3293.	21.0	373
68	The Intramolecular Junctions of Carbon Nanotubes. Advanced Materials, 2008, 20, 2815-2841.	21.0	126
69	Inside Front Cover: The Intramolecular Junctions of Carbon Nanotubes (Adv. Mater. 15/2008). Advanced Materials, 2008, 20, NA-NA.	21.0	0
70	Real Time and in Situ Control of the Gap Size of Nanoelectrodes for Molecular Devices. Nano Letters, 2008, 8, 1625-1630.	9.1	50
71	Nanophotoswitches with a high on/off ratio based on a structure of indium tin oxide/organic insulator/metal. Applied Physics Letters, 2008, 92, 043302.	3.3	5
72	Synthesis and Device Integration of Carbon Nanotube/Silica Coreâˆ'Shell Nanowires. Journal of Physical Chemistry C, 2007, 111, 7661-7665.	3.1	19

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73	A Magnetism-Assisted Chemical Vapor Deposition Method To Produce Branched or Iron-Encapsulated Carbon Nanotubes. Journal of the American Chemical Society, 2007, 129, 7364-7368.	13.7	37
74	A New Method to Synthesize Complicated Multibranched Carbon Nanotubes with Controlled Architecture and Composition. Nano Letters, 2006, 6, 186-192.	9.1	93