

# Dacheng Wei

## List of Publications by Year in descending order

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74  
papers

6,612  
citations

147566

31  
h-index

71532

76  
g-index

77  
all docs

77  
docs citations

77  
times ranked

10193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Epitaxial etching of organic single crystals. Chinese Chemical Letters, 2022, 33, 533-536.	4.8	3
2	Olefin-linked covalent organic frameworks with twisted tertiary amine knots for enhanced ultraviolet detection. Chinese Chemical Letters, 2022, 33, 2621-2624.	4.8	7
3	<sc>Twoâ€Dimensional Metalâ€Organic</sc> Frameworks and Covalent Organic Frameworks. Chinese Journal of Chemistry, 2022, 40, 1359-1385.	2.6	31
4	Flexible force sensitive frequency reconfigurable antenna base on stretchable conductive fabric. Journal Physics D: Applied Physics, 2022, 55, 195301.	1.3	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.	11.6	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.	3.2	12
7	Two-Dimensional Field-Effect Transistor Sensors: The Road toward Commercialization. Chemical Reviews, 2022, 122, 10319-10392.	23.0	89
8	Triple-Probe DNA Framework-Based Transistor for SARS-CoV-2 10-in-1 Pooled Testing. Nano Letters, 2022, 22, 3307-3316.	4.5	24
9	Self-Expanding Molten Salt-Driven Growth of Patterned Transition-Metal Dichalcogenide Crystals. Journal of the American Chemical Society, 2022, 144, 8746-8755.	6.6	15
10	Microconformal electrode-dielectric integration for flexible ultrasensitive robotic tactile sensing. Nano Energy, 2021, 80, 105580.	8.2	63
11	Short-wavelength ultraviolet dosimeters based on DNA nanostructure-modified graphene field-effect transistors. Chemical Communications, 2021, 57, 5071-5074.	2.2	6
12	Plasma-Enhanced Chemical Vapor Deposition of Two-Dimensional Materials for Applications. Accounts of Chemical Research, 2021, 54, 1011-1022.	7.6	63
13	Colossal Terahertz Photoresponse at Room Temperature: A Signature of Type-II Dirac Fermiology. ACS Nano, 2021, 15, 5138-5146.	7.3	17
14	A comprehensive nano-interpenetrating semiconducting photoresist toward all-photolithography organic electronics. Science Advances, 2021, 7, .	4.7	31
15	Ultra-fast single-crystal polymerization of large-sized covalent organic frameworks. Nature Communications, 2021, 12, 5077.	5.8	63
16	Ultrasensitive Detection of SARS-CoV-2 Antibody by Graphene Field-Effect Transistors. Nano Letters, 2021, 21, 7897-7904.	4.5	64
17	Shapeâ€Engineerable Silk Fibroin Papers for Ideal Substrate Alternatives of Plastic Electronics. Advanced Functional Materials, 2021, 31, 2104088.	7.8	18
18	High-performance mid-infrared photodetection based on Bi<sub>2</sub>Se<sub>3</sub> maze and free-standing nanoplates. Nanotechnology, 2021, 32, 105705.	1.3	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.	6.6	79
20	Rapid SARS-CoV-2 Nucleic Acid Testing and Pooled Assay by Tetrahedral DNA Nanostructure Transistor. Nano Letters, 2021, 21, 9450-9457.	4.5	33
21	Ultraprecise Antigen 10-in-1 Pool Testing by Multiantibodies Transistor Assay. Journal of the American Chemical Society, 2021, 143, 19794-19801.	6.6	48
22	Shape-Engineerable Silk Fibroin Papers for Ideal Substrate Alternatives of Plastic Electronics (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	7.8	3
23	Graphene plasmonic nanoresonators/graphene heterostructures for efficient room-temperature infrared photodetection. Journal of Semiconductors, 2020, 41, 072907.	2.0	9
24	Anisotropic ultrasensitive PdTe $_{2}$ -based phototransistor for room-temperature long-wavelength detection. Science Advances, 2020, 6, .	4.7	74
25	Self-Controlled Growth of Covalent Organic Frameworks by Repolymerization. Chemistry of Materials, 2020, 32, 5634-5640.	3.2	37
26	Graphene Field-Effect Transistors on Hexagonal Boron Nitride for Enhanced Interfacial Thermal Dissipation. Advanced Electronic Materials, 2020, 6, 2000059.	2.6	8
27	Antifouling Field-Effect Transistor Sensing Interface Based on Covalent Organic Frameworks. Advanced Electronic Materials, 2020, 6, 1901169.	2.6	26
28	Catalyst-Free Growth of Two-Dimensional BC $_{2}$ N Materials on Dielectrics by Temperature-Dependent Plasma-Enhanced Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2020, 12, 33113-33120.	4.0	15
29	Strain-Sensitive Fluorescence from Two-Dimensional Organic Crystal. Journal of Physical Chemistry Letters, 2020, 11, 1909-1914.	2.1	6
30	Broadband InSb/Si heterojunction photodetector with graphene transparent electrode. Nanotechnology, 2020, 31, 315204.	1.3	22
31	Synthesis of large-area uniform Si $_{2}$ Te $_{3}$ thin films for p-type electronic devices. Nanoscale, 2020, 12, 11242-11250.	2.8	8
32	Highly stable all-in-one photoelectrochemical electrodes based on carbon nanowalls. Nanotechnology, 2020, 31, 335401.	1.3	2
33	Inner-Evaporator Modification of Low-Cost Metal Electrodes of Organic Field-Effect Transistors by 2D Polyporphyrin. Advanced Electronic Materials, 2019, 5, 1900447.	2.6	4
34	Nanoscale thermal mapping of few-layer organic crystals. CrystEngComm, 2019, 21, 5402-5409.	1.3	5
35	A two-dimensional cross-linked polythiophene network. Journal of Materials Chemistry C, 2019, 7, 9362-9368.	2.7	8
36	Distinctive Performance of Terahertz Photodetection Driven by Charge-Density-Wave Order in CVD-Grown Tantalum Diselenide. Advanced Functional Materials, 2019, 29, 1905057.	7.8	13

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37	Surface Catalytic Modification of Conjugated Polymer on Low-Cost Bottom Contact for Improved Injection Efficiency of Organic Transistors. <i>Advanced Electronic Materials</i> , 2019, 5, 1900028.	2.6	1
38	Nitrogen Doped Carbons Derived From Graphene Aerogel Templated Triazine-Based Conjugated Microporous Polymers for High-Performance Supercapacitors. <i>Frontiers in Chemistry</i> , 2019, 7, 142.	1.8	5
39	Conformal hexagonal-boron nitride dielectric interface for tungsten diselenide devices with improved mobility and thermal dissipation. <i>Nature Communications</i> , 2019, 10, 1188.	5.8	71
40	Free radical sensors based on inner-cutting graphene field-effect transistors. <i>Nature Communications</i> , 2019, 10, 1544.	5.8	85
41	Two-dimensional self-healing hydrogen-bond-based supramolecular polymer film. <i>Chinese Chemical Letters</i> , 2019, 30, 961-965.	4.8	14
42	Enhanced photoelectrical response of thermodynamically epitaxial organic crystals at the two-dimensional limit. <i>Nature Communications</i> , 2019, 10, 756.	5.8	71
43	Towards sensitive terahertz detection via thermoelectric manipulation using graphene transistors. <i>NPG Asia Materials</i> , 2018, 10, 318-327.	3.8	31
44	Raman enhancement on ultra-clean graphene quantum dots produced by quasi-equilibrium plasma-enhanced chemical vapor deposition. <i>Nature Communications</i> , 2018, 9, 193.	5.8	117
45	Room-Temperature High-Gain Long-Wavelength Photodetector via Optical-Electrical Controlling of Hot Carriers in Graphene. <i>Advanced Optical Materials</i> , 2018, 6, 1800836.	3.6	28
46	Hydrogen-bonding-directed helical nanofibers in a polythiophene-based all-conjugated diblock copolymer. <i>Soft Matter</i> , 2018, 14, 5906-5912.	1.2	13
47	Large photoelectric-gating effect of two-dimensional van-der-Waals organic/tungsten diselenide heterointerface. <i>Npj 2D Materials and Applications</i> , 2018, 2, .	3.9	28
48	Abnormal n-type doping effect in nitrogen-doped tungsten diselenide prepared by moderate ammonia plasma treatment. <i>Nano Research</i> , 2018, 11, 4923-4930.	5.8	27
49	Solvent-Free Process to Produce Three Dimensional Graphene Network with High Electrochemical Stability. <i>Journal of Physical Chemistry C</i> , 2017, 121, 3062-3069.	1.5	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. <i>Nano Research</i> , 2017, 10, 802-813.	5.8	206
51	Photo-switchable field-effect transistors based on two-dimensional stilbene oligomer crystals. <i>Journal of Materials Chemistry C</i> , 2017, 5, 9597-9601.	2.7	19
52	Hemin/Au nanorods/self-doped TiO <sub>2</sub> nanowires as a novel photoelectrochemical bioanalysis platform. <i>Analyst</i> , 2017, 142, 2805-2811.	1.7	8
53	Hierarchical Porous Carbon Materials Derived from Sheep Manure for High-Capacity Supercapacitors. <i>ChemSusChem</i> , 2016, 9, 932-937.	3.6	63
54	Direct growth of nanographene at low temperature from carbon black for highly sensitive temperature detectors. <i>Nanotechnology</i> , 2016, 27, 505603.	1.3	10

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55	Direct Growth of Graphene Films on 3D Grating Structural Quartz Substrates for High-Performance Pressure-Sensitive Sensors. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 16869-16875.	4.0	35
56	Low Temperature Critical Growth of High Quality Nitrogen Doped Graphene on Dielectrics by Plasma-Enhanced Chemical Vapor Deposition. <i>ACS Nano</i> , 2015, 9, 164-171.	7.3	125
57	Tunable optical absorption and interactions in graphene via oxygen plasma. <i>Physical Review B</i> , 2014, 89, .	1.1	42
58	Critical Crystal Growth of Graphene on Dielectric Substrates at Low Temperature for Electronic Devices. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14121-14126.	7.2	125
59	Controllable Chemical Vapor Deposition Growth of Few Layer Graphene for Electronic Devices. <i>Accounts of Chemical Research</i> , 2013, 46, 106-115.	7.6	88
60	Controllable unzipping for intramolecular junctions of graphene nanoribbons and single-walled carbon nanotubes. <i>Nature Communications</i> , 2013, 4, 1374.	5.8	125
61	Controllable Synthesis of Graphene and Its Applications. <i>Advanced Materials</i> , 2010, 22, 3225-3241.	11.1	375
62	A Generalized Method for Evaluating the Metallic-to-Semiconducting Ratio of Separated Single-Walled Carbon Nanotubes by UV-vis-NIR Characterization. <i>Journal of Physical Chemistry C</i> , 2010, 114, 12095-12098.	1.5	24
63	Fabrication and characterization of molecular scale field-effect transistors. <i>Journal of Materials Chemistry</i> , 2010, 20, 2305.	6.7	16
64	Minimizing purification-induced defects in single-walled carbon nanotubes gives films with improved conductivity. <i>Nano Research</i> , 2009, 2, 865.	5.8	13
65	Synthesis of N-Doped Graphene by Chemical Vapor Deposition and Its Electrical Properties. <i>Nano Letters</i> , 2009, 9, 1752-1758.	4.5	2,822
66	Scalable Synthesis of Few-Layer Graphene Ribbons with Controlled Morphologies by a Template Method and Their Applications in Nanoelectromechanical Switches. <i>Journal of the American Chemical Society</i> , 2009, 131, 11147-11154.	6.6	214
67	Patterned Graphene as Source/Drain Electrodes for Bottom-Contact Organic Field-Effect Transistors. <i>Advanced Materials</i> , 2008, 20, 3289-3293.	11.1	373
68	The Intramolecular Junctions of Carbon Nanotubes. <i>Advanced Materials</i> , 2008, 20, 2815-2841.	11.1	126
69	Inside Front Cover: The Intramolecular Junctions of Carbon Nanotubes ( <i>Adv. Mater.</i> 15/2008). <i>Advanced Materials</i> , 2008, 20, NA-NA.	11.1	0
70	Real Time and in Situ Control of the Gap Size of Nanoelectrodes for Molecular Devices. <i>Nano Letters</i> , 2008, 8, 1625-1630.	4.5	50
71	Nanophotoswitches with a high on/off ratio based on a structure of indium tin oxide/organic insulator/metal. <i>Applied Physics Letters</i> , 2008, 92, 043302.	1.5	5
72	Synthesis and Device Integration of Carbon Nanotube/Silica Core-Shell Nanowires. <i>Journal of Physical Chemistry C</i> , 2007, 111, 7661-7665.	1.5	19

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73	A Magnetism-Assisted Chemical Vapor Deposition Method To Produce Branched or Iron-Encapsulated Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2007, 129, 7364-7368.	6.6	37
74	A New Method to Synthesize Complicated Multibranched Carbon Nanotubes with Controlled Architecture and Composition. <i>Nano Letters</i> , 2006, 6, 186-192.	4.5	93