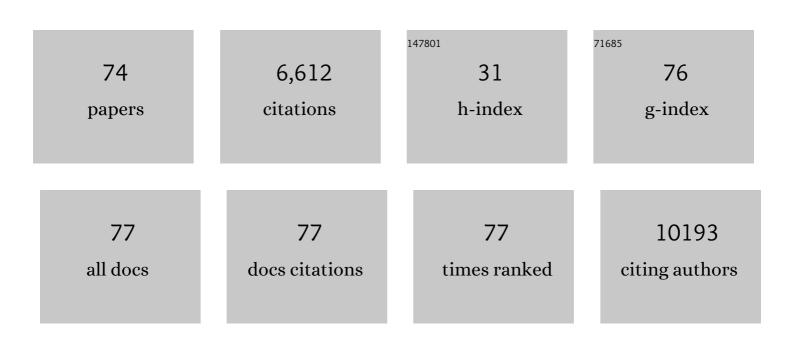
Dacheng Wei

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Synthesis of N-Doped Graphene by Chemical Vapor Deposition and Its Electrical Properties. Nano Letters, 2009, 9, 1752-1758.	9.1	2,822
2	Controllable Synthesis of Graphene and Its Applications. Advanced Materials, 2010, 22, 3225-3241.	21.0	375
3	Patterned Graphene as Source/Drain Electrodes for Bottomâ€Contact Organic Fieldâ€Effect Transistors. Advanced Materials, 2008, 20, 3289-3293.	21.0	373
4	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
5	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
6	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
7	The Intramolecular Junctions of Carbon Nanotubes. Advanced Materials, 2008, 20, 2815-2841.	21.0	126
8	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
9	Controllable unzipping for intramolecular junctions of graphene nanoribbons and single-walled carbon nanotubes. Nature Communications, 2013, 4, 1374.	12.8	125
10	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
11	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
12	A New Method to Synthesize Complicated Multibranched Carbon Nanotubes with Controlled Architecture and Composition. Nano Letters, 2006, 6, 186-192.	9.1	93
13	Two-Dimensional Field-Effect Transistor Sensors: The Road toward Commercialization. Chemical Reviews, 2022, 122, 10319-10392.	47.7	89
14	Controllable Chemical Vapor Deposition Growth of Few Layer Graphene for Electronic Devices. Accounts of Chemical Research, 2013, 46, 106-115.	15.6	88
15	Free radical sensors based on inner-cutting graphene field-effect transistors. Nature Communications, 2019, 10, 1544.	12.8	85
16	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
17	Anisotropic ultrasensitive PdTe ₂ -based phototransistor for room-temperature long-wavelength detection. Science Advances, 2020, 6, .	10.3	74
18	Conformal hexagonal-boron nitride dielectric interface for tungsten diselenide devices with improved mobility and thermal dissipation. Nature Communications, 2019, 10, 1188.	12.8	71

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19	Enhanced photoelectrical response of thermodynamically epitaxial organic crystals at the two-dimensional limit. Nature Communications, 2019, 10, 756.	12.8	71
20	Ultrasensitive Detection of SARS-CoV-2 Antibody by Graphene Field-Effect Transistors. Nano Letters, 2021, 21, 7897-7904.	9.1	64
21	Hierarchical Porous Carbon Materials Derived from Sheep Manure for High apacity Supercapacitors. ChemSusChem, 2016, 9, 932-937.	6.8	63
22	Microconformal electrode-dielectric integration for flexible ultrasensitive robotic tactile sensing. Nano Energy, 2021, 80, 105580.	16.0	63
23	Plasma-Enhanced Chemical Vapor Deposition of Two-Dimensional Materials for Applications. Accounts of Chemical Research, 2021, 54, 1011-1022.	15.6	63
24	Ultra-fast single-crystal polymerization of large-sized covalent organic frameworks. Nature Communications, 2021, 12, 5077.	12.8	63
25	Real Time and in Situ Control of the Gap Size of Nanoelectrodes for Molecular Devices. Nano Letters, 2008, 8, 1625-1630.	9.1	50
26	Ultraprecise Antigen 10-in-1 Pool Testing by Multiantibodies Transistor Assay. Journal of the American Chemical Society, 2021, 143, 19794-19801.	13.7	48
27	Tunable optical absorption and interactions in graphene via oxygen plasma. Physical Review B, 2014, 89,	3.2	42
28	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
29	Self-Controlled Growth of Covalent Organic Frameworks by Repolymerization. Chemistry of Materials, 2020, 32, 5634-5640.	6.7	37
30	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
31	Rapid SARS-CoV-2 Nucleic Acid Testing and Pooled Assay by Tetrahedral DNA Nanostructure Transistor. Nano Letters, 2021, 21, 9450-9457.	9.1	33
32	Towards sensitive terahertz detection via thermoelectric manipulation using graphene transistors. NPG Asia Materials, 2018, 10, 318-327.	7.9	31
33	A comprehensive nano-interpenetrating semiconducting photoresist toward all-photolithography organic electronics. Science Advances, 2021, 7, .	10.3	31
34	<scp>Twoâ€Dimensional Metalâ€Organic</scp> Frameworks and Covalent Organic Frameworks. Chinese Journal of Chemistry, 2022, 40, 1359-1385.	4.9	31
35	Roomâ€Temperature Highâ€Gain Longâ€Wavelength Photodetector via Optical–Electrical Controlling of Hot Carriers in Graphene. Advanced Optical Materials, 2018, 6, 1800836.	7.3	28
36	Large photoelectric-gating effect of two-dimensional van-der-Waals organic/tungsten diselenide heterointerface. Npj 2D Materials and Applications, 2018, 2, .	7.9	28

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37	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
38	Antifouling Fieldâ€Effect Transistor Sensing Interface Based on Covalent Organic Frameworks. Advanced Electronic Materials, 2020, 6, 1901169.	5.1	26
39	A Generalized Method for Evaluating the Metallic-to-Semiconducting Ratio of Separated Single-Walled Carbon Nanotubes by UVâ~'visâ~'NIR Characterization. Journal of Physical Chemistry C, 2010, 114, 12095-12098.	3.1	24
40	Triple-Probe DNA Framework-Based Transistor for SARS-CoV-2 10-in-1 Pooled Testing. Nano Letters, 2022, 22, 3307-3316.	9.1	24
41	Broadband InSb/Si heterojunction photodetector with graphene transparent electrode. Nanotechnology, 2020, 31, 315204.	2.6	22
42	Synthesis and Device Integration of Carbon Nanotube/Silica Coreâ^'Shell Nanowires. Journal of Physical Chemistry C, 2007, 111, 7661-7665.	3.1	19
43	Photo-switchable field-effect transistors based on two-dimensional stilbene oligomer crystals. Journal of Materials Chemistry C, 2017, 5, 9597-9601.	5.5	19
44	Shapeâ€Engineerable Silk Fibroin Papers for Ideal Substrate Alternatives of Plastic Electronics. Advanced Functional Materials, 2021, 31, 2104088.	14.9	18
45	Colossal Terahertz Photoresponse at Room Temperature: A Signature of Type-II Dirac Fermiology. ACS Nano, 2021, 15, 5138-5146.	14.6	17
46	Fabrication and characterization of molecular scale field-effect transistors. Journal of Materials Chemistry, 2010, 20, 2305.	6.7	16
47	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
48	Catalyst-Free Growth of Two-Dimensional BC _{<i>x</i>} N Materials on Dielectrics by Temperature-Dependent Plasma-Enhanced Chemical Vapor Deposition. ACS Applied Materials & Interfaces, 2020, 12, 33113-33120.	8.0	15
49	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
50	Two-dimensional self-healing hydrogen-bond-based supramolecular polymer film. Chinese Chemical Letters, 2019, 30, 961-965.	9.0	14
51	Minimizing purification-induced defects in single-walled carbon nanotubes gives films with improved conductivity. Nano Research, 2009, 2, 865.	10.4	13
52	Hydrogen-bonding-directed helical nanofibers in a polythiophene-based all-conjugated diblock copolymer. Soft Matter, 2018, 14, 5906-5912.	2.7	13
53	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
54	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

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55	Direct growth of nanographene at low temperature from carbon black for highly sensitive temperature detectors. Nanotechnology, 2016, 27, 505603.	2.6	10
56	Graphene plasmonic nanoresonators/graphene heterostructures for efficient room-temperature infrared photodetection. Journal of Semiconductors, 2020, 41, 072907.	3.7	9
57	High-performance mid-infrared photodetection based on Bi ₂ Se ₃ maze and free-standing nanoplates. Nanotechnology, 2021, 32, 105705.	2.6	9
58	Hemin/Au nanorods/self-doped TiO2nanowires as a novel photoelectrochemical bioanalysis platform. Analyst, The, 2017, 142, 2805-2811.	3.5	8
59	A two-dimensional cross-linked polythiophene network. Journal of Materials Chemistry C, 2019, 7, 9362-9368.	5.5	8
60	Graphene Fieldâ€Effect Transistors on Hexagonalâ€Boron Nitride for Enhanced Interfacial Thermal Dissipation. Advanced Electronic Materials, 2020, 6, 2000059.	5.1	8
61	Synthesis of large-area uniform Si ₂ Te ₃ thin films for p-type electronic devices. Nanoscale, 2020, 12, 11242-11250.	5.6	8
62	Olefin-linked covalent organic frameworks with twisted tertiary amine knots for enhanced ultraviolet detection. Chinese Chemical Letters, 2022, 33, 2621-2624.	9.0	7
63	Strain-Sensitive Fluorescence from Two-Dimensional Organic Crystal. Journal of Physical Chemistry Letters, 2020, 11, 1909-1914.	4.6	6
64	Short-wavelength ultraviolet dosimeters based on DNA nanostructure-modified graphene field-effect transistors. Chemical Communications, 2021, 57, 5071-5074.	4.1	6
65	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
66	Nanoscale thermal mapping of few-layer organic crystals. CrystEngComm, 2019, 21, 5402-5409.	2.6	5
67	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
68	Flexible force sensitive frequency reconfigurable antenna base on stretchable conductive fabric. Journal Physics D: Applied Physics, 2022, 55, 195301.	2.8	5
69	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
70	Epitaxial etching of organic single crystals. Chinese Chemical Letters, 2022, 33, 533-536.	9.0	3
71	Shapeâ€Engineerable Silk Fibroin Papers for Ideal Substrate Alternatives of Plastic Electronics (Adv.) Tj ETQq1 1	0.784314 14.9	rgBJT /Overlo

72 Highly stable all-in-one photoelectrochemical electrodes based on carbon nanowalls. Nanotechnology, 2020, 31, 335401.

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#	Article	IF	CITATIONS
73	Surface Catalytic Modification of Conjugated Polymer on Low ost Bottom Contact for Improved Injection Efficiency of Organic Transistors. Advanced Electronic Materials, 2019, 5, 1900028.	5.1	1
74	Inside Front Cover: The Intramolecular Junctions of Carbon Nanotubes (Adv. Mater. 15/2008). Advanced Materials, 2008, 20, NA-NA.	21.0	0