

# Mengning Ding

## List of Publications by Year in descending order

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Version: 2024-02-01

54  
papers

6,313  
citations

172207

29  
h-index

174990

52  
g-index

56  
all docs

56  
docs citations

56  
times ranked

10671  
citing authors

#	ARTICLE	IF	CITATIONS
1	Approaching the Schottky-Mott limit in van der Waals metal-semiconductor junctions. <i>Nature</i> , 2018, 557, 696-700.	13.7	1,279
2	Three-dimensional holey-graphene/niobia composite architectures for ultrahigh-rate energy storage. <i>Science</i> , 2017, 356, 599-604.	6.0	1,229
3	Solution-processable 2D semiconductors for high-performance large-area electronics. <i>Nature</i> , 2018, 562, 254-258.	13.7	644
4	Single-atom tailoring of platinum nanocatalysts for high-performance multifunctional electrocatalysis. <i>Nature Catalysis</i> , 2019, 2, 495-503.	16.1	464
5	Toward Barrier Free Contact to Molybdenum Disulfide Using Graphene Electrodes. <i>Nano Letters</i> , 2015, 15, 3030-3034.	4.5	362
6	Wafer-scale growth of large arrays of perovskite microplate crystals for functional electronics and optoelectronics. <i>Science Advances</i> , 2015, 1, e1500613.	4.7	265
7	van der Waals Heterojunction Devices Based on Organohalide Perovskites and Two-Dimensional Materials. <i>Nano Letters</i> , 2016, 16, 367-373.	4.5	185
8	Silver nanoparticles boost charge-extraction efficiency in <i>Shewanella</i> microbial fuel cells. <i>Science</i> , 2021, 373, 1336-1340.	6.0	171
9	Self-gating in semiconductor electrocatalysis. <i>Nature Materials</i> , 2019, 18, 1098-1104.	13.3	167
10	High Electrical Conductivity in a 2D MOF with Intrinsic Superprotonic Conduction and Interfacial Pseudo-capacitance. <i>Matter</i> , 2020, 2, 711-722.	5.0	115
11	Chemical Sensing with Polyaniline Coated Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , 2011, 23, 536-540.	11.1	101
12	MoS <sub>2</sub> -Templated Porous Hollow MoO <sub>3</sub> Microspheres for Highly Selective Ammonia Sensing via a Lewis Acid-Base Interaction. <i>IEEE Transactions on Industrial Electronics</i> , 2022, 69, 960-970.	5.2	85
13	Understanding Interfaces in Metal-Graphitic Hybrid Nanostructures. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 147-160.	2.1	79
14	Photoinduced Charge Transfer and Acetone Sensitivity of Single-Walled Carbon Nanotube-Titanium Dioxide Hybrids. <i>Journal of the American Chemical Society</i> , 2013, 135, 9015-9022.	6.6	77
15	Welding of Gold Nanoparticles on Graphitic Templates for Chemical Sensing. <i>Journal of the American Chemical Society</i> , 2012, 134, 3472-3479.	6.6	73
16	In Situ Probing Molecular Intercalation in Two-Dimensional Layered Semiconductors. <i>Nano Letters</i> , 2019, 19, 6819-6826.	4.5	72
17	An on-chip electrical transport spectroscopy approach for in situ monitoring electrochemical interfaces. <i>Nature Communications</i> , 2015, 6, 7867.	5.8	64
18	Quantum interference mediated vertical molecular tunneling transistors. <i>Science Advances</i> , 2018, 4, eaat8237.	4.7	64

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19	Cosolvent Approach for Solution-Processable Electronic Thin Films. <i>ACS Nano</i> , 2015, 9, 4398-4405.	7.3	63
20	Double-Exchange-Induced in situ Conductivity in Nickel-Based Oxyhydroxides: An Effective Descriptor for Electrocatalytic Oxygen Evolution. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16448-16456.	7.2	63
21	Metal-Organic Framework Templated Synthesis of Ultrathin, Well-Aligned Metallic Nanowires. <i>ACS Nano</i> , 2015, 9, 3044-3049.	7.3	59
22	In(III) Metal-Organic Framework Incorporated with Enzyme-Mimicking Nickel Bis(dithiolene) Ligand for Highly Selective CO <sub>2</sub> Electroreduction. <i>Journal of the American Chemical Society</i> , 2021, 143, 14071-14076.	6.6	54
23	Boosting the performance of single-atom catalysts via external electric field polarization. <i>Nature Communications</i> , 2022, 13, .	5.8	52
24	Nanoelectronic Investigation Reveals the Electrochemical Basis of Electrical Conductivity in <i>Shewanella</i> and <i>Geobacter</i> . <i>ACS Nano</i> , 2016, 10, 9919-9926.	7.3	46
25	Vertical Charge Transport and Negative Transconductance in Multilayer Molybdenum Disulfides. <i>Nano Letters</i> , 2017, 17, 5495-5501.	4.5	42
26	Electrochemical Approach for Direct C-H Phosphonylation of Unprotected Secondary Amine. <i>Organic Letters</i> , 2019, 21, 7759-7762.	2.4	36
27	Electro-Descriptors for the Performance Prediction of Electro-Organic Synthesis. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 4199-4207.	7.2	35
28	Efficient CO <sub>2</sub> Electroreduction with a Monolayer Bi <sub>2</sub> WO <sub>6</sub> through a Metallic Intermediate Surface State. <i>ACS Catalysis</i> , 2021, 11, 12476-12484.	5.5	35
29	Missing-Linker 2D Conductive Metal Organic Frameworks for Rapid Gas Detection. <i>ACS Sensors</i> , 2021, 6, 429-438.	4.0	34
30	Highly selective electrocatalytic oxidation of benzyl C-H using water as safe and sustainable oxygen source. <i>Green Chemistry</i> , 2020, 22, 7543-7551.	4.6	31
31	On-Chip in Situ Monitoring of Competitive Interfacial Anionic Chemisorption as a Descriptor for Oxygen Reduction Kinetics. <i>ACS Central Science</i> , 2018, 4, 590-599.	5.3	29
32	Nitrogen reduction through confined electro-catalysis with carbon nanotube inserted metal-organic frameworks. <i>Journal of Materials Chemistry A</i> , 2021, 9, 1480-1486.	5.2	27
33	Electrochemically Exfoliated Platinum Dichalcogenide Atomic Layers for High-Performance Air-Stable Infrared Photodetectors. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 8518-8527.	4.0	23
34	Plasmonic/Nonlinear Optical Material Core/Shell Nanorods as Nanoscale Plasmon Modulators and Optical Voltage Sensors. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 583-587.	7.2	21
35	Selecting Fruits with Carbon Nanotube Sensors. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 7637-7638.	7.2	19
36	Highly Sensitive Chemical Detection with Tunable Sensitivity and Selectivity from Ultrathin Platinum Nanowires. <i>Small</i> , 2017, 13, 1602969.	5.2	19

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37	Electrochemical Cross-Dehydrogenative Coupling between Phenols and $\alpha$ -Dicarbonyl Compounds: Facile Construction of Benzofurans. <i>Chemistry - A European Journal</i> , 2020, 26, 4297-4303.	1.7	18
38	Synthesis of One-Dimensional SiC Nanostructures from a Glassy Buckypaper. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 1928-1936.	4.0	16
39	Single-Atom Tailoring of Two-Dimensional Atomic Crystals Enables Highly Efficient Detection and Pattern Recognition of Chemical Vapors. <i>ACS Sensors</i> , 2022, 7, 1533-1543.	4.0	16
40	Electro-Descriptors for the Performance Prediction of Electro-Organic Synthesis. <i>Angewandte Chemie</i> , 2021, 133, 4245-4253.	1.6	13
41	Rational Synthesis of 1D Hyperbranched Heterostructures with Enhanced Optoelectronic Performance. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 3475-3480.	7.2	12
42	Intercalation and hybrid heterostructure integration of two-dimensional atomic crystals with functional organic semiconductor molecules. <i>Nano Research</i> , 2020, 13, 2917-2924.	5.8	11
43	On-Chip Electrical Transport Investigation of Metal Nanoparticles: Characteristic Acidic and Alkaline Adsorptions Revealed on Pt and Au Surface. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 5798-5806.	2.1	9
44	Efficient separation of nitrogen-doped carbon nanotube cups. <i>Carbon</i> , 2014, 80, 583-590.	5.4	8
45	Spontaneous Polarity Flipping in a 2D Heterobilayer Induced by Fluctuating Interfacial Carrier Flows. <i>Nano Letters</i> , 2021, 21, 6773-6780.	4.5	7
46	A field-effect approach to directly profiling the localized states in monolayer MoS <sub>2</sub> . <i>Science Bulletin</i> , 2019, 64, 1049-1055.	4.3	5
47	Promoting Z-to-E Thermal Isomerization of Azobenzene Derivatives by Noncovalent Interaction with Phosphorene: Theoretical Prediction and Experimental Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 15961-15968.	1.5	3
48	Double-Exchange-Induced in situ Conductivity in Nickel-Based Oxyhydroxides: An Effective Descriptor for Electrocatalytic Oxygen Evolution. <i>Angewandte Chemie</i> , 2021, 133, 16584-16592.	1.6	3
49	Nanocomposite materials for nano-electronic-based Internet of things sensors and energy device signaling. , 2020, , 243-290.		2
50	Deactivation/Activation of Quenching Defects in CH <sub>3</sub> NH <sub>3</sub> PbI <sub>3</sub> Perovskite by Direct Electron Injection/Extraction. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 773-780.	2.1	2
51	Quantitative Surface Plasmon Interferometry via Upconversion Photoluminescence Mapping. <i>Research</i> , 2019, 2019, 8304824.	2.8	2
52	Rational Synthesis of 1D Hyperbranched Heterostructures with Enhanced Optoelectronic Performance. <i>Angewandte Chemie</i> , 2021, 133, 3517-3522.	1.6	1
53	Synthesis and Morphology Control of Carbon Nanotube/Polyaniline Composite for Chemical Sensing. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1408, 119.	0.1	0
54	Superlattice Structure from Re-stacked NiFe Layer Double Hydroxides for Oxygen Evolution Reaction. <i>Chemical Research in Chinese Universities</i> , 2020, 36, 680-684.	1.3	0