Wenjing Zhang

List of Publications by Year in Descending Order

139 papers	13,786 citations	43 h-index	117 g-index
150 ext. papers	15,924 ext. citations	10.5 avg, IF	6.33 L-index

#	Paper	IF	Citations
139	Short Guanidinium-Functionalized Poly(2-oxazoline)s Displaying Potent Therapeutic Efficacy on Drug-Resistant Fungal Infections.. *Angewandte Chemie - International Edition*, **2022**, e202200778	16.4	2
138	Supramolecular Tiling of a Conformationally Flexible Precursor.. *Journal of Physical Chemistry Letters*, **2022**, 2180-2186	6.4	3
137	Rolling up of 2D Nanosheets into 1D Nanoscrolls: Visible-Light-Activated Chemiresistors Based on Surface Modified Indium Selenide with Enhanced Sensitivity and Stability. *Chemical Engineering Journal*, **2022**, 136937	14.7	3
136	Nanopatterning Technologies of Two-Dimensional Materials for Integrated Electronic and Optoelectronic Devices.. *Advanced Materials*, **2022**, e2200734	24	3
135	Selective Chemical Vapor Deposition Growth of WS2/MoS2 Vertical and Lateral Heterostructures on Gold Foils. *Nanomaterials*, **2022**, 12, 1696	5.4	1
134	Defect-Assisted Anchoring of Pt Single Atoms on MoS Nanosheets Produces High-Performance Catalyst for Industrial Hydrogen Evolution Reaction. *Small*, **2021**, e2104824	11	5
133	Addressing MRSA infection and antibacterial resistance with peptoid polymers. *Nature Communications*, **2021**, 12, 5898	17.4	19
132	High-Yield and Low-Cost Solar Water Purification via Hydrogel-Based Membrane Distillation. *Advanced Functional Materials*, **2021**, 31, 2101036	15.6	30
131	Giant Optical Activity and Second Harmonic Generation in 2D Hybrid Copper Halides. *Angewandte Chemie - International Edition*, **2021**, 60, 8441-8445	16.4	21
130	Giant Optical Activity and Second Harmonic Generation in 2D Hybrid Copper Halides. *Angewandte Chemie*, **2021**, 133, 8522-8526	3.6	5
129	Lateral growth of indium(III) selenide nanoribbons and their optoelectronic performance for weak signal detection. *Applied Surface Science*, **2021**, 546, 149166	6.7	2
128	Pattern recognition receptor-initiated innate immune responses in mouse prostatic epithelial cells *Biology of Reproduction*, **2021**, 105, 113-127	3.9	2
127	Solar Water Purification: High-Yield and Low-Cost Solar Water Purification via Hydrogel-Based Membrane Distillation (Adv. Funct. Mater. 19/2021). *Advanced Functional Materials*, **2021**, 31, 2170135	15.6	3
126	Impact of Amine Additives on Perovskite Precursor Aging: A Case Study of Light-Emitting Diodes. *Journal of Physical Chemistry Letters*, **2021**, 12, 5836-5843	6.4	3
125	Growth of centimeter-scale single crystal MoO3 ribbons for high performance ultraviolet photodetectors. *Applied Physics Letters*, **2021**, 118, 243101	3.4	0
124	Using Assessment on Host Defense Peptide Mimicking Polymer-Modified Surfaces for Combating Implant Infections.. *ACS Applied Bio Materials*, **2021**, 4, 3811-3829	4.1	4
123	One-step synthesis of single-site vanadium substitution in 1T-WS monolayers for enhanced hydrogen evolution catalysis. *Nature Communications*, **2021**, 12, 709	17.4	42

122	Characterization of an Antiviral Component in Human Seminal Plasma. *Frontiers in Immunology*, **2021**, 12, 580454	8.4	1
121	A multimodal meta-analysis of regional structural and functional brain alterations in type 2 diabetes. *Frontiers in Neuroendocrinology*, **2021**, 62, 100915	8.9	8
120	Diverse Structures and Magnetic Properties in Nonlayered Monolayer Chromium Selenide. *Journal of Physical Chemistry Letters*, **2021**, 12, 7752-7760	6.4	4
119	Strong Interlayer Transition in Few-Layer InSe/PdSe2 van der Waals Heterostructure for Near-Infrared Photodetection. *Advanced Functional Materials*, **2021**, 31, 2104143	15.6	17
118	Multi-heteroatom-doped hollow carbon tubes as robust electrocatalysts for the oxygen reduction reaction, oxygen and hydrogen evolution reaction. *Chemical Engineering Journal*, **2021**, 418, 129321	14.7	16
117	Bio-inspired poly-DL-serine materials resist the foreign-body response. *Nature Communications*, **2021**, 12, 5327	17.4	7
116	The Metallic Nature of Two-Dimensional Transition-Metal Dichalcogenides and MXenes. *Surface Science Reports*, **2021**, 100542	12.9	2
115	Dual mechanism ╠amino acid polymers promoting cell adhesion. *Nature Communications*, **2021**, 12, 562	17.4	18
114	Distinct neuroanatomic subtypes in antipsychotic-treated patients with schizophrenia classified by the predefined classification in a never-treated sample. *Psychoradiology*, **2021**, 1, 212-224		
113	Multiphoton absorption in low-dimensional cesium copper iodide single crystals. *Journal of Materials Chemistry C*, **2020**, 8, 16923-16929	7.1	12
112	Spectral Dynamics and Multiphoton Absorption Properties of All-Inorganic Perovskite Nanorods. *Journal of Physical Chemistry Letters*, **2020**, 11, 4817-4825	6.4	15
111	Silk-Inspired ╠Peptide Materials Resist Fouling and the Foreign-Body Response. *Angewandte Chemie*, **2020**, 132, 9673-9680	3.6	3
110	Silk-Inspired ╠Peptide Materials Resist Fouling and the Foreign-Body Response. *Angewandte Chemie - International Edition*, **2020**, 59, 9586-9593	16.4	30
109	Facile p-Doping of Few-Layer MoTe2 by Controllable Surface Oxidation toward High-Performance Complementary Devices. *ACS Applied Electronic Materials*, **2020**, 2, 920-926	4	11
108	Bidirectional optical signal transmission between two identical devices using perovskite diodes. *Nature Electronics*, **2020**, 3, 156-164	28.4	56
107	Innentitelbild: Poly(2-Oxazoline)-Based Functional Peptide Mimics: Eradicating MRSA Infections and Persisters while Alleviating Antimicrobial Resistance (Angew. Chem. 16/2020). *Angewandte Chemie*, **2020**, 132, 6354-6354	3.6	1
106	Site-Selective Bi2Te3╠eTe2 Heterostructure as a Broadband Saturable Absorber for Ultrafast Photonics. *Laser and Photonics Reviews*, **2020**, 14, 1900409	8.3	21
105	Roles of Sialic Acid, AXL, and MER Receptor Tyrosine Kinases in Mumps Virus Infection of Mouse Sertoli and Leydig Cells. *Frontiers in Microbiology*, **2020**, 11, 1292	5.7	6

104	Water-Insensitive Synthesis of Poly-β-Peptides with Defined Architecture. *Angewandte Chemie*, **2020**, 132, 7307-7311	3.6	0
103	Poly(2-Oxazoline)-Based Functional Peptide Mimics: Eradicating MRSA Infections and Persisters while Alleviating Antimicrobial Resistance. *Angewandte Chemie*, **2020**, 132, 6474-6481	3.6	7
102	Poly(2-Oxazoline)-Based Functional Peptide Mimics: Eradicating MRSA Infections and Persisters while Alleviating Antimicrobial Resistance. *Angewandte Chemie - International Edition*, **2020**, 59, 6412-6419	16.4	86
101	Water-Insensitive Synthesis of Poly-β-Peptides with Defined Architecture. *Angewandte Chemie - International Edition*, **2020**, 59, 7240-7244	16.4	26
100	Performance Improvement by Ozone Treatment of 2D PdSe. *ACS Nano*, **2020**, 14, 5668-5677	16.7	33
99	Anisotropic Collective Charge Excitations in Quasimetallic 2D Transition-Metal Dichalcogenides. *Advanced Science*, **2020**, 7, 1902726	13.6	3
98	Enhanced Electrocatalytic Hydrogen Evolution Activity in Single-Atom Pt-Decorated VS Nanosheets. *ACS Nano*, **2020**, 14, 5600-5608	16.7	59
97	Synthesis of large-area uniform SiTe thin films for p-type electronic devices. *Nanoscale*, **2020**, 12, 11242-11250	7.7	4
96	Vibrational coupling effects in the energy redistribution of alkylbenzenes. *Journal of Molecular Structure*, **2020**, 1199, 126966	3.4	
95	Vibrational energy redistribution and vibrational dynamics of methanol mixed with Rhodamine 101 dye. *Molecular Physics*, **2020**, 118, e1708490	1.7	
94	Influence of a substrate on ultrafast interfacial charge transfer and dynamical interlayer excitons in monolayer WSe/graphene heterostructures. *Nanoscale*, **2020**, 12, 2498-2506	7.7	10
93	Ultrathin Single-Crystalline 2D Perovskite Photoconductor for High-Performance Narrowband and Wide Linear Dynamic Range Photodetection. *Small*, **2020**, 16, e2005626	11	8
92	Visible to near-infrared photodetector with novel optoelectronic performance based on graphene/S-doped InSe heterostructure on h-BN substrate. *Nanoscale*, **2020**, 12, 19259-19266	7.7	8
91	An alpha/beta chimeric peptide molecular brush for eradicating MRSA biofilms and persister cells to mitigate antimicrobial resistance. *Biomaterials Science*, **2020**, 8, 6883-6889	7.4	11
90	Oxygen-induced controllable p-type doping in 2D semiconductor transition metal dichalcogenides. *Nano Research*, **2020**, 13, 3439-3444	10	22
89	Structural design and antimicrobial properties of polypeptides and saccharide-polypeptide conjugates. *Journal of Materials Chemistry B*, **2020**, 8, 9173-9196	7.3	13
88	Modulation of Electrical Properties with Controllable Local Doping in Multilayer MoTe2 Transistors. *Advanced Electronic Materials*, **2020**, 6, 2000532	6.4	5
87	Surface-Modified Ultrathin InSe Nanosheets with Enhanced Stability and Photoluminescence for High-Performance Optoelectronics. *ACS Nano*, **2020**, 14, 11373-11382	16.7	18

86	Defect-induced nucleation and epitaxial growth of a MOF-derived hierarchical MoC@Co architecture for an efficient hydrogen evolution reaction.. *RSC Advances*, **2020**, 10, 13838-13847	3.7	3
85	High-Quality Ruddlesden-Popper Perovskite Films Based on In Situ Formed Organic Spacer Cations. *Advanced Materials*, **2019**, 31, e1904243	24	27
84	Mumps virus infection disrupts blood-testis barrier through the induction of TNF- n Sertoli cells. *FASEB Journal*, **2019**, 33, 12528-12540	0.9	22
83	Ultrahigh-current-density niobium disulfide catalysts for hydrogen evolution. *Nature Materials*, **2019**, 18, 1309-1314	27	148
82	Facile synthesis of 2D ultrathin and ultrahigh specific surface hierarchical porous carbon nanosheets for advanced energy storage. *Carbon*, **2019**, 155, 674-685	10.4	10
81	Impact of Antifouling PEG Layer on the Performance of Functional Peptides in Regulating Cell Behaviors. *Journal of the American Chemical Society*, **2019**, 141, 16772-16780	16.4	68
80	Ultrabroadband Near-perfect Anisotropic Metamaterial Absorber Based on a Curved Periodic W/TPX Stack. *Nanoscale and Microscale Thermophysical Engineering*, **2019**, 23, 67-78	3.7	2
79	Unraveling High-Yield Phase-Transition Dynamics in Transition Metal Dichalcogenides on Metallic Substrates. *Advanced Science*, **2019**, 6, 1802093	13.6	14
78	Defect Reconstruction Triggered Full-Color Photodetection in Single Nanowire Phototransistor. *ACS Photonics*, **2019**, 6, 886-894	6.3	23
77	Modulation of New Excitons in Transition Metal Dichalcogenide-Perovskite Oxide System. *Advanced Science*, **2019**, 6, 1900446	13.6	3
76	Surface Catalytic Modification of Conjugated Polymer on Low-Cost Bottom Contact for Improved Injection Efficiency of Organic Transistors. *Advanced Electronic Materials*, **2019**, 5, 1900028	6.4	0
75	Stable, High-Sensitivity and Fast-Response Photodetectors Based on Lead-Free Cs2AgBiBr6 Double Perovskite Films. *Advanced Optical Materials*, **2019**, 7, 1801732	8.1	77
74	Pressure-Controlled Structural Symmetry Transition in Layered InSe. *Laser and Photonics Reviews*, **2019**, 13, 1900012	8.3	7
73	High-Performance, Room Temperature, Ultra-Broadband Photodetectors Based on Air-Stable PdSe. *Advanced Materials*, **2019**, 31, e1807609	24	135
72	Host defense peptide mimicking poly- peptides with fast, potent and broad spectrum antibacterial activities. *Biomaterials Science*, **2019**, 7, 2144-2151	7.4	59
71	Phase Identification and Strong Second Harmonic Generation in Pure nSe and Its Alloys. *Nano Letters*, **2019**, 19, 2634-2640	11.5	50
70	Rational molecular passivation for high-performance perovskite light-emitting diodes. *Nature Photonics*, **2019**, 13, 418-424	33.9	638
69	Single Atomic Vacancy Catalysis. *ACS Nano*, **2019**, 13, 9958-9964	16.7	57

68	The modulation of terahertz photoconductivity in CVD grown n-doped monolayer MoS with gas adsorption. *Journal of Physics Condensed Matter*, **2019**, 31, 245001	1.8	8
67	Efficient synthesis of amino acid polymers for protein stabilization. *Biomaterials Science*, **2019**, 7, 3675-3682	5.4	8
66	Plasmon-Free Surface-Enhanced Raman Spectroscopy Using Metallic 2D Materials. *ACS Nano*, **2019**, 13, 8312-8319	16.7	54
65	Continuously Tuning Electronic Properties of Few-Layer Molybdenum Ditelluride with Aluminum Modification toward Ultrahigh Gain Complementary Inverters. *ACS Nano*, **2019**, 13, 9464-9472	16.7	21
64	Pattern recognition receptor-mediated innate immune responses in seminal vesicle epithelial cell and their impacts on cellular function *Biology of Reproduction*, **2019**, 101, 733-747	3.9	7
63	Structure and effective charge characterization of proteins by a mobility capillary electrophoresis based method. *Chemical Science*, **2019**, 10, 7779-7787	9.4	18
62	Three-Dimensional Resonant Exciton in Monolayer Tungsten Diselenide Actuated by Spin-Orbit Coupling. *ACS Nano*, **2019**, 13, 14529-14539	16.7	5
61	Mobility Capillary Electrophoresis-Restrained Modeling Method for Protein Structure Analysis in Mixtures. *Journal of Physical Chemistry B*, **2019**, 123, 2335-2341	3.4	10
60	Significant photoluminescence enhancement in WS monolayers through NaS treatment. *Nanoscale*, **2018**, 10, 6105-6112	7.7	21
59	MoS-coated NbS nanoflakes grown on glass carbon: an advanced electrocatalyst for the hydrogen evolution reaction. *Nanoscale*, **2018**, 10, 3444-3450	7.7	17
58	High Performance and Stable All-Inorganic Metal Halide Perovskite-Based Photodetectors for Optical Communication Applications. *Advanced Materials*, **2018**, 30, e1803422	24	224
57	Raman scattering enhancement of a single ZnO nanorod decorated with Ag nanoparticles: synergies of defects and plasmons: publisher's note. *Optics Letters*, **2018**, 43, 2627	3	
56	Raman scattering enhancement of a single ZnO nanorod decorated with Ag nanoparticles: synergies of defects and plasmons. *Optics Letters*, **2018**, 43, 2244-2247	3	9
55	Discovering the forbidden Raman modes at the edges of layered materials. *Science Advances*, **2018**, 4, eaau6252	14.3	26
54	Tuning the bioactivity of bone morphogenetic protein-2 with surface immobilization strategies. *Acta Biomaterialia*, **2018**, 80, 108-120	10.8	18
53	Symmetrical synergy of hybrid Co9S8-MoSx electrocatalysts for hydrogen evolution reaction. *Nano Energy*, **2017**, 32, 470-478	17.1	81
52	Two-step fabrication of single-layer rectangular SnSe flakes. *2D Materials*, **2017**, 4, 021026	5.9	43
51	Symmetric synergy of hybrid CoS2 WS2 electrocatalysts for the hydrogen evolution reaction. *Journal of Materials Chemistry A*, **2017**, 5, 15552-15558	13	63

50	Reducing the Schottky barrier between few-layer MoTe 2 and gold. *2D Materials*, **2017**, 4, 045016	5.9	23
49	Tunable inverted gap in monolayer quasi-metallic MoS induced by strong charge-lattice coupling. *Nature Communications*, **2017**, 8, 486	17.4	55
48	A two-step method for rapid characterization of electroosmotic flows in capillary electrophoresis. *Electrophoresis*, **2017**, 38, 3130-3135	3.6	11
47	Fabry-Perot Cavity-Enhanced Optical Absorption in Ultrasensitive Tunable Photodiodes Based on Hybrid 2D Materials. *Nano Letters*, **2017**, 17, 7593-7598	11.5	35
46	Giant photoluminescence enhancement in tungsten-diselenide-gold plasmonic hybrid structures. *Nature Communications*, **2016**, 7, 11283	17.4	201
45	Use of Single-Layer g-CN/Ag Hybrids for Surface-Enhanced Raman Scattering (SERS). *Scientific Reports*, **2016**, 6, 34599	4.9	37
44	Negative-index gratings formed by femtosecond laser overexposure and thermal regeneration. *Scientific Reports*, **2016**, 6, 23379	4.9	24
43	Heterointerface Screening Effects between Organic Monolayers and Monolayer Transition Metal Dichalcogenides. *ACS Nano*, **2016**, 10, 2476-84	16.7	66
42	Strontium attenuates rhBMP-2-induced osteogenic differentiation via formation of Sr-rhBMP-2 complex and suppression of Smad-dependent signaling pathway. *Acta Biomaterialia*, **2016**, 33, 290-300	10.8	30
41	Van der Waals stacked 2D layered materials for optoelectronics. *2D Materials*, **2016**, 3, 022001	5.9	161
40	Gap States at Low-Angle Grain Boundaries in Monolayer Tungsten Diselenide. *Nano Letters*, **2016**, 16, 3682-8	11.5	46
39	Calcium ion-induced formation of β-sheet/-turn structure leading to alteration of osteogenic activity of bone morphogenetic protein-2. *Scientific Reports*, **2015**, 5, 12694	4.9	21
38	Bandgap tunability at single-layer molybdenum disulphide grain boundaries. *Nature Communications*, **2015**, 6, 6298	17.4	291
37	Ultrahigh-gain photodetectors based on atomically thin graphene-MoS2 heterostructures. *Scientific Reports*, **2014**, 4, 3826	4.9	678
36	Fluorinated graphene as high performance dielectric materials and the applications for graphene nanoelectronics. *Scientific Reports*, **2014**, 4, 5893	4.9	114
35	Graphene/MoS(2) heterostructures for ultrasensitive detection of DNA hybridisation. *Advanced Materials*, **2014**, 26, 4838-44	24	251
34	Monolayer MoSe2 grown by chemical vapor deposition for fast photodetection. *ACS Nano*, **2014**, 8, 8582-90	13.7	413
33	Spectroscopic signatures for interlayer coupling in MoS2-WSe2 van der Waals stacking. *ACS Nano*, **2014**, 8, 9649-56	16.7	233

32	Role of metal contacts in high-performance phototransistors based on WSe2 monolayers. *ACS Nano* , **2014**, 8, 8653-61	16.7	317
31	One-step formation of a single atomic-layer transistor by the selective fluorination of a graphene film. *Small*, **2014**, 10, 989-97	11	51
30	Nitrogen-doped graphene sheets grown by chemical vapor deposition: synthesis and influence of nitrogen impurities on carrier transport. *ACS Nano*, **2013**, 7, 6522-32	16.7	229
29	Highly efficient electrocatalytic hydrogen production by MoS(x) grown on graphene-protected 3D Ni foams. *Advanced Materials*, **2013**, 25, 756-60	24	625
28	High-gain phototransistors based on a CVD MoS monolayer. *Advanced Materials*, **2013**, 25, 3456-61	24	743
27	Molecular adsorption induces the transformation of rhombohedral- to Bernal-stacking order in trilayer graphene. *Nature Communications*, **2013**, 4, 2074	17.4	26
26	Growth selectivity of hexagonal-boron nitride layers on Ni with various crystal orientations. *RSC Advances*, **2012**, 2, 111-115	3.7	66
25	Wafer-scale MoS2 thin layers prepared by MoO3 sulfurization. *Nanoscale*, **2012**, 4, 6637-41	7.7	538
24	Electrical probing of submicroliter liquid using graphene strip transistors built on a nanopipette. *Small*, **2012**, 8, 43-6	11	31
23	Converting graphene oxide monolayers into boron carbonitride nanosheets by substitutional doping. *Small*, **2012**, 8, 1384-91	11	87
22	Synthesis of large-area MoS2 atomic layers with chemical vapor deposition. *Advanced Materials*, **2012**, 24, 2320-5	24	2571
21	Growth of large-area and highly crystalline MoS2 thin layers on insulating substrates. *Nano Letters*, **2012**, 12, 1538-44	11.5	1552
20	The electrical properties of graphene modified by bromophenyl groups derived from a diazonium compound. *Carbon*, **2012**, 50, 1517-1522	10.4	43
19	Direct formation of wafer scale graphene thin layers on insulating substrates by chemical vapor deposition. *Nano Letters*, **2011**, 11, 3612-6	11.5	254
18	Opening an electrical band gap of bilayer graphene with molecular doping. *ACS Nano*, **2011**, 5, 7517-24	16.7	191
17	Observation of phonon anomaly at the armchair edge of single-layer graphene in air. *ACS Nano*, **2011**, 5, 3347-53	16.7	11
16	Mobility Enhancement in Carbon Nanotube Transistors by Screening Charge Impurity with Silica Nanoparticles. *Journal of Physical Chemistry C*, **2011**, 115, 6975-6979	3.8	14
15	The screening of charged impurities in bilayer graphene. *New Journal of Physics*, **2010**, 12, 103037	2.9	13

14	Ultra-large single-layer graphene obtained from solution chemical reduction and its electrical properties. *Physical Chemistry Chemical Physics*, **2010**, 12, 2164-9	3.6	155
13	Highly efficient restoration of graphitic structure in graphene oxide using alcohol vapors. *ACS Nano* , **2010**, 4, 5285-92	16.7	227
12	Influence of field evaporation treatment on the field emission properties of carbon nanotubes array. *Applied Surface Science*, **2010**, 256, 3912-3916	6.7	4
11	Photoelectrical response in single-layer graphene transistors. *Small*, **2009**, 5, 2005-11	11	130
10	Energy Transfer from Photo-Excited Fluorene Polymers to Single-Walled Carbon Nanotubes. *Journal of Physical Chemistry C*, **2009**, 113, 14946-14952	3.8	49
9	Electrical and Spectroscopic Characterizations of Ultra-Large Reduced Graphene Oxide Monolayers. *Chemistry of Materials*, **2009**, 21, 5674-5680	9.6	425
8	The effects of contacts and ambipolar electrical transport in nitrogen doped multiwall carbon nanotubes. *Nanotechnology*, **2008**, 19, 085202	3.4	14
7	Gate voltage dependent characteristics of p-n diodes and bipolar transistors based on multiwall CN(x)/carbon nanotube intramolecular junctions. *Nanotechnology*, **2007**, 18, 395205	3.4	5
6	Time-related conversion of the carbon nanotube field effect transistor. *Applied Physics Letters*, **2006**, 89, 233507	3.4	3
5	Nanodiode based on a multiwall CN(x)/carbon nanotube intramolecular junction. *Nanotechnology*, **2005**, 16, 2134-7	3.4	38
4	Flexible Photodetectors Based on All-Solution-Processed Cu Electrodes and InSe Nanoflakes with High Stabilities. *Advanced Functional Materials*,2108261	15.6	5
3	Precise Layer-Dependent Electronic Structure of MBE-Grown PtSe2. *Advanced Electronic Materials*,2100559	6.4	4
2	Epitaxial Growth of 2D Ternary Copper Indium Selenide Nanoflakes for High-Performance Near-Infrared Photodetectors. *Advanced Optical Materials*,2200033	8.1	2
1	Bandgap Engineering of Ternary InSe 1−x S x and InSe 1−y Te y Single Crystals for High-Performance Electronics and Optoelectronics. *Advanced Optical Materials*,2200063	8.1	0