Zhigang Zhao

List of Publications by Citations

128 papers	5,818 citations	40 h-index	74 g-index
141 ext. papers	6,978 ext. citations	8.4 avg, IF	6.11 L-index

#	Paper	IF	Citations
128	Noble metal-comparable SERS enhancement from semiconducting metal oxides by making oxygen vacancies. *Nature Communications*, **2015**, 6, 7800	17.4	375
127	Nanoporous-walled tungsten oxide nanotubes as highly active visible-light-driven photocatalysts. *Angewandte Chemie - International Edition*, **2008**, 47, 7051-5	16.4	335
126	Single-crystalline tungsten oxide quantum dots for fast pseudocapacitor and electrochromic applications. *Advanced Materials*, **2014**, 26, 4260-7	24	285
125	Synergy of W18O49 and polyaniline for smart supercapacitor electrode integrated with energy level indicating functionality. *Nano Letters*, **2014**, 14, 2150-6	11.5	230
124	Coupling Molecularly Ultrathin Sheets of NiFe-Layered Double Hydroxide on NiCoO Nanowire Arrays for Highly Efficient Overall Water-Splitting Activity. *ACS Applied Materials & Interfaces*, **2017**, 9, 1488-1495	9.5	197
123	Graphene-based materials for capacitive deionization. *Journal of Materials Chemistry A*, **2017**, 5, 13907-13943	13	189
122	Composite anode material of silicon/graphite/carbon nanotubes for Li-ion batteries. *Electrochimica Acta*, **2006**, 51, 4994-5000	6.7	189
121	Semiconductor SERS enhancement enabled by oxygen incorporation. *Nature Communications*, **2017**, 8, 1993	17.4	184
120	Efficient Visible Light Active CaFe2O4/WO3 Based Composite Photocatalysts: Effect of Interfacial Modification. *Journal of Physical Chemistry C*, **2009**, 113, 17132-17137	3.8	171
119	Tungsten Oxide Materials for Optoelectronic Applications. *Advanced Materials*, **2016**, 28, 10518-10528	24	161
118	Hierarchical BiOCl microflowers with improved visible-light-driven photocatalytic activity by Fe(III) modification. *Applied Catalysis B: Environmental*, **2015**, 174-175, 105-112	21.8	135
117	Flexible Lithium-Ion Fiber Battery by the Regular Stacking of Two-Dimensional Titanium Oxide Nanosheets Hybridized with Reduced Graphene Oxide. *Nano Letters*, **2017**, 17, 3543-3549	11.5	119
116	A few-layered Ti3C2 nanosheet/glass fiber composite separator as a lithium polysulphide reservoir for high-performance lithium–sulfur batteries. *Journal of Materials Chemistry A*, **2016**, 4, 5993-5998	13	112
115	Molecularly Stacking Manganese Dioxide/Titanium Carbide Sheets to Produce Highly Flexible and Conductive Film Electrodes with Improved Pseudocapacitive Performances. *Advanced Energy Materials*, **2017**, 7, 1602834	21.8	109
114	Single crystalline zinc stannate nanoparticles for efficient photo-electrochemical devices. *Chemical Communications*, **2010**, 46, 1529-31	5.8	106
113	The growth of multi-walled carbon nanotubes with different morphologies on carbon fibers. *Carbon*, **2005**, 43, 663-665	10.4	106
112	Fusing electrochromic technology with other advanced technologies: A new roadmap for future development. *Materials Science and Engineering Reports*, **2020**, 140, 100524	30.9	101

111	Electrostatic-Interaction-Assisted Construction of 3D Networks of Manganese Dioxide Nanosheets for Flexible High-Performance Solid-State Asymmetric Supercapacitors. *ACS Nano*, **2017**, 11, 7879-7888	16.7	100
110	Enhancing the performance of quantum dots sensitized solar cell by SiO2 surface coating. *Applied Physics Letters*, **2010**, 96, 233107	3.4	91
109	Versatile Cutting Method for Producing Fluorescent Ultrasmall MXene Sheets. *ACS Nano*, **2017**, 11, 11559-11565	16.7	90
108	Metal-Organic Frameworks as Surface Enhanced Raman Scattering Substrates with High Tailorability. *Journal of the American Chemical Society*, **2019**, 141, 870-878	16.4	90
107	Unconventional Aluminum Ion Intercalation/Deintercalation for Fast Switching and Highly Stable Electrochromism. *Advanced Functional Materials*, **2015**, 25, 5833-5839	15.6	89
106	Field emission from AlN nanorod array. *Applied Physics Letters*, **2005**, 86, 153104	3.4	84
105	Facile and Controlled Synthesis of 3D Nanorods-Based Urchinlike and Nanosheets-Based Flowerlike Cobalt Basic Salt Nanostructures. *Journal of Physical Chemistry C*, **2007**, 111, 3848-3852	3.8	81
104	Coordination-controlled single-atom tungsten as a non-3d-metal oxygen reduction reaction electrocatalyst with ultrahigh mass activity. *Nano Energy*, **2019**, 60, 394-403	17.1	80
103	Towards full-colour tunability of inorganic electrochromic devices using ultracompact fabry-perot nanocavities. *Nature Communications*, **2020**, 11, 302	17.4	79
102	Trace H2 O2 -Assisted High-Capacity Tungsten Oxide Electrochromic Batteries with Ultrafast Charging in Seconds. *Angewandte Chemie - International Edition*, **2016**, 55, 7161-5	16.4	79
101	Electrochromic semiconductors as colorimetric SERS substrates with high reproducibility and renewability. *Nature Communications*, **2019**, 10, 678	17.4	75
100	Nanocrystalline electrodes based on nanoporous-walled WO3 nanotubes for organic-dye-sensitized solar cells. *Langmuir*, **2011**, 27, 12730-6	4	74
99	Nature-inspired construction, characterization, and photocatalytic properties of single-crystalline tungsten oxide octahedra. *Chemical Communications*, **2010**, 46, 3321-3	5.8	73
98	Nanoporous-Walled Tungsten Oxide Nanotubes as Highly Active Visible-Light-Driven Photocatalysts. *Angewandte Chemie*, **2008**, 120, 7159-7163	3.6	70
97	Combined Loss of Tet1 and Tet2 Promotes B Cell, but Not Myeloid Malignancies, in Mice. *Cell Reports*, **2015**, 13, 1692-704	10.6	65
96	Tet2 loss leads to hypermutagenicity in haematopoietic stem/progenitor cells. *Nature Communications*, **2017**, 8, 15102	17.4	61
95	Shape Modulation of Tungstic Acid and Tungsten Oxide Hollow Structures. *Journal of Physical Chemistry C*, **2009**, 113, 6539-6546	3.8	57
94	Direct growth of carbon nanotubes on the surface of ceramic fibers. *Carbon*, **2005**, 43, 883-886	10.4	56

93	Eutectoid-structured WC/W2C heterostructures: A new platform for long-term alkaline hydrogen evolution reaction at low overpotentials. *Nano Energy*, **2020**, 68, 104335	17.1	55
92	Tailored Remote Photochromic Coloration of in situ Synthesized CdS Quantum Dot Loaded WO3 Films. *Advanced Functional Materials*, **2010**, 20, 4162-4167	15.6	51
91	Fabry-Perot Cavity-Type Electrochromic Supercapacitors with Exceptionally Versatile Color Tunability. *Nano Letters*, **2020**, 20, 1915-1922	11.5	48
90	Block copolymer templated nanoporous TiO2 for quantum-dot-sensitized solar cells. *Journal of Materials Chemistry*, **2010**, 20, 492-497		42
89	Using Intrinsic Intracrystalline Tunnels for Near-Infrared and Visible-Light Selective Electrochromic Modulation. *Advanced Optical Materials*, **2017**, 5, 1700194	8.1	40
88	Moisture-Driven Power Generation for Multifunctional Flexible Sensing Systems. *Nano Letters*, **2019**, 19, 5544-5552	11.5	39
87	Aligned coaxial tungsten oxide-carbon nanotube sheet: a flexible and gradient electrochromic film. *Chemical Communications*, **2012**, 48, 8252-4	5.8	38
86	An environment-friendly microemulsion approach to □FeOOH nanorods at room temperature. *Materials Research Bulletin*, **2006**, 41, 2238-2243	5.1	35
85	Surface Enhanced Raman Scattering Revealed by Interfacial Charge-Transfer Transitions. *Innovation(China)*, **2020**, 1, 100051	17.8	35
84	Ultrathin Two-Dimensional Nanostructures: Surface Defects for Morphology-Driven Enhanced Semiconductor SERS. *Angewandte Chemie - International Edition*, **2021**, 60, 5505-5511	16.4	35
83	Cationic two-dimensional sheets for an ultralight electrostatic polysulfide trap toward high-performance lithium-sulfur batteries. *Energy Storage Materials*, **2017**, 9, 39-46	19.4	31
82	A simple and low-temperature hydrothermal route for the synthesis of tubular □FeOOH. *Materials Letters*, **2007**, 61, 4794-4796	3.3	31
81	Fabrication of TiO2/WO3 Composite Nanofibers by Electrospinning and Photocatalystic Performance of the Resultant Fabrics. *Industrial & Engineering Chemistry Research*, **2016**, 55, 80-85	3.9	29
80	A simple solution route to controlled synthesis of ZnS submicrospheres, nanosheets and nanorods. *Nanotechnology*, **2006**, 17, 4731-5	3.4	29
79	Macroscopic and Strong Ribbons of Functionality-Rich Metal Oxides from Highly Ordered Assembly of Unilamellar Sheets. *Journal of the American Chemical Society*, **2015**, 137, 13200-8	16.4	28
78	In-situ formation of cobalt-phosphate oxygen-evolving complex-anchored reduced graphene oxide nanosheets for oxygen reduction reaction. *Scientific Reports*, **2013**, 3, 2263	4.9	28
77	A novel visible-light-driven photochromic material with high-reversibility: tungsten oxide-based organic-inorganic hybrid microflowers. *Chemical Communications*, **2009**, 2204-6	5.8	28
76	TET2 Loss Dysregulates the Behavior of Bone Marrow Mesenchymal Stromal Cells and Accelerates Tet2-Driven Myeloid Malignancy Progression. *Stem Cell Reports*, **2018**, 10, 166-179	8	24

75	Remarkable Near-Infrared Electrochromism in Tungsten Oxide Driven by Interlayer Water-Induced Battery-to-Pseudocapacitor Transition. *ACS Applied Materials & Interfaces*, **2020**, 12, 33917-33925	9.5	23
74	Applications of CRISPR/Cas9 Technology in the Treatment of Lung Cancer. *Trends in Molecular Medicine*, **2019**, 25, 1039-1049	11.5	23
73	Synthesis and properties of flame-retardant poly(vinyl alcohol)/pseudo-boehmite nanocomposites with high transparency and enhanced refractive index. *Polymer Degradation and Stability*, **2014**, 99, 53-60	4.7	23
72	Rational design of galvanically replaced Pt-anchored electrospun WO3 nanofibers as efficient electrode materials for methanol oxidation. *Journal of Materials Chemistry*, **2012**, 22, 16514		23
71	Surface treatment- and calcination temperature-dependent adsorption of methyl orange molecules in wastewater on self-standing alumina nanofiber films. *Journal of Materials Chemistry*, **2011**, 21, 14984		23
70	Surface Wetting Behavior of a WO3 Electrode under Light-Irradiated or Potential-Controlled Conditions. *Journal of Physical Chemistry C*, **2009**, 113, 10642-10646	3.8	22
69	Tailoring the structure and nitrogen content of nitrogen-doped carbon nanotubes by water-assisted growth. *Carbon*, **2014**, 69, 247-254	10.4	21
68	Novel cigarlike TiO2 nanofibers: fabrication, improved mechanical, and electrochemical performances. *ACS Applied Materials & Interfaces*, **2013**, 5, 2278-82	9.5	20
67	Designing large-plane conjugated copolymers for the high-yield sorting of semiconducting single-walled carbon nanotubes. *Chemical Communications*, **2013**, 49, 10492-4	5.8	20
66	Visible-light-driven superhydrophilicity by interfacial charge transfer between metal ions and metal oxide nanostructures. *Langmuir*, **2010**, 26, 796-801	4	20
65	Photodegradable CuS SERS Probes for Intraoperative Residual Tumor Detection, Ablation, and Self-Clearance. *ACS Applied Materials & Interfaces*, **2019**, 11, 23436-23444	9.5	19
64	Tet2 Regulates Osteoclast Differentiation by Interacting with Runx1 and Maintaining Genomic 5-Hydroxymethylcytosine (5hmC). *Genomics, Proteomics and Bioinformatics*, **2018**, 16, 172-186	6.5	18
63	Mimicking Nature's Butterflies: Electrochromic Devices with Dual-Sided Differential Colorations. *Advanced Materials*, **2021**, 33, e2007314	24	18
62	Preparation of elastic diglycolamic-acid modified chitosan sponges and their application to recycling of rare-earth from waste phosphor powder. *Carbohydrate Polymers*, **2018**, 190, 255-261	10.3	17
61	Robust and aligned carbon nanotube/titania core/shell films for flexible TCO-free photoelectrodes. *Small*, **2013**, 9, 148-55	11	17
60	High prevalence of hepatitis B virus infection in patients with aggressive B cell non-Hodgkin's lymphoma in China. *Annals of Hematology*, **2018**, 97, 453-457	3	17
59	Populating surface-trapped electrons towards SERS enhancement of WO nanowires. *Chemical Communications*, **2018**, 54, 6332-6335	5.8	17
58	An aramid nanofibers-based gel polymer electrolyte with high mechanical and heat endurance for all-solid-state NIR electrochromic devices. *Solar Energy Materials and Solar Cells*, **2019**, 200, 109952	6.4	16

57	Fast preparation of ultrafine monolayered transition-metal dichalcogenide quantum dots using electrochemical shock for explosive detection. *Chemical Communications*, **2016**, 52, 11442-11445	5.8	16
56	W18O49 nanowire composites as novel barrier layers for Li batteries based on high loading of commercial micro-sized sulfur. *RSC Advances*, **2016**, 6, 15234-15239	3.7	16
55	Surface-Modified Two-Dimensional Titanium Carbide Sheets for Intrinsic Vibrational Signal-Retained Surface-Enhanced Raman Scattering with Ultrahigh Uniformity. *ACS Applied Materials & Interfaces*, **2020**, 12, 23523-23531	9.5	15
54	Giant two-dimensional titania sheets for constructing a flexible fiber sodium-ion battery with long-term cycling stability. *Energy Storage Materials*, **2020**, 24, 504-511	19.4	15
53	Rapid Synthesis of Sub-5 nm Sized Cubic Boron Nitride Nanocrystals with High-Piezoelectric Behavior via Electrochemical Shock. *Nano Letters*, **2017**, 17, 355-361	11.5	14
52	Molecularly Coupled Two-Dimensional Titanium Oxide and Carbide Sheets for Wearable and High-Rate Quasi-Solid-State Rechargeable Batteries. *Advanced Functional Materials*, **2019**, 29, 1901576	15.6	13
51	Tuning Sulfur Doping for Bifunctional Electrocatalyst with Selectivity between Oxygen and Hydrogen Evolution. *ACS Applied Energy Materials*, **2018**, 1, 5822-5829	6.1	12
50	Color-Changing Microfiber-Based Multifunctional Window Screen for Capture and Visualized Monitoring of NH. *ACS Applied Materials & Interfaces*, **2018**, 10, 15065-15072	9.5	11
49	Light emission and degradation of single-walled carbon nanotube filament. *Journal of Applied Physics*, **2005**, 98, 044306	2.5	11
48	Clinical characteristics of 26 patients with primary extranodal Hodgkin lymphoma. *International Journal of Clinical and Experimental Pathology*, **2014**, 7, 5045-50	1.4	11
47	MOF-derived vertically stacked Mn2O3@C flakes for fiber-shaped zinc-ion batteries. *Journal of Materials Chemistry A*, **2020**, 8, 24031-24039	13	10
46	HOXBLINC long non-coding RNA activation promotes leukemogenesis in NPM1-mutant acute myeloid leukemia. *Nature Communications*, **2021**, 12, 1956	17.4	10
45	Toll-like receptor 4-induced inflammatory responses contribute to the tumor-associated macrophages formation and infiltration in patients with diffuse large B-cell lymphoma. *Annals of Diagnostic Pathology*, **2015**, 19, 232-8	2.2	9
44	Highly selective and sensitive probes for the detection of Cr(vi) in aqueous solutions using diglycolic acid-functionalized Au nanoparticles.. *RSC Advances*, **2019**, 9, 10958-10965	3.7	8
43	Boosting Electrocatalytic Performances of Palladium Nanoparticles by Coupling with Metallic Single-Walled Carbon Nanotubes. *Chemistry of Materials*, **2014**, 26, 2789-2794	9.6	8
42	Novel prognostic scoring system for diffuse large B-cell lymphoma. *Oncology Letters*, **2018**, 15, 5325-5332	2.6	7
41	Trace H2O2-Assisted High-Capacity Tungsten Oxide Electrochromic Batteries with Ultrafast Charging in Seconds. *Angewandte Chemie*, **2016**, 128, 7277-7281	3.6	7
40	A "three-in-one" water treatment material: nitrogen-doped tungstic acid. *Chemical Communications* , **2013**, 49, 5787-9	5.8	7

39	A comparison between field-emission properties of three one-dimensional carbon materials. *Physica B: Condensed Matter*, **2007**, 396, 44-48	2.8	7
38	A Dopant Replacement-Driven Molten Salt Method toward the Synthesis of Sub-5-nm-Sized Ultrathin Nanowires. *Small*, **2020**, 16, e2001098	11	6
37	LOW TEMPERATURE SYNTHESIS OF Mg(OH)2 NANOTUBES IN AQUEOUS SOLUTIONS OF BLOCK COPOLYMER P123. *Nano*, **2006**, 01, 185-189	1.1	6
36	Vibrant Color Palettes of Electrochromic Manganese Oxide Electrodes for Colorful Zn-Ion Battery. *Advanced Optical Materials*, **2021**, 9, 2100637	8.1	6
35	Off-centered-symmetry-based band structure modulation of hexagonal WO. *Journal of Physics Condensed Matter*, **2019**, 31, 355501	1.8	5
34	Effective decontamination of 99TcO4⁻/ReO4⁻ from Hanford low-activity waste by functionalized graphene oxide–chitosan sponges. *Environmental Chemistry Letters*, **2020**, 18, 1379-1388	13.3	5
33	Clinical characteristics and prognosis of multiple myeloma with bone-related extramedullary disease at diagnosis. *Bioscience Reports*, **2018**, 38,	4.1	5
32	Self-standing microporous films of arrayed alumina nano-fibers including Schiff base molecules: effect of the environment around the molecules on their photo-luminescence. *Journal of Materials Chemistry*, **2012**, 22, 9738		5
31	Defect engineering in semiconductor-based SERS.. *Chemical Science*, **2022**, 13, 1210-1224	9.4	5
30	Electrochromic Metamaterials of Metal-Dielectric Stacks for Multicolor Displays with High Color Purity. *Nano Letters*, **2021**, 21, 6891-6897	11.5	5
29	Flexible Quasi-Solid-State Sodium-Ion Batteries Built by Stacking Two-Dimensional Titania Sheets with Carbon Nanotube Spacers. *ACS Applied Energy Materials*, **2019**, 2, 5707-5715	6.1	4
28	Effect of geometrical parameters on the field-emission properties of single-walled carbon nanotube ropes. *Journal of Materials Research*, **2003**, 18, 2188-2193	2.5	4
27	Defective cuprous oxide as a selective surface-enhanced Raman scattering sensor of dye adulteration in Chinese herbal medicines. *Journal of Raman Spectroscopy*, **2021**, 52, 1265	2.3	4
26	A lower ALC/AMC ratio is associated with poor prognosis of peripheral T-cell lymphoma-not otherwise specified. *Leukemia Research*, **2018**, 73, 5-11	2.7	4
25	Correlation Between Uptake of F-FDG During PET/CT and Ki-67 Expression in Patients Newly Diagnosed With Multiple Myeloma Having Extramedullary Involvement. *Technology in Cancer Research and Treatment*, **2019**, 18, 1533033819849067	2.7	3
24	miR-150 is a negative independent prognostic biomarker for primary gastrointestinal diffuse large B-cell lymphoma. *Oncology Letters*, **2020**, 19, 3487-3494	2.6	3
23	Control of the separation order of Au(III), Pd(II), and Pt(IV) achieved by site-controllable carboxyl-functionalized diethylaminoethyl celluloses. *Cellulose*, **2020**, 27, 10167-10181	5.5	3
22	Comorbidity as an independent prognostic factor in elderly patients with peripheral T-cell lymphoma. *OncoTargets and Therapy*, **2016**, 9, 1795-9	4.4	3

21	Ultrathin Two-Dimensional Nanostructures: Surface Defects for Morphology-Driven Enhanced Semiconductor SERS. *Angewandte Chemie*, **2021**, 133, 5565-5571	3.6	3
20	The WilmsStumor gene-1 is a prognostic factor in myelodysplastic syndrome: a meta analysis. *Oncotarget*, **2018**, 9, 16205-16212	3.3	3
19	EVI1 expression predicts outcome in higher-risk myelodysplastic syndrome patients. *Leukemia and Lymphoma*, **2018**, 59, 2929-2940	1.9	3
18	Quantum Effects Enter Semiconductor-Based SERS: Multiresonant MoO□HO Quantum Dots Enabling Direct, Sensitive SERS Detection of Small Inorganic Molecules.. *Analytical Chemistry*, **2022**,	7.8	3
17	Clinical characteristics and prognosis associated with multiple primary malignant tumors in non-Hodgkin lymphoma patients. *Tumori*, **2019**, 105, 474-482	1.7	2
16	Thermal migration towards constructing W-W dual-sites for boosted alkaline hydrogen evolution reaction.. *Nature Communications*, **2022**, 13, 763	17.4	2
15	Hydroxyl Group-Abundant TiO2 Semiconductor SERS Sensor toward Polymerization Inhibitor Sensing. *Journal of Physical Chemistry C*, **2020**, 124, 20530-20537	3.8	2
14	Infrared Electrochromic Property of the Colorful Tungsten Oxide Films. *Wuji Cailiao Xuebao/Journal of Inorganic Materials*, **2021**, 36, 485	1	2
13	Stabilizing photo-induced vacancy defects in MOF matrix for high-performance SERS detection. *Nano Research*,1	10	2
12	A simple solution route to control synthesis of Fe3O4 nanomaterials at low temperature and their magnetic properties. *Science in China Series B: Chemistry*, **2009**, 52, 916-923		1
11	LOW TEMPERATURE SYNTHESIS OF Fe-DOPED ZnO NANOROD BUNDLES IN AQUEOUS SOLUTION. *Nano*, **2006**, 01, 153-157	1.1	1
10	Shaping different carbon nano- and submicro-structures by alcohol chemical vapor deposition. *Journal of Materials Research*, **2006**, 21, 2504-2509	2.5	1
9	Characteristics of myeloid sarcoma in mice and patients with deficiency. *Oncology Letters*, **2020**, 19, 3789-3798	2.6	1
8	Overexpression of microRNA-130a predicts adverse prognosis of primary gastrointestinal diffuse large B-cell lymphoma. *Oncology Letters*, **2020**, 20, 93	2.6	1
7	APD Compressible Aerogel-Like Monoliths with Potential Use in Environmental Remediation. *Materials*, **2019**, 12,	3.5	1
6	Electrochemical fabrication of ultrafine g-C3N4 quantum dots as a catalyst for the hydrogen evolution reaction. *New Carbon Materials*, **2022**, 37, 392-399	4.4	1
5	Multiplex ligation-dependent probe amplification identifies copy number changes in normal and undetectable karyotype MDS patients. *Annals of Hematology*, **2021**, 100, 2207-2214	3	0
4	Modified conditioning regimen with idarubicin followed by autologous hematopoietic stem cell transplantation for invasive B-cell non-Hodgkin's lymphoma patients. *Scientific Reports*, **2021**, 11, 4273	4.9	0

3	Symmetry-breaking triggered by atomic tungsten for largely enhanced piezoelectric response in hexagonal boron nitride. *Nano Energy*, **2022**, 99, 107375	17.1	0
2	Modified Conditioning Regimen with Idarubicin Prior to Autologous Hematopoietic Stem Cell Transplantation in B-Cell Non-Hodgkin Lymphoma. *Blood*, **2019**, 134, 5349-5349	2.2	
1	Increased MALAT1 expression predicts poor prognosis in primary gastrointestinal diffuse large B-cell lymphoma. *Clinical and Experimental Medicine*, **2021**, 1	4.9	