

Xingzhong Zhu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

83

papers

1,882

citations

28

h-index

41

g-index

87

ext. papers

2,394

ext. citations

8.1

avg, IF

5.07

L-index

#	Paper	IF	Citations
83	Au tailored on g-C ₃ N ₄ /TiO ₂ heterostructure for enhanced photocatalytic performance. <i>Journal of Alloys and Compounds</i> , 2022 , 894, 162338	5.7	7
82	Gold nanobipyramids doped with Au/Pd alloyed nanoclusters for high efficiency ethanol electrooxidation. <i>Nanoscale Advances</i> , 2022 , 4, 1827-1834	5.1	0
81	Plasmonic O dissociation and spillover expedite selective oxidation of primary C-H bonds.. <i>Chemical Science</i> , 2021 , 12, 15308-15317	9.4	3
80	Magneto-Revealing and Acceleration of Hidden Kirkendall Effect in Galvanic Replacement Reaction. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 5294-5300	6.4	1
79	Highly Uniform and Stable Transparent Electromagnetic Interference Shielding Film Based on Silver Nanowire/PEDOT:PSS Composite for High Power Microwave Shielding. <i>Macromolecular Materials and Engineering</i> , 2021 , 306, 2000607	3.9	11
78	A novel deposition mechanism of Au on Ag nanostructures involving galvanic replacement and reduction reactions. <i>Chemical Communications</i> , 2021 , 57, 8332-8335	5.8	3
77	Synthesis of porous Au/Ag alloy nanorods with tunable plasmonic properties and intrinsic hotspots for surface-enhanced Raman scattering. <i>CrystEngComm</i> , 2021 , 23, 3467-3476	3.3	1
76	PET/Ag NW/PMMA transparent electromagnetic interference shielding films with high stability and flexibility. <i>Nanoscale</i> , 2021 , 13, 8067-8076	7.7	8
75	Au nanobipyramids with Pt decoration enveloped in TiO ₂ nanoboxes for photocatalytic reactions. <i>Nanoscale Advances</i> , 2021 , 3, 4226-4234	5.1	3
74	Crystal plane effect of ceria on supported copper catalyst for liquid-phase hydrogenation of unsaturated aldehyde. <i>Journal of Colloid and Interface Science</i> , 2021 , 596, 34-43	9.3	1
73	Self-powered ultraviolet photodetector based on an n-ZnO:Ga microwire/p-Si heterojunction with the performance enhanced by a pyro-phototronic effect. <i>Optics Express</i> , 2021 , 29, 30244-30258	3.3	6
72	Highly dispersed nickel anchored on a N-doped carbon molecular sieve derived from metal-organic frameworks for efficient hydrodeoxygenation in the aqueous phase. <i>Chemical Communications</i> , 2020 , 56, 6696-6699	5.8	5
71	Highly efficient and stable transparent electromagnetic interference shielding films based on silver nanowires. <i>Nanoscale</i> , 2020 , 12, 14589-14597	7.7	46
70	Biosynthesis and Antibacterial Activity of Silver Nanoparticles Using Yeast Extract as Reducing and Capping Agents. <i>Nanoscale Research Letters</i> , 2020 , 15, 14	5	59
69	Dielectric function modelling and sensitivity forecast for Au-Ag alloy nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 14932-14940	3.6	4
68	Gold nanobipyramid-embedded ultrathin metal nanoframes for monitoring catalytic reactions. <i>Chemical Science</i> , 2020 , 11, 3198-3207	9.4	18
67	2D/2D 1T-MoS ₂ /Ti ₃ C ₂ MXene Heterostructure with Excellent Supercapacitor Performance. <i>Advanced Functional Materials</i> , 2020 , 30, 0190302	15.6	126

66	Gold nanobipyramid enveloped in alloyed nanoshell for stable plasmonic sensors. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 295303	3	2
65	Structural transformation of Au seeds: the influence of temperature and surfactants. <i>Journal of Nanophotonics</i> , 2020 , 14, 1	1.1	1
64	Realization of red plasmon shifts by the selective etching of Ag nanorods. <i>CrystEngComm</i> , 2020 , 22, 7870-7876	3.3	3
63	The synthesis of silver nanowires with tunable diameters using halide ions for flexible transparent conductive films. <i>CrystEngComm</i> , 2020 , 22, 8421-8429	7.7	7
62	Gold nanobipyramid-embedded silver-platinum hollow nanostructures for monitoring stepwise reduction and oxidation reactions. <i>Nanoscale</i> , 2020 , 12, 23663-23672	5.6	6
61	Silver Nanowires Deposited on Cellulose Nanofibers/Graphene Oxide Hybrid Membranes as Sandwich-Structured Films for Optoelectronic and SERS Applications. <i>ACS Applied Nano Materials</i> , 2020 , 3, 10844-10854	8.7	10
60	Selective Growth of High-Density Anatase {101} Twin Boundaries on High-Energy {001} Facets. <i>Small Structures</i> , 2020 , 1, 2000025	7.7	7
59	(Gold triangular nanoplate core)@(silver shell) nanostructures as highly sensitive and selective plasmonic nanoprobe for hydrogen sulfide detection. <i>Nanoscale</i> , 2020 , 12, 20250-20257	8.1	17
58	Construction of silica-encapsulated gold-silver core-shell nanorod: Atomic facets enrichment and plasmon enhanced catalytic activity with high stability and reusability. <i>Materials and Design</i> , 2019 , 177, 107837	13	28
57	Experimental and theoretical understanding on electrochemical activation and inactivation processes of Nb ₃ O ₇ (OH) for ambient electrosynthesis of NH ₃ . <i>Journal of Materials Chemistry A</i> , 2019 , 7, 16969-16978	5.6	12
56	Fabrication of Stable and Flexible Nanocomposite Membranes Comprised of Cellulose Nanofibers and Graphene Oxide for Nanofluidic Ion Transport. <i>ACS Applied Nano Materials</i> , 2019 , 2, 4193-4202	3.8	12
55	Molecular Sensitivities of Substrate-Supported Gold Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 7336-7346	6.1	12
54	Molybdenum-Doped Porous Cobalt Phosphide Nanosheets for Efficient Alkaline Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2019 , 2, 6302-6310	13	35
53	Unveiling highly ambient-stable multilayered 1T-MoS ₂ towards all-solid-state flexible supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19152-19160	6.1	11
52	Oxygen Defects Induce Strongly Coupled Pt/Metal Oxides/rGO Nanocomposites for Methanol Oxidation Reaction. <i>ACS Applied Energy Materials</i> , 2019 , 2, 5577-5583	6.3	21
51	Preferentially oriented large antimony trisulfide single-crystalline cuboids grown on polycrystalline titania film for solar cells. <i>Communications Chemistry</i> , 2019 , 2,	24	32
50	Design of Domain Structure and Realization of Ultralow Thermal Conductivity for Record-High Thermoelectric Performance in Chalcopyrite. <i>Advanced Materials</i> , 2019 , 31, e1905210	6	25
49	Alloyed Au-Ag nanorods with desired plasmonic properties and stability in harsh environments. <i>Photonics Research</i> , 2019 , 7, 558		

48	Action Recognition Based on 3D Skeleton and RGB Frame Fusion 2019 ,		8
47	Electrocatalytic glycerol oxidation enabled by surface plasmon polariton-induced hot carriers in Kretschmann configuration. <i>Nanoscale</i> , 2019 , 11, 23234-23240	7.7	2
46	Carbon-Encapsulated Metal/Metal Carbide/Metal Oxide Core/Shell Nanostructures Generated by Laser Ablation of Metals in Organic Solvents. <i>ACS Applied Nano Materials</i> , 2019 , 2, 28-39	5.6	55
45	Highly Ambient-Stable 1T-MoS and 1T-Ws by Hydrothermal Synthesis under High Magnetic Fields. <i>ACS Nano</i> , 2019 , 13, 1694-1702	16.7	89
44	Gold nanobipyramid@cuprous oxide jujube-like nanostructures for plasmon-enhanced photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018 , 234, 26-36	21.8	36
43	Broadside Nanoantennas Made of Single Silver Nanorods. <i>ACS Nano</i> , 2018 , 12, 1720-1731	16.7	15
42	Titania-Coated Gold Nano-Bipyramids for Blocking Autophagy Flux and Sensitizing Cancer Cells to Proteasome Inhibitor-Induced Death. <i>Advanced Science</i> , 2018 , 5, 1700585	13.6	37
41	Vapor-phase hydrothermal growth of single crystalline NiS ₂ nanostructure film on carbon fiber cloth for electrocatalytic oxidation of alcohols to ketones and simultaneous H ₂ evolution. <i>Nano Research</i> , 2018 , 11, 1004-1017	10	37
40	Laser-Irradiation-Induced Melting and Reduction Reaction for the Formation of Pt-Based Bimetallic Alloy Particles in Liquids. <i>ChemPhysChem</i> , 2017 , 18, 1133-1139	3.2	9
39	One-Step and Surfactant-Free Fabrication of Gold-Nanoparticle-Decorated Bismuth Oxychloride Nanosheets Based on Laser Ablation in Solution and Their Enhanced Visible-Light Plasmonic Photocatalysis. <i>ChemPhysChem</i> , 2017 , 18, 1146-1154	3.2	8
38	Facile chemical solution synthesis of p-type delafossite Ag-based transparent conducting AgCrO ₂ films in an open condition. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 1885-1892	7.1	30
37	Two-dimensional CoNi nanoparticles@S,N-doped carbon composites derived from S,N-containing Co/Ni MOFs for high performance supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 9873-9881 ¹³		52
36	Selective Pd Deposition on Au Nanobipyramids and Pd Site-Dependent Plasmonic Photocatalytic Activity. <i>Advanced Functional Materials</i> , 2017 , 27, 1700016	15.6	64
35	Gold Nanobipyramid-Enhanced Hydrogen Sensing with Plasmon Red Shifts Reaching 140 nm at 2 vol% Hydrogen Concentration. <i>Advanced Optical Materials</i> , 2017 , 5, 1700740	8.1	28
34	Realization of Red Plasmon Shifts up to ~900 nm by AgPd-Tipping Elongated Au Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13837-13846	16.4	69
33	Surface modification effects on coercivity of the CoFe ₂ O ₄ thin films with different thickness La _{0.7} Sr _{0.3} MnO ₃ layers. <i>Journal of Applied Physics</i> , 2017 , 121, 245305	2.5	5
32	Controllable Biosynthesis and Properties of Gold Nanoplates Using Yeast Extract. <i>Nano-Micro Letters</i> , 2017 , 9, 5	19.5	34
31	Surface-enhanced Raman scattering from plasmonic Ag-nanocube@Au-nanospheres core@satellites. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 217-223	2.3	6

30	Understanding the Solvent Molecules Induced Spontaneous Growth of Uncapped Tellurium Nanoparticles. <i>Scientific Reports</i> , 2016 , 6, 32631	4.9	28
29	Gold Nanobipyramid-Supported Silver Nanostructures with Narrow Plasmon Linewidths and Improved Chemical Stability. <i>Advanced Functional Materials</i> , 2016 , 26, 341-352	15.6	87
28	Size-Dependent Cytotoxicity of Thiolated Silver Nanoparticles Rapidly Probed by using Differential Pulse Voltammetry. <i>ChemElectroChem</i> , 2016 , 3, 1197-1200	4.3	1
27	Growth and in situ transformation of TiO ₂ and HTiOF ₃ crystals on chitosan-polyvinyl alcohol co-polymer substrates under vapor phase hydrothermal conditions. <i>Nano Research</i> , 2016 , 9, 745-754	10	16
26	Au/Ag core-shell nanocuboids for high-efficiency organic solar cells with broadband plasmonic enhancement. <i>Energy and Environmental Science</i> , 2016 , 9, 898-905	35.4	107
25	Photocatalytic Properties of SrTiO ₃ Nanocubes Synthesized Through Molten Salt Modified Pechini Route. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 12321-12325	1.3	5
24	Vertical La _{0.7} Ca _{0.3} MnO ₃ nanorods tailored by high magnetic field assisted pulsed laser deposition. <i>Scientific Reports</i> , 2016 , 6, 19483	4.9	15
23	Enhanced thermoelectric performance of CuGaTe ₂ based composites incorporated with graphite nanosheets. <i>Applied Physics Letters</i> , 2016 , 108, 073902	3.4	13
22	Ultrafine nickel-cobalt alloy nanoparticles incorporated into three-dimensional porous graphitic carbon as an electrode material for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 17080-17086	13	37
21	In situ synthesis of pristine-graphene/Ag nanocomposites as highly sensitive SERS substrates. <i>RSC Advances</i> , 2016 , 6, 91579-91583	3.7	6
20	Gold Nanobipyramid-Directed Growth of Length-Variable Silver Nanorods with Multipolar Plasmon Resonances. <i>ACS Nano</i> , 2015 , 9, 7523-35	16.7	102
19	Self-curved coral-like ZnO nanoplates for use as an adsorbent. <i>Journal of Colloid and Interface Science</i> , 2015 , 453, 244-251	9.3	31
18	Dielectric capacitors with three-dimensional nanoscale interdigital electrodes for energy storage. <i>Science Advances</i> , 2015 , 1, e1500605	14.3	45
17	Growth kinetics controlled rational synthesis of germanium nanotowers in chemical vapor deposition. <i>Science China Materials</i> , 2015 , 58, 877-883	7.1	
16	Synthesis of carbon nanotubes on graphene quantum dot surface by catalyst free chemical vapor deposition. <i>Carbon</i> , 2014 , 68, 399-405	10.4	14
15	Enhanced thermoelectric performance of CuGaTe ₂ based composites incorporated with nanophase Cu ₂ Se. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 2891	13	41
14	Surfactant-free synthesis of Cu ₂ O hollow spheres and their wavelength-dependent visible photocatalytic activities using LED lamps as cold light sources. <i>Nanoscale Research Letters</i> , 2014 , 9, 624	5	23
13	Highly uniform hole spacing micro brushes based on aligned carbon nanotube arrays. <i>Nanoscale Research Letters</i> , 2013 , 8, 501	5	3

12	A facile low-temperature growth of large-scale uniform two-end-open Ge nanotubes with hierarchical branches. <i>Journal of Materials Chemistry C</i> , 2013 , 1, 5471	7.1	1
11	A Generic Synthetic Approach to Large-Scale Pristine-Graphene/Metal-Nanoparticles Hybrids. <i>Advanced Functional Materials</i> , 2013 , 23, 5771-5777	15.6	40
10	Alumina-Sheathed Nanocables with Cores Consisting of Various Structures and Materials. <i>Angewandte Chemie</i> , 2011 , 123, 2084-2088	3.6	2
9	Epitaxial Growth by Chemical Solution Deposition of (110) NdNiO ₃ Films with a Sharp Metal/Insulator Transition Annealed under Ambient Oxygen. <i>Crystal Growth and Design</i> , 2010 , 10, 4682-4685	2.5	3
8	Synthesis of AuNi/NiO Nanocables by Porous AAO Template Assisted Galvanic Deposition and Subsequent Oxidation. <i>European Journal of Inorganic Chemistry</i> , 2010 , 2010, 4309-4313	2.3	3
7	Branched Silicon Nanotubes and Metal Nanowires via AAO-Template-Assistant Approach. <i>Advanced Functional Materials</i> , 2010 , 20, 3791-3796	15.6	45
6	A General Synthetic Approach to Interconnected Nanowire/Nanotube and Nanotube/Nanowire/Nanotube Heterojunctions with Branched Topology. <i>Angewandte Chemie</i> , 2009 , 121, 7302-7306	3.6	9
5	Synthesis of vertically oriented GaN nanowires on a LiAlO ₂ substrate via chemical vapor deposition. <i>Nano Research</i> , 2009 , 2, 321-326	10	16
4	Synthesis of perfect silver nanocubes by a simple polyol process. <i>Journal of Materials Research</i> , 2007 , 22, 1479-1485	2.5	20
3	Structure and thermal stability of gold nanoplates. <i>Applied Physics Letters</i> , 2006 , 88, 071904	3.4	28
2	Hole structure and its formation in thin films of hydrolyzed poly(styrene maleic anhydride) alternating copolymers. <i>Journal of Applied Polymer Science</i> , 2000 , 75, 267-274	2.9	7
1	Mutual match for semi-supervised online evolutive learning. <i>Applied Intelligence</i> ,	4.9	1