

Xingzhong Zhu

List of Publications by Year in descending order

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83
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2,870
citations

147786

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	2D/2D 1T-MoS ₂ /Ti ₃ C ₂ MXene Heterostructure with Excellent Supercapacitor Performance. <i>Advanced Functional Materials</i> , 2020, 30, 0190302.	14.9	241
2	Gold Nanobipyramid-Directed Growth of Length-Variable Silver Nanorods with Multipolar Plasmon Resonances. <i>ACS Nano</i> , 2015, 9, 7523-7535.	14.6	135
3	Highly Ambient-Stable 1T-MoS ₂ and 1T-WS ₂ by Hydrothermal Synthesis under High Magnetic Fields. <i>ACS Nano</i> , 2019, 13, 1694-1702.	14.6	131
4	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.	30.8	127
5	Biosynthesis and Antibacterial Activity of Silver Nanoparticles Using Yeast Extract as Reducing and Capping Agents. <i>Nanoscale Research Letters</i> , 2020, 15, 14.	5.7	121
6	Gold Nanobipyramid-Supported Silver Nanostructures with Narrow Plasmon Linewidths and Improved Chemical Stability. <i>Advanced Functional Materials</i> , 2016, 26, 341-352.	14.9	119
7	Realization of Red Plasmon Shifts up to ~ 14900 nm by AgPd-Tipping Elongated Au Nanocrystals. <i>Journal of the American Chemical Society</i> , 2017, 139, 13837-13846.	13.7	96
8	Selective Pd Deposition on Au Nanobipyramids and Pd Site-Dependent Plasmonic Photocatalytic Activity. <i>Advanced Functional Materials</i> , 2017, 27, 1700016.	14.9	94
9	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.	5.0	86
10	Highly efficient and stable transparent electromagnetic interference shielding films based on silver nanowires. <i>Nanoscale</i> , 2020, 12, 14589-14597.	5.6	78
11	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.	10.3	75
12	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.	10.3	71
13	Design of Domain Structure and Realization of Ultralow Thermal Conductivity for Record-High Thermoelectric Performance in Chalcopyrite. <i>Advanced Materials</i> , 2019, 31, e1905210.	21.0	61
14	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.	10.4	56
15	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.	10.3	53
16	Gold nanobipyramid@cuprous oxide jujube-like nanostructures for plasmon-enhanced photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2018, 234, 26-36.	20.2	52
17	Branched Silicon Nanotubes and Metal Nanowires via AAO-Template-Assistant Approach. <i>Advanced Functional Materials</i> , 2010, 20, 3791-3796.	14.9	50
18	Titanium-Coated Gold Nano-Bipyramids for Blocking Autophagy Flux and Sensitizing Cancer Cells to Proteasome Inhibitor-Induced Death. <i>Advanced Science</i> , 2018, 5, 1700585.	11.2	50

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19	Enhanced thermoelectric performance of CuGaTe ₂ based composites incorporated with nanophase Cu ₂ Se. <i>Journal of Materials Chemistry A</i> , 2014, 2, 2891.	10.3	49
20	Dielectric capacitors with three-dimensional nanoscale interdigital electrodes for energy storage. <i>Science Advances</i> , 2015, 1, e1500605.	10.3	49
21	Preferentially oriented large antimony trisulfide single-crystalline cuboids grown on polycrystalline titania film for solar cells. <i>Communications Chemistry</i> , 2019, 2, .	4.5	45
22	A Generic Synthetic Approach to Large-Scale Pristine Graphene/Metal Nanoparticles Hybrids. <i>Advanced Functional Materials</i> , 2013, 23, 5771-5777.	14.9	42
23	Controllable Biosynthesis and Properties of Gold Nanoplates Using Yeast Extract. <i>Nano-Micro Letters</i> , 2017, 9, 5.	27.0	42
24	PET/Ag NW/PMMA transparent electromagnetic interference shielding films with high stability and flexibility. <i>Nanoscale</i> , 2021, 13, 8067-8076.	5.6	40
25	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.	5.5	39
26	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.	10.3	39
27	Self-curved coral-like γ -Al ₂ O ₃ nanoplates for use as an adsorbent. <i>Journal of Colloid and Interface Science</i> , 2015, 453, 244-251.	9.4	38
28	Alloyed Au-Ag nanorods with desired plasmonic properties and stability in harsh environments. <i>Photonics Research</i> , 2019, 7, 558.	7.0	37
29	Gold nanobipyramid-embedded ultrathin metal nanoframes for <i>in situ</i> monitoring catalytic reactions. <i>Chemical Science</i> , 2020, 11, 3198-3207.	7.4	35
30	Gold Nanobipyramid-Enhanced Hydrogen Sensing with Plasmon Red Shifts Reaching $\lambda^{\sim}140$ nm at 2 vol% Hydrogen Concentration. <i>Advanced Optical Materials</i> , 2017, 5, 1700740.	7.3	34
31	Structure and thermal stability of gold nanoplates. <i>Applied Physics Letters</i> , 2006, 88, 071904.	3.3	33
32	Understanding the Solvent Molecules Induced Spontaneous Growth of Uncapped Tellurium Nanoparticles. <i>Scientific Reports</i> , 2016, 6, 32631.	3.3	31
33	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.	5.7	28
34	Oxygen Defects Induce Strongly Coupled Pt/Metal Oxides/rGO Nanocomposites for Methanol Oxidation Reaction. <i>ACS Applied Energy Materials</i> , 2019, 2, 5577-5583.	5.1	26
35	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.	5.0	25
36	Broadside Nanoantennas Made of Single Silver Nanorods. <i>ACS Nano</i> , 2018, 12, 1720-1731.	14.6	24

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37	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.	3.6	24
38	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.	5.5	23
39	Molybdenum-Doped Porous Cobalt Phosphide Nanosheets for Efficient Alkaline Hydrogen Evolution. <i>ACS Applied Energy Materials</i> , 2019, 2, 6302-6310.	5.1	22
40	Synthesis of perfect silver nanocubes by a simple polyol process. <i>Journal of Materials Research</i> , 2007, 22, 1479-1485.	2.6	21
41	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.	7.0	21
42	Action Recognition Based on 3D Skeleton and RGB Frame Fusion. , 2019, , .		20
43	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.	3.4	20
44	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.	10.4	19
45	Synthesis of vertically oriented GaN nanowires on a LiAlO ₂ substrate via chemical vapor deposition. <i>Nano Research</i> , 2009, 2, 321-326.	10.4	17
46	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.	3.3	17
47	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.	2.1	17
48	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.	4.1	17
49	Synthesis of carbon nanotubes on graphene quantum dot surface by catalyst free chemical vapor deposition. <i>Carbon</i> , 2014, 68, 399-405.	10.3	16
50	Selective Growth of High-Density Anatase {101} Twin Boundaries on High-Energy {001} Facets. <i>Small Structures</i> , 2020, 1, 2000025.	12.0	16
51	Enhanced thermoelectric performance of CuGaTe ₂ based composites incorporated with graphite nanosheets. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	15
52	Molecular Sensitivities of Substrate-Supported Gold Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2019, 123, 7336-7346.	3.1	14
53	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.	5.0	14
54	Gold nanobipyramid-embedded silver-platinum hollow nanostructures for monitoring stepwise reduction and oxidation reactions. <i>Nanoscale</i> , 2020, 12, 23663-23672.	5.6	13

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55	A novel deposition mechanism of Au on Ag nanostructures involving galvanic replacement and reduction reactions. <i>Chemical Communications</i> , 2021, 57, 8332-8335.	4.1	12
56	The synthesis of silver nanowires with tunable diameters using halide ions for flexible transparent conductive films. <i>CrystEngComm</i> , 2020, 22, 8421-8429.	2.6	10
57	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.	9.4	10
58	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.	2.6	9
59	In situ synthesis of pristine-graphene/Ag nanocomposites as highly sensitive SERS substrates. <i>RSC Advances</i> , 2016, 6, 91579-91583.	3.6	9
60	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.	2.1	9
61	Dielectric function modelling and sensitivity forecast for Au-Ag alloy nanostructures. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 14932-14940.	2.8	8
62	Realization of red plasmon shifts by the selective etching of Ag nanorods. <i>CrystEngComm</i> , 2020, 22, 7870-7876.	2.6	8
63	Plasmonic O ₂ dissociation and spillover expedite selective oxidation of primary C-H bonds. <i>Chemical Science</i> , 2021, 12, 15308-15317.	7.4	8
64	Surface-enhanced Raman scattering from plasmonic Ag-nanocube@Au-nanospheres core@satellites. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 217-223.	2.5	7
65	(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.	5.6	7
66	Au nanobipyramids with Pt decoration enveloped in TiO ₂ nanoboxes for photocatalytic reactions. <i>Nanoscale Advances</i> , 2021, 3, 4226-4234.	4.6	7
67	Synthesis of Pd nanorod arrays on Au nanoframes for excellent ethanol electrooxidation. <i>Nanoscale</i> , 2022, 14, 736-743.	5.6	7
68	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.	3.0	6
69	Photocatalytic Properties of SrTiO ₃ Nanocubes Synthesized Through Molten Salt Modified Pechini Route. <i>Journal of Nanoscience and Nanotechnology</i> , 2016, 16, 12321-12325.	0.9	6
70	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	6
71	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.	2.6	6
72	Magneto-Revealing and Acceleration of Hidden Kirkendall Effect in Galvanic Replacement Reaction. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5294-5300.	4.6	6

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73	Electrocatalytic glycerol oxidation enabled by surface plasmon polariton-induced hot carriers in Kretschmann configuration. <i>Nanoscale</i> , 2019, 11, 23234-23240.	5.6	5
74	Gold nanobipyramid enveloped in alloyed nanoshell for stable plasmonic sensors. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 295303.	2.8	4
75	Revealing the truncated conical geometry of nanochannels in anodic aluminium oxide membranes. <i>Nanoscale</i> , 2022, 14, 5356-5368.	5.6	4
76	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.	2.0	3
77	Highly uniform hole spacing micro brushes based on aligned carbon nanotube arrays. <i>Nanoscale Research Letters</i> , 2013, 8, 501.	5.7	3
78	Size-Dependent Cytotoxicity of Thiolated Silver Nanoparticles Rapidly Probed by using Differential Pulse Voltammetry. <i>ChemElectroChem</i> , 2016, 3, 1197-1200.	3.4	3
79	Gold nanobipyramids doped with Au/Pd alloyed nanoclusters for high efficiency ethanol electrooxidation. <i>Nanoscale Advances</i> , 2022, 4, 1827-1834.	4.6	3
80	Mutual match for semi-supervised online evolutive learning. <i>Applied Intelligence</i> , 2023, 53, 3336-3350.	5.3	3
81	Structural transformation of Au seeds: the influence of temperature and surfactants. <i>Journal of Nanophotonics</i> , 2020, 14, 1.	1.0	2
82	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.	5.5	1
83	Growth kinetics controlled rational synthesis of germanium nanotowers in chemical vapor deposition. <i>Science China Materials</i> , 2015, 58, 877-883.	6.3	0