

# Zhong Chen

## List of Publications by Year in descending order

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637  
papers

36,155  
citations

2427

97  
h-index

5988

160  
g-index

654  
all docs

654  
docs citations

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times ranked

34349  
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of one-dimensional TiO <sub>2</sub> nanostructured materials for environmental and energy applications. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6772-6801.	10.3	793
2	In-situ Formation of Hollow Hybrids Composed of Cobalt Sulfides Embedded within Porous Carbon Polyhedra/Carbon Nanotubes for High-Performance Lithium Ion Batteries. <i>Advanced Materials</i> , 2015, 27, 3038-3044.	21.0	620
3	High-Efficiency Photoelectrocatalytic Hydrogen Generation Enabled by Palladium Quantum Dots-Sensitized TiO <sub>2</sub> Nanotube Arrays. <i>Journal of the American Chemical Society</i> , 2012, 134, 15720-15723.	13.7	571
4	A review on special wettability textiles: theoretical models, fabrication technologies and multifunctional applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 31-55.	10.3	515
5	A Review on Visible Light Active Perovskite-Based Photocatalysts. <i>Molecules</i> , 2014, 19, 19995-20022.	3.8	471
6	Transparent superhydrophobic/superhydrophilic TiO <sub>2</sub> -based coatings for self-cleaning and anti-fogging. <i>Journal of Materials Chemistry</i> , 2012, 22, 7420.	6.7	441
7	Designing Superhydrophobic Porous Nanostructures with Tunable Water Adhesion. <i>Advanced Materials</i> , 2009, 21, 3799-3803.	21.0	439
8	Graphene aerogels for efficient energy storage and conversion. <i>Energy and Environmental Science</i> , 2018, 11, 772-799.	30.8	435
9	Robust fluorine-free superhydrophobic PDMS@ormosil fabrics for highly effective self-cleaning and efficient oil-water separation. <i>Journal of Materials Chemistry A</i> , 2016, 4, 12179-12187.	10.3	432
10	One-dimensional TiO <sub>2</sub> Nanotube Photocatalysts for Solar Water Splitting. <i>Advanced Science</i> , 2017, 4, 1600152.	11.2	405
11	Defect Engineered g-C <sub>3</sub> N <sub>4</sub> for Efficient Visible Light Photocatalytic Hydrogen Production. <i>Chemistry of Materials</i> , 2015, 27, 4930-4933.	6.7	401
12	Mechanical Force-Driven Growth of Elongated Bending TiO <sub>2</sub> -based Nanotubular Materials for Ultrafast Rechargeable Lithium Ion Batteries. <i>Advanced Materials</i> , 2014, 26, 6111-6118.	21.0	386
13	Unique P <sub>1</sub> CO <sub>2</sub> /N Surface Bonding States Constructed on g-C <sub>3</sub> N <sub>4</sub> Nanosheets for Drastically Enhanced Photocatalytic Activity of H <sub>2</sub> Evolution. <i>Advanced Functional Materials</i> , 2017, 27, 1604328.	14.9	329
14	A review of TiO <sub>2</sub> nanostructured catalysts for sustainable H <sub>2</sub> generation. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 8418-8449.	7.1	309
15	Reducing aggregation caused quenching effect through co-assembly of PAH chromophores and molecular barriers. <i>Nature Communications</i> , 2019, 10, 169.	12.8	303
16	A mechanical assessment of flexible optoelectronic devices. <i>Thin Solid Films</i> , 2001, 394, 201-205.	1.8	296
17	Recent Advances in TiO <sub>2</sub> -Based Nanostructured Surfaces with Controllable Wettability and Adhesion. <i>Small</i> , 2016, 12, 2203-2224.	10.0	278
18	Magnetic resonance image reconstruction from undersampled measurements using a patch-based nonlocal operator. <i>Medical Image Analysis</i> , 2014, 18, 843-856.	11.6	274

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19	Efficient Ag@AgCl Cubic Cage Photocatalysts Profit from Ultrafast Plasmon-Induced Electron Transfer Processes. <i>Advanced Functional Materials</i> , 2013, 23, 2932-2940.	14.9	270
20	A transparent superhydrophobic coating with mechanochemical robustness for anti-icing, photocatalysis and self-cleaning. <i>Chemical Engineering Journal</i> , 2020, 399, 125746.	12.7	264
21	Hierarchical TiO <sub>2</sub> Nanoflakes and Nanoparticles Hybrid Structure for Improved Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2772-2780.	3.1	262
22	Rational design of materials interface at nanoscale towards intelligent oil-water separation. <i>Nanoscale Horizons</i> , 2018, 3, 235-260.	8.0	262
23	Bioinspired Special Wettability Surfaces: From Fundamental Research to Water Harvesting Applications. <i>Small</i> , 2017, 13, 1602992.	10.0	259
24	Icephobic materials: Fundamentals, performance evaluation, and applications. <i>Progress in Materials Science</i> , 2019, 103, 509-557.	32.8	258
25	In Situ Surface-Modification-Induced Superhydrophobic Patterns with Reversible Wettability and Adhesion. <i>Advanced Materials</i> , 2013, 25, 1682-1686.	21.0	249
26	Development of stable superhydrophobic coatings on aluminum surface for corrosion-resistant, self-cleaning, and anti-icing applications. <i>Materials and Design</i> , 2016, 93, 261-270.	7.0	249
27	Titanate and titania nanostructured materials for environmental and energy applications: a review. <i>RSC Advances</i> , 2015, 5, 79479-79510.	3.6	247
28	Recent progress in two-dimensional COFs for energy-related applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14463-14479.	10.3	243
29	The fracture of brittle thin films on compliant substrates in flexible displays. <i>Engineering Fracture Mechanics</i> , 2002, 69, 597-603.	4.3	241
30	Nitrogen-doped TiO <sub>2</sub> nanotube array films with enhanced photocatalytic activity under various light sources. <i>Journal of Hazardous Materials</i> , 2010, 184, 855-863.	12.4	240
31	Crafting Mussel-Inspired Metal Nanoparticle-Decorated Ultrathin Graphitic Carbon Nitride for the Degradation of Chemical Pollutants and Production of Chemical Resources. <i>Advanced Materials</i> , 2019, 31, e1806314.	21.0	239
32	Organic Cocrystals: Beyond Electrical Conductivities and Field-Effect Transistors (FETs). <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9696-9711.	13.8	234
33	Robust translucent superhydrophobic PDMS/PMMA film by facile one-step spray for self-cleaning and efficient emulsion separation. <i>Chemical Engineering Journal</i> , 2017, 330, 26-35.	12.7	228
34	Ultrasound aided photochemical synthesis of Ag loaded TiO <sub>2</sub> nanotube arrays to enhance photocatalytic activity. <i>Journal of Hazardous Materials</i> , 2009, 171, 1045-1050.	12.4	223
35	Bioinspired Surfaces with Superwettability for Anti-Icing and Ice-Phobic Application: Concept, Mechanism, and Design. <i>Small</i> , 2017, 13, 1701867.	10.0	223
36	Recent Progress of Polysaccharide-Based Hydrogel Interfaces for Wound Healing and Tissue Engineering. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900761.	3.7	222

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37	Rational construction of highly transparent superhydrophobic coatings based on a non-particle, fluorine-free and water-rich system for versatile oil-water separation. <i>Chemical Engineering Journal</i> , 2018, 333, 621-629.	12.7	207
38	Constructing multifunctional MOF@rGO hydro-/aerogels by the self-assembly process for customized water remediation. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11873-11881.	10.3	206
39	Bioinspired Surfaces with Superamphiphobic Properties: Concepts, Synthesis, and Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1707415.	14.9	206
40	A self-roughened and biodegradable superhydrophobic coating with UV shielding, solar-induced self-healing and versatile oil-water separation ability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 2122-2128.	10.3	205
41	Behavior of aluminum oxide, intermetallics and voids in Cu-Al wire bonds. <i>Acta Materialia</i> , 2011, 59, 5661-5673.	7.9	202
42	Effects of the Structure of TiO <sub>2</sub> Nanotube Array on Ti Substrate on Its Photocatalytic Activity. <i>Journal of the Electrochemical Society</i> , 2006, 153, D123.	2.9	200
43	Solid state interfacial reaction of Sn <sub>37</sub> Pb and Sn <sub>3.5</sub> Ag solders with Ni <sub>P</sub> under bump metallization. <i>Acta Materialia</i> , 2004, 52, 2047-2056.	7.9	197
44	A PDMS-in-water emulsion enables mechanochemically robust superhydrophobic surfaces with self-healing nature. <i>Nanoscale Horizons</i> , 2020, 5, 65-73.	8.0	193
45	4D printing and stimuli-responsive materials in biomedical aspects. <i>Acta Biomaterialia</i> , 2019, 92, 19-36.	8.3	191
46	AgBr/TiO <sub>2</sub> /RGO nanocomposite for visible-light photocatalytic degradation of penicillin G. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4718.	10.3	190
47	Advanced Materials with Special Wettability toward Intelligent Oily Wastewater Remediation. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 67-87.	8.0	190
48	A novel strategy for fabricating robust superhydrophobic fabrics by environmentally-friendly enzyme etching. <i>Chemical Engineering Journal</i> , 2019, 355, 290-298.	12.7	183
49	A fundamental viewpoint on the hydrogen spillover phenomenon of electrocatalytic hydrogen evolution. <i>Nature Communications</i> , 2021, 12, 3502.	12.8	183
50	Markedly Controllable Adhesion of Superhydrophobic Spongelike Nanostructure TiO <sub>2</sub> Films. <i>Langmuir</i> , 2008, 24, 3867-3873.	3.5	182
51	In situ formation of large-scale Ag/AgCl nanoparticles on layered titanate honeycomb by gas phase reaction for visible light degradation of phenol solution. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 577-585.	20.2	182
52	Fabrication of uniform Ag/TiO <sub>2</sub> nanotube array structures with enhanced photoelectrochemical performance. <i>New Journal of Chemistry</i> , 2010, 34, 1335.	2.8	181
53	Conductive Inks Based on a Lithium Titanate Nanotube Gel for High-Rate Lithium-Ion Batteries with Customized Configuration. <i>Advanced Materials</i> , 2016, 28, 1567-1576.	21.0	178
54	Photoelectrocatalytic properties of Ag nanoparticles loaded TiO <sub>2</sub> nanotube arrays prepared by pulse current deposition. <i>Electrochimica Acta</i> , 2010, 55, 7211-7218.	5.2	175

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55	Robust Flower-Like TiO <sub>2</sub> @Cotton Fabrics with Special Wettability for Effective Self-Cleaning and Versatile Oil/Water Separation. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500220.	3.7	175
56	Unravelling the Correlation between the Aspect Ratio of Nanotubular Structures and Their Electrochemical Performance To Achieve High-Rate and Long-Life Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 13488-13492.	13.8	172
57	Tribological properties of Cr- and Ti-doped MoS <sub>2</sub> composite coatings under different humidity atmosphere. <i>Surface and Coatings Technology</i> , 2010, 205, 224-231.	4.8	170
58	Metal-organic frameworks and their derivatives with graphene composites: preparation and applications in electrocatalysis and photocatalysis. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2934-2961.	10.3	170
59	Recent Advances in Silicon-Based Electrodes: From Fundamental Research toward Practical Applications. <i>Advanced Materials</i> , 2021, 33, e2004577.	21.0	168
60	Rational design of multi-layered superhydrophobic coating on cotton fabrics for UV shielding, self-cleaning and oil-water separation. <i>Materials and Design</i> , 2017, 134, 342-351.	7.0	164
61	Liquid mobility on superwetable surfaces for applications in energy and the environment. <i>Journal of Materials Chemistry A</i> , 2019, 7, 38-63.	10.3	161
62	Buckling and cracking of thin films on compliant substrates under compression. <i>International Journal of Fracture</i> , 2000, 104, 169-179.	2.2	160
63	Optimized porous rutile TiO <sub>2</sub> nanorod arrays for enhancing the efficiency of dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 1615.	30.8	160
64	Bioinspired Patterning with Extreme Wettability Contrast on TiO <sub>2</sub> Nanotube Array Surface: A Versatile Platform for Biomedical Applications. <i>Small</i> , 2013, 9, 2945-2953.	10.0	159
65	3D Au-decorated BiMoO <sub>6</sub> nanosheet/TiO <sub>2</sub> nanotube array heterostructure with enhanced UV and visible-light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16412-16421.	10.3	150
66	Phosphonate-Based Metal-Organic Framework Derived Co-P-C Hybrid as an Efficient Electrocatalyst for Oxygen Evolution Reaction. <i>ACS Catalysis</i> , 2017, 7, 6000-6007.	11.2	149
67	Superhydrophilic-superhydrophobic micropattern on TiO <sub>2</sub> nanotube films by photocatalytic lithography. <i>Electrochemistry Communications</i> , 2008, 10, 387-391.	4.7	147
68	Water-Soluble Sericin Protein Enabling Stable Solid-Electrolyte Interphase for Fast Charging High Voltage Battery Electrode. <i>Advanced Materials</i> , 2017, 29, 1701828.	21.0	147
69	Development of Sol-Gel Icephobic Coatings: Effect of Surface Roughness and Surface Energy. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 20685-20692.	8.0	146
70	MOFs-derived copper sulfides embedded within porous carbon octahedra for electrochemical capacitor applications. <i>Chemical Communications</i> , 2015, 51, 3109-3112.	4.1	145
71	Progress on particulate matter filtration technology: basic concepts, advanced materials, and performances. <i>Nanoscale</i> , 2020, 12, 437-453.	5.6	145
72	Structure, morphology and properties of Fe-doped ZnO films prepared by facing-target magnetron sputtering system. <i>Applied Surface Science</i> , 2009, 255, 6881-6887.	6.1	143

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73	Vanadium pentoxide cathode materials for high-performance lithium-ion batteries enabled by a hierarchical nanoflower structure via an electrochemical process. <i>Journal of Materials Chemistry A</i> , 2013, 1, 82-88.	10.3	138
74	Enhanced Photocatalytic Hydrogen Production with Synergistic Two-Phase Anatase/Brookite TiO <sub>2</sub> Nanostructures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14973-14982.	3.1	134
75	Electrochemically multi-anodized TiO <sub>2</sub> nanotube arrays for enhancing hydrogen generation by photoelectrocatalytic water splitting. <i>Electrochimica Acta</i> , 2010, 55, 4776-4782.	5.2	132
76	Mechanically robust superhydrophobic and superoleophobic coatings derived by sol-gel method. <i>Materials and Design</i> , 2016, 89, 1302-1309.	7.0	130
77	Fabrication of self-cleaning superhydrophobic surface on aluminum alloys with excellent corrosion resistance. <i>Surface and Coatings Technology</i> , 2015, 276, 341-348.	4.8	129
78	A semi-interpenetrating network ionic hydrogel for strain sensing with high sensitivity, large strain range, and stable cycle performance. <i>Chemical Engineering Journal</i> , 2020, 385, 123912.	12.7	128
79	Hydrazine-hydrothermal method to synthesize three-dimensional chalcogenide framework for photocatalytic hydrogen generation. <i>Journal of Solid State Chemistry</i> , 2010, 183, 2644-2649.	2.9	125
80	Immobilization of Pt Nanoparticles via Rapid and Reusable Electropolymerization of Dopamine on TiO <sub>2</sub> Nanotube Arrays for Reversible SERS Substrates and Nonenzymatic Glucose Sensors. <i>Small</i> , 2017, 13, 1604240.	10.0	125
81	Three-Dimensional Cd-Titanate Composite Nanomaterials for Enhanced Visible-Light-Driven Hydrogen Evolution. <i>Small</i> , 2013, 9, 996-1002.	10.0	124
82	Elastic modulus, hardness and creep performance of SnBi alloys using nanoindentation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 558, 253-258.	5.6	122
83	Understanding the Role of Nanostructures for Efficient Hydrogen Generation on Immobilized Photocatalysts. <i>Advanced Energy Materials</i> , 2013, 3, 1368-1380.	19.5	122
84	Progress in TiO <sub>2</sub> nanotube coatings for biomedical applications: a review. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1862-1886.	5.8	121
85	Mechanically Resistant and Sustainable Cellulose-Based Composite Aerogels with Excellent Flame Retardant, Sound-Absorption, and Superantiwetting Ability for Advanced Engineering Materials. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 927-936.	6.7	120
86	Advanced colloidal lithography: From patterning to applications. <i>Nano Today</i> , 2018, 22, 36-61.	11.9	120
87	Light-Driven Sustainable Hydrogen Production Utilizing TiO <sub>2</sub> Nanostructures: A Review. <i>Small Methods</i> , 2019, 3, 1800184.	8.6	118
88	Enhanced photocatalytic performances of n-TiO <sub>2</sub> nanotubes by uniform creation of p-n heterojunctions with p-Bi <sub>2</sub> O <sub>3</sub> quantum dots. <i>Nanoscale</i> , 2015, 7, 11552-11560.	5.6	117
89	Porous cobalt phosphide/graphitic carbon polyhedral hybrid composites for efficient oxygen evolution reactions. <i>Journal of Materials Chemistry A</i> , 2016, 4, 13742-13745.	10.3	117
90	TiO <sub>2</sub> nanotube platforms for smart drug delivery: a review. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 4819-4834.	6.7	113

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91	Functionalized Fiber-Based Strain Sensors: Pathway to Next-Generation Wearable Electronics. <i>Nano-Micro Letters</i> , 2022, 14, 61.	27.0	113
92	Ambient dissolution-recrystallization towards large-scale preparation of V <sub>2</sub> O <sub>5</sub> nanobelts for high-energy battery applications. <i>Nano Energy</i> , 2016, 22, 583-593.	16.0	112
93	The role of powder layer thickness on the quality of SLM printed parts. <i>Archives of Civil and Mechanical Engineering</i> , 2018, 18, 948-955.	3.8	112
94	Photothermal and Joule heating-assisted thermal management sponge for efficient cleanup of highly viscous crude oil. <i>Journal of Hazardous Materials</i> , 2021, 403, 124090.	12.4	109
95	Facile construction of robust fluorine-free superhydrophobic TiO <sub>2</sub> @fabrics with excellent anti-fouling, water-oil separation and UV-protective properties. <i>Materials and Design</i> , 2017, 128, 1-8.	7.0	107
96	A novel electrochemical strategy for improving blood compatibility of titanium-based biomaterials. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010, 79, 309-313.	5.0	106
97	Understanding the Role of Dynamic Wettability for Condensate Microdrop Self-Propelling Based on Designed Superhydrophobic TiO <sub>2</sub> Nanostructures. <i>Small</i> , 2017, 13, 1600687.	10.0	101
98	Uniform carbon dots@TiO <sub>2</sub> nanotube arrays with full spectrum wavelength light activation for efficient dye degradation and overall water splitting. <i>Nanoscale</i> , 2017, 9, 16046-16058.	5.6	100
99	Transparent Antibacterial Nanofiber Air Filters with Highly Efficient Moisture Resistance for Sustainable Particulate Matter Capture. <i>IScience</i> , 2019, 19, 214-223.	4.1	100
100	Recent Progress in Fabrication and Applications of Superhydrophobic Coating on Cellulose-Based Substrates. <i>Materials</i> , 2016, 9, 124.	2.9	99
101	A mechanically robust transparent coating for anti-icing and self-cleaning applications. <i>Journal of Materials Chemistry A</i> , 2018, 6, 16043-16052.	10.3	99
102	Efficiently texturing hierarchical superhydrophobic fluoride-free translucent films by AACVD with excellent durability and self-cleaning ability. <i>Journal of Materials Chemistry A</i> , 2018, 6, 17633-17641.	10.3	99
103	Bi <sub>2</sub> WO <sub>6</sub> hollow microspheres with high specific surface area and oxygen vacancies for efficient photocatalysis N <sub>2</sub> fixation. <i>Chemical Engineering Journal</i> , 2021, 414, 128827.	12.7	97
104	A re-examination of the mechanism of thermosonic copper ball bonding on aluminium metallization pads. <i>Scripta Materialia</i> , 2009, 61, 165-168.	5.2	95
105	Development of durable self-cleaning coatings using organic-inorganic hybrid sol-gel method. <i>Applied Surface Science</i> , 2015, 344, 205-212.	6.1	94
106	Recent advances in fabricating durable superhydrophobic surfaces: a review in the aspects of structures and materials. <i>Materials Chemistry Frontiers</i> , 2021, 5, 1655-1682.	5.9	94
107	Anisotropic Electronic Characteristics, Adsorption, and Stability of Low-Index BiVO <sub>4</sub> Surfaces for Photoelectrochemical Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 5475-5484.	8.0	93
108	Simultaneous catalyzing and reinforcing effects of imidazole-functionalized graphene in anhydride-cured epoxies. <i>Journal of Materials Chemistry</i> , 2012, 22, 18395.	6.7	92

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109	Cu <sub>2</sub> O Photocathode for Low Bias Photoelectrochemical Water Splitting Enabled by NiFe-Layered Double Hydroxide Co-Catalyst. <i>Scientific Reports</i> , 2016, 6, 30882.	3.3	92
110	Vertically-aligned Pt-decorated MoS <sub>2</sub> nanosheets coated on TiO <sub>2</sub> nanotube arrays enable high-efficiency solar-light energy utilization for photocatalysis and self-cleaning SERS devices. <i>Nano Energy</i> , 2020, 71, 104579.	16.0	92
111	Namib desert beetle inspired special patterned fabric with programmable and gradient wettability for efficient fog harvesting. <i>Journal of Materials Science and Technology</i> , 2021, 61, 85-92.	10.7	92
112	Highly stable heterostructured Ag@AgBr/TiO <sub>2</sub> composite: a bifunctional visible-light active photocatalyst for destruction of ibuprofen and bacteria. <i>Journal of Materials Chemistry</i> , 2012, 22, 23149.	6.7	91
113	Anti-icing Performance of Superhydrophobic Texture Surfaces Depending on Reference Environments. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700836.	3.7	90
114	Durable antibacterial and UV-protective Ag/TiO <sub>2</sub> fabrics for sustainable biomedical application. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 2593-2606.	6.7	90
115	Theoretical Insight into the Mechanism of Photoelectrochemical Oxygen Evolution Reaction on BiVO <sub>4</sub> Anode with Oxygen Vacancy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18702-18709.	3.1	89
116	Reducing the Charge Carrier Transport Barrier in Functionally Layered Graded Electrodes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14847-14852.	13.8	88
117	Accelerated Nuclear Magnetic Resonance Spectroscopy with Deep Learning. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10297-10300.	13.8	88
118	CdSe/CdS quantum dots co-sensitized TiO <sub>2</sub> nanotube array photoelectrode for highly efficient solar cells. <i>Electrochimica Acta</i> , 2012, 79, 175-181.	5.2	87
119	Controllable wettability and adhesion on bioinspired multifunctional TiO <sub>2</sub> nanostructure surfaces for liquid manipulation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18531-18538.	10.3	84
120	Photocatalytic and Adsorption Performances of Faceted Cuprous Oxide (Cu <sub>2</sub> O) Particles for the Removal of Methyl Orange (MO) from Aqueous Media. <i>Molecules</i> , 2017, 22, 677.	3.8	84
121	Size, temperature, and bond nature dependence of elasticity and its derivatives on extensibility, Debye temperature, and heat capacity of nanostructures. <i>Physical Review B</i> , 2007, 75, .	3.2	83
122	Nitrogen doped TiO <sub>2</sub> nanotube arrays with high photoelectrochemical activity for photocatalytic applications. <i>Applied Surface Science</i> , 2013, 280, 523-529.	6.1	82
123	Nanoindentation creep of tin and aluminium: A comparative study between constant load and constant strain rate methods. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 532, 505-510.	5.6	80
124	In-situ formation of unsaturated defect sites on converted CoNi alloy/Co-Ni LDH to activate MoS <sub>2</sub> nanosheets for pH-universal hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 412, 128556.	12.7	80
125	Constructing Mechanochemical Durable and Self-Healing Superhydrophobic Surfaces. <i>ACS Omega</i> , 2020, 5, 986-994.	3.5	79
126	Self-organized TiO <sub>2</sub> nanotube arrays with uniform platinum nanoparticles for highly efficient water splitting. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6438-6446.	7.1	78



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127	Surfactant-free Thermal Method to Synthesize a Novel Two-Dimensional Oxochalcogenide. Chemistry - an Asian Journal, 2014, 9, 131-134.	3.3	78
128	Quantitative test method for evaluation of anti-fingerprint property of coated surfaces. Applied Surface Science, 2011, 257, 2965-2969.	6.1	77
129	Synthesis of Nanostructured Silver/Silver Halides on Titanate Surfaces and Their Visible-Light Photocatalytic Performance. ACS Applied Materials & Interfaces, 2012, 4, 438-446.	8.0	77
130	MoS <sub>2</sub> Quantum Dots@TiO <sub>2</sub> Nanotube Arrays: An Extended-Spectrum-Driven Photocatalyst for Solar Hydrogen Evolution. ChemSusChem, 2018, 11, 1708-1721.	6.8	77
131	Clarifying the Roles of Oxygen Vacancy in W-Doped BiVO <sub>4</sub> for Solar Water Splitting. ACS Applied Energy Materials, 2018, 1, 3410-3419.	5.1	77
132	Defective black Ti <sub>3</sub> + self-doped TiO <sub>2</sub> and reduced graphene oxide composite nanoparticles for boosting visible-light driven photocatalytic and photoelectrochemical activity. Applied Surface Science, 2019, 467-468, 45-55.	6.1	77
133	Durable Waterborne Hydrophobic Bio-Epoxy Coating with Improved Anti-Icing and Self-Cleaning Performance. ACS Sustainable Chemistry and Engineering, 2019, 7, 641-649.	6.7	77
134	Morphology and kinetic study of the interfacial reaction between the Sn-3.5Ag solder and electroless Ni-P metallization. Journal of Electronic Materials, 2004, 33, 1465-1472.	2.2	76
135	Self-organized TiO <sub>2</sub> nanotubes in mixed organic-inorganic electrolytes and their photoelectrochemical performance. Electrochimica Acta, 2009, 54, 6536-6542.	5.2	76
136	When superhydrophobic coatings are icephobic: Role of surface topology. Surface and Coatings Technology, 2019, 358, 207-214.	4.8	76
137	Intermetallic compound formation between Sn-3.5Ag solder and Ni-based metallization during liquid state reaction. Thin Solid Films, 2004, 462-463, 376-383.	1.8	75
138	Growth of Intermetallic Compounds in Thermosonic Copper Wire Bonding on Aluminum Metallization. Journal of Electronic Materials, 2010, 39, 124-131.	2.2	75
139	Controlling Na diffusion by rational design of Si-based layered architectures. Physical Chemistry Chemical Physics, 2014, 16, 4260.	2.8	75
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