

Zhong Chen

List of Publications by Year in descending order

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637
papers

36,155
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2423

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all docs

654
docs citations

654
times ranked

34349
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of one-dimensional TiO ₂ nanostructured materials for environmental and energy applications. Journal of Materials Chemistry A, 2016, 4, 6772-6801.	5.2	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. Advanced Materials, 2015, 27, 3038-3044.	11.1	620
3	High-Efficiency Photoelectrocatalytic Hydrogen Generation Enabled by Palladium Quantum Dots-Sensitized TiO ₂ Nanotube Arrays. Journal of the American Chemical Society, 2012, 134, 15720-15723.	6.6	571
4	A review on special wettability textiles: theoretical models, fabrication technologies and multifunctional applications. Journal of Materials Chemistry A, 2017, 5, 31-55.	5.2	515
5	A Review on Visible Light Active Perovskite-Based Photocatalysts. Molecules, 2014, 19, 19995-20022.	1.7	471
6	Transparent superhydrophobic/superhydrophilic TiO ₂ -based coatings for self-cleaning and anti-fogging. Journal of Materials Chemistry, 2012, 22, 7420.	6.7	441
7	Designing Superhydrophobic Porous Nanostructures with Tunable Water Adhesion. Advanced Materials, 2009, 21, 3799-3803.	11.1	439
8	Graphene aerogels for efficient energy storage and conversion. Energy and Environmental Science, 2018, 11, 772-799.	15.6	435
9	Robust fluorine-free superhydrophobic PDMS@ormosil@fabrics for highly effective self-cleaning and efficient oil-water separation. Journal of Materials Chemistry A, 2016, 4, 12179-12187.	5.2	432
10	One-dimensional TiO ₂ Nanotube Photocatalysts for Solar Water Splitting. Advanced Science, 2017, 4, 1600152.	5.6	405
11	Defect Engineered g-C ₃ N ₄ for Efficient Visible Light Photocatalytic Hydrogen Production. Chemistry of Materials, 2015, 27, 4930-4933.	3.2	401
12	Mechanical Force-Driven Growth of Elongated Bending TiO ₂ -based Nanotubular Materials for Ultrafast Rechargeable Lithium Ion Batteries. Advanced Materials, 2014, 26, 6111-6118.	11.1	386
13	Unique P ₁ Co ₁ N Surface Bonding States Constructed on g-C ₃ N ₄ Nanosheets for Drastically Enhanced Photocatalytic Activity of H ₂ Evolution. Advanced Functional Materials, 2017, 27, 1604328.	7.8	329
14	A review of TiO ₂ nanostructured catalysts for sustainable H ₂ generation. International Journal of Hydrogen Energy, 2017, 42, 8418-8449.	3.8	309
15	Reducing aggregation caused quenching effect through co-assembly of PAH chromophores and molecular barriers. Nature Communications, 2019, 10, 169.	5.8	303
16	A mechanical assessment of flexible optoelectronic devices. Thin Solid Films, 2001, 394, 201-205.	0.8	296
17	Recent Advances in TiO ₂ -Based Nanostructured Surfaces with Controllable Wettability and Adhesion. Small, 2016, 12, 2203-2224.	5.2	278
18	Magnetic resonance image reconstruction from undersampled measurements using a patch-based nonlocal operator. Medical Image Analysis, 2014, 18, 843-856.	7.0	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.	7.8	270
20	A transparent superhydrophobic coating with mechanochemical robustness for anti-icing, photocatalysis and self-cleaning. <i>Chemical Engineering Journal</i> , 2020, 399, 125746.	6.6	264
21	Hierarchical TiO ₂ Nanoflakes and Nanoparticles Hybrid Structure for Improved Photocatalytic Activity. <i>Journal of Physical Chemistry C</i> , 2012, 116, 2772-2780.	1.5	262
22	Rational design of materials interface at nanoscale towards intelligent oil-water separation. <i>Nanoscale Horizons</i> , 2018, 3, 235-260.	4.1	262
23	Bioinspired Special Wettability Surfaces: From Fundamental Research to Water Harvesting Applications. <i>Small</i> , 2017, 13, 1602992.	5.2	259
24	Icephobic materials: Fundamentals, performance evaluation, and applications. <i>Progress in Materials Science</i> , 2019, 103, 509-557.	16.0	258
25	In Situ Surface-Modification-Induced Superhydrophobic Patterns with Reversible Wettability and Adhesion. <i>Advanced Materials</i> , 2013, 25, 1682-1686.	11.1	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.	3.3	249
27	Titanate and titania nanostructured materials for environmental and energy applications: a review. <i>RSC Advances</i> , 2015, 5, 79479-79510.	1.7	247
28	Recent progress in two-dimensional COFs for energy-related applications. <i>Journal of Materials Chemistry A</i> , 2017, 5, 14463-14479.	5.2	243
29	The fracture of brittle thin films on compliant substrates in flexible displays. <i>Engineering Fracture Mechanics</i> , 2002, 69, 597-603.	2.0	241
30	Nitrogen-doped TiO ₂ nanotube array films with enhanced photocatalytic activity under various light sources. <i>Journal of Hazardous Materials</i> , 2010, 184, 855-863.	6.5	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.	11.1	239
32	Organic Cocrystals: Beyond Electrical Conductivities and Field-Effect Transistors (FETs). <i>Angewandte Chemie - International Edition</i> , 2019, 58, 9696-9711.	7.2	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.	6.6	228
34	Ultrasound aided photochemical synthesis of Ag loaded TiO ₂ nanotube arrays to enhance photocatalytic activity. <i>Journal of Hazardous Materials</i> , 2009, 171, 1045-1050.	6.5	223
35	Bioinspired Surfaces with Superwettability for Anti-Icing and Ice-Phobic Application: Concept, Mechanism, and Design. <i>Small</i> , 2017, 13, 1701867.	5.2	223
36	Recent Progress of Polysaccharide-Based Hydrogel Interfaces for Wound Healing and Tissue Engineering. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900761.	1.9	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.	6.6	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.	5.2	206
39	Bioinspired Surfaces with Superamphiphobic Properties: Concepts, Synthesis, and Applications. <i>Advanced Functional Materials</i> , 2018, 28, 1707415.	7.8	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.	5.2	205
41	Behavior of aluminum oxide, intermetallics and voids in Cu-Al wire bonds. <i>Acta Materialia</i> , 2011, 59, 5661-5673.	3.8	202
42	Effects of the Structure of TiO ₂ Nanotube Array on Ti Substrate on Its Photocatalytic Activity. <i>Journal of the Electrochemical Society</i> , 2006, 153, D123.	1.3	200
43	Solid state interfacial reaction of Sn ₃₇ Pb and Sn _{3.5} Ag solders with Ni _P under bump metallization. <i>Acta Materialia</i> , 2004, 52, 2047-2056.	3.8	197
44	A PDMS-in-water emulsion enables mechanochemically robust superhydrophobic surfaces with self-healing nature. <i>Nanoscale Horizons</i> , 2020, 5, 65-73.	4.1	193
45	4D printing and stimuli-responsive materials in biomedical aspects. <i>Acta Biomaterialia</i> , 2019, 92, 19-36.	4.1	191
46	Ag@AgBr/TiO ₂ /RGO nanocomposite for visible-light photocatalytic degradation of penicillin G. <i>Journal of Materials Chemistry A</i> , 2013, 1, 4718.	5.2	190
47	Advanced Materials with Special Wettability toward Intelligent Oily Wastewater Remediation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 67-87.	4.0	190
48	A novel strategy for fabricating robust superhydrophobic fabrics by environmentally-friendly enzyme etching. <i>Chemical Engineering Journal</i> , 2019, 355, 290-298.	6.6	183
49	A fundamental viewpoint on the hydrogen spillover phenomenon of electrocatalytic hydrogen evolution. <i>Nature Communications</i> , 2021, 12, 3502.	5.8	183
50	Markedly Controllable Adhesion of Superhydrophobic Spongelike Nanostructure TiO ₂ Films. <i>Langmuir</i> , 2008, 24, 3867-3873.	1.6	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.	10.8	182
52	Fabrication of uniform Ag/TiO ₂ nanotube array structures with enhanced photoelectrochemical performance. <i>New Journal of Chemistry</i> , 2010, 34, 1335.	1.4	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.	11.1	178
54	Photoelectrocatalytic properties of Ag nanoparticles loaded TiO ₂ nanotube arrays prepared by pulse current deposition. <i>Electrochimica Acta</i> , 2010, 55, 7211-7218.	2.6	175

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55	Robust Flower-Like TiO ₂ @Cotton Fabrics with Special Wettability for Effective Self-Cleaning and Versatile Oil/Water Separation. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500220.	1.9	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.	7.2	172
57	Tribological properties of Cr- and Ti-doped MoS ₂ composite coatings under different humidity atmosphere. <i>Surface and Coatings Technology</i> , 2010, 205, 224-231.	2.2	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.	5.2	170
59	Recent Advances in Silicon-Based Electrodes: From Fundamental Research toward Practical Applications. <i>Advanced Materials</i> , 2021, 33, e2004577.	11.1	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.	3.3	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.	5.2	161
62	Buckling and cracking of thin films on compliant substrates under compression. <i>International Journal of Fracture</i> , 2000, 104, 169-179.	1.1	160
63	Optimized porous rutile TiO ₂ nanorod arrays for enhancing the efficiency of dye-sensitized solar cells. <i>Energy and Environmental Science</i> , 2013, 6, 1615.	15.6	160
64	Bioinspired Patterning with Extreme Wettability Contrast on TiO ₂ Nanotube Array Surface: A Versatile Platform for Biomedical Applications. <i>Small</i> , 2013, 9, 2945-2953.	5.2	159
65	3D Au-decorated BiMoO ₆ nanosheet/TiO ₂ nanotube array heterostructure with enhanced UV and visible-light photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16412-16421.	5.2	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.	5.5	149
67	Superhydrophilic-superhydrophobic micropattern on TiO ₂ nanotube films by photocatalytic lithography. <i>Electrochemistry Communications</i> , 2008, 10, 387-391.	2.3	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.	11.1	147
69	Development of Sol-Gel Icephobic Coatings: Effect of Surface Roughness and Surface Energy. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 20685-20692.	4.0	146
70	MOFs-derived copper sulfides embedded within porous carbon octahedra for electrochemical capacitor applications. <i>Chemical Communications</i> , 2015, 51, 3109-3112.	2.2	145
71	Progress on particulate matter filtration technology: basic concepts, advanced materials, and performances. <i>Nanoscale</i> , 2020, 12, 437-453.	2.8	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.	3.1	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.	5.2	138
74	Enhanced Photocatalytic Hydrogen Production with Synergistic Two-Phase Anatase/Brookite TiO ₂ Nanostructures. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14973-14982.	1.5	134
75	Electrochemically multi-anodized TiO ₂ nanotube arrays for enhancing hydrogen generation by photoelectrocatalytic water splitting. <i>Electrochimica Acta</i> , 2010, 55, 4776-4782.	2.6	132
76	Mechanically robust superhydrophobic and superoleophobic coatings derived by sol-gel method. <i>Materials and Design</i> , 2016, 89, 1302-1309.	3.3	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.	2.2	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.	6.6	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.	1.4	125
80	Immobilization of Pt Nanoparticles via Rapid and Reusable Electropolymerization of Dopamine on TiO ₂ Nanotube Arrays for Reversible SERS Substrates and Nonenzymatic Glucose Sensors. <i>Small</i> , 2017, 13, 1604240.	5.2	125
81	Three-Dimensional Cd-Titanate Composite Nanomaterials for Enhanced Visible-Light-Driven Hydrogen Evolution. <i>Small</i> , 2013, 9, 996-1002.	5.2	124
82	Elastic modulus, hardness and creep performance of SnBi alloys using nanoindentation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 558, 253-258.	2.6	122
83	Understanding the Role of Nanostructures for Efficient Hydrogen Generation on Immobilized Photocatalysts. <i>Advanced Energy Materials</i> , 2013, 3, 1368-1380.	10.2	122
84	Progress in TiO ₂ nanotube coatings for biomedical applications: a review. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1862-1886.	2.9	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.	3.2	120
86	Advanced colloidal lithography: From patterning to applications. <i>Nano Today</i> , 2018, 22, 36-61.	6.2	120
87	Light-Driven Sustainable Hydrogen Production Utilizing TiO ₂ Nanostructures: A Review. <i>Small Methods</i> , 2019, 3, 1800184.	4.6	118
88	Enhanced photocatalytic performances of n-TiO ₂ nanotubes by uniform creation of p-n heterojunctions with p-Bi ₂ O ₃ quantum dots. <i>Nanoscale</i> , 2015, 7, 11552-11560.	2.8	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.	5.2	117
90	TiO ₂ nanotube platforms for smart drug delivery: a review. <i>International Journal of Nanomedicine</i> , 2016, Volume 11, 4819-4834.	3.3	113

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91	Functionalized Fiber-Based Strain Sensors: Pathway to Next-Generation Wearable Electronics. Nano-Micro Letters, 2022, 14, 61.	14.4	113
92	Ambient dissolution-recrystallization towards large-scale preparation of V ₂ O ₅ nanobelts for high-energy battery applications. Nano Energy, 2016, 22, 583-593.	8.2	112
93	The role of powder layer thickness on the quality of SLM printed parts. Archives of Civil and Mechanical Engineering, 2018, 18, 948-955.	1.9	112
94	Photothermal and Joule heating-assisted thermal management sponge for efficient cleanup of highly viscous crude oil. Journal of Hazardous Materials, 2021, 403, 124090.	6.5	109
95	Facile construction of robust fluorine-free superhydrophobic TiO ₂ @fabrics with excellent anti-fouling, water-oil separation and UV-protective properties. Materials and Design, 2017, 128, 1-8.	3.3	107
96	A novel electrochemical strategy for improving blood compatibility of titanium-based biomaterials. Colloids and Surfaces B: Biointerfaces, 2010, 79, 309-313.	2.5	106
97	Understanding the Role of Dynamic Wettability for Condensate Microdrop Self-Propelling Based on Designed Superhydrophobic TiO ₂ Nanostructures. Small, 2017, 13, 1600687.	5.2	101
98	Uniform carbon dots@TiO ₂ nanotube arrays with full spectrum wavelength light activation for efficient dye degradation and overall water splitting. Nanoscale, 2017, 9, 16046-16058.	2.8	100
99	Transparent Antibacterial Nanofiber Air Filters with Highly Efficient Moisture Resistance for Sustainable Particulate Matter Capture. IScience, 2019, 19, 214-223.	1.9	100
100	Recent Progress in Fabrication and Applications of Superhydrophobic Coating on Cellulose-Based Substrates. Materials, 2016, 9, 124.	1.3	99
101	A mechanically robust transparent coating for anti-icing and self-cleaning applications. Journal of Materials Chemistry A, 2018, 6, 16043-16052.	5.2	99
102	Efficiently texturing hierarchical superhydrophobic fluoride-free translucent films by AACVD with excellent durability and self-cleaning ability. Journal of Materials Chemistry A, 2018, 6, 17633-17641.	5.2	99
103	Bi ₂ WO ₆ hollow microspheres with high specific surface area and oxygen vacancies for efficient photocatalysis N ₂ fixation. Chemical Engineering Journal, 2021, 414, 128827.	6.6	97
104	A re-examination of the mechanism of thermosonic copper ball bonding on aluminium metallization pads. Scripta Materialia, 2009, 61, 165-168.	2.6	95
105	Development of durable self-cleaning coatings using organic-inorganic hybrid sol-gel method. Applied Surface Science, 2015, 344, 205-212.	3.1	94
106	Recent advances in fabricating durable superhydrophobic surfaces: a review in the aspects of structures and materials. Materials Chemistry Frontiers, 2021, 5, 1655-1682.	3.2	94
107	Anisotropic Electronic Characteristics, Adsorption, and Stability of Low-Index BiVO ₄ Surfaces for Photoelectrochemical Applications. ACS Applied Materials & Interfaces, 2018, 10, 5475-5484.	4.0	93
108	Simultaneous catalyzing and reinforcing effects of imidazole-functionalized graphene in anhydride-cured epoxies. Journal of Materials Chemistry, 2012, 22, 18395.	6.7	92

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109	Cu ₂ O Photocathode for Low Bias Photoelectrochemical Water Splitting Enabled by NiFe-Layered Double Hydroxide Co-Catalyst. <i>Scientific Reports</i> , 2016, 6, 30882.	1.6	92
110	Vertically-aligned Pt-decorated MoS ₂ nanosheets coated on TiO ₂ nanotube arrays enable high-efficiency solar-light energy utilization for photocatalysis and self-cleaning SERS devices. <i>Nano Energy</i> , 2020, 71, 104579.	8.2	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.	5.6	92
112	Highly stable heterostructured Ag@AgBr/TiO ₂ 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.	1.9	90
114	Durable antibacterial and UV-protective Ag/TiO ₂ fabrics for sustainable biomedical application. <i>International Journal of Nanomedicine</i> , 2017, Volume 12, 2593-2606.	3.3	90
115	Theoretical Insight into the Mechanism of Photoelectrochemical Oxygen Evolution Reaction on BiVO ₄ Anode with Oxygen Vacancy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18702-18709.	1.5	89
116	Reducing the Charge Carrier Transport Barrier in Functionally Layered Graded Electrodes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14847-14852.	7.2	88
117	Accelerated Nuclear Magnetic Resonance Spectroscopy with Deep Learning. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 10297-10300.	7.2	88
118	CdSe/CdS quantum dots co-sensitized TiO ₂ nanotube array photoelectrode for highly efficient solar cells. <i>Electrochimica Acta</i> , 2012, 79, 175-181.	2.6	87
119	Controllable wettability and adhesion on bioinspired multifunctional TiO ₂ nanostructure surfaces for liquid manipulation. <i>Journal of Materials Chemistry A</i> , 2014, 2, 18531-18538.	5.2	84
120	Photocatalytic and Adsorption Performances of Faceted Cuprous Oxide (Cu ₂ O) Particles for the Removal of Methyl Orange (MO) from Aqueous Media. <i>Molecules</i> , 2017, 22, 677.	1.7	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, .	1.1	83
122	Nitrogen doped TiO ₂ nanotube arrays with high photoelectrochemical activity for photocatalytic applications. <i>Applied Surface Science</i> , 2013, 280, 523-529.	3.1	82
123	Nanoindentation creep of tin and aluminium: A comparative study between constant load and constant strain rate methods. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2012, 532, 505-510.	2.6	80
124	In-situ formation of unsaturated defect sites on converted CoNi alloy/Co-Ni LDH to activate MoS ₂ nanosheets for pH-universal hydrogen evolution reaction. <i>Chemical Engineering Journal</i> , 2021, 412, 128556.	6.6	80
125	Constructing Mechanochemical Durable and Self-Healing Superhydrophobic Surfaces. <i>ACS Omega</i> , 2020, 5, 986-994.	1.6	79
126	Self-organized TiO ₂ nanotube arrays with uniform platinum nanoparticles for highly efficient water splitting. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 6438-6446.	3.8	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.	1.7	78
128	Quantitative test method for evaluation of anti-fingerprint property of coated surfaces. Applied Surface Science, 2011, 257, 2965-2969.	3.1	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.	4.0	77
130	MoS ₂ Quantum Dots@TiO ₂ Nanotube Arrays: An Extended-Spectrum-Driven Photocatalyst for Solar Hydrogen Evolution. ChemSusChem, 2018, 11, 1708-1721.	3.6	77
131	Clarifying the Roles of Oxygen Vacancy in W-Doped BiVO ₄ for Solar Water Splitting. ACS Applied Energy Materials, 2018, 1, 3410-3419.	2.5	77
132	Defective black Ti ₃₊ self-doped TiO ₂ and reduced graphene oxide composite nanoparticles for boosting visible-light driven photocatalytic and photoelectrochemical activity. Applied Surface Science, 2019, 467-468, 45-55.	3.1	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.	3.2	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.	1.0	76
135	Self-organized TiO ₂ nanotubes in mixed organic-inorganic electrolytes and their photoelectrochemical performance. Electrochimica Acta, 2009, 54, 6536-6542.	2.6	76
136	When superhydrophobic coatings are icephobic: Role of surface topology. Surface and Coatings Technology, 2019, 358, 207-214.	2.2	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.	0.8	75
138	Growth of Intermetallic Compounds in Thermosonic Copper Wire Bonding on Aluminum Metallization. Journal of Electronic Materials, 2010, 39, 124-131.	1.0	75
139	Controlling Na diffusion by rational design of Si-based layered architectures. Physical Chemistry Chemical Physics, 2014, 16, 4260.	1.3	75
140	Hydrophobic sol-gel coatings based on polydimethylsiloxane for self-cleaning applications. Materials and Design, 2015, 86, 855-862.	3.3	75
141	Mechanically robust hydrophobic bio-based epoxy coatings for anti-corrosion application. Surface and Coatings Technology, 2019, 363, 43-50.	2.2	75
142	Hydrogel materials for sustainable water resources harvesting & treatment: Synthesis, mechanism and applications. Chemical Engineering Journal, 2022, 439, 135756.	6.6	75
143	Impact response of aluminum foam core sandwich structures. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 529, 94-101.	2.6	74
144	Elucidating the sources of activity and stability of FeP electrocatalyst for hydrogen evolution reactions in acidic and alkaline media. Applied Catalysis B: Environmental, 2020, 260, 118156.	10.8	74

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145	Bioinspired Soot-Deposited Janus Fabrics for Sustainable Solar Steam Generation with Salt-Rejection. <i>Global Challenges</i> , 2019, 3, 1800117.	1.8	73
146	Transient liquid phase Ag-based solder technology for high-temperature packaging applications. <i>Journal of Alloys and Compounds</i> , 2014, 587, 365-368.	2.8	72
147	Multifunctional wettability patterns prepared by laser processing on superhydrophobic TiO ₂ nanostructured surfaces. <i>Journal of Materials Chemistry B</i> , 2015, 3, 342-347.	2.9	72
148	Sonoelectrochemical synthesis of highly photoelectrochemically active TiO ₂ nanotubes by incorporating CdS nanoparticles. <i>Nanotechnology</i> , 2009, 20, 295601.	1.3	71
149	Site Specific Optical and Photocatalytic Properties of Bi-Doped NaTaO ₃ . <i>Journal of Physical Chemistry C</i> , 2011, 115, 11846-11853.	1.5	71
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