

Dun Zhang

List of Publications by Year in descending order

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71
papers

3,643
citations

147801

31
h-index

133252

59
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71
all docs

71
docs citations

71
times ranked

3331
citing authors

#	ARTICLE	IF	CITATIONS
1	Metastable AgVO_3 microrods as peroxidase mimetics for colorimetric determination of H_2O_2 . <i>Mikrochimica Acta</i> , 2018, 185, 1.	5.0	386
2	Chemical etching preparation of the $\text{Bi}_2\text{WO}_6/\text{BiOI}$ heterojunction with enhanced photocatalytic antifouling activity under visible light irradiation. <i>Chemical Engineering Journal</i> , 2016, 288, 264-275.	12.7	217
3	Super-hydrophobic film prepared on zinc as corrosion barrier. <i>Corrosion Science</i> , 2011, 53, 2080-2086.	6.6	180
4	Green approach to fabrication of a super-hydrophobic film on copper and the consequent corrosion resistance. <i>Corrosion Science</i> , 2014, 80, 366-373.	6.6	167
5	Super-hydrophobic film fabricated on aluminium surface as a barrier to atmospheric corrosion in a marine environment. <i>Corrosion Science</i> , 2015, 91, 287-296.	6.6	135
6	Fabrication of Slippery Lubricant-Infused Porous Surface for Inhibition of Microbially Influenced Corrosion. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1120-1127.	8.0	133
7	Slippery liquid-infused porous surfaces fabricated on aluminum as a barrier to corrosion induced by sulfate reducing bacteria. <i>Corrosion Science</i> , 2015, 93, 159-166.	6.6	121
8	Advantage of super-hydrophobic surface as a barrier against atmospheric corrosion induced by salt deliquescence. <i>Corrosion Science</i> , 2015, 90, 23-32.	6.6	120
9	Controllable one-pot synthesis of a nest-like $\text{Bi}_2\text{WO}_6/\text{BiVO}_4$ composite with enhanced photocatalytic antifouling performance under visible light irradiation. <i>Dalton Transactions</i> , 2016, 45, 4588-4602.	3.3	118
10	Super-hydrophobic metal-complex film fabricated electrochemically on copper as a barrier to corrosive medium. <i>Corrosion Science</i> , 2014, 83, 317-326.	6.6	115
11	Corrosion behavior of copper under biofilm of sulfate-reducing bacteria. <i>Corrosion Science</i> , 2014, 87, 407-415.	6.6	111
12	Liquid/solid contact mode of super-hydrophobic film in aqueous solution and its effect on corrosion resistance. <i>Corrosion Science</i> , 2012, 54, 77-84.	6.6	103
13	Effects of sulfate-reducing bacteria on the corrosion behavior of carbon steel. <i>Electrochimica Acta</i> , 2007, 52, 6084-6088.	5.2	99
14	Superhydrophobic-carbon fibre growth on a zinc surface for corrosion inhibition. <i>Corrosion Science</i> , 2013, 66, 350-359.	6.6	97
15	Super-hydrophobic film prepared on zinc and its effect on corrosion in simulated marine atmosphere. <i>Corrosion Science</i> , 2013, 69, 23-30.	6.6	86
16	$\text{BiOI}/\text{BiVO}_4$ heterojunction with enhanced photocatalytic activity under visible-light irradiation. <i>Journal of Industrial and Engineering Chemistry</i> , 2016, 40, 83-92.	5.8	79
17	Fabrication of non-wetting surfaces on zinc surface as corrosion barrier. <i>Corrosion Science</i> , 2017, 128, 110-119.	6.6	71
18	Influence of sulphate-reducing bacteria on environmental parameters and marine corrosion behavior of Q235 steel in aerobic conditions. <i>Electrochimica Acta</i> , 2010, 55, 1528-1534.	5.2	70

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19	The influence of <i>Desulfovibrio</i> sp. and <i>Pseudoalteromonas</i> sp. on the corrosion of Q235 carbon steel in natural seawater. <i>Corrosion Science</i> , 2016, 112, 552-562.	6.6	69
20	A novel ion-exchange strategy for the fabrication of high strong BiOI/BiOBr heterostructure film coated metal wire mesh with tunable visible-light-driven photocatalytic reactivity. <i>Journal of Hazardous Materials</i> , 2018, 351, 11-19.	12.4	68
21	Bifunctionalized novel Co-V MMO nanowires: Intrinsic oxidase and peroxidase like catalytic activities for antibacterial application. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118256.	20.2	67
22	Controlled drug release characteristics and enhanced antibacterial effect of graphene oxide“drug intercalated layered double hydroxide hybrid films. <i>Journal of Materials Chemistry</i> , 2012, 22, 23106.	6.7	58
23	Facile synthesis of BiOI in hierarchical nanostructure preparation and its photocatalytic application to organic dye removal and biocidal effect of bacteria. <i>Journal of Colloid and Interface Science</i> , 2016, 481, 47-56.	9.4	57
24	Recent advances in chemical durability and mechanical stability of superhydrophobic materials: Multi-strategy design and strengthening. <i>Journal of Materials Science and Technology</i> , 2022, 129, 40-69.	10.7	55
25	Preparation of super-hydrophobic micro-needle CuO surface as a barrier against marine atmospheric corrosion. <i>Corrosion Science</i> , 2018, 131, 156-163.	6.6	48
26	Designing a Superhydrophobic Surface for Enhanced Atmospheric Corrosion Resistance Based on Coalescence-Induced Droplet Jumping Behavior. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38276-38284.	8.0	47
27	Facile <i>in Situ</i> Growth of High Strong BiOI Network Films on Metal Wire Meshes with Photocatalytic Activity. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2454-2462.	6.7	45
28	An efficient way to prepare hydrophobic antireflective SiO ₂ film by sol-gel method. <i>Materials Letters</i> , 2016, 167, 69-72.	2.6	41
29	Design of slippery organogel layer with room-temperature self-healing property for marine anti-fouling application. <i>Progress in Organic Coatings</i> , 2019, 132, 132-138.	3.9	41
30	Atmospheric Corrosion Protection Performance and Mechanism of Superhydrophobic Surface Based on Coalescence-Induced Droplet Self-Jumping Behavior. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25438-25450.	8.0	40
31	An integrated multifunctional photoelectrochemical platform for simultaneous capture, detection, and inactivation of pathogenic bacteria. <i>Sensors and Actuators B: Chemical</i> , 2018, 274, 228-234.	7.8	35
32	Rational fabrication of superhydrophobic surfaces with coalescence-induced droplet jumping behavior for atmospheric corrosion protection. <i>Chemical Engineering Journal</i> , 2022, 428, 132029.	12.7	35
33	Layered double hydroxide derived ultrathin 2D Ni-V mixed metal oxide as a robust peroxidase mimic. <i>Chemical Engineering Journal</i> , 2019, 369, 161-169.	12.7	33
34	D-phenylalanine inhibits the corrosion of Q235 carbon steel caused by <i>Desulfovibrio</i> sp.. <i>International Biodeterioration and Biodegradation</i> , 2018, 127, 178-184.	3.9	29
35	Dual response mimetic enzyme of novel Co ₄ S ₃ /Co ₃ O ₄ composite nanotube for antibacterial application. <i>Journal of Hazardous Materials</i> , 2020, 392, 122278.	12.4	27
36	Fabrication of a robust slippery liquid infused porous surface on Q235 carbon steel for inhibiting microbiologically influenced corrosion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 631, 127696.	4.7	27

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37	Facile fabrication of high-aspect-ratio super-hydrophobic surface with self-propelled droplet jumping behavior for atmospheric corrosion protection. <i>Applied Surface Science</i> , 2021, 555, 149549.	6.1	26
38	A self-powered microbiosensor system for specific bacteria detection based on triboelectric nanogenerator. <i>Nano Energy</i> , 2022, 98, 107317.	16.0	26
39	Comparison of water-line corrosion processes in natural and artificial seawater: The role of microbes. <i>Electrochemistry Communications</i> , 2017, 80, 9-15.	4.7	24
40	CoS ₂ /MoS ₂ Nanosheets with Enzymatic and Photocatalytic Properties for Bacterial Sterilization. <i>ACS Applied Nano Materials</i> , 2021, 4, 7698-7711.	5.0	24
41	Designing a transparent organogel layer with self-repairing property for the inhibition of marine biofouling. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 538, 140-147.	4.7	21
42	Smart anticorrosion coating based on stimuli-responsive micro/nanocontainer: a review. <i>Journal of Oceanology and Limnology</i> , 2020, 38, 1045-1063.	1.3	19
43	Intrinsic Oxidase-like Nanoenzyme Co ₄ S ₃ /Co(OH) ₂ Hybrid Nanotubes with Broad-Spectrum Antibacterial Activity. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 29614-29624.	8.0	18
44	Multifunctional and robust composite coating with water repellency and self-healing against marine corrosion. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 110, 529-541.	5.8	18
45	Corrosion of 907 Steel Influenced by Sulfate-Reducing Bacteria. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 1469-1479.	2.5	17
46	How surface orientation affects coalescence-induced droplet jumping behavior and subsequent atmospheric corrosion resistance of a superhydrophobic surface?. <i>Corrosion Science</i> , 2022, 197, 110082.	6.6	16
47	Synthesis of $\hat{1}\pm$ -MnSe crystal as a robust peroxidase mimic. <i>Materials Research Bulletin</i> , 2015, 67, 152-157.	5.2	15
48	Exploring the bactericidal performance and application of novel mimic enzyme Co ₄ S ₃ . <i>Journal of Colloid and Interface Science</i> , 2020, 561, 327-337.	9.4	15
49	Sulfide ions-induced release of biocides from a metal-phenolic supramolecular film fabricated on aluminum for inhibition of microbially influenced corrosion. <i>Corrosion Science</i> , 2020, 167, 108534.	6.6	15
50	A robust and anti-UV layered textured superhydrophobic surface based on water-glass interface enhancement. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 624, 126835.	4.7	15
51	Bifunctional nanozyme activities of layered double hydroxide derived Co-Al-Ce mixed metal oxides for antibacterial application. <i>Journal of Oceanology and Limnology</i> , 2020, 38, 1233-1245.	1.3	13
52	In situ growth of photocatalytic Ag-decorated $\hat{1}^2$ -Bi ₂ O ₃ /Bi ₂ O _{2.7} heterostructure film on PVC polymer matrices with self-cleaning and antibacterial properties. <i>Chemical Engineering Journal</i> , 2022, 429, 131058.	12.7	13
53	Designing a Highly Stable Slippery Organogel on Q235 Carbon Steel for Inhibiting Microbiologically Influenced Corrosion. <i>ACS Applied Bio Materials</i> , 2021, 4, 6056-6064.	4.6	12
54	Selective ATP Detection via Activation of MoS ₂ -Based Artificial Nanozymes Inhibited by ZIF-90 Nanoparticles. <i>ACS Applied Nano Materials</i> , 2021, 4, 11545-11553.	5.0	12

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55	Synthesis and intrinsic enzyme-like activity of Fe^{2+} -MnOOH nanoplates. Journal of the Taiwan Institute of Chemical Engineers, 2016, 59, 547-552.	5.3	11
56	Discriminative intracellular and extracellular ATP detection based on magnetically controlled antimicrobial peptide. Sensors and Actuators B: Chemical, 2021, 334, 129609.	7.8	11
57	Fabrication of polydimethylsiloxane-attached solid slippery surface with high underwater transparency towards the antifouling of optical window for marine instruments. Journal of Colloid and Interface Science, 2022, 623, 832-844.	9.4	8
58	Facile in situ growth of photoactive Fe^{2+} -Bi ₂ O ₃ films. Journal of the Taiwan Institute of Chemical Engineers, 2017, 75, 183-188.	5.3	7
59	Dynamic self-propelling condensed microdroplets over super-hydrophobic surface: An exceptional atmospheric corrosion inhibition strategy. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 613, 126055.	4.7	7
60	Sulfur-doping tuning oxygen vacancies in ultrathin 2D Ni-V mixed metal oxides for exceptional oxidase mimic and antibacterial applications. Journal of Materials Chemistry C, 2021, 9, 15445-15451.	5.5	7
61	Effects of metabolic activity of sulphate-reducing bacteria on heterogeneous corrosion behaviors of copper in seawater. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 985-997.	1.5	6
62	Design of dual-scale composite structured superhydrophobic surfaces for atmospheric corrosion prevention based on coalescence-induced droplet jumping. Journal of the Taiwan Institute of Chemical Engineers, 2022, 133, 104308.	5.3	6
63	Effect of autoinducer-2 on corrosion of Q235 carbon steel caused by sulfate reducing bacteria. Corrosion Science, 2022, 200, 110220.	6.6	6
64	Exogenous autoinducer-2 inhibits biofilm development of Desulfovibrio sp. Huiquan2017. World Journal of Microbiology and Biotechnology, 2021, 37, 124.	3.6	5
65	A novel strategy of hydrothermal in-situ grown bismuth based film on epoxy resin as recyclable photocatalyst for photodegrading antibiotics and sterilizing microorganism. Separation and Purification Technology, 2022, 290, 120842.	7.9	5
66	Label-free test kit for amino acid analysis by 1,4-benzenediboronic-acid-induced aggregation of gold nanoparticles. Analytical Methods, 2020, 12, 3404-3410.	2.7	4
67	Oxygen vacancy tuned oxidase mimic through selenium-doping ultrathin 2D Ni-V mixed metal oxide and antibacterial application. Journal of Alloys and Compounds, 2022, , 165446.	5.5	4
68	Corrosion of Q235 carbon steel influenced by the introduction of aerogenic and aerobic bacteria. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 1196-1204.	1.5	3
69	Strong acid resistance from electrochemical deposition of WO_3 on superhydrophobic Cu-coated copper surface. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 978-984.	1.5	2
70	A high flexibility all-solid contact sulfide selective electrode using a graphene transducer. Analytical Methods, 2020, 12, 3151-3155.	2.7	1
71	Facile fabrication of highly sensitive and non-label aptasensors based on antifouling amyloid-like protein aggregates. Analytical Methods, 0, , .	2.7	1