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 g-index
71 all docs	71 docs citations	71 times ranked	3331 citing authors

#	Article	IF	Citations
1	In situ growth of photocatalytic Ag-decorated Î²-Bi2O3/Bi2O2.7 heterostructure film on PVC polymer matrices with self-cleaning and antibacterial properties. Chemical Engineering Journal, 2022, 429, 131058.	12.7	13
2	Rational fabrication of superhydrophobic surfaces with coalescence-induced droplet jumping behavior for atmospheric corrosion protection. Chemical Engineering Journal, 2022, 428, 132029.	12.7	35
3	How surface orientation affects coalescence-induced droplet jumping behavior and subsequent atmospheric corrosion resistance of a superhydrophobic surface?. Corrosion Science, 2022, 197, 110082.	6.6	16
4	Multifunctional and robust composite coating with water repellency and self-healing against marine corrosion. Journal of Industrial and Engineering Chemistry, 2022, 110, 529-541.	5.8	18
5	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
6	Effect of autoinducer-2 on corrosion of Q235 carbon steel caused by sulfate reducing bacteria. Corrosion Science, 2022, 200, 110220.	6.6	6
7	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
8	A self-powered microbiosensor system for specific bacteria detection based on triboelectric nanogenerator. Nano Energy, 2022, 98, 107317.	16.0	26
9	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
10	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
11	Recent advances in chemical durability and mechanical stability of superhydrophobic materials: Multi-strategy design and strengthening. Journal of Materials Science and Technology, 2022, 129, 40-69.	10.7	55
12	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
13	Discriminative intracellular and extracellular ATP detection based on magnetically controlled antimicrobial peptide. Sensors and Actuators B: Chemical, 2021, 334, 129609.	7.8	11
14	Atmospheric Corrosion Protection Performance and Mechanism of Superhydrophobic Surface Based on Coalescence-Induced Droplet Self-Jumping Behavior. ACS Applied Materials & Interfaces, 2021, 13, 25438-25450.	8.0	40
15	Exogenous autoinducer-2 inhibits biofilm development of Desulfovibrio sp. Huiquan2017. World Journal of Microbiology and Biotechnology, 2021, 37, 124.	3.6	5
16	Facile fabrication of high-aspect-ratio super-hydrophobic surface with self-propelled droplet jumping behavior for atmospheric corrosion protection. Applied Surface Science, 2021, 555, 149549.	6.1	26
17	Designing a Highly Stable Slippery Organogel on Q235 Carbon Steel for Inhibiting Microbiologically Influenced Corrosion. ACS Applied Bio Materials, 2021, 4, 6056-6064.	4.6	12
18	CoS₂/MoS₂ Nanosheets with Enzymatic and Photocatalytic Properties for Bacterial Sterilization. ACS Applied Nano Materials, 2021, 4, 7698-7711.	5.0	24

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19	A robust and anti-UV layered textured superhydrophobic surface based on water-glass interface enhancement. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 624, 126835.	4.7	15
20	Sulfur-doping tuning oxygen vacancies in ultrathin 2D Niâ€“V mixed metal oxides for exceptional oxidase mimic and antibacterial applications. Journal of Materials Chemistry C, 2021, 9, 15445-15451.	5.5	7
21	Selective ATP Detection via Activation of MoS₂-Based Artificial Nanozymes Inhibited by ZIF-90 Nanoparticles. ACS Applied Nano Materials, 2021, 4, 11545-11553.	5.0	12
22	Fabrication of a robust slippery liquid infused porous surface on Q235 carbon steel for inhibiting microbiologically influenced corrosion. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 631, 127696.	4.7	27
23	Bifunctionalized novel Co-V MMO nanowires: Intrinsic oxidase and peroxidase like catalytic activities for antibacterial application. Applied Catalysis B: Environmental, 2020, 261, 118256.	20.2	67
24	Exploring the bactericidal performance and application of novel mimic enzyme Co4S3. Journal of Colloid and Interface Science, 2020, 561, 327-337.	9.4	15
25	Label-free test kit for <scp>d</scp>-amino acid analysis by 1,4-benzenediboronic-acid-induced aggregation of gold nanoparticles. Analytical Methods, 2020, 12, 3404-3410.	2.7	4
26	Smart anticorrosion coating based on stimuli-responsive micro/nanocontainer: a review. Journal of Oceanology and Limnology, 2020, 38, 1045-1063.	1.3	19
27	Intrinsic Oxidase-like Nanoenzyme Co₄S₃/Co(OH)₂ Hybrid Nanotubes with Broad-Spectrum Antibacterial Activity. ACS Applied Materials & Interfaces, 2020, 12, 29614-29624.	8.0	18
28	Bifunctional nanozyme activities of layered double hydroxide derived Co-Al-Ce mixed metal oxides for antibacterial application. Journal of Oceanology and Limnology, 2020, 38, 1233-1245.	1.3	13
29	A high flexibility all-solid contact sulfide selective electrode using a graphene transducer. Analytical Methods, 2020, 12, 3151-3155.	2.7	1
30	Dual response mimetic enzyme of novel Co4S3/Co3O4 composite nanotube for antibacterial application. Journal of Hazardous Materials, 2020, 392, 122278.	12.4	27
31	Sulfide ions-induced release of biocides from a metal-phenolic supramolecular film fabricated on aluminum for inhibition of microbially influenced corrosion. Corrosion Science, 2020, 167, 108534.	6.6	15
32	Designing a Superhydrophobic Surface for Enhanced Atmospheric Corrosion Resistance Based on Coalescence-Induced Droplet Jumping Behavior. ACS Applied Materials & Interfaces, 2019, 11, 38276-38284.	8.0	47
33	Design of slippery organogel layer with room-temperature self-healing property for marine anti-fouling application. Progress in Organic Coatings, 2019, 132, 132-138.	3.9	41
34	Layered double hydroxide derived ultrathin 2D Ni-V mixed metal oxide as a robust peroxidase mimic. Chemical Engineering Journal, 2019, 369, 161-169.	12.7	33
35	Corrosion of 907 Steel Influenced by Sulfate-Reducing Bacteria. Journal of Materials Engineering and Performance, 2019, 28, 1469-1479.	2.5	17
36	Strong acid resistance from electrochemical deposition of WO₃ on superâ€hydrophobic CuOâ€coated copper surface. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 978-984.	1.5	2

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37	Effects of metabolic activity of sulphateâ€reducing bacteria on heterogeneous corrosion behaviors of copper in seawater. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 985-997.	1.5	6
38	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. Journal of Hazardous Materials, 2018, 351, 11-19.	12.4	68
39	D-phenylalanine inhibits the corrosion of Q235 carbon steel caused by Desulfovibrio sp.. International Biodeterioration and Biodegradation, 2018, 127, 178-184.	3.9	29
40	Preparation of super-hydrophobic micro-needle CuO surface as a barrier against marine atmospheric corrosion. Corrosion Science, 2018, 131, 156-163.	6.6	48
41	Metastable Î±-AgVO3 microrods as peroxidase mimetics for colorimetric determination of H2O2. Mikrochimica Acta, 2018, 185, 1.	5.0	386
42	Designing a transparent organogel layer with self-repairing property for the inhibition of marine biofouling. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 538, 140-147.	4.7	21
43	An integrated multifunctional photoelectrochemical platform for simultaneous capture, detection, and inactivation of pathogenic bacteria. Sensors and Actuators B: Chemical, 2018, 274, 228-234.	7.8	35
44	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
45	Facile in Situ Growth of High Strong BiOI Network Films on Metal Wire Meshes with Photocatalytic Activity. ACS Sustainable Chemistry and Engineering, 2017, 5, 2454-2462.	6.7	45
46	Facile in situ growth of photoactive Î²-Bi 2 O 3 films. Journal of the Taiwan Institute of Chemical Engineers, 2017, 75, 183-188.	5.3	7
47	Comparison of water-line corrosion processes in natural and artificial seawater: The role of microbes. Electrochemistry Communications, 2017, 80, 9-15.	4.7	24
48	Fabrication of non-wetting surfaces on zinc surface as corrosion barrier. Corrosion Science, 2017, 128, 110-119.	6.6	71
49	The influence of Desulfovibrio sp. and Pseudoalteromonas sp. on the corrosion of Q235 carbon steel in natural seawater. Corrosion Science, 2016, 112, 552-562.	6.6	69
50	Facile synthesis of BiOI in hierarchical nanostructure preparation and its photocatalytic application to organic dye removal and biocidal effect of bacteria. Journal of Colloid and Interface Science, 2016, 481, 47-56.	9.4	57
51	BiOI/BiVO4 pâ¿¿n heterojunction with enhanced photocatalytic activity under visible-light irradiation. Journal of Industrial and Engineering Chemistry, 2016, 40, 83-92.	5.8	79
52	Controllable one-pot synthesis of a nest-like Bi₂WO₆/BiVO₄ composite with enhanced photocatalytic antifouling performance under visible light irradiation. Dalton Transactions, 2016, 45, 4588-4602.	3.3	118
53	Fabrication of Slippery Lubricant-Infused Porous Surface for Inhibition of Microbially Influenced Corrosion. ACS Applied Materials & Interfaces, 2016, 8, 1120-1127.	8.0	133
54	An efficient way to prepare hydrophobic antireflective SiO2 film by solâ€“gel method. Materials Letters, 2016, 167, 69-72.	2.6	41

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55	Chemical etching preparation of the Bi2WO6/BiOI pâ€“n heterojunction with enhanced photocatalytic antifouling activity under visible light irradiation. Chemical Engineering Journal, 2016, 288, 264-275.	12.7	217
56	Synthesis and intrinsic enzyme-like activity of Î²-MnOOH nanoplates. Journal of the Taiwan Institute of Chemical Engineers, 2016, 59, 547-552.	5.3	11
57	Slippery liquid-infused porous surfaces fabricated on aluminum as a barrier to corrosion induced by sulfate reducing bacteria. Corrosion Science, 2015, 93, 159-166.	6.6	121
58	Synthesis of Î±-MnSe crystal as a robust peroxidase mimic. Materials Research Bulletin, 2015, 67, 152-157.	5.2	15
59	Super-hydrophobic film fabricated on aluminium surface as a barrier to atmospheric corrosion in a marine environment. Corrosion Science, 2015, 91, 287-296.	6.6	135
60	Advantage of super-hydrophobic surface as a barrier against atmospheric corrosion induced by salt deliquescence. Corrosion Science, 2015, 90, 23-32.	6.6	120
61	Super-hydrophobic metal-complex film fabricated electrochemically on copper as a barrier to corrosive medium. Corrosion Science, 2014, 83, 317-326.	6.6	115
62	Corrosion behavior of copper under biofilm of sulfate-reducing bacteria. Corrosion Science, 2014, 87, 407-415.	6.6	111
63	Green approach to fabrication of a super-hydrophobic film on copper and the consequent corrosion resistance. Corrosion Science, 2014, 80, 366-373.	6.6	167
64	Super-hydrophobic film prepared on zinc and its effect on corrosion in simulated marine atmosphere. Corrosion Science, 2013, 69, 23-30.	6.6	86
65	Superhydrophobic-carbon fibre growth on a zinc surface for corrosion inhibition. Corrosion Science, 2013, 66, 350-359.	6.6	97
66	Liquid/solid contact mode of super-hydrophobic film in aqueous solution and its effect on corrosion resistance. Corrosion Science, 2012, 54, 77-84.	6.6	103
67	Controlled drug release characteristics and enhanced antibacterial effect of graphene oxideâ€“drug intercalated layered double hydroxide hybrid films. Journal of Materials Chemistry, 2012, 22, 23106.	6.7	58
68	Super-hydrophobic film prepared on zinc as corrosion barrier. Corrosion Science, 2011, 53, 2080-2086.	6.6	180
69	Influence of sulphate-reducing bacteria on environmental parameters and marine corrosion behavior of Q235 steel in aerobic conditions. Electrochimica Acta, 2010, 55, 1528-1534.	5.2	70
70	Effects of sulfate-reducing bacteria on the corrosion behavior of carbon steel. Electrochimica Acta, 2007, 52, 6084-6088.	5.2	99
71	Facile fabrication of highly sensitive and non-label aptasensors based on antifouling amyloid-like protein aggregates. Analytical Methods, 0, , .	2.7	1