

# Da-Ke Xu

## List of Publications by Year in descending order

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135  
papers

8,256  
citations

34105

52  
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53230

85  
g-index

137  
all docs

137  
docs citations

137  
times ranked

3420  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-action smart coatings with a self-healing superhydrophobic surface and anti-corrosion properties. <i>Journal of Materials Chemistry A</i> , 2017, 5, 2355-2364.	10.3	413
2	Anaerobic microbiologically influenced corrosion mechanisms interpreted using bioenergetics and bioelectrochemistry: A review. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1713-1718.	10.7	326
3	Laboratory investigation of microbiologically influenced corrosion of C1018 carbon steel by nitrate reducing bacterium <i>Bacillus licheniformis</i> . <i>Corrosion Science</i> , 2013, 77, 385-390.	6.6	284
4	Microbiologically influenced corrosion and current mitigation strategies: A state of the art review. <i>International Biodeterioration and Biodegradation</i> , 2019, 137, 42-58.	3.9	279
5	Carbon source starvation triggered more aggressive corrosion against carbon steel by the <i>Desulfovibrio vulgaris</i> biofilm. <i>International Biodeterioration and Biodegradation</i> , 2014, 91, 74-81.	3.9	273
6	Electron mediators accelerate the microbiologically influenced corrosion of 304 stainless steel by the <i>Desulfovibrio vulgaris</i> biofilm. <i>Bioelectrochemistry</i> , 2015, 101, 14-21.	4.6	267
7	Toward a better understanding of microbiologically influenced corrosion caused by sulfate reducing bacteria. <i>Journal of Materials Science and Technology</i> , 2019, 35, 631-636.	10.7	255
8	Mechanistic modeling of biocorrosion caused by biofilms of sulfate reducing bacteria and acid producing bacteria. <i>Bioelectrochemistry</i> , 2016, 110, 52-58.	4.6	231
9	Effects of biogenic H <sub>2</sub> S on the microbiologically influenced corrosion of C1018 carbon steel by sulfate reducing <i>Desulfovibrio vulgaris</i> biofilm. <i>Corrosion Science</i> , 2018, 130, 1-11.	6.6	230
10	Microbiologically influenced corrosion of C1018 carbon steel by nitrate reducing <i>Pseudomonas aeruginosa</i> biofilm under organic carbon starvation. <i>Corrosion Science</i> , 2017, 127, 1-9.	6.6	169
11	Electron transfer mediators accelerated the microbiologically influence corrosion against carbon steel by nitrate reducing <i>Pseudomonas aeruginosa</i> biofilm. <i>Bioelectrochemistry</i> , 2017, 118, 38-46.	4.6	162
12	Accelerated corrosion of 2205 duplex stainless steel caused by marine aerobic <i>Pseudomonas aeruginosa</i> biofilm. <i>Bioelectrochemistry</i> , 2017, 113, 1-8.	4.6	138
13	Stainless steel corrosion via direct iron-to-microbe electron transfer by <i>Geobacter</i> species. <i>ISME Journal</i> , 2021, 15, 3084-3093.	9.8	113
14	Influence of nitrogen on corrosion behaviour of high nitrogen martensitic stainless steels manufactured by pressurized metallurgy. <i>Corrosion Science</i> , 2018, 144, 288-300.	6.6	112
15	Investigation of microbiologically influenced corrosion of high nitrogen nickel-free stainless steel by <i>Pseudomonas aeruginosa</i> . <i>Corrosion Science</i> , 2016, 111, 811-821.	6.6	110
16	Accelerated corrosion of 2304 duplex stainless steel by marine <i>Pseudomonas aeruginosa</i> biofilm. <i>International Biodeterioration and Biodegradation</i> , 2018, 127, 1-9.	3.9	108
17	A novel Cu-bearing high-entropy alloy with significant antibacterial behavior against corrosive marine biofilms. <i>Journal of Materials Science and Technology</i> , 2020, 46, 201-210.	10.7	108
18	Effect of copper addition on mechanical properties, corrosion resistance and antibacterial property of 316L stainless steel. <i>Materials Science and Engineering C</i> , 2017, 71, 1079-1085.	7.3	107

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19	Effect of nitrogen on corrosion behaviour of a novel high nitrogen medium-entropy alloy CrCoNiN manufactured by pressurized metallurgy. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1781-1790.	10.7	102
20	Corrosion of antibacterial Cu-bearing 316L stainless steels in the presence of sulfate reducing bacteria. <i>Corrosion Science</i> , 2018, 132, 46-55.	6.6	102
21	Antimicrobial materials with medical applications. <i>Materials Technology</i> , 2015, 30, B90-B95.	3.0	101
22	Study of corrosion behavior and mechanism of carbon steel in the presence of <i>Chlorella vulgaris</i> . <i>Corrosion Science</i> , 2015, 101, 84-93.	6.6	93
23	Enhanced resistance of 2205 Cu-bearing duplex stainless steel towards microbiologically influenced corrosion by marine aerobic <i>Pseudomonas aeruginosa</i> biofilms. <i>Journal of Materials Science and Technology</i> , 2018, 34, 1325-1336.	10.7	90
24	Laboratory investigation of the microbiologically influenced corrosion (MIC) resistance of a novel Cu-bearing 2205 duplex stainless steel in the presence of an aerobic marine <i>Pseudomonas aeruginosa</i> biofilm. <i>Biofouling</i> , 2015, 31, 481-492.	2.2	89
25	Endogenous phenazine-1-carboxamide encoding gene PhzH regulated the extracellular electron transfer in biocorrosion of stainless steel by marine <i>Pseudomonas aeruginosa</i> . <i>Electrochemistry Communications</i> , 2018, 94, 9-13.	4.7	89
26	Copper precipitation behavior and mechanical properties of Cu-bearing 316L austenitic stainless steel: A comprehensive cross-correlation study. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2016, 675, 243-252.	5.6	85
27	Microbiologically influenced corrosion behavior of S32654 super austenitic stainless steel in the presence of marine <i>Pseudomonas aeruginosa</i> biofilm. <i>Journal of Materials Science and Technology</i> , 2017, 33, 1596-1603.	10.7	85
28	Advances in the treatment of problematic industrial biofilms. <i>World Journal of Microbiology and Biotechnology</i> , 2017, 33, 97.	3.6	83
29	Microbiological influenced corrosion resistance characteristics of a 304L-Cu stainless steel against <i>Escherichia coli</i> . <i>Materials Science and Engineering C</i> , 2015, 48, 228-234.	7.3	81
30	Microbiologically Influenced Corrosion of 2707 Hyper-Duplex Stainless Steel by Marine <i>Pseudomonas aeruginosa</i> Biofilm. <i>Scientific Reports</i> , 2016, 6, 20190.	3.3	80
31	Nature Sunflower Stalk Pith with Zwitterionic Hydrogel Coating for Highly Efficient and Sustainable Solar Evaporation. <i>Advanced Functional Materials</i> , 2022, 32, 2108135.	14.9	79
32	Effects of ferrous ion concentration on microbiologically influenced corrosion of carbon steel by sulfate reducing bacterium <i>Desulfovibrio vulgaris</i> . <i>Corrosion Science</i> , 2019, 153, 127-137.	6.6	78
33	Anaerobic Corrosion of 304 Stainless Steel Caused by the <i>Pseudomonas aeruginosa</i> Biofilm. <i>Frontiers in Microbiology</i> , 2017, 8, 2335.	3.5	74
34	Antibacterial ability of a novel Cu-bearing 2205 duplex stainless steel against <i>Pseudomonas aeruginosa</i> biofilm in artificial seawater. <i>International Biodeterioration and Biodegradation</i> , 2016, 110, 199-205.	3.9	70
35	Mitigation of the <i>Desulfovibrio vulgaris</i> biofilm using alkyldimethylbenzylammonium chloride enhanced by d-amino acids. <i>International Biodeterioration and Biodegradation</i> , 2017, 117, 97-104.	3.9	68
36	Microbiologically influenced corrosion of titanium caused by aerobic marine bacterium <i>Pseudomonas aeruginosa</i> . <i>Journal of Materials Science and Technology</i> , 2019, 35, 216-222.	10.7	68

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37	Laboratory investigation of microbiologically influenced corrosion of Q235 carbon steel by halophilic archaea <i>Natronorubrum tibetense</i> . <i>Corrosion Science</i> , 2018, 145, 151-161.	6.6	67
38	Mussel-inspired superhydrophobic surfaces with enhanced corrosion resistance and dual-action antibacterial properties. <i>Materials Science and Engineering C</i> , 2017, 80, 566-577.	7.3	66
39	Pyocyanin-modifying genes <i>phzM</i> and <i>phzS</i> regulated the extracellular electron transfer in microbiologically-influenced corrosion of X80 carbon steel by <i>Pseudomonas aeruginosa</i> . <i>Corrosion Science</i> , 2020, 164, 108355.	6.6	65
40	Effects of aging time on intergranular and pitting corrosion behavior of Cu-bearing 304L stainless steel in comparison with 304L stainless steel. <i>Corrosion Science</i> , 2016, 113, 46-56.	6.6	64
41	Direct microbial electron uptake as a mechanism for stainless steel corrosion in aerobic environments. <i>Water Research</i> , 2022, 219, 118553.	11.3	63
42	Effect of surface passivation on corrosion resistance and antibacterial properties of Cu-bearing 316L stainless steel. <i>Applied Surface Science</i> , 2016, 386, 371-380.	6.1	62
43	Severe microbiologically influenced corrosion of S32654 super austenitic stainless steel by acid producing bacterium <i>Acidithiobacillus caldus</i> SM-1. <i>Bioelectrochemistry</i> , 2018, 123, 34-44.	4.6	62
44	Sharing riboflavin as an electron shuttle enhances the corrosivity of a mixed consortium of <i>Shewanella oneidensis</i> and <i>Bacillus licheniformis</i> against 316L stainless steel. <i>Electrochimica Acta</i> , 2019, 316, 93-104.	5.2	62
45	Enhanced Biocide Mitigation of Field Biofilm Consortia by a Mixture of D-Amino Acids. <i>Frontiers in Microbiology</i> , 2016, 7, 896.	3.5	61
46	A synergistic d-tyrosine and tetrakis hydroxymethyl phosphonium sulfate biocide combination for the mitigation of an SRB biofilm. <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 3067-3074.	3.6	60
47	<i>Salvia officinalis</i> extract mitigates the microbiologically influenced corrosion of 304L stainless steel by <i>Pseudomonas aeruginosa</i> biofilm. <i>Bioelectrochemistry</i> , 2019, 128, 193-203.	4.6	60
48	Mitigation of microbiologically influenced corrosion of 304L stainless steel in the presence of <i>Pseudomonas aeruginosa</i> by <i>Cistus ladanifer</i> leaves extract. <i>International Biodeterioration and Biodegradation</i> , 2018, 133, 159-169.	3.9	58
49	Microbial corrosion of metals: The corrosion microbiome. <i>Advances in Microbial Physiology</i> , 2021, 78, 317-390.	2.4	58
50	Extracellular Electron Transfer Is a Bottleneck in the Microbiologically Influenced Corrosion of C1018 Carbon Steel by the Biofilm of Sulfate-Reducing Bacterium <i>Desulfovibrio vulgaris</i> . <i>PLoS ONE</i> , 2015, 10, e0136183.	2.5	57
51	Comparison of different electrochemical techniques for continuous monitoring of the microbiologically influenced corrosion of 2205 duplex stainless steel by marine <i>Pseudomonas aeruginosa</i> biofilm. <i>Corrosion Science</i> , 2017, 126, 142-151.	6.6	56
52	Laboratory investigation of microbiologically influenced corrosion of 2205 duplex stainless steel by marine <i>Pseudomonas aeruginosa</i> biofilm using electrochemical noise. <i>Corrosion Science</i> , 2018, 143, 281-291.	6.6	55
53	Antibacterial Performance of a Cu-bearing Stainless Steel against Microorganisms in Tap Water. <i>Journal of Materials Science and Technology</i> , 2015, 31, 243-251.	10.7	54
54	Corrosion effect of <i>Bacillus cereus</i> on X80 pipeline steel in a Beijing soil environment. <i>Bioelectrochemistry</i> , 2018, 121, 18-26.	4.6	53

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55	Antimicrobial Cu-bearing 2205 duplex stainless steel against MIC by nitrate reducing <i>Pseudomonas aeruginosa</i> biofilm. <i>International Biodeterioration and Biodegradation</i> , 2018, 132, 132-138.	3.9	52
56	Inhibition of <i>Staphylococcus aureus</i> biofilm by a copper-bearing 317L-Cu stainless steel and its corrosion resistance. <i>Materials Science and Engineering C</i> , 2016, 69, 744-750.	7.3	51
57	Effect of Cu Addition to 2205 Duplex Stainless Steel on the Resistance against Pitting Corrosion by the <i>Pseudomonas aeruginosa</i> Biofilm. <i>Journal of Materials Science and Technology</i> , 2017, 33, 723-727.	10.7	50
58	Carbon steel biocorrosion at 80°C by a thermophilic sulfate reducing archaeon biofilm provides evidence for its utilization of elemental iron as electron donor through extracellular electron transfer. <i>Corrosion Science</i> , 2018, 145, 47-54.	6.6	48
59	Microbiologically influenced corrosion of 304L stainless steel caused by an alga associated bacterium <i>Halomonas titanicae</i> . <i>Journal of Materials Science and Technology</i> , 2020, 37, 200-206.	10.7	48
60	Marine Biofilms with Significant Corrosion Inhibition Performance by Secreting Extracellular Polymeric Substances. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 47272-47282.	8.0	47
61	Adaptive bidirectional extracellular electron transfer during accelerated microbiologically influenced corrosion of stainless steel. <i>Communications Materials</i> , 2021, 2, .	6.9	46
62	Microbial corrosion resistance of a novel Cu-bearing pipeline steel. <i>Journal of Materials Science and Technology</i> , 2018, 34, 2480-2491.	10.7	45
63	Synergistic effect of chloride ion and <i>Shewanella</i> algae accelerates the corrosion of Ti-6Al-4V alloy. <i>Journal of Materials Science and Technology</i> , 2021, 71, 177-185.	10.7	45
64	Extracellular electron transfer in microbial biocorrosion. <i>Current Opinion in Electrochemistry</i> , 2021, 29, 100763.	4.8	45
65	Accelerated biocorrosion of stainless steel in marine water via extracellular electron transfer encoding gene <i>phzH</i> of <i>Pseudomonas aeruginosa</i> . <i>Water Research</i> , 2022, 220, 118634.	11.3	45
66	Laboratory investigation of MIC threat due to hydrotest using untreated seawater and subsequent exposure to pipeline fluids with and without SRB spiking. <i>Engineering Failure Analysis</i> , 2013, 28, 149-159.	4.0	44
67	Investigation of the rotation speed on corrosion behavior of HP-13Cr stainless steel in the extremely aggressive oilfield environment by using the rotating cage test. <i>Corrosion Science</i> , 2018, 145, 307-319.	6.6	43
68	D-Methionine as a biofilm dispersal signaling molecule enhanced tetrakis hydroxymethyl phosphonium sulfate mitigation of <i>Desulfovibrio vulgaris</i> biofilm and biocorrosion pitting. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014, 65, 837-845.	1.5	42
69	Fabricating antibacterial CoCrCuFeNi high-entropy alloy via selective laser melting and in-situ alloying. <i>Journal of Materials Science and Technology</i> , 2022, 102, 159-165.	10.7	41
70	An investigation of the antibacterial ability and cytotoxicity of a novel cu-bearing 317L stainless steel. <i>Scientific Reports</i> , 2016, 6, 29244.	3.3	40
71	Electron transfer mediator PCN secreted by aerobic marine <i>Pseudomonas aeruginosa</i> accelerates microbiologically influenced corrosion of TC4 titanium alloy. <i>Journal of Materials Science and Technology</i> , 2021, 79, 101-108.	10.7	40
72	Catechin hydrate as an eco-friendly biocorrosion inhibitor for 304L stainless steel with dual-action antibacterial properties against <i>Pseudomonas aeruginosa</i> biofilm. <i>Corrosion Science</i> , 2019, 157, 98-108.	6.6	39

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73	Pourbaix diagram for HP-13Cr stainless steel in the aggressive oilfield environment characterized by high temperature, high CO <sub>2</sub> partial pressure and high salinity. <i>Electrochimica Acta</i> , 2019, 293, 116-127.	5.2	38
74	Mitigation of a nitrate reducing <i>Pseudomonas aeruginosa</i> biofilm and anaerobic biocorrosion using ciprofloxacin enhanced by D-tyrosine. <i>Scientific Reports</i> , 2017, 7, 6946.	3.3	35
75	Review on the corrosion-promotion activity of graphene and its inhibition. <i>Journal of Materials Science and Technology</i> , 2021, 91, 278-306.	10.7	35
76	Relationship between Microstructure and Corrosion Behavior of Martensitic High Nitrogen Stainless Steel 30Cr15Mo1N at Different Austenitizing Temperatures. <i>Materials</i> , 2017, 10, 861.	2.9	34
77	Improved corrosion resistance and biofilm inhibition ability of copper-bearing 304 stainless steel against oral microaerobic <i>Streptococcus mutans</i> . <i>Journal of Materials Science and Technology</i> , 2021, 66, 112-120.	10.7	33
78	Enhanced antibacterial behavior of a novel Cu-bearing high-entropy alloy. <i>Journal of Materials Science and Technology</i> , 2022, 117, 158-166.	10.7	33
79	Biofilm inhibition and corrosion resistance of 2205-Cu duplex stainless steel against acid producing bacterium <i>Acetobacter aceti</i> . <i>Journal of Materials Science and Technology</i> , 2019, 35, 2494-2502.	10.7	31
80	Methanogenic archaea and sulfate reducing bacteria induce severe corrosion of steel pipelines after hydrostatic testing. <i>Journal of Materials Science and Technology</i> , 2020, 48, 72-83.	10.7	31
81	Antibacterial property of a gradient Cu-bearing titanium alloy by laser additive manufacturing. <i>Rare Metals</i> , 2022, 41, 580-593.	7.1	31
82	Biocorrosion caused by microbial biofilms is ubiquitous around us. <i>Microbial Biotechnology</i> , 2021, 14, 803-805.	4.2	30
83	d-Cysteine functionalised silver nanoparticles surface with a "disperse-then-kill" antibacterial synergy. <i>Chemical Engineering Journal</i> , 2020, 381, 122662.	12.7	29
84	Ce addition enhances the microbially induced corrosion resistance of Cu-bearing 2205 duplex stainless steel in presence of sulfate reducing bacteria. <i>Corrosion Science</i> , 2021, 179, 109141.	6.6	28
85	Responses of soil microbiome to steel corrosion. <i>Npj Biofilms and Microbiomes</i> , 2021, 7, 6.	6.4	28
86	d-amino acids for the enhancement of a binary biocide cocktail consisting of THPS and EDDS against an SRB biofilm. <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 1641-1646.	3.6	27
87	Accelerated Corrosion of 316L Stainless Steel Caused by <i>Shewanella algae</i> Biofilms. <i>ACS Applied Bio Materials</i> , 2020, 3, 2185-2192.	4.6	27
88	Inhibiting corrosion of aluminum alloy 5083 through <i>Vibrio</i> species biofilm. <i>Corrosion Science</i> , 2021, 180, 109188.	6.6	27
89	Bioenergetics and extracellular electron transfer in microbial fuel cells and microbial corrosion. <i>Current Opinion in Electrochemistry</i> , 2022, 31, 100830.	4.8	26
90	Biocide Cocktail Consisting of Glutaraldehyde, Ethylene Diamine Disuccinate (EDDS), and Methanol for the Mitigation of Souring and Biocorrosion. <i>Corrosion</i> , 2012, 68, 994-1002.	1.1	25

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91	Microbiologically influenced corrosion of 304 stainless steel by nitrate reducing <i>Bacillus cereus</i> in simulated Beijing soil solution. <i>Bioelectrochemistry</i> , 2020, 133, 107477.	4.6	25
92	Investigation of microbial corrosion inhibition of Cu-bearing 316L stainless steel in the presence of acid producing bacterium <i>Acidithiobacillus caldus</i> SM-1. <i>Journal of Materials Science and Technology</i> , 2021, 64, 176-186.	10.7	25
93	Conductive magnetite nanoparticles considerably accelerated carbon steel corrosion by electroactive <i>Desulfovibrio vulgaris</i> biofilm. <i>Corrosion Science</i> , 2022, 205, 110440.	6.6	25
94	Bacterial biofilms as platforms engineered for diverse applications. <i>Biotechnology Advances</i> , 2022, 57, 107932.	11.7	23
95	Polyethyleneimine Functionalized Mesoporous Magnetic Nanoparticles with Enhanced Antibacterial and Antibiofilm Activity in an Alternating Magnetic Field. <i>ACS Applied Materials &amp; Interfaces</i> , 2022, 14, 18794-18805.	8.0	23
96	Experimental testing and numerical simulation to analyze the corrosion failures of single well pipelines in Tahe oilfield. <i>Engineering Failure Analysis</i> , 2017, 80, 112-122.	4.0	22
97	Cu-bearing high-entropy alloys with excellent antiviral properties. <i>Journal of Materials Science and Technology</i> , 2021, 84, 59-64.	10.7	22
98	A green triple biocide cocktail consisting of a biocide, EDDS and methanol for the mitigation of planktonic and sessile sulfate-reducing bacteria. <i>World Journal of Microbiology and Biotechnology</i> , 2012, 28, 431-435.	3.6	21
99	Microbial fuel cells and microbial electrolysis cells for the production of bioelectricity and biomaterials. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1915-1928.	2.2	21
100	Understanding biofilm impact on electrochemical impedance spectroscopy analyses in microbial corrosion and microbial corrosion inhibition phenomena. <i>Electrochimica Acta</i> , 2022, 426, 140803.	5.2	20
101	Investigation on mechanical, corrosion resistance and antibacterial properties of Cu-bearing 2205 duplex stainless steel by solution treatment. <i>RSC Advances</i> , 2016, 6, 112738-112747.	3.6	19
102	A Synergistic Acceleration of Corrosion of Q235 Carbon Steel Between Magnetization and Extracellular Polymeric Substances. <i>Acta Metallurgica Sinica (English Letters)</i> , 2018, 31, 456-464.	2.9	19
103	Effect of partial replacement of carbon by nitrogen on intergranular corrosion behavior of high nitrogen martensitic stainless steels. <i>Journal of Materials Science and Technology</i> , 2019, 35, 2357-2364.	10.7	19
104	Stern's Geary Constant for X80 Pipeline Steel in the Presence of Different Corrosive Microorganisms. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 1483-1489.	2.9	19
105	Effect of organic silicon quaternary ammonium salts on mitigating corrosion of reinforced steel induced by SRB in mild alkaline simulated concrete pore solution. <i>Journal of Materials Science and Technology</i> , 2021, 64, 126-140.	10.7	18
106	Mechanical properties, corrosion behavior and cytotoxicity of Ti-6Al-4V alloy fabricated by laser metal deposition. <i>Materials Characterization</i> , 2021, 179, 111302.	4.4	18
107	Effect of Iron Oxidizing Bacteria Biofilm on Corrosion Inhibition of Imidazoline Derivative in CO <sub>2</sub> -Containing Oilfield Produced Water with Organic Carbon Source Starvation. <i>Journal of the Electrochemical Society</i> , 2018, 165, C354-C361.	2.9	17
108	Investigation of the failure mechanism of the TG-201 inhibitor: Promoting the synergistic effect of HP-13Cr stainless steel during the well completion. <i>Corrosion Science</i> , 2020, 166, 108448.	6.6	17

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109	Antibacterial activities of a novel Cu-bearing high-entropy alloy against multi-drug-resistant <i>Acinetobacter baumannii</i> and <i>Staphylococcus aureus</i> . <i>Rare Metals</i> , 2022, 41, 570-579.	7.1	17
110	Rhamnolipid as an eco-friendly corrosion inhibitor for microbiologically influenced corrosion. <i>Corrosion Science</i> , 2022, 204, 110390.	6.6	17
111	Corrosion Inhibition of X80 Steel in Simulated Marine Environment with <i>Marinobacter aquaeolei</i> . <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 1373-1384.	2.9	16
112	Mitigation of sulphate-reducing bacteria attack on the corrosion of 20SiMn steel rebar in sulphoaluminate concrete using organic silicon quaternary ammonium salt. <i>Construction and Building Materials</i> , 2020, 257, 119047.	7.2	16
113	<i>Streptococcus mutans</i> biofilms induce metabolite-mediated corrosion of 316 L stainless steel in a simulated oral environment. <i>Corrosion Science</i> , 2021, 182, 109286.	6.6	16
114	Marine <i>Vibrio</i> spp. protect carbon steel against corrosion through secreting extracellular polymeric substances. <i>Npj Materials Degradation</i> , 2022, 6, .	5.8	15
115	The role of surface morphology in the barrier properties of epoxy coatings in different corrosion environments. <i>Progress in Organic Coatings</i> , 2017, 104, 199-209.	3.9	14
116	Microbial ingress and in vitro degradation enhanced by glucose on bioabsorbable Mg-Ca alloy. <i>Bioactive Materials</i> , 2020, 5, 902-916.	15.6	12
117	An antibacterial mechanism of titanium alloy based on micro-area potential difference induced reactive oxygen species. <i>Journal of Materials Science and Technology</i> , 2022, 119, 75-86.	10.7	12
118	Oral microbiota accelerates corrosion of 316L stainless steel for orthodontic applications. <i>Journal of Materials Science and Technology</i> , 2022, 128, 118-132.	10.7	12
119	Isolation and identification of a novel endophytic bacterial strain with antifungal activity from wild blueberry <i>Vaccinium uliginosum</i> . <i>Annals of Microbiology</i> , 2007, 57, 673-676.	2.6	11
120	Corrosion behavior of high nitrogen nickel-free austenitic stainless steel in the presence of artificial saliva and <i>Streptococcus mutans</i> . <i>Bioelectrochemistry</i> , 2021, 142, 107940.	4.6	10
121	Mitigation of the corrosion-causing <i>Desulfovibrio desulfuricans</i> biofilm using an organic silicon quaternary ammonium salt in alkaline media simulated concrete pore solutions. <i>Biofouling</i> , 2018, 34, 1121-1137.	2.2	9
122	Interspecies interactions of <i>Vibrio azureus</i> and <i>Jeotgalibacillus alkaliphilus</i> on corrosion of duplex stainless steel. <i>International Biodeterioration and Biodegradation</i> , 2021, 160, 105212.	3.9	9
123	A New High-Efficiency Experimental Design for Optimizing Various Flow Velocities Testing in Extremely Aggressive Formation Water. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 944-950.	2.9	7
124	Microbiologically influenced corrosion behavior of friction stir welded S32654 super austenitic stainless steel in the presence of <i>Acidithiobacillus caldus</i> SM-1 biofilm. <i>Materials Today Communications</i> , 2020, 25, 101491.	1.9	5
125	A Mixture of D-Amino Acids Enhances the Biocidal Efficacy of CMIT/MIT Against Corrosive <i>Vibrio harveyi</i> Biofilm. <i>Frontiers in Microbiology</i> , 2020, 11, 557435.	3.5	5
126	Effect of the Flow Velocity on the Corrosion Behavior of UNS S41426 Stainless Steel in the Extremely Aggressive Oilfield Environment for the Tarim Area. <i>Corrosion</i> , 2020, 76, 654-665.	1.1	5



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127	Engineering microbial systems for the production and functionalization of biomaterials. <i>Current Opinion in Microbiology</i> , 2022, 68, 102154.	5.1	5
128	Mitigation of carbon steel biocorrosion using a green biocide enhanced by a nature-mimicking anti-biofilm peptide in a flow loop. <i>Bioresources and Bioprocessing</i> , 2022, 9, .	4.2	5
129	Anti-bacterial performance evaluation of hydrophobic poly (dimethylsiloxane)-ZnO coating using <i>Pseudomonas aeruginosa</i> . <i>Chemical Papers</i> , 2021, 75, 1069-1081.	2.2	4
130	Editorial: Biobleaching and Biocorrosion: Advances in Interfacial Processes. <i>Frontiers in Microbiology</i> , 2021, 12, 653029.	3.5	4
131	Glyceryl trinitrate and caprylic acid for the mitigation of the <i>Desulfovibrio vulgaris</i> biofilm on C1018 carbon steel. <i>World Journal of Microbiology and Biotechnology</i> , 2016, 32, 23.	3.6	3
132	Potential application of an <i>Aspergillus</i> strain in a pilot biofilter for benzene biodegradation. <i>Scientific Reports</i> , 2017, 7, 46059.	3.3	3
133	d-leucine enhances antibiofilm activity of chlorhexidine against caries-causing <i>Streptococcus mutans</i> biofilm. <i>International Biodeterioration and Biodegradation</i> , 2021, 157, 105135.	3.9	3
134	Inhibitory Effect of <i>Vibrio neocaledinocus</i> sp. and <i>Pseudoalteromonas piscicida</i> Dual-Species Biofilms on the Corrosion of Carbon Steel. <i>Acta Metallurgica Sinica (English Letters)</i> , 0, , 1.	2.9	2
135	Study on antibacterial performance and biocompatibility of a novel phosphorus-magnesium fiber. <i>Materials Letters</i> , 2017, 209, 562-565.	2.6	1