

Xiaogang Li

List of Publications by Year in descending order

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475
papers

24,259
citations

8755

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13379

130
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480
all docs

480
docs citations

480
times ranked

15883
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-action self-healing coatings with simultaneous recovery of corrosion resistance and adhesion strength. <i>Journal of Materials Science and Technology</i> , 2022, 101, 18-27.	10.7	23
2	A new understanding of the effect of Cr on the corrosion resistance evolution of weathering steel based on big data technology. <i>Journal of Materials Science and Technology</i> , 2022, 104, 67-80.	10.7	70
3	Stress Corrosion Susceptibility and Electrochemical Characteristic of X80 Under a Disbonded Coating in a Low-pH Soil Solution with Cathodic Protection. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 2102-2111.	2.5	2
4	Degradation behaviour of selective laser melted CoCrMo alloys in H ₂ O ₂ -containing chloride solutions. <i>Corrosion Science</i> , 2022, 195, 109981.	6.6	5
5	Saline-responsive triple-action self-healing coating for intelligent corrosion control. <i>Materials and Design</i> , 2022, 214, 110381.	7.0	29
6	Effect of hydrogen charging on SCC of 2205 duplex stainless steel with varying microstructures in simulated deep-sea environment. <i>Corrosion Science</i> , 2022, 196, 110026.	6.6	26
7	Self-healing effect of damaged coatings via biomineralization by <i>Shewanella putrefaciens</i> . <i>Corrosion Science</i> , 2022, 196, 110067.	6.6	12
8	Effect of annealing temperatures on microstructural evolution and corrosion behavior of Ti-Mo titanium alloy in hydrochloric acid. <i>Corrosion Science</i> , 2022, 197, 110079.	6.6	30
9	Stress corrosion cracking behavior of high-strength mooring-chain steel in the SO ₂ -polluted coastal atmosphere. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 1186-1196.	4.9	2
10	Effect of cathodic potential on stress corrosion cracking behavior of 21Cr2NiMo steel in simulated seawater. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 263-270.	4.9	1
11	Long-term corrosion monitoring of carbon steels and environmental correlation analysis via the random forest method. <i>Npj Materials Degradation</i> , 2022, 6, .	5.8	53
12	Hydrogen embrittlement of high-strength marine steel as a weld joint in artificial seawater under cathodic polarization. <i>Engineering Failure Analysis</i> , 2022, 134, 106044.	4.0	10
13	Extracellular electron transfer routes in microbologically influenced corrosion of X80 steel by <i>Bacillus licheniformis</i> . <i>Bioelectrochemistry</i> , 2022, 145, 108074.	4.6	7
14	Acceleration of corrosion of 304 stainless steel by outward extracellular electron transfer of <i>Pseudomonas aeruginosa</i> biofilm. <i>Corrosion Science</i> , 2022, 199, 110159.	6.6	36
15	Effect of Hydrogen Charging on the Stress Corrosion Cracking Behavior of X70 Steel in Simulated Deep Seawater Environment. <i>Metals</i> , 2022, 12, 334.	2.3	9
16	New insights into the mechanism of localised corrosion induced by TiN-containing inclusions in high strength low alloy steel. <i>Journal of Materials Science and Technology</i> , 2022, 124, 141-149.	10.7	42
17	Data-mining and atmospheric corrosion resistance evaluation of Sn- and Sb-additional low alloy steel based on big data technology. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2022, 29, 825-835.	4.9	13
18	Effect of electrochemical hydrogen charging on the mechanical property and corrosion behavior of Ti-3Mo alloy. <i>Corrosion Science</i> , 2022, 200, 110219.	6.6	18

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19	Smart protective coatings with self-sensing and active corrosion protection dual functionality from pH-sensitive calcium carbonate microcontainers. <i>Corrosion Science</i> , 2022, 200, 110254.	6.6	23
20	Effect of cold deformation on corrosion behavior of selective laser melted 316L stainless steel bipolar plates in a simulated environment for proton exchange membrane fuel cells. <i>Corrosion Science</i> , 2022, 201, 110257.	6.6	46
21	Electrochemical studies of microbiologically influenced corrosion of X80 steel by nitrate-reducing <i>Bacillus licheniformis</i> under anaerobic conditions. <i>Journal of Materials Science and Technology</i> , 2022, 118, 208-217.	10.7	15
22	Corrosion characteristics of Q690qE high-strength bridge steel in simulated coastal industrial environment and its influence on mechanical and corrosion fatigue behaviors. <i>Construction and Building Materials</i> , 2022, 341, 127830.	7.2	20
23	Corrosion behavior of typical hot rolled sheets in humid storage environments. <i>Anti-Corrosion Methods and Materials</i> , 2022, ahead-of-print, .	1.5	0
24	Inhibition of galvanic corrosion between crystallographic orientations in low alloy steel by grain ultra-refinement. <i>Materials Today Communications</i> , 2022, 31, 103742.	1.9	3
25	Effect of pH and H ₂ S concentration on sulfide stress corrosion cracking (SSCC) of API 2205 duplex stainless steel. <i>International Journal of Materials Research</i> , 2021, 106, 608-613.	0.3	7
26	Understanding environmental impacts on initial atmospheric corrosion based on corrosion monitoring sensors. <i>Journal of Materials Science and Technology</i> , 2021, 64, 214-221.	10.7	32
27	Role of Martensite Structural Characteristics on Corrosion Features in Ni-Advanced Dual-Phase Low-Alloy Steels. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 802-812.	2.9	4
28	Corrosion behaviour of 2205 DSS in the artificial industrial-marine environment. <i>Corrosion Engineering Science and Technology</i> , 2021, 56, 22-34.	1.4	3
29	Study of biofilm-influenced corrosion on X80 pipeline steel by a nitrate-reducing bacterium, <i>Bacillus cereus</i> , in artificial Beijing soil. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 197, 111356.	5.0	27
30	Accelerating effect of catalase on microbiologically influenced corrosion of 304 stainless steel by the halophilic archaeon <i>Natronorubrum tibetense</i> . <i>Corrosion Science</i> , 2021, 178, 109057.	6.6	26
31	Towards a better understanding of localised corrosion induced by typical non-metallic inclusions in low-alloy steels. <i>Corrosion Science</i> , 2021, 179, 109150.	6.6	55
32	Effect of grain size and crystallographic orientation on the corrosion behaviors of low alloy steel. <i>Journal of Alloys and Compounds</i> , 2021, 857, 158258.	5.5	52
33	Recent advances on environmental corrosion behavior and mechanism of high-entropy alloys. <i>Journal of Materials Science and Technology</i> , 2021, 80, 217-233.	10.7	250
34	Magnetically responsive lubricant-infused porous surfaces with controllable lubricity and durable anti-icing performance. <i>Surface and Coatings Technology</i> , 2021, 406, 126742.	4.8	17
35	Effect of cathodic polarisation on stress corrosion cracking behaviour of a Ni(Fe, Al)-maraging steel in artificial seawater. <i>Corrosion Science</i> , 2021, 179, 109176.	6.6	33
36	Simultaneously Improving Mechanical Properties and Stress Corrosion Cracking Resistance of High-Strength Low-Alloy Steel via Finish Rolling within Non-recrystallization Temperature. <i>Acta Metallurgica Sinica (English Letters)</i> , 2021, 34, 565-578.	2.9	4

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37	Improving atmospheric corrosion prediction through key environmental factor identification by random forest-based model. <i>Corrosion Science</i> , 2021, 178, 109084.	6.6	42
38	Dual-action self-healing protective coatings with photothermal responsive corrosion inhibitor nanocontainers. <i>Chemical Engineering Journal</i> , 2021, 404, 127118.	12.7	122
39	About metastable cellular structure in additively manufactured austenitic stainless steels. <i>Additive Manufacturing</i> , 2021, 38, 101804.	3.0	59
40	Corrosion mechanism of a new-type low-alloy corrosion resistant steel containing Sb used in acid environment. <i>Anti-Corrosion Methods and Materials</i> , 2021, 68, 85-94.	1.5	6
41	Improved Stress Corrosion Cracking Resistance of High-Strength Low-Alloy Steel in a Simulated Deep-Sea Environment via Nb Microalloying. <i>Steel Research International</i> , 2021, 92, 2000596.	1.8	9
42	Understanding the Effect of Nanosized NbC Precipitates on the Stress Corrosion Cracking of High-Strength Low-Alloy Steel in a Simulated Deep-Sea Environment. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 2159-2173.	2.5	6
43	Self-healing corrosion protective coatings based on micro/nanocarriers: A review. <i>Corrosion Communications</i> , 2021, 1, 18-25.	6.0	46
44	Study on corrosion behavior of β -Sn and intermetallic compounds phases in SAC305 alloy by in-situ EC-AFM and first-principles calculation. <i>Corrosion Science</i> , 2021, 181, 109244.	6.6	27
45	Corrosion fatigue behavior of Fe-16Mn-0.6C-1.68Al twinning-induced plasticity steel in simulated seawater. <i>Corrosion Science</i> , 2021, 182, 109282.	6.6	19
46	High-throughput computing for screening the potential alloying elements of a 7xxx aluminum alloy for increasing the alloy resistance to stress corrosion cracking. <i>Corrosion Science</i> , 2021, 183, 109304.	6.6	17
47	Synergy of Cu and Sb to enhance the resistance of 3%Ni weathering steel to marine atmospheric corrosion. <i>Corrosion Science</i> , 2021, 183, 109353.	6.6	72
48	Unexpected Stress Corrosion Cracking Improvement Achieved by Recrystallized Layer in Al-Zn-Mg Alloy. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 6258-6268.	2.5	5
49	Integrated computation of corrosion: Modelling, simulation and applications. <i>Corrosion Communications</i> , 2021, 2, 8-23.	6.0	22
50	Adaptive bidirectional extracellular electron transfer during accelerated microbiologically influenced corrosion of stainless steel. <i>Communications Materials</i> , 2021, 2, .	6.9	46
51	Fundamental understanding on the effect of Cr on corrosion resistance of weathering steel in simulated tropical marine atmosphere. <i>Corrosion Science</i> , 2021, 186, 109427.	6.6	91
52	Analysis of Corrosion Evolution in Carbon Steel in the Subtropical Atmospheric Environment of Sichuan. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 8014-8022.	2.5	15
53	Hydrogen induced microstructure evolution and cracking mechanism in a metastable dual-phase high-entropy alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 819, 141490.	5.6	19
54	A new study for healing pitting defects of 316L stainless steel based on microarc technology. <i>Corrosion Science</i> , 2021, 187, 109505.	6.6	17

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55	Failure analysis of a commercially pure titanium tube in an air conditioner condenser. <i>Anti-Corrosion Methods and Materials</i> , 2021, 68, 269-275.	1.5	1
56	Computational simulation and efficient evaluation on corrosion inhibitors for electrochemical etching on aluminum foil. <i>Corrosion Science</i> , 2021, 187, 109492.	6.6	24
57	Insight into TiN inclusion induced pit corrosion of interstitial free steel exposed to aerated NaCl solution. <i>Journal of Materials Research and Technology</i> , 2021, 13, 13-24.	5.8	18
58	Revealing the inner rules of PREN from electronic aspect by first-principles calculations. <i>Corrosion Science</i> , 2021, 189, 109561.	6.6	17
59	Distinct beneficial effect of Sn on the corrosion resistance of Cr-Mo low alloy steel. <i>Journal of Materials Science and Technology</i> , 2021, 81, 175-189.	10.7	39
60	Effect of Alternating Magnetic Field on Electrochemical Behavior of 316L and TA2 in Simulated Seawater. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 9377-9389.	2.5	4
61	A study of rust layer of low alloy structural steel containing 0.1 % Sb in atmospheric environment of the Yellow Sea in China. <i>Corrosion Science</i> , 2021, 188, 109549.	6.6	39
62	Effect of grain ultra-refinement on microstructure, tensile property, and corrosion behavior of low alloy steel. <i>Materials Characterization</i> , 2021, 179, 111385.	4.4	21
63	The corrosion behavior and film properties of Al-containing high-entropy alloys in acidic solutions. <i>Applied Surface Science</i> , 2021, 560, 149854.	6.1	58
64	The influence of temperature and dissolved oxygen on the electrochemical nature of Al-Zn-In-Ga galvanic anode. <i>Surface Topography: Metrology and Properties</i> , 2021, 9, 035054.	1.6	1
65	Stress corrosion mechanism and susceptibility of X80 steel under a disbonded coating in an acidic soil solution. <i>Journal of Materials Research and Technology</i> , 2021, 14, 533-547.	5.8	7
66	Development and optimization of Ni-advanced weathering steel: A review. <i>Corrosion Communications</i> , 2021, 2, 82-90.	6.0	9
67	Comparative study on the stress corrosion cracking of a new Ni-advanced high strength steel prepared by TMCP, direct quenching, and quenching & tempering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 825, 141854.	5.6	19
68	Comparative effect of (111) and (110) crystallographic orientation on the passive behavior of low alloy steels in bicarbonate solution. <i>Applied Surface Science</i> , 2021, 561, 150066.	6.1	10
69	Stress corrosion cracking behavior and mechanism of Fe-Mn-Al-C-Ni high specific strength steel in the marine atmospheric environment. <i>Corrosion Science</i> , 2021, 191, 109760.	6.6	40
70	Evolution in microstructure, wear, corrosion, and tribocorrosion behavior of Mo-containing high-entropy alloy coatings fabricated by laser cladding. <i>Corrosion Science</i> , 2021, 191, 109727.	6.6	77
71	Optimization of Mo on the corrosion resistance of Cr-advanced weathering steel designed for tropical marine atmosphere. <i>Construction and Building Materials</i> , 2021, 302, 124346.	7.2	30
72	A durable and photothermal superhydrophobic coating with entwined CNTs-SiO ₂ hybrids for anti-icing applications. <i>Chemical Engineering Journal</i> , 2021, 423, 130238.	12.7	98

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73	Exploration of the processing scheme of a novel Ni(Fe, Al)-maraging steel. Journal of Materials Research and Technology, 2021, 10, 225-239.	5.8	7
74	The Passivity of Pure Nickel in Alkaline Solution under Different Temperatures: Electrochemical Verification and First-Principles Calculation. Journal of Materials Engineering and Performance, 2021, 30, 1737-1747.	2.5	2
75	Influence of pore defects on the mechanical property and corrosion behavior of SLM 18Ni300 maraging steel. Materials Characterization, 2021, 182, 111514.	4.4	16
76	Review of Corrosion-Resistant High-Entropy Alloy Coatings: A Review. Journal of the Electrochemical Society, 2021, 168, 111502.	2.9	44
77	Effect of pH on the Corrosion and Repassivation Behavior of TA2 in Simulated Seawater. Materials, 2021, 14, 6764.	2.9	7
78	Focusing on the relationship between the precipitated phases and the pitting corrosion of ZL101A aluminum alloy. Surface Topography: Metrology and Properties, 2021, 9, 045047.	1.6	0
79	Long-term corrosion kinetics and mechanism of magnesium alloy AZ31 exposed to a dry tropical desert environment. Corrosion Science, 2020, 163, 108274.	6.6	17
80	Effect of Manufacturing Parameters on the Mechanical and Corrosion Behavior of Selective Laser Melted 15% PH Stainless Steel. Steel Research International, 2020, 91, 1900447.	1.8	21
81	Influence of carbon on the corrosion behaviour of interstitial equiatomic CoCrFeMnNi high-entropy alloys in a chlorinated concrete solution. Corrosion Science, 2020, 163, 108287.	6.6	123
82	d-Cysteine functionalised silver nanoparticles surface with a disperse-then-kill antibacterial synergy. Chemical Engineering Journal, 2020, 381, 122662.	12.7	29
83	Dual role of nanosized NbC precipitates in hydrogen embrittlement susceptibility of lath martensitic steel. Corrosion Science, 2020, 164, 108345.	6.6	75
84	The passivity of selective laser melted 316L stainless steel. Applied Surface Science, 2020, 504, 144495.	6.1	139
85	Evolution of rust layers on carbon steel and weathering steel in high humidity and heat marine atmospheric corrosion. Journal of Materials Science and Technology, 2020, 39, 190-199.	10.7	89
86	Machine learning assistance for electrochemical curve simulation of corrosion and its application. Materials and Corrosion - Werkstoffe Und Korrosion, 2020, 71, 474-484.	1.5	18
87	POSS-tetraaniline modified graphene for active corrosion protection of epoxy-based organic coating. Chemical Engineering Journal, 2020, 383, 123160.	12.7	109
88	Influence of rare earth metals on mechanisms of localised corrosion induced by inclusions in Zr-Ti deoxidised low alloy steel. Corrosion Science, 2020, 166, 108463.	6.6	48
89	Superior resistance to hydrogen damage for selective laser melted 316L stainless steel in a proton exchange membrane fuel cell environment. Corrosion Science, 2020, 166, 108425.	6.6	76
90	Effect of prior austenite grain boundaries on corrosion fatigue behaviors of E690 high strength low alloy steel in simulated marine atmosphere. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 773, 138884.	5.6	30

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91	Ni-Fe-MoO ₄ ²⁻ LDHs/epoxy resin varnish: A composite coating on carbon steel for long-time and active corrosion protection. <i>Progress in Organic Coatings</i> , 2020, 140, 105514.	3.9	11
92	Enhancing the corrosion resistance of selective laser melted 15-5PH martensite stainless steel via heat treatment. <i>Corrosion Science</i> , 2020, 166, 108427.	6.6	55
93	Initial microzonal corrosion mechanism of inclusions associated with the precipitated (Ti, Nb)N phase of Sb-containing weathering steel. <i>Corrosion Science</i> , 2020, 163, 108232.	6.6	29
94	Crack growth behaviour of E690 steel in artificial seawater with various pH values. <i>Corrosion Science</i> , 2020, 164, 108336.	6.6	28
95	Benefit of the corrosion product film formed on a new weathering steel containing 3% nickel under marine atmosphere in Maldives. <i>Corrosion Science</i> , 2020, 165, 108416.	6.6	110
96	Size dependency between the carbides and durability of X80 steel in acid solid environment. <i>Journal of Electroanalytical Chemistry</i> , 2020, 873, 114506.	3.8	6
97	Vertical galvanic corrosion of pipeline steel in simulated marine thermocline. <i>Ocean Engineering</i> , 2020, 217, 107584.	4.3	14
98	Effect of Sn on the corrosion behavior of weathering steel in a simulated tropical marine atmosphere. <i>Anti-Corrosion Methods and Materials</i> , 2020, 67, 129-139.	1.5	3
99	The role of chromium content in the long-term atmospheric corrosion process. <i>Npj Materials Degradation</i> , 2020, 4, .	5.8	45
100	A failure case of P110 steel tubing in CO ₂ flooding well. <i>Anti-Corrosion Methods and Materials</i> , 2020, 67, 453-463.	1.5	2
101	Characteristics of hydrogen embrittlement in high-pH stress corrosion cracking of X100 pipeline steel in carbonate/ bicarbonate solution. <i>Construction and Building Materials</i> , 2020, 263, 120124.	7.2	38
102	Investigation of Corrosion Behaviors on an Fe/Cu-Type ACM Sensor under Various Environments. <i>Metals</i> , 2020, 10, 905.	2.3	6
103	Hardness, microstructure and texture of friction surfaced 17-4PH precipitation hardening stainless steel coatings with and without subsequent aging. <i>Surface and Coatings Technology</i> , 2020, 402, 126302.	4.8	25
104	Co-enhancing the Mechanical Property and Corrosion Resistance of Selective Laser Melted High-Strength Stainless Steel via Cryogenic Treatment. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 7052-7062.	2.5	5
105	Corrosion Behaviors of Carbon Steel and Ni-Advanced Weathering Steel Exposed to Tropical Marine Atmosphere. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 6417-6426.	2.5	14
106	Corrosion and SCC initiation behavior of low-alloy high-strength steels microalloyed with Nb and Sb in a simulated polluted marine atmosphere. <i>Journal of Materials Research and Technology</i> , 2020, 9, 12976-12995.	5.8	27
107	Distinguishing two different microbiologically influenced corrosion (MIC) mechanisms using an electron mediator and hydrogen evolution detection. <i>Corrosion Science</i> , 2020, 177, 108993.	6.6	86
108	Stress Corrosion Cracking of 2205 Duplex Stainless Steel with Simulated Welding Microstructures in Simulated Sea Environment at Different Depths. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 5476-5489.	2.5	11

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109	Improving the resistance of high-strength steel to SCC in a SO ₂ -polluted marine atmosphere through Nb and Sb microalloying. Corrosion Science, 2020, 170, 108693.	6.6	70
110	Towards understanding and prediction of atmospheric corrosion of an Fe/Cu corrosion sensor via machine learning. Corrosion Science, 2020, 170, 108697.	6.6	82
111	Revealing bioinorganic interface in microbiologically influenced corrosion with FIB-SEM/TEM. Corrosion Science, 2020, 173, 108763.	6.6	15
112	A study for corrosion behavior of a new-type weathering steel used in harsh marine environment. Construction and Building Materials, 2020, 259, 119760.	7.2	73
113	Hetero-deformation-induced stress in additively manufactured 316L stainless steel. Materials Research Letters, 2020, 8, 390-397.	8.7	66
114	A strong and ductile medium-entropy alloy resists hydrogen embrittlement and corrosion. Nature Communications, 2020, 11, 3081.	12.8	116
115	Prediction of polycarbonate degradation in natural atmospheric environment of China based on BP-ANN model with screened environmental factors. Chemical Engineering Journal, 2020, 399, 125878.	12.7	38
116	Heat treatment simulation investigation on the mechanical performance of the inter-critical heated affected zone (ICHAZ) in ship plate steel weld joint. Applied Ocean Research, 2020, 101, 102237.	4.1	3
117	Effects of the Addition of Cu and Ni on the Corrosion Behavior of Weathering Steels in Corrosive Industrial Environments. Journal of Materials Engineering and Performance, 2020, 29, 2531-2541.	2.5	29
118	Effect of Cr content on the passivation behavior of Cr alloy steel in a CO ₂ aqueous environment containing silty sand. Corrosion Science, 2020, 168, 108591.	6.6	50
119	Effect of grain size and its uniformity on corrosion resistance of rolled 316L stainless steel by EBSD and TEM. Materials Today Communications, 2020, 25, 101429.	1.9	20
120	Failure analysis of a 304 stainless steel heat exchanger in liquid sulfur recovery units. Engineering Failure Analysis, 2020, 116, 104729.	4.0	24
121	Improved catalytic performance and corrosion resistance of selective laser melted 316L SS in a direct methanol fuel cell by surface anodization. Surface and Coatings Technology, 2020, 399, 126172.	4.8	8
122	The effect of nickel on corrosion behaviour of high-strength low alloy steel rebar in simulated concrete pore solution. Construction and Building Materials, 2020, 246, 118462.	7.2	26
123	Effect of silty sand on the pre-passivation behaviour of 1Cr steel in a CO ₂ aqueous environment. Corrosion Engineering Science and Technology, 2020, 55, 205-216.	1.4	10
124	Comparative study of the stress corrosion behavior of a multiuse bainite steel in the simulated tropical marine atmosphere and seawater environments. Construction and Building Materials, 2020, 239, 117903.	7.2	46
125	Effect of Sb on the Corrosion Behavior of Low-Alloy Steels in a Simulated Polluted Marine Atmosphere. Journal of Materials Engineering and Performance, 2020, 29, 2648-2657.	2.5	11
126	Comparative study on corrosion fatigue behaviour of high strength low alloy steel and simulated HAZ microstructures in a simulated marine atmosphere. International Journal of Fatigue, 2020, 137, 105666.	5.7	30

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127	Stress-assisted microbiologically influenced corrosion mechanism of 2205 duplex stainless steel caused by sulfate-reducing bacteria. <i>Corrosion Science</i> , 2020, 173, 108746.	6.6	74
128	Corrosion of metallic materials fabricated by selective laser melting. <i>Npj Materials Degradation</i> , 2019, 3, .	5.8	158
129	Corrosion Acceleration of Printed Circuit Boards With an Immersion Silver Layer Exposed to <i>Bacillus cereus</i> in an Aerobic Medium. <i>Frontiers in Microbiology</i> , 2019, 10, 1493.	3.5	10
130	Scanning Kelvin Probe Force Microscopy and Density Functional Theory Studies on the Surface Potential of the Intermetallics in AA7075-T6 Alloys. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 4289-4301.	2.5	8
131	Understanding the effect of niobium on hydrogen-induced blistering in pipeline steel: A combined experimental and theoretical study. <i>Corrosion Science</i> , 2019, 159, 108142.	6.6	29
132	Understanding of the corrosion protection by V(IV) conversion coatings from a sol-gel perspective. <i>Corrosion Science</i> , 2019, 161, 108196.	6.6	14
133	Effect of AC Current Density on the Stress Corrosion Cracking Behavior and Mechanism of E690 High-Strength Steel in Simulated Seawater. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 6931-6941.	2.5	11
134	Effects of Nb on stress corrosion cracking of high-strength low-alloy steel in simulated seawater. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27962-27973.	7.1	23
135	Effect of alternating current and <i>Bacillus cereus</i> on the stress corrosion behavior and mechanism of X80 steel in a Beijing soil solution. <i>Bioelectrochemistry</i> , 2019, 127, 49-58.	4.6	22
136	High-throughput fabrication of nickel-based alloys with different Nb contents via a dual-feed additive manufacturing system: Effect of Nb content on microstructural and mechanical properties. <i>Journal of Alloys and Compounds</i> , 2019, 785, 826-837.	5.5	60
137	Plasma-modified C-doped Co ₃ O ₄ nanosheets for the oxygen evolution reaction designed by Butler-Volmer and first-principle calculations. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4581-4595.	10.3	24
138	Plasmon-mediated photothermal and superhydrophobic TiN-PTFE film for anti-icing/deicing applications. <i>Composites Science and Technology</i> , 2019, 181, 107696.	7.8	105
139	Anisotropic response in mechanical and corrosion properties of hastelloy X fabricated by selective laser melting. <i>Construction and Building Materials</i> , 2019, 221, 720-729.	7.2	72
140	Effect of TiC content on the mechanical and corrosion properties of Inconel 718 alloy fabricated by a high-throughput dual-feed laser metal deposition system. <i>Journal of Alloys and Compounds</i> , 2019, 803, 637-648.	5.5	64
141	Prediction and Knowledge Mining of Outdoor Atmospheric Corrosion Rates of Low Alloy Steels Based on the Random Forests Approach. <i>Metals</i> , 2019, 9, 383.	2.3	44
142	Electrochemical characteristic and stress corrosion behavior of API X70 high-strength pipeline steel under a simulated disbonded coating in an artificial seawater environment. <i>Journal of Electroanalytical Chemistry</i> , 2019, 845, 92-105.	3.8	29
143	Simultaneous Thermal Stability and Ultrahigh Sensitivity of Heterojunction SERS Substrates. <i>Nanomaterials</i> , 2019, 9, 830.	4.1	14
144	Discontinuous model combined with an atomic mechanism simulates the precipitated η phase effect in intergranular cracking of 7-series aluminum alloys. <i>Computational Materials Science</i> , 2019, 166, 282-292.	3.0	9

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145	Influence of different heat-affected zone microstructures on the stress corrosion behavior and mechanism of high-strength low-alloy steel in a sulfurated marine atmosphere. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2019, 759, 124-141.	5.6	77
146	Correlation between the surface aging of acrylic polyurethane coatings and environmental factors. <i>Progress in Organic Coatings</i> , 2019, 132, 362-369.	3.9	12
147	The effect of ϵ -Ni ₃ Ti precipitates and reversed austenite on the passive film stability of nickel-rich Custom 465 steel. <i>Corrosion Science</i> , 2019, 154, 178-190.	6.6	64
148	Mechanical properties and corrosion behavior of selective laser melted 316L stainless steel after different heat treatment processes. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1499-1507.	10.7	267
149	Passivation behavior and surface chemistry of 2507 super duplex stainless steel in artificial seawater: Influence of dissolved oxygen and pH. <i>Corrosion Science</i> , 2019, 150, 218-234.	6.6	212
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452	Growth behavior of Cu/Al intermetallic compounds in hot-dip aluminized copper. <i>Surface and Interface Analysis</i> , 2009, 41, 361-365.	1.8	15
453	Aging behavior and mechanism of ethylene-propylene-diene monomer (EPDM) rubber in fluorescent UV/condensation weathering environment. <i>Polymer Degradation and Stability</i> , 2009, 94, 339-343.	5.8	50
454	Stress corrosion cracking of X80 pipeline steel in simulated alkaline soil solution. <i>Materials & Design</i> , 2009, 30, 1712-1717.	5.1	102
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459	Effect of microcrystallization on pitting corrosion of pure aluminium. <i>Corrosion Science</i> , 2009, 51, 2151-2157.	6.6	74
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469	Effect of deteriorated microstructures on stress corrosion cracking of X70 pipeline steel in acidic soil environment. <i>International Journal of Minerals, Metallurgy, and Materials</i> , 2008, 15, 707-713.	0.2	11
470	Preparation and characterization of bimodal porous alumina-silica and its application to removal of basic nitrogen compounds from light oil. <i>Journal of Materials Chemistry</i> , 2007, 17, 2233-2240.	6.7	14
471	Aging of ethylene-propylene diene monomer (EPDM) in artificial weathering environment. <i>Polymer Degradation and Stability</i> , 2007, 92, 1841-1846.	5.8	118
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