

Wei Wu

List of Publications by Year in descending order

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23
papers

1,191
citations

430874

18
h-index

642732

23
g-index

23
all docs

23
docs citations

23
times ranked

466
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of pH and chloride on the micro-mechanism of pitting corrosion for high strength pipeline steel in aerated NaCl solutions. <i>Applied Surface Science</i> , 2015, 349, 746-756.	6.1	168
2	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
3	Electrochemical characterization and stress corrosion cracking of E690 high strength steel in wet-dry cyclic marine environments. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2018, 710, 318-328.	5.6	106
4	Insight into the product film formed on Ni-advanced weathering steel in a tropical marine atmosphere. <i>Applied Surface Science</i> , 2018, 436, 80-89.	6.1	105
5	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
6	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
7	Improving the resistance of high-strength steel to SCC in a SO ₂ -polluted marine atmosphere through Nb and Sb microalloying. <i>Corrosion Science</i> , 2020, 170, 108693.	6.6	70
8	Insight into the corrosion behaviour and degradation mechanism of pure zinc in simulated body fluid. <i>Corrosion Science</i> , 2021, 178, 109071.	6.6	52
9	Ni-advanced weathering steels in Maldives for two years: Corrosion results of tropical marine field test. <i>Construction and Building Materials</i> , 2020, 245, 118463.	7.2	51
10	Failure analysis of corrosion at an inhomogeneous welded joint in a natural gas gathering pipeline considering the combined action of multiple factors. <i>Engineering Failure Analysis</i> , 2016, 64, 126-143.	4.0	48
11	Optimizing the resistance of Ni-advanced weathering steel to marine atmospheric corrosion with the addition of Al or Mo. <i>Construction and Building Materials</i> , 2021, 279, 122341.	7.2	48
12	Atmospheric Corrosion Behavior and Mechanism of a Ni-Advanced Weathering Steel in Simulated Tropical Marine Environment. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 6075-6086.	2.5	47
13	Comparative study of the stress corrosion behavior of a multiuse bainite steel in the simulated tropical marine atmosphere and seawater environments. <i>Construction and Building Materials</i> , 2020, 239, 117903.	7.2	46
14	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
15	Effect of pH and hydrogen on the stress corrosion cracking behavior of duplex stainless steel in marine atmosphere environment. <i>Ocean Engineering</i> , 2017, 146, 311-323.	4.3	38
16	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
17	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
18	Surface characterization of the commercially pure titanium after hydrogen charging and its electrochemical characteristics in artificial seawater. <i>Journal of Electroanalytical Chemistry</i> , 2018, 822, 23-32.	3.8	19

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19	Effect of annealing time on the microstructure and SCC behavior of an austenite-based low-density steel in a marine atmosphere. <i>Corrosion Science</i> , 2022, 205, 110466.	6.6	15
20	Electrochemical and Stress Corrosion Mechanism of Submarine Pipeline in Simulated Seawater in Presence of Different Alternating Current Densities. <i>Materials</i> , 2018, 11, 1074.	2.9	13
21	Evaluating the effect of aluminum on the corrosion resistance of the structural steels used for marine engineering. <i>Journal of Materials Research and Technology</i> , 2022, 18, 4181-4193.	5.8	5
22	Microenvironment evolution and SCC behavior of subsea pipeline within disbonded coating crevice in a seawater environment under cathodic protection. <i>Anti-Corrosion Methods and Materials</i> , 2021, 68, 77-84.	1.5	3
23	Roles of Sb addition on the corrosion resistance of the low-alloy steel in a real tropical marine atmosphere. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2022, 73, 733-746.	1.5	2