

Zhengbin Wang

List of Publications by Year in descending order

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37
papers

1,234
citations

394421

19
h-index

377865

34
g-index

37
all docs

37
docs citations

37
times ranked

689
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of the corrosion behavior of pure titanium and its alloys in fluoride-containing sulfuric acid. <i>Corrosion Science</i> , 2016, 103, 50-65.	6.6	246
2	The effect of fluoride ions on the corrosion behavior of pure titanium in 0.05M sulfuric acid. <i>Electrochimica Acta</i> , 2014, 135, 526-535.	5.2	180
3	Synergistic effects of fluoride and chloride on general corrosion behavior of AISI 316 stainless steel and pure titanium in H ₂ SO ₄ solutions. <i>Corrosion Science</i> , 2018, 130, 203-217.	6.6	105
4	Effect of aging treatment on microstructure and corrosion behavior of a Fe-18Cr-15Mn-0.66N stainless steel. <i>Journal of Materials Science and Technology</i> , 2022, 107, 197-206.	10.7	61
5	Determination and explanation of the pH-related critical fluoride concentration of pure titanium in acidic solutions using electrochemical methods. <i>Electrochimica Acta</i> , 2015, 170, 300-310.	5.2	48
6	Synergistic effects of deposits and sulfate reducing bacteria on the corrosion of carbon steel. <i>Corrosion Science</i> , 2022, 199, 110210.	6.6	44
7	Interaction between pitting corrosion and critical flow velocity for erosion-corrosion of 304 stainless steel under jet slurry impingement. <i>Corrosion Science</i> , 2019, 158, 108084.	6.6	32
8	Inhibition performance of benzimidazole derivatives with different heteroatoms on the under-deposit corrosion of carbon steel in CO ₂ -saturated solution. <i>Corrosion Science</i> , 2021, 192, 109841.	6.6	32
9	On the localised corrosion of carbon steel induced by the in-situ local damage of porous corrosion products. <i>Journal of Materials Science and Technology</i> , 2020, 54, 95-104.	10.7	31
10	Corrosion Behavior of a Nickel-Free High-Nitrogen Stainless Steel with Hydrogen Charging. <i>Jom</i> , 2021, 73, 1165-1172.	1.9	31
11	Effects of Laser Scanning Speed on Microstructure, Microhardness, and Corrosion Behavior of Laser Cladding Ni45 Coatings. <i>Journal of Chemistry</i> , 2020, 2020, 1-11.	1.9	30
12	Cavitation Erosion and Jet Impingement Erosion Behavior of the NiTi Coating Produced by Air Plasma Spraying. <i>Coatings</i> , 2018, 8, 346.	2.6	27
13	Effect of thermally induced B2 phase on the corrosion behavior of an Al _{0.3} CoCrFeNi high entropy alloy. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163886.	5.5	27
14	On the critical flow velocity for erosion-corrosion in local eroded regions under liquid-solid jet impingement. <i>Wear</i> , 2019, 422-423, 94-99.	3.1	26
15	The role of surface film on the critical flow velocity for erosion-corrosion of pure titanium. <i>Tribology International</i> , 2019, 133, 67-72.	5.9	26
16	Effect of Ni Interlayer on Cavitation Erosion Resistance of NiTi Cladding by Tungsten Inert Gas (TIG) Surfacing Process. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 415-424.	2.9	26
17	Comparison of critical flow velocity for erosion-corrosion of six stainless steels in 3.5 wt% NaCl solution containing 2 wt% silica sand particles. <i>Wear</i> , 2018, 416-417, 62-71.	3.1	25
18	Synergistic effect between cavitation erosion and corrosion for various copper alloys in sulphide-containing 3.5% NaCl solutions. <i>Wear</i> , 2020, 450-451, 203258.	3.1	25

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19	Critical flow velocity phenomenon in erosion-corrosion of pipelines: determination methods, mechanisms and applications. <i>Journal of Pipeline Science and Engineering</i> , 2021, 1, 63-73.	4.8	25
20	Oxygen impurity improving corrosion resistance of a Zr-based bulk metallic glass in 3.5Åwt% NaCl solution. <i>Corrosion Science</i> , 2021, 192, 109867.	6.6	22
21	Nicotinic acid derivatives as corrosion inhibitors for mild steel in hydrochloric acid solutions: an experimental and computational chemistry study. <i>Journal of Adhesion Science and Technology</i> , 2021, 35, 63-80.	2.6	21
22	Evaluation of the dissolved oxygen-related electrochemical behavior of pure titanium in acidic fluoride-containing solutions. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3459-3471.	2.5	19
23	Corrosion and Cavitation Erosion Behaviours of Cast Nickel Aluminium Bronze in 3.5% NaCl Solution with Different Sulphide Concentrations. <i>Acta Metallurgica Sinica (English Letters)</i> , 2019, 32, 1470-1482.	2.9	18
24	Corrosion Protection Performance of Nano-SiO ₂ /Epoxy Composite Coatings in Acidic Desulfurized Flue Gas Condensates. <i>Journal of Materials Engineering and Performance</i> , 2016, 25, 3880-3889.	2.5	16
25	Correlation between depassivation and repassivation processes determined by single particle impingement: Its crucial role in the phenomenon of critical flow velocity for erosion-corrosion. <i>Journal of Materials Science and Technology</i> , 2021, 89, 158-166.	10.7	14
26	Thermal Residual Stresses in W Fibers/Zr-based Metallic Glass Composites by High-energy Synchrotron X-ray Diffraction. <i>Journal of Materials Science and Technology</i> , 2015, 31, 159-163.	10.7	13
27	Corrosion Behaviors of Pure Titanium and Its Weldment in Simulated Desulfurized Flue Gas Condensates in Thermal Power Plant Chimney. <i>Acta Metallurgica Sinica (English Letters)</i> , 2015, 28, 477-486.	2.9	12
28	Under-Deposit Corrosion of Carbon Steel Beneath Full Coverage of CaCO ₃ Deposit Layer under Different Atmospheres. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 7552-7563.	2.5	12
29	Can the Prior Cathodic Polarisation Treatment Remove the Air-Formed Surface Film and Is It Necessary for the Potentiodynamic Polarisation Test?. <i>Acta Metallurgica Sinica (English Letters)</i> , 2020, 33, 839-845.	2.9	9
30	Effects of dissolved oxygen on the electrochemical corrosion behavior of pure titanium in fluoride-containing weakly acidic solutions. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2083-2093.	2.5	8
31	On the critical flow velocity for erosion-corrosion of Ni-based alloys in a saline-sand solution. <i>Wear</i> , 2020, 458-459, 203417.	3.1	5
32	Cavitation Erosion and Corrosion Behavior of NiTi Cladding with Cu and Nb Interlayers. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 3840-3851.	2.5	5
33	Electrochemical and surface analytical studies of transition metal bipyridine dicarboxylic acid complexes as corrosion inhibitors for a mild steel in HCl solution. <i>Journal of Adhesion Science and Technology</i> , 2022, 36, 567-583.	2.6	5
34	The Role of Carbon Steel Corrosion Process on CaCO ₃ Scaling in Deoxidized Oilfield Injection Water. <i>ChemistrySelect</i> , 2020, 5, 12039-12044.	1.5	2
35	The Effects of Sand Particles on the Synergy of Cavitation Erosion-Corrosion of MIG Welding Stainless Steel Coating in Saline Water. <i>Scanning</i> , 2020, 2020, 1-10.	1.5	2
36	A new method to obtain the repassivation time of passive materials based on the single particle impingement. <i>Corrosion Science</i> , 2020, 170, 108717.	6.6	2

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37	Effect of Impact Angle on the Critical Flow Velocity for Erosionâ€Corrosion of 304 Stainless Steel in Simulated Sand-Containing Sea Water. Journal of Bio- and Tribo-Corrosion, 2021, 7, 1.	2.6	2