

Chaofang Dong

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

1,638
citations

430874

18
h-index

345221

36
g-index

37
all docs

37
docs citations

37
times ranked

1187
citing authors

#	ARTICLE	IF	CITATIONS
1	Materials science: Share corrosion data. <i>Nature</i> , 2015, 527, 441-442.	27.8	557
2	The enhancement of microstructure on the passive and pitting behaviors of selective laser melting 316L SS in simulated body fluid. <i>Applied Surface Science</i> , 2019, 467-468, 193-205.	6.1	152
3	In situ Raman spectroscopy study of corrosion products on the surface of carbon steel in solution containing Cl^{-} and SO_4^{2-} . <i>Engineering Failure Analysis</i> , 2011, 18, 1981-1989.	4.0	116
4	A comparative study of primary and secondary passive films formed on AM355 stainless steel in 0.1 M NaOH. <i>Applied Surface Science</i> , 2018, 427, 763-773.	6.1	96
5	Corrosion Behavior of 316L Stainless Steel Fabricated by Selective Laser Melting Under Different Scanning Speeds. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 3667-3677.	2.5	85
6	Anisotropy in the microstructure and mechanical property for the bulk and porous 316L stainless steel fabricated via selective laser melting. <i>Materials Letters</i> , 2019, 235, 1-5.	2.6	81
7	Influence of the aging time on the microstructure and electrochemical behaviour of a 15-5PH ultra-high strength stainless steel. <i>Corrosion Science</i> , 2018, 139, 185-196.	6.6	65
8	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
9	A DFT study of the adsorption of O ₂ and H ₂ O on Al(111) surfaces. <i>RSC Advances</i> , 2016, 6, 56303-56312.	3.6	37
10	Degradation mechanism of 6063 aluminium matrix composite reinforced with TiC and Al ₂ O ₃ particles. <i>Journal of Alloys and Compounds</i> , 2021, 859, 157838.	5.5	33
11	In Situ Electrochemical Atomic Force Microscopy and Auger Electro Spectroscopy Study on the Passive Film Structure of 2024-T3 Aluminum Alloy Combined with a Density Functional Theory Calculation. <i>Advanced Engineering Materials</i> , 2019, 21, 1900386.	3.5	28
12	Surface failure analysis of a field-exposed copper-clad plate in a marine environment with industrial pollution. <i>Applied Surface Science</i> , 2017, 399, 608-616.	6.1	26
13	Effects of mould on electrochemical migration behaviour of immersion silver finished printed circuit board. <i>Bioelectrochemistry</i> , 2018, 119, 203-210.	4.6	25
14	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
15	Oxygen-induced degradation of the electronic properties of thin-layer InSe. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 2238-2250.	2.8	23
16	Surface failure mechanism of PCB-ENIG in typical outdoor atmospheric environments. <i>Materials Research Bulletin</i> , 2017, 91, 179-188.	5.2	22
17	Integrated computation of corrosion: Modelling, simulation and applications. <i>Corrosion Communications</i> , 2021, 2, 8-23.	6.0	22
18	Effect of Manufacturing Parameters on the Mechanical and Corrosion Behavior of Selective Laser-Melted 15-5PH Stainless Steel. <i>Steel Research International</i> , 2020, 91, 1900447.	1.8	21

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19	The effect of hydrogen on the evolution of intergranular cracking: a cross-scale study using first-principles and cohesive finite element methods. RSC Advances, 2016, 6, 27282-27292.	3.6	19
20	High-throughput computing for screening the potential alloying elements of a 7xxx aluminum alloy for increasing the alloy resistance to stress corrosion cracking. Corrosion Science, 2021, 183, 109304.	6.6	17
21	Effect of iron ion diffusion on the corrosion behavior of carbon steels in soil environment. RSC Advances, 2018, 8, 40544-40553.	3.6	15
22	Hydrothermal synthesis of high surface area CuCrO ₂ for H ₂ production by methanol steam reforming. RSC Advances, 2021, 11, 12607-12613.	3.6	13
23	The Correlation Between the Distribution/Size of Carbides and Electrochemical Behavior of 17Cr-1Ni Ferritic-Martensitic Stainless Steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2019, 50, 388-400.	2.2	11
24	Hydrogen generation by methanol steam reforming process by delafossite-type CuYO ₂ nanopowder catalyst. Microporous and Mesoporous Materials, 2021, 324, 111305.	4.4	11
25	Initial Corrosion Behavior and Mechanism of PCBâ€‘HASL in Typical Outdoor Environments in China. Journal of Electronic Materials, 2015, 44, 4405-4417.	2.2	10
26	Initial corrosion behavior of a copper-clad plate in typical outdoor atmospheric environments. Electronic Materials Letters, 2016, 12, 163-170.	2.2	9
27	Role of mold in electrochemical migration of copper-clad laminate and electroless nickel/immersion gold printed circuit boards. Materials Letters, 2018, 210, 283-286.	2.6	9
28	Effect of static magnetic field on mold corrosion of printed circuit boards. Bioelectrochemistry, 2020, 131, 107394.	4.6	9
29	Growth mechanism of micro-arc oxidation film on 6061 aluminum alloy. Materials Research Express, 2019, 6, 066404.	1.6	7
30	First-principles study of the surface reparation of ultrathin InSe with Se-atom vacancies by thiol chemistry. Applied Surface Science, 2019, 475, 487-493.	6.1	6
31	Localized electrochemical impedance spectroscopy study on the corrosion behavior of Fe-Cr alloy in the solution with Cl ⁻ and SO ₄ ²⁻ . Journal Wuhan University of Technology, Materials Science Edition, 2012, 27, 27-32.	1.0	5
32	The influence of <i>Bacillus subtilis</i> on tin-coated copper in an aqueous environment. RSC Advances, 2018, 8, 4671-4679.	3.6	5
33	Co-enhancing the Mechanical Property and Corrosion Resistance of Selective Laser Melted High-Strength Stainless Steel via Cryogenic Treatment. Journal of Materials Engineering and Performance, 2020, 29, 7052-7062.	2.5	5
34	Unexpected Stress Corrosion Cracking Improvement Achieved by Recrystallized Layer in Al-Zn-Mg Alloy. Journal of Materials Engineering and Performance, 2021, 30, 6258-6268.	2.5	5
35	Image Deep Learning Assisted Prediction of Mechanical and Corrosion Behavior for Al-Zn-Mg Alloys. IEEE Access, 2022, 10, 35620-35631.	4.2	4
36	Microbiologically Influenced Corrosion of AA 6061 with Bacillus Species in an Environment Containing an Organic Nitrogen Source. Journal of Materials Engineering and Performance, 2022, 31, 1870-1880.	2.5	1

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37	Electrochemical migration behavior of moldy printed circuit boards in a 10 mT magnetic field. RSC Advances, 2021, 11, 28178-28188.	3.6	0