Chaofang Dong

List of Publications by Year
in descending order

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37	1,638	430874	345221
papers	citations	18 h-index	36 g-index

37	37	37	1187
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	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
2	Image Deep Learning Assisted Prediction of Mechanical and Corrosion Behavior for Al-Zn-Mg Alloys. IEEE Access, 2022, 10, 35620-35631.	4.2	4
3	Degradation mechanism of 6063 aluminium matrix composite reinforced with TiC and Al2O3 particles. Journal of Alloys and Compounds, 2021, 859, 157838.	5.5	33
4	Electrochemical migration behavior of moldy printed circuit boards in a 10 mT magnetic field. RSC Advances, 2021, 11, 28178-28188.	3.6	0
5	Hydrothermal synthesis of high surface area CuCrO₂ for H₂ production by methanol steam reforming. RSC Advances, 2021, 11, 12607-12613.	3.6	13
6	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
7	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
8	Integrated computation of corrosion: Modelling, simulation and applications. Corrosion Communications, 2021, 2, 8-23.	6.0	22
9	Hydrogen generation by methanol steam reforming process by delafossite-type CuYO2 nanopowder catalyst. Microporous and Mesoporous Materials, 2021, 324, 111305.	4.4	11
10	Effect of static magnetic field on mold corrosion of printed circuit boards. Bioelectrochemistry, 2020, 131, 107394.	4.6	9
11	Effect of Manufacturing Parameters on the Mechanical and Corrosion Behavior of Selective Laserâ€Melted 15â€5PH Stainless Steel. Steel Research International, 2020, 91, 1900447.	1.8	21
12	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
13	In Situ Electrochemical Atomic Force Microscopy and Auger Electro Spectroscopy Study on the Passive Film Structure of 2024â€T3 Aluminum Alloy Combined with a Density Functional Theory Calculation. Advanced Engineering Materials, 2019, 21, 1900386.	3.5	28
14	Plasma-modified C-doped Co₃O₄ nanosheets for the oxygen evolution reaction designed by Butlerâ€“Volmer and first-principle calculations. Journal of Materials Chemistry A, 2019, 7, 4581-4595.	10.3	24
15	The effect of É³-Ni3Ti precipitates and reversed austenite on the passive film stability of nickel-rich Custom 465 steel. Corrosion Science, 2019, 154, 178-190.	6.6	64
16	Growth mechanism of micro-arc oxidation film on 6061 aluminum alloy. Materials Research Express, 2019, 6, 066404.	1.6	7
17	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
18	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

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19	The enhancement of microstructure on the passive and pitting behaviors of selective laser melting 316L SS in simulated body fluid. Applied Surface Science, 2019, 467-468, 193-205.	6.1	152
20	Anisotropy in the microstructure and mechanical property for the bulk and porous 316L stainless steel fabricated via selective laser melting. Materials Letters, 2019, 235, 1-5.	2.6	81
21	The influence of Bacillus subtilis on tin-coated copper in an aqueous environment. RSC Advances, 2018, 8, 4671-4679.	3.6	5
22	Oxygen-induced degradation of the electronic properties of thin-layer InSe. Physical Chemistry Chemical Physics, 2018, 20, 2238-2250.	2.8	23
23	Effects of mould on electrochemical migration behaviour of immersion silver finished printed circuit board. Bioelectrochemistry, 2018, 119, 203-210.	4.6	25
24	A comparative study of primary and secondary passive films formed on AM355 stainless steel in 0.1 M NaOH. Applied Surface Science, 2018, 427, 763-773.	6.1	96
25	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
26	Effect of iron ion diffusion on the corrosion behavior of carbon steels in soil environment. RSC Advances, 2018, 8, 40544-40553.	3.6	15
27	Influence of the aging time on the microstructure and electrochemical behaviour of a 15-5PH ultra-high strength stainless steel. Corrosion Science, 2018, 139, 185-196.	6.6	65
28	Corrosion Behavior of 316L Stainless Steel Fabricated by Selective Laser Melting Under Different Scanning Speeds. Journal of Materials Engineering and Performance, 2018, 27, 3667-3677.	2.5	85
29	Surface failure mechanism of PCB-ENIG in typical outdoor atmospheric environments. Materials Research Bulletin, 2017, 91, 179-188.	5.2	22
30	Surface failure analysis of a field-exposed copper-clad plate in a marine environment with industrial pollution. Applied Surface Science, 2017, 399, 608-616.	6.1	26
31	Initial corrosion behavior of a copper-clad plate in typical outdoor atmospheric environments. Electronic Materials Letters, 2016, 12, 163-170.	2.2	9
32	A DFT study of the adsorption of O₂ and H₂O on Al(111) surfaces. RSC Advances, 2016, 6, 56303-56312.	3.6	37
33	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
34	Materials science: Share corrosion data. Nature, 2015, 527, 441-442.	27.8	557
35	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
36	Localized electrochemical impedance spectroscopy study on the corrosion behavior of Fe-Cr alloy in the solution with Clâ¯ and SO4 2â¯. Journal Wuhan University of Technology, Materials Science Edition, 2012, 27, 27-32.	1.0	5

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37	In situ Raman spectroscopy study of corrosion products on the surface of carbon steel in solution containing Clâ¯ and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msubsup><mml:mrow><mml:mtext>SO</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</m Engineering Failure Analysis, 2011, 18, 1981-1989.	4.0	116