

Kui Xiao

List of Publications by Year in descending order

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41
papers

860
citations

567281

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501196

28
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42
all docs

42
docs citations

42
times ranked

566
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric corrosion of field-exposed AZ31 magnesium in a tropical marine environment. Corrosion Science, 2013, 76, 243-256.	6.6	137
2	In situ Raman spectroscopy study of corrosion products on the surface of carbon steel in solution containing Cl^- and SO_4^{2-} . Engineering Failure Analysis, 2011, 18, 1981-1989.	4.0	116
3	Corrosion products and formation mechanism during initial stage of atmospheric corrosion of carbon steel. Journal of Iron and Steel Research International, 2008, 15, 42-48.	2.8	84
4	Electrochemical migration, whisker formation, and corrosion behavior of printed circuit board under wet H ₂ S environment. Electrochimica Acta, 2013, 114, 363-371.	5.2	61
5	Atmospheric corrosion factors of printed circuit boards in a dry-heat desert environment: Salty dust and diurnal temperature difference. Chemical Engineering Journal, 2018, 336, 92-101.	12.7	36
6	The corrosion behavior of PCB-ImAg in industry polluted marine atmosphere environment. Materials and Design, 2017, 115, 404-414.	7.0	29
7	Electrochemical Migration Behavior of Copper-Clad Laminate and Electroless Nickel/Immersion Gold Printed Circuit Boards under Thin Electrolyte Layers. Materials, 2017, 10, 137.	2.9	27
8	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
9	Effects of mould on electrochemical migration behaviour of immersion silver finished printed circuit board. Bioelectrochemistry, 2018, 119, 203-210.	4.6	25
10	Surface analysis of silver-plated circuit boards in a salt-spray environment. Journal of Alloys and Compounds, 2016, 688, 301-312.	5.5	24
11	Atmospheric corrosion behavior of low-alloy steels in a tropical marine environment. Journal of Iron and Steel Research International, 2019, 26, 1315-1328.	2.8	23
12	Surface failure mechanism of PCB-ENIG in typical outdoor atmospheric environments. Materials Research Bulletin, 2017, 91, 179-188.	5.2	22
13	Copper corrosion in hot and dry atmosphere environment in Turpan, China. Transactions of Nonferrous Metals Society of China, 2016, 26, 1721-1728.	4.2	21
14	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
15	Effect of Concentrations of Fe ²⁺ and Fe ³⁺ on the Corrosion Behavior of Carbon Steel in Cl^- and SO_4^{2-} Aqueous Environments. Metals and Materials International, 2021, 27, 2623-2633.	3.4	21
16	In situ investigation of atmospheric corrosion behavior of PCB-ENIG under adsorbed thin electrolyte layer. Transactions of Nonferrous Metals Society of China, 2016, 26, 1146-1154.	4.2	17
17	Effect of iron ion diffusion on the corrosion behavior of carbon steels in soil environment. RSC Advances, 2018, 8, 40544-40553.	3.6	15
18	EFFECT OF MOLD ON CORROSION BEHAVIOR OF PRINTED CIRCUIT BOARD-COPPER AND ENIG FINISHED. Jinshu Xuebao/Acta Metallurgica Sinica, 2012, 48, 687.	0.3	14

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19	Electrochemical migration behavior and mechanism of PCB-ImAg and PCB-HASL under adsorbed thin liquid films. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 2446-2457.	4.2	13
20	Electrochemical migration failure mechanism and dendrite composition characteristics of Sn96.5Ag3.0Cu0.5 alloy in thin electrolyte films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 6575-6582.	2.2	13
21	Initial Corrosion Behavior and Mechanism of PCB HASL in Typical Outdoor Environments in China. <i>Journal of Electronic Materials</i> , 2015, 44, 4405-4417.	2.2	10
22	Corrosion Behavior of Silver-Plated Circuit Boards in a Simulated Marine Environment with Industrial Pollution. <i>Materials</i> , 2017, 10, 762.	2.9	10
23	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
24	Initial corrosion behavior of a copper-clad plate in typical outdoor atmospheric environments. <i>Electronic Materials Letters</i> , 2016, 12, 163-170.	2.2	9
25	Role of mold in electrochemical migration of copper-clad laminate and electroless nickel/immersion gold printed circuit boards. <i>Materials Letters</i> , 2018, 210, 283-286.	2.6	9
26	Effect of static magnetic field on mold corrosion of printed circuit boards. <i>Bioelectrochemistry</i> , 2020, 131, 107394.	4.6	9
27	Influence of atmospheric particulates on initial corrosion behavior of printed circuit board in pollution environments. <i>Applied Surface Science</i> , 2019, 467-468, 889-901.	6.1	8
28	Microporous corrosion behavior of gold-plated printed circuit boards in an atmospheric environment with high salinity. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8877-8885.	2.2	6
29	Microstructure and Grain Boundary Corrosion Mechanism of Pearlitic Material. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 483-494.	2.5	6
30	Localized electrochemical impedance spectroscopy study on the corrosion behavior of Fe-Cr alloy in the solution with Cl^- and SO_4^{2-} . <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 27-32.	1.0	5
31	The influence of <i>Bacillus subtilis</i> on tin-coated copper in an aqueous environment. <i>RSC Advances</i> , 2018, 8, 4671-4679.	3.6	5
32	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
33	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
34	A novel extraction method of device parameters for thin-film transistors (TFTs). <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021, 403, 127386.	2.1	5
35	Image Deep Learning Assisted Prediction of Mechanical and Corrosion Behavior for Al-Zn-Mg Alloys. <i>IEEE Access</i> , 2022, 10, 35620-35631.	4.2	4
36	Comparative study on extraction methods of threshold voltage for thin-film transistors. <i>Journal of the Society for Information Display</i> , 2019, 27, 816-821.	2.1	2

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37	The Passivity of Pure Nickel in Alkaline Solution under Different Temperatures: Electrochemical Verification and First-Principles Calculation. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 1737-1747.	2.5	2
38	Correlation between indoor and outdoor corrosion tests for coal train body steel in a coal medium environment. <i>Journal of Iron and Steel Research International</i> , 0, , 1.	2.8	2
39	Microbiologically Influenced Corrosion of AA 6061 with Bacillus Species in an Environment Containing an Organic Nitrogen Source. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 1870-1880.	2.5	1
40	Effect of Fungus, <i>Aspergillus</i> sp. F1-1, on the corrosion behavior of PCB-HASL in humid atmospheric environment. <i>Surface Topography: Metrology and Properties</i> , 2022, 10, 015022.	1.6	1
41	Electrochemical migration behavior of moldy printed circuit boards in a 10 mT magnetic field. <i>RSC Advances</i> , 2021, 11, 28178-28188.	3.6	0