

Yanwen Liu

List of Publications by Year in descending order

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40
papers

1,071
citations

331670

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414414

32
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40
all docs

40
docs citations

40
times ranked

904
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights into Epoxy Network Nanostructural Heterogeneity Using AFM-IR. ACS Applied Materials & Interfaces, 2016, 8, 959-966.	8.0	100
2	The corrosion protection of AA2024-T3 aluminium alloy by leaching of lithium-containing salts from organic coatings. Faraday Discussions, 2015, 180, 511-526.	3.2	81
3	Precipitation in an AA6111 aluminium alloy and cosmetic corrosion. Acta Materialia, 2007, 55, 353-360.	7.9	71
4	Protective Film Formation on AA2024-T3 Aluminum Alloy by Leaching of Lithium Carbonate from an Organic Coating. Journal of the Electrochemical Society, 2016, 163, C45-C53.	2.9	52
5	Influence of pre-treatments in cerium conversion treatment of AA2024-T3 and 7075-T6 alloys. Surface and Coatings Technology, 2008, 202, 3797-3807.	4.8	50
6	Anodic oxidation of Mg-Cu and Mg-Zn alloys. Electrochimica Acta, 2004, 49, 899-904.	5.2	48
7	Anodic film growth on an Al-21at.%Mg alloy. Corrosion Science, 2002, 44, 1133-1142.	6.6	46
8	Enrichment factors for copper in aluminium alloys following chemical and electrochemical surface treatments. Corrosion Science, 2003, 45, 1539-1544.	6.6	45
9	Grain orientation effects on copper enrichment and oxygen generation during anodizing of an Al-1at.%Cu alloy. Corrosion Science, 2003, 45, 789-797.	6.6	43
10	Anodic behaviour of a model second phase: Al-20at.%Mg-20at.%Cu. Corrosion Science, 2006, 48, 1225-1248.	6.6	35
11	Examining the early stages of thermal oxidative degradation in epoxy-amine resins. Polymer Degradation and Stability, 2020, 176, 109147.	5.8	34
12	Sol-gel coatings for corrosion protection of 1050 aluminium alloy. Electrochimica Acta, 2010, 55, 3518-3527.	5.2	33
13	An organic coating pigmented with strontium aluminium polyphosphate for corrosion protection of zinc alloy coated steel. Progress in Organic Coatings, 2017, 102, 29-36.	3.9	32
14	Imaging XPS investigation of the lateral distribution of copper inclusions at the abraded surface of 2024T3 aluminium alloy and adsorption of decyl phosphonic acid. Surface and Interface Analysis, 2002, 33, 697-703.	1.8	31
15	Behaviour of copper during alkaline corrosion of Al-Cu alloys. Corrosion Science, 2008, 50, 1475-1480.	6.6	30
16	Molecularly controlled epoxy network nanostructures. Polymer, 2017, 108, 146-153.	3.8	30
17	Chromate conversion coatings on aluminium-copper alloys. Corrosion Science, 2005, 47, 341-354.	6.6	27
18	Influence of near-surface deformed layers on filiform corrosion of AA3104 aluminium alloy. Surface and Interface Analysis, 2013, 45, 1553-1557.	1.8	27

#	ARTICLE	IF	CITATIONS
19	Controlling the nanostructure of epoxy resins: Reaction selectivity and stoichiometry. <i>Polymer</i> , 2018, 143, 10-18.	3.8	25
20	Chemical environment of copper at the surface of a CuAl2 model alloy: XPS, MEIS and TEM analyses. <i>Surface and Interface Analysis</i> , 2004, 36, 339-346.	1.8	23
21	An investigation of the corrosion inhibitive layers generated from lithium oxalate-containing organic coating on AA2024-T3 aluminium alloy. <i>Surface and Interface Analysis</i> , 2016, 48, 798-803.	1.8	23
22	Chromate conversion coatings on aluminium: influences of alloying. <i>Corrosion Science</i> , 2004, 46, 297-312.	6.6	22
23	Influence of surface pretreatments on the corrosion protection of sol-gel coated AA2024-T3 aluminium alloy. <i>Surface and Interface Analysis</i> , 2013, 45, 1452-1456.	1.8	21
24	Exploring Whether a Buried Nanoscale Interphase Exists within Epoxy-Amine Coatings: Implications for Adhesion, Fracture Toughness, and Corrosion Resistance. <i>ACS Applied Nano Materials</i> , 2019, 2, 2494-2502.	5.0	15
25	Crystallisation and performance characteristics of high-temperature annealed electroless Ni-W-P coatings. <i>Crystal Research and Technology</i> , 2014, 49, 178-189.	1.3	14
26	Ageing effects in the growth of chromate conversion coatings on aluminium. <i>Corrosion Science</i> , 2005, 47, 145-150.	6.6	13
27	Generation of copper nanoparticles during alkaline etching of an Al-30at.%Cu alloy. <i>Corrosion Science</i> , 2006, 48, 1874-1884.	6.6	13
28	Influences of ion migration and electric field on the layered anodic films on Al-Mg alloys. <i>Corrosion Science</i> , 2008, 50, 1391-1396.	6.6	13
29	Influence of nitric acid pre-treatment on Al-Cu alloys. <i>Electrochimica Acta</i> , 2008, 53, 4454-4460.	5.2	12
30	Comparison of the behaviours of chromate and sol-gel coatings on aluminium. <i>Surface and Interface Analysis</i> , 2013, 45, 1446-1451.	1.8	10
31	Multi-modal plasma focused ion beam serial section tomography of an organic paint coating. <i>Ultramicroscopy</i> , 2019, 197, 1-10.	1.9	10
32	Influence of surface treatment on detachment of anodic films from Al-Mg alloys. <i>Corrosion Science</i> , 2001, 43, 2349-2357.	6.6	8
33	Leaching from coatings pigmented with strontium aluminium polyphosphate inhibitor pigment-evidence for a cluster-percolation model. <i>Progress in Organic Coatings</i> , 2019, 137, 105340.	3.9	7
34	Visualisation of conductive filler distributions in polymer composites using voltage and energy contrast imaging in SEM. <i>Polymer</i> , 2013, 54, 330-340.	3.8	6
35	Corrosion inhibition of pure aluminium and AA2014-T6 alloy by strontium chromate at low concentration. <i>Surface and Interface Analysis</i> , 2016, 48, 804-808.	1.8	6
36	Anodic oxidation of InAlAs. <i>Corrosion Science</i> , 2006, 48, 126-136.	6.6	4

#	ARTICLE	IF	CITATIONS
37	The degradation mechanism of a marine coating under service conditions of water ballast tank. Progress in Organic Coatings, 2022, 162, 106588.	3.9	4
38	Behaviour of zinc in electropolished and etched Al-Zn alloys and effect on corrosion potential. Corrosion Science, 2005, 47, 2321-2331.	6.6	3
39	Local oxidation of the buried epoxy-amine/iron oxide interphase. Progress in Organic Coatings, 2021, 160, 106516.	3.9	2
40	Morphology, composition and structure of anodic films on binary Al-Cu alloys. , 2006, , 167-172.		2