## List of Publications by Year in descending order

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EA-HE CAC

#	Article	IF	CITATIONS
1	Effect of rare earth element Ce and La on corrosion behavior of AM60 magnesium alloy. Corrosion Science, 2009, 51, 1334-1343.	6.6	257
2	A study of the corrosion of aluminum alloy 2024-T3 under thin electrolyte layers. Corrosion Science, 2004, 46, 1649-1667.	6.6	185
3	Corrosion behaviour of copper under chloride-containing thin electrolyte layer. Corrosion Science, 2011, 53, 3289-3298.	6.6	167
4	The preparation and corrosion behaviors of MAO coating on AZ91D with rare earth conversion precursor film. Applied Surface Science, 2011, 257, 3804-3811.	6.1	135
5	Study on the anodizing of AZ31 magnesium alloys in alkaline borate solutions. Applied Surface Science, 2007, 253, 3893-3898.	6.1	124
6	Electrocatalytic degradation of 4-chlorophenol on F-doped PbO2 anodes. Electrochimica Acta, 2009, 54, 2595-2602.	5.2	118
7	Corrosion behaviour of AM60 magnesium alloys containing Ce or La under thin electrolyte layers. Part 1: Microstructural characterization and electrochemical behaviour. Corrosion Science, 2010, 52, 627-638.	6.6	108
8	Electrochemical noise analysis of LY12-T3 in EXCO solution by discrete wavelet transform technique. Electrochimica Acta, 2006, 51, 1359-1364.	5.2	92
9	Electrochemical noise study on 2024-T3 Aluminum alloy corrosion in simulated acid rain under cyclic wet–dry condition. Electrochimica Acta, 2006, 51, 4977-4986.	5.2	83
10	Analysis of pitting corrosion behavior of pure Al in sodium chloride solution with the wavelet technique. Journal of Electroanalytical Chemistry, 2005, 578, 143-150.	3.8	81
11	Study on the anodic film formation process of AZ91D magnesium alloy. Electrochimica Acta, 2007, 52, 5325-5333.	5.2	77
12	Electrodeposition and characterization of nano-structured Ni–SiC composite films. Surface and Coatings Technology, 2011, 205, 3448-3454.	4.8	69
13	Electrodeposition of amorphous Ni–P coatings onto Nd–Fe–B permanent magnet substrates. Applied Surface Science, 2006, 253, 2251-2256.	6.1	64
14	Preparation and Electrochemical Performance of Tungstovanadophosphoric Heteropoly Acid and Its Hybrid Materials. Journal of Physical Chemistry C, 2013, 117, 3258-3263.	3.1	64
15	Influence of rare earth element Ce and La addition on corrosion behavior of AZ91 magnesium alloy. Materials and Corrosion - Werkstoffe Und Korrosion, 2009, 60, 795-803.	1.5	62
16	Detection of the Short-Lived Cation Radical Intermediate in the Electrochemical Oxidation of <i>N</i> , <i>N</i> -Dimethylaniline by Scanning Electrochemical Microscopy. Journal of the American Chemical Society, 2014, 136, 18163-18169.	13.7	60
17	The influence of Fâ^' doping on the activity of PbO2 film electrodes in oxygen evolution reaction. Electrochimica Acta, 2007, 52, 7870-7876.	5.2	56
18	A fabrication of iridium oxide film pH micro-sensor on Pt ultramicroelectrode and its application on in-situ pH distribution of 316L stainless steel corrosion at open circuit potential. Sensors and Actuators B: Chemical, 2018, 255, 1974-1982.	7.8	53

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19	Effect of the direct current electric field on the initial corrosion of steel in simulated industrial atmospheric environment. Corrosion Science, 2015, 99, 295-303.	6.6	51
20	Localized Corrosion of Magnesium Alloys in NaCl Solutions Explored by Scanning Electrochemical Microscopy in Feedback Mode. Electrochimica Acta, 2014, 132, 377-388.	5.2	49
21	Plasma electrolytic oxidation of AZ91D magnesium alloy with different additives and its corrosion behavior. Materials and Corrosion - Werkstoffe Und Korrosion, 2007, 58, 696-703.	1.5	48
22	Corrosion behaviour of AM60 magnesium alloys containing Ce or La under thin electrolyte layers. Part 2: Corrosion product and characterization. Corrosion Science, 2010, 52, 639-650.	6.6	48
23	Electrodeposition of high corrosion resistance Cu/Ni–P coating on AZ91D magnesium alloy. Applied Surface Science, 2011, 257, 9213-9220.	6.1	48
24	Electrodeposition and corrosion resistance of Ni–P–TiN composite coating on AZ91D magnesium alloy. Transactions of Nonferrous Metals Society of China, 2016, 26, 2976-2987.	4.2	44
25	Study of pitting corrosion on mild steel during wet–dry cycles by electrochemical noise analysis based on chaos theory. Corrosion Science, 2013, 66, 183-195.	6.6	43
26	Environmental friendly plasma electrolytic oxidation of AM60 magnesium alloy and its corrosion resistance. Transactions of Nonferrous Metals Society of China, 2008, 18, 240-247.	4.2	42
27	In-situ investigation of atmospheric corrosion behavior of bronze under thin electrolyte layers using electrochemical technique. Transactions of Nonferrous Metals Society of China, 2012, 22, 1239-1249.	4.2	38
28	Investigation of microstructure and corrosion behavior of weathering steel in aqueous solution containing different anions for simulating service environments. Corrosion Science, 2020, 170, 108686.	6.6	38
29	Effect of aging treatment on microstructure and corrosion behavior of Al-Zn-Mg aluminum alloy in aqueous solutions with different aggressive ions. Journal of Materials Science and Technology, 2021, 64, 85-98.	10.7	37
30	Separation and kinetic study of iron corrosion in acidic solution via a modified tip generation/substrate collection mode by SECM. Corrosion Science, 2018, 139, 403-409.	6.6	36
31	Exfoliation corrosion of aluminum alloy AA7075 examined by electrochemical impedance spectroscopy. Materials and Corrosion - Werkstoffe Und Korrosion, 2004, 55, 18-23.	1.5	34
32	Influence of electric parameters on MAO of AZ91D magnesium alloy using alternative square-wave power source. Transactions of Nonferrous Metals Society of China, 2011, 21, 307-316.	4.2	33
33	Hot corrosion behavior of electrodeposited SiO2 coating on TiAl alloy. Corrosion Science, 2020, 174, 108827.	6.6	33
34	Formation and transformation of Mg(OH)2 in anodic coating using FTIR mapping. Electrochemistry Communications, 2009, 11, 2245-2248.	4.7	32
35	Novel dual Pt-Pt/IrO ultramicroelectrode for pH imaging using SECM in both potentiometric and amperometric modes. Electrochemistry Communications, 2018, 88, 47-51.	4.7	32
36	Coulombic-enhanced hetero radical pairing interactions. Nature Communications, 2018, 9, 1961.	12.8	30

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37	In situ SECM mapping of pitting corrosion in stainless steel using submicron Pt ultramicroelectrode and quantitative spatial resolution analysis. Corrosion Science, 2018, 143, 221-228.	6.6	29
38	Dimensional analysis applied to pitting corrosion measurements. Electrochimica Acta, 2008, 53, 2688-2698.	5.2	27
39	Recent Advances in Scanning Electrochemical Microscopy for Biological Applications. Materials, 2018, 11, 1389.	2.9	26
40	Accelerating effect of catalase on microbiologically influenced corrosion of 304 stainless steel by the halophilic archaeon Natronorubrum tibetense. Corrosion Science, 2021, 178, 109057.	6.6	26
41	Insight into the triggering effect of (Al, Mg, Ca, Mn)-oxy-sulfide inclusions on localized corrosion of weathering steel. Journal of Materials Science and Technology, 2021, 64, 99-113.	10.7	23
42	Electrodeposition and characterization of nanocrystalline CoNiFe films. Thin Solid Films, 2012, 520, 3553-3557.	1.8	21
43	Corrosion Electrochemical Kinetic Study of Copper in Acidic Solution using Scanning Electrochemical Microscopy. Journal of the Electrochemical Society, 2019, 166, C401-C409.	2.9	21
44	A new hydrothermal blackening technology for Fe3O4 coatings of carbon steel. Applied Surface Science, 2008, 254, 5905-5909.	6.1	20
45	The study of the H2O2 during oxygen reduction process on typically corroding metal surface using tip generation-substrate collection mode of SECM. Corrosion Science, 2020, 164, 108312.	6.6	20
46	Improving hot corrosion resistance of aluminized TiAl alloy by anodization and pre-oxidation. Transactions of Nonferrous Metals Society of China, 2021, 31, 193-206.	4.2	20
47	Corrosion behavior of magnesium and its alloy in NaCl solution. Russian Journal of Electrochemistry, 2007, 43, 837-843.	0.9	19
48	Improved oxidation performance of TiAl alloy by a novel Al–Si composite coating. Surface and Coatings Technology, 2020, 381, 125126.	4.8	19
49	Carboxylate breaks the arene C–H bond <i>via</i> a hydrogen-atom-transfer mechanism in electrochemical cobalt catalysis. Chemical Science, 2020, 11, 5790-5796.	7.4	19
50	The effect of phosphate on MAO of AZ91D magnesium using AC power source. Materials and Corrosion - Werkstoffe Und Korrosion, 2008, 59, 819-824.	1.5	18
51	Oxidation behavior of Ti45Al8.5Nb alloy anodized in NH4F containing solution. Corrosion Science, 2020, 166, 108447.	6.6	17
52	Quasi-simultaneous electrochemical/chemical imaging of local Fe2+ and pH distributions on 316ÂL stainless steel surface. Journal of Electroanalytical Chemistry, 2020, 871, 114107.	3.8	17
53	A new study for healing pitting defects of 316L stainless steel based on microarc technology. Corrosion Science, 2021, 187, 109505.	6.6	17
54	Probing the corrosion mechanism of zinc under direct current electric field. Materials Chemistry and Physics, 2018, 206, 232-242.	4.0	16

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55	Unusual influence of binder composition and phosphoric acid leaching on oxygen mass transport in catalyst layers of high-temperature proton exchange membrane fuel cells. Journal of Power Sources, 2020, 473, 228616.	7.8	16
56	Electrochemical detection of univalent Mg cation: A possible explanation for the negative difference effect during Mg anodic dissolution. Journal of Electroanalytical Chemistry, 2021, 880, 114837.	3.8	16
57	LiF involved interphase layer enabling thousand cycles of LAGP-based solid-state Li metal batteries with 80% capacity retention. Energy Storage Materials, 2022, 48, 145-154.	18.0	16
58	Effect of pretreatments on the hydrogen evolution kinetics of pure titanium using impedance and SECM technologies. Corrosion Science, 2021, 191, 109726.	6.6	15
59	Influence of Direct Current Electric Field on the Formation, Composition and Microstructure of Corrosion Products Formed on the Steel in Simulated Marine Atmospheric Environment. Acta Metallurgica Sinica (English Letters), 2016, 29, 373-381.	2.9	14
60	Nanoscale corrosion investigation of surface nanocrystallized 7150 Al alloy in 3.5Âwt% NaCl solution by using FIB-TEM techniques. Corrosion Science, 2022, 195, 110021.	6.6	14
61	Study of the potential electrochemical noise during corrosion process of aluminum alloys 2024, 7075 and pure aluminum. Materials and Corrosion - Werkstoffe Und Korrosion, 2003, 54, 601-608.	1.5	13
62	Exfoliation corrosion of Al-Li alloy 2090-T6 in EXCO solution: A study of electrochemical noise and electrochemical impedance spectroscopy. Materials and Corrosion - Werkstoffe Und Korrosion, 2006, 57, 484-490.	1.5	11
63	Quantitative analysis of the polarization behavior of iron in an aerated acidic solution using SECM. Electrochemistry Communications, 2018, 93, 143-147.	4.7	11
64	Effect of direct current electric field intensity and electrolyte layer thickness on oxygen reduction in simulated atmospheric environment. Corrosion Science, 2019, 148, 206-212.	6.6	10
65	Oxidation performance and interfacial reaction behavior of glass-ceramic coating on TiAl alloy with electrodeposited SiO2 interlayer. Surface and Coatings Technology, 2021, 422, 127495.	4.8	10
66	Interfacial Adsorption and Electron Properties of Water Molecule/Cluster on Anatase TiO <sub>2</sub> (101) Surface: Raman and DFT Investigation. Langmuir, 2022, 38, 1057-1066.	3.5	10
67	Rapid synthesis of highly oriented hydrophobic silicalite-1 zeolite films on alloy steel at lower temperature for corrosion protection. Chemical Engineering Journal, 2022, 430, 133173.	12.7	9
68	In Situ Studies of Hydrogen Evolution Kinetics on Pure Titanium Surface: The Effects of Pre-Reduction and Dissolved Oxygen. Journal of Physical Chemistry C, 2022, 126, 1828-1844.	3.1	9
69	Syntheses and electrochemical properties of polyoxometalate salts with Dawson structure. Russian Journal of Electrochemistry, 2014, 50, 398-401.	0.9	8
70	Proton onductive membranes based on vanadium substituted heteropoly acids with <scp>K</scp> eggin structure and polymers. Journal of Applied Polymer Science, 2015, 132, .	2.6	8
71	PW9V3/rGO/SPEEK hybrid material: an excellent proton conductor. RSC Advances, 2016, 6, 84689-84693.	3.6	8
72	Solid high-proton conductor tungstovanadozincic acid with transition metal as central atom: Synthesis and conductivity. Functional Materials Letters, 2015, 08, 1550041.	1.2	6

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73	Corrosion Behavior of Weathering Steel Under Thin Electrolyte Layer at Different Relative Humidity. Journal of Materials Engineering and Performance, 2018, 27, 202-218.	2.5	6
74	A bistable [2]catenane switched by hetero-radical pairing interactions. Chemical Communications, 2020, 56, 11887-11890.	4.1	6
75	Interesting phenomena for Al-Zn-Mg aluminum alloy after two years of storage: A comparative study on microstructure, mechanical properties and corrosion behavior of aluminum alloy with different aging treatments. Construction and Building Materials, 2021, 276, 122210.	7.2	6
76	The oxidation performance and interfacial reaction behavior of YSZ-ZrB2 incorporated glass composite coating. Corrosion Science, 2021, 189, 109622.	6.6	6
77	PREPARATION AND ELECTROCHEMICAL PERFORMANCE OF HYBRID MATERIALS CONTAINING HETEROPOLY ACID WITH DAWSON STRUCTURE AND POLYMERS. Functional Materials Letters, 2012, 05, 1250040.	1.2	5
78	Effect of sulphate on the corrosion behavior of bronze under a chlorideâ€containing thin electrolyte layer. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 1412-1421.	1.5	5
79	Influence of chloride ion adsorption on the kinetics and mechanism of Ru(NH3)63+/2+ electrode reactions. Electrochimica Acta, 2019, 324, 134863.	5.2	5
80	Quantitative study of the kinetics of hydrogen evolution reaction on aluminum surface and the influence of chloride ion. International Journal of Hydrogen Energy, 2021, 46, 39665-39674.	7.1	5
81	Temperature-dependent structure of 3.5 wt.% NaCl aqueous solution: Theoretical and Raman investigation. Journal of Molecular Structure, 2022, 1253, 132279.	3.6	5
82	High temperature oxidation performance of the electrodeposited SiO2 coating incorporated with Ni nanoparticle. Corrosion Science, 2022, 205, 110455.	6.6	5
83	Tailoring hydrogen embrittlement resistance of pure Ni by grain boundary engineering. Corrosion Communications, 2022, 6, 48-51.	6.0	5
84	Preparation and Characterization of Nanostructured Ni-TiN Composite Films. Chinese Journal of Chemical Physics, 2010, 23, 347-350.	1.3	4
85	Shot noise analysis on corrosion behavior of zinc alloy (ZnAl4Cu1) under dry-wet cycles. Transactions of Nonferrous Metals Society of China, 2012, 22, 228-240.	4.2	4
86	Oxidation and tribological properties of anodized Ti45Al8.5Nb alloy. Transactions of Nonferrous Metals Society of China, 2021, 31, 3439-3451.	4.2	3
87	Hydrogen permeation in 2205 duplex stainless steel under hydrostatic pressure and simulation by COMSOL. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 838-852.	1.5	2
88	Electrochemical observation of individual collision-blocking events of TX-100 nanomicelles: An accurate and universal approach for the critical micelle concentration determination of surfactants. Analytica Chimica Acta, 2021, 1188, 339179.	5.4	2
89	Magnesium Alloy Corrosion Under Thin Electrolyte Layer Using Electrochemical Impedance Spectroscopy and Polarization Curve. ECS Meeting Abstracts, 2016, , .	0.0	0