

Yedong He

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

1,001
citations

19
h-index

26
g-index

66
ext. papers

1,103
ext. citations

4.6
avg, IF

4.62
L-index

#	Paper	IF	Citations
65	C-Al ₂ O ₃ coatings prepared by cathode plasma electrolytic deposition on TC4 substrate for better high temperature oxidation resistance. <i>Surface and Coatings Technology</i> , 2021 , 405, 126585	4.4	7
64	A new study for healing pitting defects of 316L stainless steel based on microarc technology. <i>Corrosion Science</i> , 2021 , 187, 109505	6.8	5
63	Computational simulation and efficient evaluation on corrosion inhibitors for electrochemical etching on aluminum foil. <i>Corrosion Science</i> , 2021 , 187, 109492	6.8	6
62	Optimization of Initiation Sites of Tunnel Pits on Aluminum Foil Using Self-Ordered Concave Structures. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 021508	3.9	3
61	A novel CeO ₂ /MgAl ₂ O ₄ composite coating for the protection of AZ31 magnesium alloys. <i>Journal of Materials Science</i> , 2020 , 55, 1727-1737	4.3	2
60	Formation and effect of the branched layer during the tunnel etching of aluminum foil. <i>Journal of Materials Science</i> , 2020 , 55, 1246-1255	4.3	10
59	Direct preparation of nanostructured Ni coatings on aluminium alloy 6061 by cathode plasma electrolytic deposition. <i>Surface and Coatings Technology</i> , 2019 , 370, 130-135	4.4	3
58	Effects of temperature on electrochemical dissolution behavior of aluminum foil. <i>SN Applied Sciences</i> , 2019 , 1, 1	1.8	1
57	Enhancing the mechanical and anticorrosion properties of 316L stainless steel via a cathodic plasma electrolytic nitriding treatment with added PEG. <i>Journal of Materials Science and Technology</i> , 2019 , 35, 2630-2637	9.1	11
56	The effects of main salt concentrations and deposition voltages on the structures and properties of cathode plasma electrolytic deposited Cr ₂ O ₃ coatings. <i>Materials Research Express</i> , 2019 , 6, 115918	1.7	
55	The effect of electric conductivity on the structure of ceramic coatings prepared by cathode plasma electrolytic deposition. <i>Materials Chemistry and Physics</i> , 2019 , 224, 36-39	4.4	4
54	Improved distribution of etched tunnels on aluminum foil with silane treatment. <i>Progress in Organic Coatings</i> , 2019 , 127, 151-156	4.8	14
53	Cathode plasma electrolytic deposition of Al ₂ O ₃ coatings doped with SiC particles. <i>Ceramics International</i> , 2019 , 45, 4747-4755	5.1	2
52	Structure analysis and formation mechanism of Ce doped Al ₂ O ₃ coatings prepared by cathode plasma electrolytic deposition. <i>Ceramics International</i> , 2018 , 44, 14465-14470	5.1	5
51	Effects of H ₂ SO ₄ Content on Electrochemical Activation of Etched Tunnels on Aluminum Foil. <i>Corrosion</i> , 2018 , 74, 75-82	1.8	4
50	The fabrication of a CeO ₂ coating via cathode plasma electrolytic deposition for the corrosion resistance of AZ31 magnesium alloy. <i>Ceramics International</i> , 2018 , 44, 19885-19891	5.1	13
49	Improved corrosion resistance of Al ₂ O ₃ ceramic coatings on AZ31 magnesium alloy fabricated through cathode plasma electrolytic deposition combined with surface pore-sealing treatment. <i>Ceramics International</i> , 2018 , 44, 15192-15199	5.1	23

48	Preparation and properties of ceramic coatings by cathode plasma electrolytic deposition on titanium alloy. <i>Surface and Coatings Technology</i> , 2017 , 325, 708-714	4.4	11
47	Synergistic effect of PEG and hydrosol treatments of solution on preparing Al ₂ O ₃ coating by cathode plasma electrolytic deposition. <i>Materials Research Express</i> , 2017 , 4, 036306	1.7	7
46	One-step preparation of hydrogenated ZrO ₂ microspheres by cathode plasma electrolysis. <i>Materials Research Express</i> , 2017 , 4, 076204	1.7	2
45	Surface Microstructure and High Temperature Oxidation Resistance of Thermal Sprayed NiCoCrAlY Bond-Coat Modified by Cathode Plasma Electrolysis. <i>Journal of Materials Science and Technology</i> , 2017 , 33, 1055-1060	9.1	17
44	Oxidation and hot corrosion behavior of Al ₂ O ₃ /YSZ coatings prepared by cathode plasma electrolytic deposition. <i>Corrosion Science</i> , 2016 , 109, 13-21	6.8	27
43	Influence of polyethylene glycol on cathode plasma electrolytic depositing Al ₂ O ₃ anti-oxidation coatings. <i>Ceramics International</i> , 2016 , 42, 8229-8233	5.1	24
42	High temperature oxidation behavior of a novel NiCr binary alloy coating prepared by cathode plasma electrolytic deposition. <i>Surface and Coatings Technology</i> , 2016 , 292, 11-19	4.4	14
41	Thermal barrier coatings with Al ₂ O ₃ /Pt composite bond-coat and La ₂ Zr ₂ O ₇ /Pt top-coat prepared by cathode plasma electrolytic deposition. <i>Surface and Coatings Technology</i> , 2016 , 291, 141-150	4.4	13
40	Direct preparation of La ₂ Zr ₂ O ₇ microspheres by cathode plasma electrolysis. <i>Journal of Colloid and Interface Science</i> , 2016 , 474, 146-50	9.3	15
39	Influence of Pt particles on the porosity of Al ₂ O ₃ coating prepared by cathode plasma electrolytic deposition. <i>Materials Chemistry and Physics</i> , 2016 , 184, 1-4	4.4	8
38	Properties of nanocrystalline Cr coatings prepared by cathode plasma electrolytic deposition from trivalent chromium electrolyte. <i>Surface and Coatings Technology</i> , 2015 , 269, 319-323	4.4	48
37	Microstructure and characterization of a novel cobalt coating prepared by cathode plasma electrolytic deposition. <i>Applied Surface Science</i> , 2015 , 353, 1320-1325	6.7	25
36	The morphology change of Co coatings prepared by cathode plasma electrolytic deposition. <i>Materials Letters</i> , 2015 , 153, 92-95	3.3	12
35	Influence of adding glass beads in cathode region on the kinetics of cathode plasma electrolytic depositing ZrO ₂ coating. <i>Surface and Coatings Technology</i> , 2015 , 279, 92-100	4.4	20
34	Effects of electrodeposited Zn nuclei on tunnel etching behavior of aluminum foil. <i>Corrosion Science</i> , 2015 , 91, 213-219	6.8	19
33	Al ₂ O ₃ /ZrO ₂ /Pt composite coatings prepared by cathode plasma electrolytic deposition on the TiAl alloy. <i>Surface and Coatings Technology</i> , 2015 , 283, 37-43	4.4	26
32	High-temperature oxidation resistance of (Al ₂ O ₃ /Y ₂ O ₃)/(Y ₂ O ₃ -stabilized ZrO ₂) laminated coating on 8NbTiAl alloy prepared by a novel spray pyrolysis. <i>Corrosion Science</i> , 2014 , 80, 19-27	6.8	36
31	Effect of placement of aluminium foil on growth of etch tunnels during DC etching. <i>Corrosion Science</i> , 2014 , 79, 21-28	6.8	17

30	Thermal barrier coating bonded by (Al ₂ O ₃ //ZrO ₂)/(Y ₂ O ₃ -stabilized ZrO ₂) laminated composite coating prepared by two-step cyclic spray pyrolysis. <i>Corrosion Science</i> , 2014 , 80, 37-45	6.8	23
29	Effects of polymer corrosion inhibitor on widening etch tunnels of aluminum foil for capacitor. <i>Corrosion Science</i> , 2014 , 78, 7-12	6.8	27
28	Anodizing of etched aluminum foil coated with modified hydrous oxide film for aluminum electrolytic capacitor. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 128-133	2.1	16
27	Effect of hydration pretreatment on tunnel etching behaviour of aluminium foil. <i>Corrosion Science</i> , 2013 , 70, 180-187	6.8	19
26	Size effect of (Al ₂ O ₃ //ZrO ₂)/YSZ micro-laminated coating on high-temperature oxidation resistance. <i>Applied Surface Science</i> , 2013 , 279, 85-91	6.7	13
25	Influence of Al ₂ O ₃ /YSZ micro-laminated coatings on high temperature oxidation and spallation resistance of MCrAlY alloys. <i>Journal of Physics: Conference Series</i> , 2013 , 419, 012019	0.3	3
24	Thermal barrier coatings with (Al ₂ O ₃ //ZrO ₂)/(Pt or Pt//Au) composite bond coat and 8YSZ top coat on Ni-based superalloy. <i>Applied Surface Science</i> , 2013 , 286, 298-305	6.7	22
23	Effect of a magnetron sputtered (Al ₂ O ₃ //ZrO ₂)/(Pt//Au) laminated coating on hot corrosion resistance of 8Nb//TiAl alloy. <i>Surface and Coatings Technology</i> , 2012 , 206, 2690-2697	4.4	16
22	Ni//multiwalled carbon nanotubes composite coatings prepared by mechanical attrition (MA)-assisted electroless plating. <i>Surface and Coatings Technology</i> , 2012 , 206, 2774-2779	4.4	12
21	Plasma electroplating Ni coating on pure copper sheet—the effects of H ₂ SO ₄ concentration on the microstructure and mechanical properties. <i>Surface and Coatings Technology</i> , 2012 , 206, 4411-4416	4.4	18
20	Superior high-temperature oxidation resistance of a novel (Al ₂ O ₃ //ZrO ₂)/Pt laminated coating. <i>Applied Surface Science</i> , 2012 , 258, 4733-4740	6.7	18
19	High-temperature cyclic oxidation behavior of Al ₂ O ₃ //AG composite coating prepared by EPD and microwave sintering. <i>Applied Surface Science</i> , 2012 , 258, 5739-5745	6.7	21
18	Enhanced high-temperature corrosion resistance of (Al ₂ O ₃ //ZrO ₂)/Pt micro-laminated coatings on 316L stainless steel alloy. <i>Corrosion Science</i> , 2012 , 54, 183-192	6.8	18
17	High-temperature Oxidation Resistance of Al ₂ O ₃ -Au Laminated Composite Coating Prepared on TiAl-based Alloy. <i>High Temperature Materials and Processes</i> , 2012 , 31,	0.9	2
16	Preparation and high-temperature properties of Au nano-particles doped //Al ₂ O ₃ composite coating on TiAl-based alloy. <i>Applied Surface Science</i> , 2011 , 257, 10273-10281	6.7	21
15	Preparation of YSZ/Al ₂ O ₃ micro-laminated coatings and their influence on the oxidation and spallation resistance of MCrAlY alloys. <i>Journal of the European Ceramic Society</i> , 2011 , 31, 79-84	6	27
14	Synthesis of Nanostructured Ni//TiO ₂ Composite Coatings by Sol-Enhanced Electroplating. <i>Journal of the Electrochemical Society</i> , 2010 , 157, E122	3.9	33
13	Fabrication and high temperature oxidation resistance of ZrO ₂ /Al ₂ O ₃ micro-laminated coatings on stainless steel. <i>Materials Chemistry and Physics</i> , 2010 , 123, 731-736	4.4	33

12	Top coating of low-molecular weight polymer MALPB used for enhanced protection on anodized AZ31B Mg alloys 2010 , 7, 737-746		17
11	Sol-enhanced triple-layered Ni-P/TiO ₂ composite coatings. <i>Journal of Sol-Gel Science and Technology</i> , 2010 , 55, 187-190	2.3	14
10	Electrodeposition of sol-enhanced nanostructured Ni-TiO ₂ composite coatings. <i>Surface and Coatings Technology</i> , 2010 , 204, 2487-2492	4.4	63
9	Mechanical assisted electroless barrel-plating Ni-P coatings on magnesium alloy. <i>Acta Metallurgica Sinica (English Letters)</i> , 2009 , 22, 225-232	2.5	9
8	Preparation of environmental friendly coatings based on natural shellac modified by diamine and its applications for copper protection. <i>Progress in Organic Coatings</i> , 2008 , 62, 307-312	4.8	25
7	Growth and passivation of aluminum etch tunnels at on-off controlling direct current in 6 wt.% HCl solution. <i>Rare Metals</i> , 2008 , 27, 205-209	5.5	3
6	Cathodic micro-arc electrodeposition of yttrium stabilized zirconia (YSZ) coatings on FeCrAl alloy. <i>Science Bulletin</i> , 2003 , 48, 746-750		5
5	Cyclic Oxidation and Hot Corrosion Behaviour of Ti-48Al-2Cr with Aluminide Coatings. <i>High Temperature Materials and Processes</i> , 2002 , 21, 25-34	0.9	6
4	Cathodic Micro-Arc Electrodeposition of Thick Ceramic Coatings. <i>Electrochemical and Solid-State Letters</i> , 2002 , 5, C33		12
3	Electrodeposited thin oxide films. <i>Surface and Coatings Technology</i> , 1996 , 79, 19-24	4.4	22
2	Reactive-element effect of electrodeposited Y ₂ O ₃ oxide films on the oxidation of Fe-5Cr and Fe-5Cr-10Al alloys. <i>Oxidation of Metals</i> , 1995 , 43, 217-236	1.6	17
1	Electrophoretic deposition of MCrAlY overlay-type coatings. <i>Oxidation of Metals</i> , 1995 , 43, 353-362	1.6	12