Yedong He

List of Publications by Citations

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	Electrodeposition of sol-enhanced nanostructured Ni-TiO2 composite coatings. *Surface and Coatings Technology*, **2010**, 204, 2487-2492	4.4	63
64	Properties of nanocrystalline Cr coatings prepared by cathode plasma electrolytic deposition from trivalent chromium electrolyte. *Surface and Coatings Technology*, **2015**, 269, 319-323	4.4	48
63	High-temperature oxidation resistance of (Al2O3–Y2O3)/(Y2O3-stabilized ZrO2) laminated coating on 8Nb–TiAl alloy prepared by a novel spray pyrolysis. *Corrosion Science*, **2014**, 80, 19-27	6.8	36
62	Synthesis of Nanostructured Ni–TiO[sub 2] Composite Coatings by Sol-Enhanced Electroplating. *Journal of the Electrochemical Society*, **2010**, 157, E122	3.9	33
61	Fabrication and high temperature oxidation resistance of ZrO2/Al2O3 micro-laminated coatings on stainless steel. *Materials Chemistry and Physics*, **2010**, 123, 731-736	4.4	33
60	Oxidation and hot corrosion behavior of Al 2 O 3 /YSZ coatings prepared by cathode plasma electrolytic deposition. *Corrosion Science*, **2016**, 109, 13-21	6.8	27
59	Effects of polymer corrosion inhibitor on widening etch tunnels of aluminum foil for capacitor. *Corrosion Science*, **2014**, 78, 7-12	6.8	27
58	Preparation of YSZ/Al2O3 micro-laminated coatings and their influence on the oxidation and spallation resistance of MCrAlY alloys. *Journal of the European Ceramic Society*, **2011**, 31, 79-84	6	27
57	Al2O3–ZrO2–Pt composite coatings prepared by cathode plasma electrolytic deposition on the TiAl alloy. *Surface and Coatings Technology*, **2015**, 283, 37-43	4.4	26
56	Microstructure and characterization of a novel cobalt coating prepared by cathode plasma electrolytic deposition. *Applied Surface Science*, **2015**, 353, 1320-1325	6.7	25
55	Preparation of environmental friendly coatings based on natural shellac modified by diamine and its applications for copper protection. *Progress in Organic Coatings*, **2008**, 62, 307-312	4.8	25
54	Influence of polyethylene glycol on cathode plasma electrolytic depositing Al2O3 anti-oxidation coatings. *Ceramics International*, **2016**, 42, 8229-8233	5.1	24
53	Thermal barrier coating bonded by (Al2O3–Y2O3)/(Y2O3-stabilized ZrO2) laminated composite coating prepared by two-step cyclic spray pyrolysis. *Corrosion Science*, **2014**, 80, 37-45	6.8	23
52	Improved corrosion resistance of Al2O3 ceramic coatings on AZ31 magnesium alloy fabricated through cathode plasma electrolytic deposition combined with surface pore-sealing treatment. *Ceramics International*, **2018**, 44, 15192-15199	5.1	23
51	Thermal barrier coatings with (Al2O3–Y2O3)/(Pt or Pt–Au) composite bond coat and 8YSZ top coat on Ni-based superalloy. *Applied Surface Science*, **2013**, 286, 298-305	6.7	22
50	Electrodeposited thin oxide films. *Surface and Coatings Technology*, **1996**, 79, 19-24	4.4	22
49	High-temperature cyclic oxidation behavior of Al2O3–YAG composite coating prepared by EPD and microwave sintering. *Applied Surface Science*, **2012**, 258, 5739-5745	6.7	21

48	Preparation and high-temperature properties of Au nano-particles doped Al2O3 composite coating on TiAl-based alloy. *Applied Surface Science*, **2011**, 257, 10273-10281	6.7	21
47	Influence of adding glass beads in cathode region on the kinetics of cathode plasma electrolytic depositing ZrO2 coating. *Surface and Coatings Technology*, **2015**, 279, 92-100	4.4	20
46	Effects of electrodeposited Zn nuclei on tunnel etching behavior of aluminum foil. *Corrosion Science*, **2015**, 91, 213-219	6.8	19
45	Effect of hydration pretreatment on tunnel etching behaviour of aluminium foil. *Corrosion Science*, **2013**, 70, 180-187	6.8	19
44	Plasma electroplating Ni coating on pure copper sheet: the effects of H2SO4 concentration on the microstructure and mechanical properties. *Surface and Coatings Technology*, **2012**, 206, 4411-4416	4.4	18
43	Superior high-temperature oxidation resistance of a novel (Al2O3/Y2O3)/Pt laminated coating. *Applied Surface Science*, **2012**, 258, 4733-4740	6.7	18
42	Enhanced high-temperature corrosion resistance of (Al2O3/Y2O3)/Pt micro-laminated coatings on 316L stainless steel alloy. *Corrosion Science*, **2012**, 54, 183-192	6.8	18
41	Effect of placement of aluminium foil on growth of etch tunnels during DC etching. *Corrosion Science*, **2014**, 79, 21-28	6.8	17
40	Surface Microstructure and High Temperature Oxidation Resistance of Thermal Sprayed NiCoCrAlY Bond-Coat Modified by Cathode Plasma Electrolysis. *Journal of Materials Science and Technology*, **2017**, 33, 1055-1060	9.1	17
39	Top coating of low-molecular weight polymer MALPB used for enhanced protection on anodized AZ31B Mg alloys **2010**, 7, 737-746		17
38	Reactive-element effect of electrodeposited Y2O3 oxide films on the oxidation of Fe25Cr and Fe25Cr10Al alloys. *Oxidation of Metals*, **1995**, 43, 217-236	1.6	17
37	Effect of a magnetron sputtered (Al2O3/Y2O3)/(Pt/Au) laminated coating on hot corrosion resistance of 8Nb-TiAl alloy. *Surface and Coatings Technology*, **2012**, 206, 2690-2697	4.4	16
36	Anodizing of etched aluminum foil coated with modified hydrous oxide film for aluminum electrolytic capacitor. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 128-133	2.1	16
35	Direct preparation of La2Zr2O7 microspheres by cathode plasma electrolysis. *Journal of Colloid and Interface Science*, **2016**, 474, 146-50	9.3	15
34	Sol-enhanced triple-layered Ni-PTFE-TiO2 composite coatings. *Journal of Sol-Gel Science and Technology*, **2010**, 55, 187-190	2.3	14
33	High temperature oxidation behavior of a novel Ni-Cr binary alloy coating prepared by cathode plasma electrolytic deposition. *Surface and Coatings Technology*, **2016**, 292, 11-19	4.4	14
32	Improved distribution of etched tunnels on aluminum foil with silane treatment. *Progress in Organic Coatings*, **2019**, 127, 151-156	4.8	14
31	The fabrication of a CeO2 coating via cathode plasma electrolytic deposition for the corrosion resistance of AZ31 magnesium alloy. *Ceramics International*, **2018**, 44, 19885-19891	5.1	13

30	Size effect of (Al2O3/Y2O3)/YSZ micro-laminated coating on high-temperature oxidation resistance. *Applied Surface Science*, **2013**, 279, 85-91	6.7	13
29	Thermal barrier coatings with Al2O3–Pt composite bond-coat and La2Zr2O7–Pt top-coat prepared by cathode plasma electrolytic deposition. *Surface and Coatings Technology*, **2016**, 291, 141-150	4.4	13
28	The morphology change of Co coatings prepared by cathode plasma electrolytic deposition. *Materials Letters*, **2015**, 153, 92-95	3.3	12
27	Ni–P-multiwalled carbon nanotubes composite coatings prepared by mechanical attrition (MA)-assisted electroless plating. *Surface and Coatings Technology*, **2012**, 206, 2774-2779	4.4	12
26	Cathodic Micro-Arc Electrodeposition of Thick Ceramic Coatings. *Electrochemical and Solid-State Letters*, **2002**, 5, C33		12
25	Electrophoretic deposition of MCrAlY overlay-type coatings. *Oxidation of Metals*, **1995**, 43, 353-362	1.6	12
24	Preparation and properties of ceramic coatings by cathode plasma electrolytic deposition on titanium alloy. *Surface and Coatings Technology*, **2017**, 325, 708-714	4.4	11
23	Enhancing the mechanical and anticorrosion properties of 316L stainless steel via a cathodic plasma electrolytic nitriding treatment with added PEG. *Journal of Materials Science and Technology*, **2019**, 35, 2630-2637	9.1	11
22	Formation and effect of the branched layer during the tunnel etching of aluminum foil. *Journal of Materials Science*, **2020**, 55, 1246-1255	4.3	10
21	Mechanical assisted electroless barrel-plating Ni-P coatings on magnesium alloy. *Acta Metallurgica Sinica (English Letters)*, **2009**, 22, 225-232	2.5	9
20	Influence of Pt particles on the porosity of Al2O3 coating prepared by cathode plasma electrolytic deposition. *Materials Chemistry and Physics*, **2016**, 184, 1-4	4.4	8
19	Synergistic effect of PEG and hydrosol treatments of solution on preparing Al2O3coating by cathode plasma electrolytic deposition. *Materials Research Express*, **2017**, 4, 036306	1.7	7
18	C-Al2O3 coatings prepared by cathode plasma electrolytic deposition on TC4 substrate for better high temperature oxidation resistance. *Surface and Coatings Technology*, **2021**, 405, 126585	4.4	7
17	Cyclic Oxidation and Hot Corrosion Behaviour of Ti-48Al-2Cr with Aluminide Coatings. *High Temperature Materials and Processes*, **2002**, 21, 25-34	0.9	6
16	Computational simulation and efficient evaluation on corrosion inhibitors for electrochemical etching on aluminum foil. *Corrosion Science*, **2021**, 187, 109492	6.8	6
15	Structure analysis and formation mechanism of Ce doped Al2O3 coatings prepared by cathode plasma electrolytic deposition. *Ceramics International*, **2018**, 44, 14465-14470	5.1	5
14	Cathodic micro-arc electrodeposition of yttrium stabilized zirconia (YSZ) coatings on FeCrAl alloy. *Science Bulletin*, **2003**, 48, 746-750		5
13	A new study for healing pitting defects of 316L stainless steel based on microarc technology. *Corrosion Science*, **2021**, 187, 109505	6.8	5

12	Effects of H2SO4 Content on Electrochemical Activation of Etched Tunnels on Aluminum Foil. *Corrosion*, **2018**, 74, 75-82	1.8	4
11	The effect of electric conductivity on the structure of ceramic coatings prepared by cathode plasma electrolytic deposition. *Materials Chemistry and Physics*, **2019**, 224, 36-39	4.4	4
10	Direct preparation of nanostructured Ni coatings on aluminium alloy 6061 by cathode plasma electrolytic deposition. *Surface and Coatings Technology*, **2019**, 370, 130-135	4.4	3
9	Influence of Al2O3/YSZ micro-laminated coatings on high temperature oxidation and spallation resistance of MCrAlY alloys. *Journal of Physics: Conference Series*, **2013**, 419, 012019	0.3	3
8	Growth and passivation of aluminum etch tunnels at on-off controlling direct current in 6 wt.% HCl solution. *Rare Metals*, **2008**, 27, 205-209	5.5	3
7	Optimization of Initiation Sites of Tunnel Pits on Aluminum Foil Using Self-Ordered Concave Structures. *Journal of the Electrochemical Society*, **2020**, 167, 021508	3.9	3
6	One-step preparation of hydrogenated ZrO2microspheres by cathode plasma electrolysis. *Materials Research Express*, **2017**, 4, 076204	1.7	2
5	High-temperature Oxidation Resistance of Al2O3-Au Laminated Composite Coating Prepared on TiAl-based Alloy. *High Temperature Materials and Processes*, **2012**, 31,	0.9	2
4	Cathode plasma electrolytic deposition of Al2O3 coatings doped with SiC particles. *Ceramics International*, **2019**, 45, 4747-4755	5.1	2
3	A novel CeO2/MgAl2O4 composite coating for the protection of AZ31 magnesium alloys. *Journal of Materials Science*, **2020**, 55, 1727-1737	4.3	2
2	Effects of temperature on electrochemical dissolution behavior of aluminum foil. *SN Applied Sciences*, **2019**, 1, 1	1.8	1
1	The effects of main salt concentrations and deposition voltages on the structures and properties of cathode plasma electrolytic deposited Cr2O3 coatings. *Materials Research Express*, **2019**, 6, 115918	1.7	