

Ying-liang Cheng

List of Publications by Year in descending order

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papers

1,944
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218592

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1089
citing authors

#	ARTICLE	IF	CITATIONS
1	New findings on properties of plasma electrolytic oxidation coatings from study of an Al-Cu-Li alloy. <i>Electrochimica Acta</i> , 2013, 107, 358-378.	2.6	170
2	Comparison of corrosion behaviors of AZ31, AZ91, AM60 and ZK60 magnesium alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2009, 19, 517-524.	1.7	155
3	Microstructure, corrosion and wear performance of plasma electrolytic oxidation coatings formed on Ti-6Al-4V alloy in silicate-hexametaphosphate electrolyte. <i>Surface and Coatings Technology</i> , 2013, 217, 129-139.	2.2	95
4	An improvement of the wear and corrosion resistances of AZ31 magnesium alloy by plasma electrolytic oxidation in a silicate-hexametaphosphate electrolyte with the suspension of SiC nanoparticles. <i>Surface and Coatings Technology</i> , 2015, 276, 266-278.	2.2	94
5	The effects of anion deposition and negative pulse on the behaviours of plasma electrolytic oxidation (PEO)-A systematic study of the PEO of a Zirlo alloy in aluminate electrolytes. <i>Electrochimica Acta</i> , 2017, 225, 47-68.	2.6	94
6	The influences of microdischarge types and silicate on the morphologies and phase compositions of plasma electrolytic oxidation coatings on Zircaloy-2. <i>Corrosion Science</i> , 2012, 59, 307-315.	3.0	92
7	The anodization of ZK60 magnesium alloy in alkaline solution containing silicate and the corrosion properties of the anodized films. <i>Applied Surface Science</i> , 2007, 253, 9387-9394.	3.1	82
8	High growth rate, wear resistant coatings on an Al-Cu-Li alloy by plasma electrolytic oxidation in concentrated aluminate electrolytes. <i>Surface and Coatings Technology</i> , 2015, 269, 74-82.	2.2	74
9	Comparison of plasma electrolytic oxidation of zirconium alloy in silicate- and aluminate-based electrolytes and wear properties of the resulting coatings. <i>Electrochimica Acta</i> , 2012, 85, 25-32.	2.6	67
10	Wear-resistant coatings formed on Zircaloy-2 by plasma electrolytic oxidation in sodium aluminate electrolytes. <i>Electrochimica Acta</i> , 2014, 116, 453-466.	2.6	67
11	A comparison of plasma electrolytic oxidation of Ti-6Al-4V and Zircaloy-2 alloys in a silicate-hexametaphosphate electrolyte. <i>Electrochimica Acta</i> , 2015, 165, 301-313.	2.6	67
12	Wear and corrosion resistant coatings on surface of cast A356 aluminum alloy by plasma electrolytic oxidation in moderately concentrated aluminate electrolytes. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 336-351.	1.7	66
13	The black and white coatings on Ti-6Al-4V alloy or pure titanium by plasma electrolytic oxidation in concentrated silicate electrolyte. <i>Applied Surface Science</i> , 2018, 428, 684-697.	3.1	66
14	Key factors determining the development of two morphologies of plasma electrolytic coatings on an Al-Cu-Li alloy in aluminate electrolytes. <i>Surface and Coatings Technology</i> , 2016, 291, 239-249.	2.2	65
15	Characterization of plasma electrolytic oxidation coatings on Zircaloy-4 formed in different electrolytes with AC current regime. <i>Electrochimica Acta</i> , 2011, 56, 8467-8476.	2.6	64
16	Plasma electrolytic oxidation of an Al-Cu-Li alloy in alkaline aluminate electrolytes: A competition between growth and dissolution for the initial ultra-thin films. <i>Electrochimica Acta</i> , 2014, 138, 417-429.	2.6	61
17	Plasma electrolytic oxidation of AZ31 magnesium alloy in aluminate-tungstate electrolytes and the coating formation mechanism. <i>Journal of Alloys and Compounds</i> , 2017, 725, 199-216.	2.8	61
18	Phosphating process of AZ31 magnesium alloy and corrosion resistance of coatings. <i>Transactions of Nonferrous Metals Society of China</i> , 2006, 16, 1086-1091.	1.7	39

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19	A re-understanding of the breakdown theory from the study of the plasma electrolytic oxidation of a carbon steel "A non-valve metal. <i>Electrochimica Acta</i> , 2018, 284, 681-695.	2.6	39
20	Dual-Carbon Electrode-Based High-Energy-Density Potassium-Ion Hybrid Capacitor. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 8497-8506.	4.0	39
21	The formation of metallic W and amorphous phase in the plasma electrolytic oxidation coatings on an Al alloy from tungstate-containing electrolyte. <i>Surface and Coatings Technology</i> , 2019, 361, 176-187.	2.2	38
22	Plasma electrolytic oxidation of brass. <i>Surface and Coatings Technology</i> , 2020, 385, 125366.	2.2	34
23	A study on the electrocodeposition processes and properties of Ni@SiC nanocomposite coatings. <i>Journal of Coatings Technology Research</i> , 2011, 8, 409-417.	1.2	33
24	A significant improvement of the wear resistance of Ti6Al4V alloy by a combined method of magnetron sputtering and plasma electrolytic oxidation (PEO). <i>Surface and Coatings Technology</i> , 2019, 358, 879-890.	2.2	32
25	Effect of frequency on black coating formation on AZ31 magnesium alloy by plasma electrolytic oxidation in aluminate-tungstate electrolyte. <i>Surface and Coatings Technology</i> , 2019, 372, 34-44.	2.2	31
26	Potential and morphological transitions during bipolar plasma electrolytic oxidation of tantalum in silicate electrolyte. <i>Ceramics International</i> , 2020, 46, 13385-13396.	2.3	29
27	Anodization of AZ91 magnesium alloy in alkaline solution containing silicate and corrosion properties of anodized films. <i>Transactions of Nonferrous Metals Society of China</i> , 2008, 18, 722-727.	1.7	23
28	Plasma electrolytic oxidation of zircaloy-4 alloy with DC regime and properties of coatings. <i>Transactions of Nonferrous Metals Society of China</i> , 2012, 22, 1638-1646.	1.7	23
29	The synthesis of micro and nano WO ₃ powders under the sparks of plasma electrolytic oxidation of Al in a tungstate electrolyte. <i>Ceramics International</i> , 2018, 44, 10402-10411.	2.3	21
30	One-step fabrication of double-layer nanocomposite coating by plasma electrolytic oxidation with particle addition. <i>Applied Surface Science</i> , 2022, 592, 153043.	3.1	19
31	Amorphous coatings on tantalum formed by plasma electrolytic oxidation in aluminate electrolyte and high temperature crystallization treatment. <i>Surface and Coatings Technology</i> , 2022, 434, 128171.	2.2	18
32	Corrosion and wear resistance of AZ31 Mg alloy treated by duplex process of magnetron sputtering and plasma electrolytic oxidation. <i>Transactions of Nonferrous Metals Society of China</i> , 2021, 31, 2287-2306.	1.7	16
33	Plasma electrolytic oxidation of copper in an aluminate based electrolyte with the respective additives of Na ₃ PO ₄ , NaH ₂ PO ₄ and NaH ₂ PO ₂ . <i>Applied Surface Science</i> , 2021, 565, 150477.	3.1	16
34	Fast-Charging Nonaqueous Potassium-Ion Batteries Enabled by Rational Construction of Oxygen-Rich Porous Nanofiber Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 50005-50016.	4.0	15
35	Microstructure evolution and corrosion resistance improvement of Mg@Gd@Y@Zn@Zr alloys via surface hydrogen treatment. <i>Corrosion Science</i> , 2021, 191, 109746.	3.0	12
36	Effect of electrodeposition temperature on the thin films of ZnO nanoparticles used for photocathodic protection of SS304. <i>Journal of Electroanalytical Chemistry</i> , 2021, 881, 114945.	1.9	8

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37	Effect of NaOH on plasma electrolytic oxidation of A356 aluminium alloy in moderately concentrated aluminate electrolyte. Transactions of Nonferrous Metals Society of China, 2021, 31, 3677-3690.	1.7	8
38	An in-depth study of photocathodic protection of SS304 steel by electrodeposited layers of ZnO nanoparticles. Surface and Coatings Technology, 2020, 399, 126158.	2.2	7
39	Highly increased breakdown potential of anodic films on aluminum using a sealed porous layer. Journal of Solid State Electrochemistry, 2018, 22, 2073-2081.	1.2	4