

# Wenbin Xue

## List of Publications by Year in descending order

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Version: 2024-02-01

81  
papers

2,325  
citations

236925

25  
h-index

233421

45  
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81  
all docs

81  
docs citations

81  
times ranked

1210  
citing authors

#	ARTICLE	IF	CITATIONS
1	Growth regularity of ceramic coatings formed by microarc oxidation on Al-Cu-Mg alloy. <i>Thin Solid Films</i> , 2000, 372, 114-117.	1.8	240
2	Analysis of Phase Distribution for Ceramic Coatings Formed by Microarc Oxidation on Aluminum Alloy. <i>Journal of the American Ceramic Society</i> , 1998, 81, 1365-1368.	3.8	210
3	Structure and properties characterization of ceramic coatings produced on Ti-6Al-4V alloy by microarc oxidation in aluminate solution. <i>Materials Letters</i> , 2002, 52, 435-441.	2.6	164
4	Characterization of ceramic coatings fabricated on zirconium alloy by plasma electrolytic oxidation in silicate electrolyte. <i>Materials Chemistry and Physics</i> , 2010, 120, 656-660.	4.0	91
5	Preparation of anti-corrosion films by microarc oxidation on an Al-Si alloy. <i>Applied Surface Science</i> , 2007, 253, 6118-6124.	6.1	86
6	Anti-corrosion film on 2024/SiC aluminum matrix composite fabricated by microarc oxidation in silicate electrolyte. <i>Journal of Alloys and Compounds</i> , 2006, 425, 302-306.	5.5	65
7	Corrosion behaviors and galvanic studies of microarc oxidation films on Al-Zn-Mg-Cu alloy. <i>Surface and Coatings Technology</i> , 2007, 201, 8695-8701.	4.8	64
8	Discharge behaviors during plasma electrolytic oxidation on aluminum alloy. <i>Materials Chemistry and Physics</i> , 2014, 148, 284-292.	4.0	63
9	Effect of voltage on properties of microarc oxidation films prepared in phosphate electrolyte on Zr-1Nb alloy. <i>Surface and Coatings Technology</i> , 2013, 222, 62-67.	4.8	62
10	Characterization of surface hardened layers on Q235 low-carbon steel treated by plasma electrolytic borocarburing. <i>Journal of Alloys and Compounds</i> , 2013, 578, 162-169.	5.5	60
11	Anti-corrosion microarc oxidation coatings on SiCP/AZ31 magnesium matrix composite. <i>Journal of Alloys and Compounds</i> , 2009, 482, 208-212.	5.5	54
12	Title is missing!. <i>Journal of Materials Science</i> , 2001, 36, 2615-2619.	3.7	49
13	High temperature tribological behaviors of plasma electrolytic borocarbured Q235 low-carbon steel. <i>Surface and Coatings Technology</i> , 2013, 232, 142-149.	4.8	47
14	Characterization of carburized layer on T8 steel fabricated by cathodic plasma electrolysis. <i>Surface and Coatings Technology</i> , 2014, 245, 9-15.	4.8	45
15	Evaluation of the mechanical properties of microarc oxidation coatings and 2024 aluminium alloy substrate. <i>Journal of Physics Condensed Matter</i> , 2002, 14, 10947-10952.	1.8	41
16	Enhancement of high temperature steam oxidation resistance of Zr-1Nb alloy with ZrO <sub>2</sub> /Cr bilayer coating. <i>Corrosion Science</i> , 2021, 187, 109494.	6.6	41
17	Corrosion behavior of friction stir welded AZ31B magnesium alloy with plasma electrolytic oxidation coating formed in silicate electrolyte. <i>Materials Chemistry and Physics</i> , 2014, 144, 462-469.	4.0	37
18	Optical emission spectroscopy of plasma electrolytic oxidation process on 7075 aluminum alloy. <i>Surface and Coatings Technology</i> , 2017, 324, 18-25.	4.8	35

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19	Influence of temperature on tribological properties of microarc oxidation coating on 7075 aluminium alloy at 25â€”300â€”C. <i>Ceramics International</i> , 2019, 45, 12312-12318.	4.8	34
20	High temperature tribological behavior of microarc oxidation film on Ti-39Nb-6Zr alloy. <i>Surface and Coatings Technology</i> , 2018, 347, 29-37.	4.8	32
21	Analyses of hydrogen release on zirlo alloy anode during plasma electrolytic oxidation. <i>Materials Chemistry and Physics</i> , 2020, 251, 123054.	4.0	31
22	Characterization of wear-resistant coatings on 304 stainless steel fabricated by cathodic plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2013, 236, 22-28.	4.8	30
23	Features of film growth during plasma anodizing of Al 2024/SiC metal matrix composite. <i>Applied Surface Science</i> , 2006, 252, 6195-6200.	6.1	29
24	Anti-corrosion layer prepared by plasma electrolytic carbonitriding on pure aluminum. <i>Applied Surface Science</i> , 2015, 347, 673-678.	6.1	28
25	Microbial influenced corrosion behavior of micro-arc oxidation coating on AA2024. <i>Surface and Coatings Technology</i> , 2013, 216, 100-105.	4.8	26
26	Analyses of quenching process during turn-off of plasma electrolytic carburizing on carbon steel. <i>Applied Surface Science</i> , 2014, 316, 102-107.	6.1	25
27	The effect of microarc oxidation and excimer laser processing on the microstructure and corrosion resistance of Zrâ€”1Nb alloy. <i>Journal of Nuclear Materials</i> , 2015, 467, 186-193.	2.7	25
28	Zeta potential of microarc oxidation film on zirlo alloy in different aqueous solutions. <i>Corrosion Science</i> , 2018, 143, 129-135.	6.6	25
29	Analyses of reinforcement phases during plasma electrolytic oxidation on magnesium matrix composites. <i>Surface and Coatings Technology</i> , 2015, 269, 212-219.	4.8	23
30	Tribological Behavior of Microarc Oxidation Coatings on Aluminum Alloy. <i>ISIJ International</i> , 2006, 46, 287-291.	1.4	22
31	Preparation and characterization of diamond-like carbon/oxides composite film on carbon steel by cathodic plasma electrolysis. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	22
32	Combined treatment plasma electrolytic carburizing and borocarburing on Q235 low-carbon steel. <i>Materials Chemistry and Physics</i> , 2019, 221, 232-238.	4.0	21
33	Combination of plasma electrolytic oxidation and pulsed laser deposition for preparation of corrosion-resisting composite film on zirconium alloys. <i>Materials Letters</i> , 2020, 262, 127080.	2.6	21
34	Spectroscopic investigation of plasma electrolytic borocarburing on q235 low-carbon steel. <i>Applied Surface Science</i> , 2014, 321, 348-352.	6.1	20
35	Investigation of anodic plasma electrolytic carbonitriding on medium carbon steel. <i>Surface and Coatings Technology</i> , 2017, 313, 288-293.	4.8	20
36	Steam oxidation behavior of ZrO <sub>2</sub> /Cr-coated pure zirconium prepared by plasma electrolytic oxidation followed by filtered cathodic vacuum arc deposition. <i>Journal of Alloys and Compounds</i> , 2021, 883, 160798.	5.5	20

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37	Analyses of Microarc Oxidation Coatings Formed on Si-containing Cast Aluminum Alloy in Silicate Solution.. ISIJ International, 2002, 42, 1273-1277.	1.4	19
38	Al <sub>2</sub> O <sub>3</sub> coating fabricated on titanium by cathodic microarc electrodeposition. Journal of Alloys and Compounds, 2009, 476, 356-359.	5.5	19
39	High-temperature oxidation of Q235 low-carbon steel treated by plasma electrolytic borocarburing. Surface and Coatings Technology, 2015, 269, 302-307.	4.8	18
40	Fabrication and characterization of microarc oxidation films on Ti-39Nb-6Zr alloy at different voltages in KOH electrolyte. Journal of Alloys and Compounds, 2017, 725, 1158-1165.	5.5	18
41	Fabrication and optical emission spectroscopy of enhanced corrosion-resistant CPEO films on Q235 low carbon steel. Surface and Coatings Technology, 2019, 363, 411-418.	4.8	18
42	High temperature oxidation of Zr 1Nb alloy with plasma electrolytic oxidation coating in 900~1200°C steam environment. Surface and Coatings Technology, 2021, 407, 126768.	4.8	18
43	Characterization and first-principles calculations of WO <sub>3</sub> /TiO <sub>2</sub> composite films on titanium prepared by microarc oxidation. Materials Chemistry and Physics, 2017, 201, 311-322.	4.0	17
44	Characterization of plasma electrolytic oxidation film on biomedical high niobium-containing Ti-titanium alloy. Surface and Coatings Technology, 2018, 352, 295-301.	4.8	17
45	In-situ high temperature electrochemical investigation of ZrO <sub>2</sub> /CrN ceramic composite film on zirconium alloy. Surface and Coatings Technology, 2019, 359, 366-373.	4.8	17
46	Tribological properties of microarc oxidation coatings on Zirlo alloy. Surface Engineering, 2019, 35, 692-700.	2.2	16
47	Enhanced wear and corrosion resistance of plasma electrolytic carburized layer on T8 carbon steel. Materials Chemistry and Physics, 2016, 171, 50-56.	4.0	15
48	Direct growth of oxide layer on carbon steel by cathodic plasma electrolysis. Surface and Coatings Technology, 2018, 338, 63-68.	4.8	15
49	In-situ electrochemical study of plasma electrolytic oxidation treated Zr <sub>3</sub> Al based alloy in 300°C/14 MPa lithium borate buffer solution. Thin Solid Films, 2020, 707, 138066.	1.8	15
50	Three-dimensional grain size distribution: Comparison of an analytical form under a topology-related rate equation with computer simulations and experimental data. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2007, 454-455, 547-551.	5.6	14
51	Effects of Li, B and H elements on corrosion property of oxide films on ZIRLO alloy in 300 °C/14 MPa lithium borate buffer solutions. Corrosion Science, 2021, 181, 109216.	6.6	14
52	Preparation and characterization of carburized layer on pure aluminum by plasma electrolysis. Surface and Coatings Technology, 2015, 269, 119-124.	4.8	13
53	Effects of experimental parameters on phenol degradation by cathodic microarc plasma electrolysis. Separation and Purification Technology, 2018, 201, 179-185.	7.9	13
54	Surface charge and corrosion behavior of plasma electrolytic oxidation film on Zr <sub>3</sub> Al based alloy. Surface and Coatings Technology, 2019, 357, 412-417.	4.8	13



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73	INFLUENCE OF MICROSTRUCTURE OF FRICTION STIR WELDED JOINTS ON GROWTH AND PROPERTIES OF MICROARC OXIDATION COATINGS ON AZ31B MAGNESIUM ALLOY. <i>Surface Review and Letters</i> , 2015, 22, 1550029.	1.1	2
74	Electrochemical Study of TA2 Titanium in a High-Temperature and -Pressure Water Environment. <i>Coatings</i> , 2021, 11, 659.	2.6	2
75	One-step plasma electrolytic oxidation for TiO <sub>2</sub> /SnO <sub>2</sub> film as LIB anode. <i>Surface Engineering</i> , 2021, 37, 918-925.	2.2	2
76	PREPARATION OF MICROARC OXIDATION COATINGS ON 6061 ALUMINUM ALLOYS AND THEIR THERMAL SHOCK RESISTANCE. <i>Surface Review and Letters</i> , 2009, 16, 393-399.	1.1	1
77	HIGH TEMPERATURE STEAM CORROSION OF MICROARC OXIDATION COATINGS ON 6061 ALUMINUM ALLOY AT 300°C/3 MPa STEAM. <i>Surface Review and Letters</i> , 2021, 28, 2050030.	1.1	1
78	Degradation of 2,4-dichlorophenol by cathodic microarc plasma electrolysis: characteristics and mechanisms. <i>Environmental Technology (United Kingdom)</i> , 2020, , 1-13.	2.2	0
79	Evolution of carbon diffusion layer to oxidation film during cathodic plasma electrolysis on steel. <i>Heat Treatment and Surface Engineering</i> , 2020, 2, 1-8.	1.0	0
80	FABRICATION AND WEAR BEHAVIOR OF PEC/N HARDENED LAYER ON PURE IRON. <i>Surface Review and Letters</i> , 2022, 29, .	1.1	0
81	Effect of nickel-coated carbon nanotubes on the preparation and wear resistance of microarc oxidation ceramic coating on ZL109 aluminum alloy. <i>Scientific Reports</i> , 2022, 12, .	3.3	0