

# Wenbin Xue

## List of Publications by Year in descending order

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81  
papers

2,325  
citations

236925

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docs citations

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1210  
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#	ARTICLE	IF	CITATIONS
1	Analyses of electrochemical behavior of plasma electrolytic oxidation film on Zirlo alloy in lithium borate buffer solution at 25–300°C. <i>Surface and Coatings Technology</i> , 2022, 429, 127935.	4.8	5
2	FABRICATION AND WEAR BEHAVIOR OF PEC/N HARDENED LAYER ON PURE IRON. <i>Surface Review and Letters</i> , 2022, 29, .	1.1	0
3	Microstructure and properties of B–C–N ternary hardening layers on Q235 low-carbon steel prepared by plasma electrolysis. <i>Surface and Coatings Technology</i> , 2022, 440, 128505.	4.8	3
4	Microstructural characterizations of $\beta$ -TiAl alloy after high-temperature steam oxidations at 900, 1000, 1100 and 1200°C. <i>Materials Characterization</i> , 2022, 189, 111979.	4.4	11
5	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
6	Influence of voltage on growth and microstructure of oxide coatings on $\beta$ -TiAl alloy by cathodic plasma electrolysis in glycerin solution. <i>Surface and Coatings Technology</i> , 2022, 444, 128666.	4.8	3
7	High temperature oxidation of Zr 1Nb alloy with plasma electrolytic oxidation coating in 900–1200°C steam environment. <i>Surface and Coatings Technology</i> , 2021, 407, 126768.	4.8	18
8	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. <i>Corrosion Science</i> , 2021, 181, 109216.	6.6	14
9	Electrochemical Study of TA2 Titanium in a High-Temperature and -Pressure Water Environment. <i>Coatings</i> , 2021, 11, 659.	2.6	2
10	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
11	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
12	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
13	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
14	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
15	Anticorrosive non-crystalline coating prepared by plasma electrolytic oxidation for ship low carbon steel pipes. <i>Scientific Reports</i> , 2020, 10, 15675.	3.3	13
16	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
17	In-situ electrochemical study of plasma electrolytic oxidation treated Zr3Al based alloy in 300°C/14 MPa lithium borate buffer solution. <i>Thin Solid Films</i> , 2020, 707, 138066.	1.8	15
18	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

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19	Analyses of hydrogen release on zirlo alloy anode during plasma electrolytic oxidation. <i>Materials Chemistry and Physics</i> , 2020, 251, 123054.	4.0	31
20	Influence of microarc oxidation power supply frequency on tribology performance of a self-lubricating coating for Al-Si diesel engine pistons. <i>Materials Research Express</i> , 2019, 6, 1165a7.	1.6	5
21	Influence of temperature on tribological properties of microarc oxidation coating on 7075 aluminium alloy at 25-300°C. <i>Ceramics International</i> , 2019, 45, 12312-12318.	4.8	34
22	Fabrication and optical emission spectroscopy of enhanced corrosion-resistant CPEO films on Q235 low carbon steel. <i>Surface and Coatings Technology</i> , 2019, 363, 411-418.	4.8	18
23	Rapid construction of TiO <sub>2</sub> /SiO <sub>2</sub> composite film on Ti foil as lithium-ion battery anode by plasma discharge in solution. <i>Applied Physics Letters</i> , 2019, 114, 043903.	3.3	11
24	Tribological properties of microarc oxidation coatings on Zirlo alloy. <i>Surface Engineering</i> , 2019, 35, 692-700.	2.2	16
25	Temperature measurement and OES analysis during CPEO on stainless steel. <i>Surface and Coatings Technology</i> , 2019, 363, 314-321.	4.8	5
26	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
27	In-situ high temperature electrochemical investigation of ZrO <sub>2</sub> /CrN ceramic composite film on zirconium alloy. <i>Surface and Coatings Technology</i> , 2019, 359, 366-373.	4.8	17
28	Surface charge and corrosion behavior of plasma electrolytic oxidation film on Zr3Al based alloy. <i>Surface and Coatings Technology</i> , 2019, 357, 412-417.	4.8	13
29	Degradation of phenol in wastewater by cathodic microarc plasma electrolysis. <i>Environmental Technology (United Kingdom)</i> , 2019, 40, 969-978.	2.2	5
30	Effects of experimental parameters on phenol degradation by cathodic microarc plasma electrolysis. <i>Separation and Purification Technology</i> , 2018, 201, 179-185.	7.9	13
31	Direct growth of oxide layer on carbon steel by cathodic plasma electrolysis. <i>Surface and Coatings Technology</i> , 2018, 338, 63-68.	4.8	15
32	Preparation and tribological behaviors of DLC/spinel composite film on 304 stainless steel formed by cathodic plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2018, 338, 38-44.	4.8	9
33	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
34	Zeta potential of microarc oxidation film on zirlo alloy in different aqueous solutions. <i>Corrosion Science</i> , 2018, 143, 129-135.	6.6	25
35	Characterization of plasma electrolytic oxidation film on biomedical high niobium-containing Ti-titanium alloy. <i>Surface and Coatings Technology</i> , 2018, 352, 295-301.	4.8	17
36	FABRICATION AND CHARACTERIZATION OF PLASMA ELECTROLYTIC BOROCARBURIZED LAYERS ON Q235 LOW-CARBON STEEL AT DIFFERENT DISCHARGE VOLTAGES. <i>Surface Review and Letters</i> , 2017, 24, 1750088.	1.1	3

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37	EFFECT OF DISCHARGE TIME ON PLASMA ELECTROLYTIC BOROCARBONITRIDING OF PURE IRON. Surface Review and Letters, 2017, 24, 1750016.	1.1	4
38	Investigation of anodic plasma electrolytic carbonitriding on medium carbon steel. Surface and Coatings Technology, 2017, 313, 288-293.	4.8	20
39	Optical emission spectroscopy of plasma electrolytic oxidation process on 7075 aluminum alloy. Surface and Coatings Technology, 2017, 324, 18-25.	4.8	35
40	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
41	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
42	Cathodic plasma electrolysis for preparation of diamond-like carbon particles in glycerol solution. Materials Chemistry and Physics, 2017, 199, 289-294.	4.0	9
43	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
44	Influence of discharge time on properties of plasma electrolytic borocarbureted layers on Q235 low-carbon steel. Materials Chemistry and Physics, 2015, 168, 10-17.	4.0	10
45	Preparation and characterization of carburized layer on pure aluminum by plasma electrolysis. Surface and Coatings Technology, 2015, 269, 119-124.	4.8	13
46	Analyses of reinforcement phases during plasma electrolytic oxidation on magnesium matrix composites. Surface and Coatings Technology, 2015, 269, 212-219.	4.8	23
47	Anti-corrosion layer prepared by plasma electrolytic carbonitriding on pure aluminum. Applied Surface Science, 2015, 347, 673-678.	6.1	28
48	High-temperature oxidation of Q235 low-carbon steel treated by plasma electrolytic borocarbureting. Surface and Coatings Technology, 2015, 269, 302-307.	4.8	18
49	INFLUENCE OF MICROSTRUCTURE OF FRICTION STIR WELDED JOINTS ON GROWTH AND PROPERTIES OF MICROARC OXIDATION COATINGS ON AZ31B MAGNESIUM ALLOY. Surface Review and Letters, 2015, 22, 1550029.	1.1	2
50	The effect of microarc oxidation and excimer laser processing on the microstructure and corrosion resistance of Zr-1Nb alloy. Journal of Nuclear Materials, 2015, 467, 186-193.	2.7	25
51	Corrosion behavior of friction stir welded AZ31B magnesium alloy with plasma electrolytic oxidation coating formed in silicate electrolyte. Materials Chemistry and Physics, 2014, 144, 462-469.	4.0	37
52	Characterization of carburized layer on T8 steel fabricated by cathodic plasma electrolysis. Surface and Coatings Technology, 2014, 245, 9-15.	4.8	45
53	Spectroscopic investigation of plasma electrolytic borocarbureting on q235 low-carbon steel. Applied Surface Science, 2014, 321, 348-352.	6.1	20
54	Analyses of quenching process during turn-off of plasma electrolytic carburizing on carbon steel. Applied Surface Science, 2014, 316, 102-107.	6.1	25

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55	Discharge behaviors during plasma electrolytic oxidation on aluminum alloy. <i>Materials Chemistry and Physics</i> , 2014, 148, 284-292.	4.0	63
56	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
57	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
58	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
59	Effect of voltage on properties of microarc oxidation films prepared in phosphate electrolyte on Zrâ€“1Nb alloy. <i>Surface and Coatings Technology</i> , 2013, 222, 62-67.	4.8	62
60	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
61	Microbial influenced corrosion behavior of micro-arc oxidation coating on AA2024. <i>Surface and Coatings Technology</i> , 2013, 216, 100-105.	4.8	26
62	DUPLEX Al <sub>2</sub> O <sub>3</sub> /DLC COATING ON 15SiCp/2024 ALUMINUM MATRIX COMPOSITE USING COMBINED MICROARC OXIDATION AND FILTERED CATHODIC VACUUM ARC DEPOSITION. <i>Surface Review and Letters</i> , 2012, 19, 1250036.	1.1	3
63	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
64	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
65	New Four-Band Electrode Fabrication To Measure in Situ Electrical Property of Conducting Polymers. <i>Analytical Chemistry</i> , 2009, 81, 2364-2372.	6.5	11
66	Al <sub>2</sub> O <sub>3</sub> coating fabricated on titanium by cathodic microarc electrodeposition. <i>Journal of Alloys and Compounds</i> , 2009, 476, 356-359.	5.5	19
67	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
68	Corrosion behaviors and galvanic studies of microarc oxidation films on Alâ€“Znâ€“Mgâ€“Cu alloy. <i>Surface and Coatings Technology</i> , 2007, 201, 8695-8701.	4.8	64
69	Preparation of anti-corrosion films by microarc oxidation on an Alâ€“Si alloy. <i>Applied Surface Science</i> , 2007, 253, 6118-6124.	6.1	86
70	Three-dimensional grain size distribution: Comparison of an analytical form under a topology-related rate equation with computer simulations and experimental data. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 454-455, 547-551.	5.6	14
71	On the quasi-stationary grain size distribution from two Gamma size distributions in three-dimensional grain growth. <i>Materials Letters</i> , 2007, 61, 4262-4266.	2.6	5
72	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

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73	Tribological Behavior of Microarc Oxidation Coatings on Aluminum Alloy. ISIJ International, 2006, 46, 287-291.	1.4	22
74	Features of film growth during plasma anodizing of Al 2024/SiC metal matrix composite. Applied Surface Science, 2006, 252, 6195-6200.	6.1	29
75	Analyses of Microarc Oxidation Coatings Formed on Si-containing Cast Aluminum Alloy in Silicate Solution.. ISIJ International, 2002, 42, 1273-1277.	1.4	19
76	Characterization of Oxide Coatings Deposited on Pure Titanium by Alternating-current Microarc Discharge in Electrolyte.. ISIJ International, 2002, 42, 651-655.	1.4	5
77	Evaluation of the mechanical properties of microarc oxidation coatings and 2024 aluminium alloy substrate. Journal of Physics Condensed Matter, 2002, 14, 10947-10952.	1.8	41
78	Structure and properties characterization of ceramic coatings produced on Ti-6Al-4V alloy by microarc oxidation in aluminate solution. Materials Letters, 2002, 52, 435-441.	2.6	164
79	Title is missing!. Journal of Materials Science, 2001, 36, 2615-2619.	3.7	49
80	Growth regularity of ceramic coatings formed by microarc oxidation on Al-Cu-Mg alloy. Thin Solid Films, 2000, 372, 114-117.	1.8	240
81	Analysis of Phase Distribution for Ceramic Coatings Formed by Microarc Oxidation on Aluminum Alloy. Journal of the American Ceramic Society, 1998, 81, 1365-1368.	3.8	210