

# Pingze Zhang

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Al <sub>2</sub> O <sub>3</sub> nanoparticles reinforced Fe-Al laser cladding coatings with enhanced mechanical properties. <i>Journal of Alloys and Compounds</i> , 2018, 755, 41-54.	5.5	43
2	Effect of different alloyed layers on the high temperature oxidation behavior of newly developed Ti <sub>2</sub> AlNb-based alloys. <i>Applied Surface Science</i> , 2011, 257, 1835-1839.	6.1	40
3	Simulation of thermal stresses in SiC/Al <sub>2</sub> O <sub>3</sub> composite tritium penetration barrier by finite-element analysis. <i>Materials &amp; Design</i> , 2009, 30, 2785-2790.	5.1	38
4	Preparation and characterization of Cr/CrC multilayer on $\beta$ -TiAl alloy by the double glow plasma surface alloying technology. <i>Materials Letters</i> , 2018, 215, 292-295.	2.6	34
5	Tribological behavior of CrCoNiAlTiY coating synthesized by double-glow plasma surface alloying technique. <i>Tribology International</i> , 2015, 92, 512-518.	5.9	30
6	The role of process parameters in plasma surface chromising of Ti <sub>2</sub> AlNb-based alloys. <i>Applied Surface Science</i> , 2009, 256, 1333-1340.	6.1	27
7	Surface plasma chromized burn-resistant titanium alloy. <i>Surface and Coatings Technology</i> , 2007, 201, 4884-4887.	4.8	25
8	Double glow plasma surface Cr-Ni alloying of Ti6Al4V alloys: Mechanical properties and impact of preparing process on the substrate. <i>Vacuum</i> , 2018, 155, 233-241.	3.5	23
9	Ir coating prepared on Mo substrate by double glow plasma. <i>Journal of Coatings Technology Research</i> , 2009, 6, 517-522.	2.5	22
10	Double glow plasma chromizing of Ti6Al4V alloys: Impact of working time, substrate-target distance, argon pressure and surface temperature of substrate. <i>Vacuum</i> , 2015, 121, 81-87.	3.5	20
11	The Friction and Wear Properties of Ti-Al-Nb Intermetallics by Plasma Surface Alloying. <i>Tribology Letters</i> , 2008, 30, 61-67.	2.6	19
12	Effects of metal-ceramic anticorrosion coating on the performance of ballastless tracks at high temperature. <i>Archives of Civil and Mechanical Engineering</i> , 2020, 20, 1.	3.8	15
13	Study on double-glow plasma niobium surface alloying of pure titanium. <i>Vacuum</i> , 2007, 81, 937-942.	3.5	14
14	Effect of MEVVA ion implantation on fatigue properties of TC18 titanium alloy. <i>Surface and Coatings Technology</i> , 2018, 344, 572-578.	4.8	13
15	Influence of different micro-pattern types on interface characteristic and mechanical property of CFRTP/aluminum alloy laser bonding joint. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 120, 3543-3557.	3.0	12
16	Characteristics of Mo-Cr duplex-alloyed layer on Ti6Al4V by double glow plasma surface metallurgy. <i>Surface and Coatings Technology</i> , 2013, 228, S206-S209.	4.8	11
17	Corrosion behavior of hot-dip Al-Zn coating doped with Si, RE, and Mg during exposure to sodium chloride containing environments. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2018, 69, 714-724.	1.5	11
18	Study on preparation, microstructure and luminescent properties of Er-ZrO <sub>2</sub> layer. <i>Journal of Rare Earths</i> , 2016, 34, 958-962.	4.8	9

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19	Laser Cladding Fe-Al-Cr Coating with Enhanced Mechanical Properties. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 1197-1204.	1.0	9
20	Effect of Cr ion implantation on surface morphology, lattice deformation, nanomechanical and fatigue behavior of TC18 alloy. Applied Surface Science, 2020, 506, 145023.	6.1	9
21	Tribological Properties of the Fe-Al-Cr Alloyed Layer by Double Glow Plasma Surface Metallurgy. Journal of Materials Engineering and Performance, 2016, 25, 3938-3947.	2.5	8
22	Comparative study on the morphology and mechanical strength of induction welding joint of polyetheretherketone under different currents. Polymer Engineering and Science, 2020, 60, 2908-2917.	3.1	8
23	Corrosion and Tribocorrosion Behaviors for TA3 in Ringer's Solution after Implantation of Nb Ions. Applied Sciences (Switzerland), 2020, 10, 8329.	2.5	8
24	Tribological Properties of Double-Glow Plasma Surface Niobizing on Low-Carbon Steel. Tribology Transactions, 2014, 57, 786-792.	2.0	7
25	Tribological behaviour of double-glow plasma zirconium-yttrium alloying on $\hat{\text{T}}^3\text{-TiAl}$ . Surface Engineering, 2017, 33, 911-918.	2.2	6
26	Oxidation Behavior of TiAl-Based Alloy Modified by Double-Glow Plasma Surface Alloying with Cr-Mo. High Temperature Materials and Processes, 2017, 36, 669-675.	1.4	6
27	Microstructure and corrosion behavior of arc sprayed Zn-xAl (x = 15, 30, 50) alloy coatings in NaCl solution. Materials Research Express, 2019, 6, 1065f7.	1.6	6
28	Characterisation and corrosion behaviour of WAP coating on 300M steel. Surface Engineering, 2019, 35, 986-996.	2.2	6
29	Investigation of the classification and properties of three-dimensional textile fabrics. Journal of Engineered Fibers and Fabrics, 2019, 14, 155892501988996.	1.0	6
30	Influence of fabric structure on the tensile and flexural properties of three-dimensional angle-interlock woven composites. Journal of Industrial Textiles, 2022, 51, 1641-1657.	2.4	6
31	Modeling of Residual Stresses in Functionally Gradient Al <sub>2</sub> O <sub>3</sub> Coating on 316L Substrate. Journal of Computational and Theoretical Nanoscience, 2008, 5, 1677-1680.	0.4	5
32	Niobium coated Ti-Al alloy: improvement of tribological behaviour, oxidation resistance and flame retardancy. International Journal of Surface Science and Engineering, 2016, 10, 559.	0.4	5
33	TRIBOLOGICAL BEHAVIOR OF Al-Cr COATING OBTAINED BY DGPSM AND IIP COMPOSITE TECHNOLOGY. Surface Review and Letters, 2017, 24, 1750091.	1.1	5
34	Tribological Behavior of Aluminum Slurry Coating on 300M Steel. Journal of Materials Engineering and Performance, 2017, 26, 3719-3727.	2.5	5
35	A combined experimental and first-principle study on the effect of plasma surface Ta-W co-alloying on the oxidation behavior of $\hat{\text{T}}^3\text{-TiAl}$ at 900 Å°C. Journal of Materials Research, 2020, 35, 516-526.	2.6	5
36	Tribocorrosion behavior of Nb coating deposited by double-glow plasma alloying. Materials Research Express, 2021, 8, 016411.	1.6	5

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37	Effect of counterface materials on friction and wear behavior of double glow plasma discharge surface alloying on Ti22Al25Nb alloy. Journal Wuhan University of Technology, Materials Science Edition, 2009, 24, 106-110.	1.0	4
38	High-Temperature Oxidation of Double-Glow Plasma Tantalum Alloying on $\hat{I}^3$ -TiAl. Oxidation of Metals, 2019, 92, 337-351.	2.1	4
39	Effects of Zr ion implantation on crystal structure and nanoindentation behavior of TC18 titanium alloy. Materials Research Express, 2019, 6, 026560.	1.6	4
40	Mechanical and tribological properties of Cr $\hat{A}$ “Nb $\hat{A}$ double-glow plasma coatings deposited on Ti $\hat{A}$ “Al $\hat{A}$ alloy. Tribology - Materials, Surfaces and Interfaces, 2017, 11, 98-106.	1.4	3
41	Isothermal Oxidation Behavior of Zr-Y Coating on $\hat{I}^3$ -TiAl by Double Glow Plasma Surface Metal Alloying Technique. Coatings, 2018, 8, 361.	2.6	3
42	Information description and integration of spiral bevel gear manufacturing process under networked manufacturing mode. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	3
43	Review on the fatigue properties of 3D woven fiber/epoxy composites: testing and modelling strategies. Journal of Industrial Textiles, 2022, 51, 7755S-7795S.	2.4	3
44	Hot Deformation Behavior of Cu $\hat{A}$ “Sn $\hat{A}$ “La Polycrystalline Alloy Prepared by Upcasting. Materials, 2020, 13, 3739.	2.9	3
45	Comparative studies on the effect of fabric structure on mechanical properties of carbon fiber/epoxy composites. Journal of Industrial Textiles, 2022, 51, 1348S-1371S.	2.4	3
46	Influence of the different surface treatments on fracture property of CFRP adhesive joint. Journal of Adhesion Science and Technology, 2023, 37, 961-975.	2.6	3
47	Improving corrosion resistance of Q235 steel by Ni-Cr alloyed layer. Journal Wuhan University of Technology, Materials Science Edition, 2012, 27, 33-37.	1.0	2
48	Microstructural characterization and tribological behavior of surface plasma Zr-Er alloying on TC11 alloy. Materials Research Express, 2018, 5, 026519.	1.6	2
49	Sliding wear behaviour of Ni-Cr alloying on Ti6Al4V based on double-glow plasma surface metallurgy technology. Materials Research Express, 2018, 5, 086403.	1.6	2
50	Corrosion behavior of Al2O3-WER and WC-Co-WER coatings on TC18 in neutral salt spray environment. Materials Research Express, 2018, 5, 066411.	1.6	2
51	INNOVATIVE METHOD FOR PREPARATION OF Fe $\hat{A}$ “Al $\hat{A}$ “Cr INTERMETALLIC FUNCTIONALLY GRADED MATERIAL ON 1045 STEEL WITH UNIQUE TRIBOLOGICAL PROPERTIES. Surface Review and Letters, 2019, 26, 1850221.	1.1	2
52	Morphological Evolution of S-Phase in 2024 Aluminum under Tensile Creep at 448-463 $\hat{A}$ K. Journal of Materials Engineering and Performance, 2019, 28, 3614-3621.	2.5	2
53	A New Plasma Surface Alloying to Improve the Wear Resistance of the Metallic Card Clothing. Applied Sciences (Switzerland), 2019, 9, 1849.	2.5	2
54	Microstructure, nano-mechanical characterization, and fretting wear behavior of plasma surface Cr-Nb alloying on $\hat{I}^3$ -TiAl. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2021, 235, 1012-1024.	1.8	2

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55	Structures and properties of Ti-5Al-5Mo-5V-1Cr-1Fe after Nb implantation. Surface and Coatings Technology, 2019, 358, 676-687.	4.8	1
56	Numerical simulation of the solidification process of Cu-0.45% Sn alloy in upward continuous casting. Materials Research Express, 2021, 8, 096532.	1.6	1
57	Characterisation and oxidation behaviour of plasma surface alloyed on $\hat{1}^3$ -TiAl alloy. Materials at High Temperatures, 2021, 38, 83-94.	1.0	1
58	The Influence of Loading Rate and Hold Time on the Nano-mechanical Properties of $\hat{1}^3$ -TiAl and Plasma Mo-Si-Ti Coating. Journal of Materials Engineering and Performance, 2022, 31, 7368-7381.	2.5	1
59	Fretting wear behaviour of double-glow plasma Cr-Nb coating on $\hat{1}^3$ -TiAl alloy. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2017, 231, 1184-1191.	1.8	0
60	Fatigue Behavior of 300M Steel Coated with Water-Based Aluminum Phosphate Coating. Journal of Materials Engineering and Performance, 2020, 29, 6661-6669.	2.5	0
61	Oxidation Mechanism of YSZ/NiCr Coating Prepared by Hollow Cathode Glow Discharge Phenomenon and Multi-arc Ion Plating. Journal of Materials Engineering and Performance, 2021, 30, 2832-2842.	2.5	0
62	FRICITION AND WEAR PROPERTIES OF SURFACE PLASMA Cr-W ALLOYING LAYER OF $\hat{1}^3$ -TiAl ALLOY. Jinshu Xuebao/Acta Metallurgica Sinica, 2013, 49, 1406.	0.3	0