

# Kong Dejun

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Salt spray corrosion and electrochemical corrosion properties of anodic oxide film on 7475 aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2015, 632, 286-290.	5.5	51
2	Effects of micro arc oxidation on fatigue limits and fracture morphologies of 7475 high strength aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2015, 650, 393-398.	5.5	48
3	Effects of loads on friction&quot;wear properties of HVOF sprayed NiCrBSi alloy coatings by laser remelting. <i>Journal of Alloys and Compounds</i> , 2017, 705, 700-707.	5.5	46
4	Microstructures and immersion corrosion behavior of laser thermal sprayed amorphous Al-Ni coatings in 3.5 % NaCl solution. <i>Journal of Alloys and Compounds</i> , 2018, 735, 1-12.	5.5	46
5	Microstructure and corrosion behaviour of laser-cladding Al-Ni-TiC-CeO <sub>2</sub> composite coatings on S355 offshore steel. <i>Journal of Alloys and Compounds</i> , 2019, 770, 771-783.	5.5	45
6	Microstructure and corrosion behaviours of composite coatings on S355 offshore steel prepared by laser cladding combined with micro-arc oxidation. <i>Applied Surface Science</i> , 2019, 497, 143703.	6.1	44
7	Effects of Ni addition on corrosion behaviors of laser clad FeSiBNi coating in 3.5% NaCl solution. <i>Journal of Alloys and Compounds</i> , 2019, 795, 416-425.	5.5	40
8	Effects of laser power on immersion corrosion and electrochemical corrosion performances of laser thermal sprayed amorphous AlFeSi coatings. <i>Applied Surface Science</i> , 2019, 481, 161-173.	6.1	39
9	Friction&quot;wear performances and oxidation behaviors of Ti <sub>3</sub> AlC <sub>2</sub> reinforced Co&quot;-based alloy coatings by laser cladding. <i>Surface and Coatings Technology</i> , 2021, 408, 126816.	4.8	35
10	Microstructures and Properties of Laser Cladding Al-TiC-CeO <sub>2</sub> Composite Coatings. <i>Materials</i> , 2018, 11, 198.	2.9	33
11	Friction-wear behaviors of cathodic arc ion plating AlTiN coatings at high temperatures. <i>Tribology International</i> , 2015, 88, 31-39.	5.9	31
12	Nanoindentation analysis of TiN, TiAlN, and TiAlSiN coatings prepared by cathode ion plating. <i>Science China Technological Sciences</i> , 2015, 58, 1360-1368.	4.0	30
13	Wear behaviors of HVOF sprayed WC-12Co coatings by laser remelting under lubricated condition. <i>Optics and Laser Technology</i> , 2017, 89, 86-91.	4.6	29
14	Immersion corrosion and electrochemical performances of laser clad FeSiB, FeSiBCr and FeSiBCrMo coatings in 3.5&wt% NaCl solution. <i>Surface and Coatings Technology</i> , 2020, 383, 125229.	4.8	28
15	Effects of laser remelting speeds on microstructure, immersion corrosion, and electrochemical corrosion of arc&quot;sprayed amorphous Al&quot;-Ti&quot;-Ni coatings. <i>Journal of Alloys and Compounds</i> , 2019, 771, 584-594.	5.5	23
16	Surface and cross-section characteristics and immersion corrosion behavior of laser thermal sprayed amorphous AlNiCoCrY <sub>2</sub> O <sub>3</sub> coatings. <i>Applied Surface Science</i> , 2018, 457, 69-82.	6.1	19
17	Comparison on electrochemical corrosion performances of arc and laser thermal sprayed Al&quot;-Ti&quot;-Ni coatings in marine environment. <i>Materials Chemistry and Physics</i> , 2020, 251, 123200.	4.0	19
18	Friction and Wear Performances of 7475 Aluminium Alloy after Anodic Oxidation. <i>Rare Metal Materials and Engineering</i> , 2016, 45, 1122-1127.	0.8	18

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19	Microstructure, dry sliding friction performances and wear mechanism of laser cladded WCâ€“10Co4Cr coating with different Al <sub>2</sub> O <sub>3</sub> mass fractions. Surface and Coatings Technology, 2021, 406, 126749.	4.8	18
20	Effects of laser power on frictionâ€“wear performances of laser thermal sprayed Cr <sub>3</sub> C <sub>2</sub> â€“NiCr composite coatings at elevated temperatures. Optics and Laser Technology, 2019, 117, 227-238.	4.6	17
21	Effect of laser remelting on microstructure and immersion corrosion of coldâ€“sprayed aluminum coating on S355 structural steel. Optics and Laser Technology, 2018, 106, 348-356.	4.6	16
22	Effects of Laser Quenching on Impact Toughness and Fracture Morphologies of 40CrNiMo High Strength Steel. Journal of Materials Engineering and Performance, 2014, 23, 3695-3702.	2.5	14
23	Effects of Al and Ti additions on corrosiveâ€“wear and electrochemical behaviors of laser cladded FeSiB coatings. Optics and Laser Technology, 2020, 124, 105958.	4.6	14
24	Analysis of structure and bonding strength of AlTiN coatings by cathodic ion plating. Applied Physics A: Materials Science and Processing, 2015, 119, 309-316.	2.3	13
25	Effect of Laser Remelting on Friction-Wear Behaviors of Cold Sprayed Al Coatings in 3.5% NaCl Solution. Materials, 2018, 11, 283.	2.9	13
26	Micro-Structures and High-Temperature Friction-Wear Performances of Laser Cladded Crâ€“Ni Coatings. Materials, 2018, 11, 137.	2.9	12
27	Surface and crossâ€“section characteristics and frictionâ€“wear properties of high velocity oxy fuel sprayed WCâ€“12Co coating. International Journal of Applied Ceramic Technology, 2018, 15, 1229-1239.	2.1	10
28	Frictionâ€“Wear Characteristics of High Velocity Oxygen Fuel Sprayed NiCrBSi Alloy Coating at Elevated Temperatures. Transactions of the Indian Institute of Metals, 2018, 71, 2565-2573.	1.5	10
29	Effect of Micro-Arc Oxidation on Frictionâ€“Wear Behavior of Cold-Sprayed Al Coating in 3.5Åwt.% NaCl Solution. Journal of Materials Engineering and Performance, 2019, 28, 2716-2725.	2.5	10
30	Effects of TiO <sub>2</sub> Mass Fraction on Friction Reduction and Wear Resistance of Laser-Cladded CrNi Alloy Coating. Journal of Materials Engineering and Performance, 2021, 30, 2280-2290.	2.5	10
31	Microstructure and Mechanical Property of Magnetron Sputtering Deposited DLC Film. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 579-584.	1.0	9
32	Microstructure, Tribological Performance, and Wear Mechanism of Cr- and Mo-Reinforced FeSiB Coatings by Laser Cladding. Journal of Materials Engineering and Performance, 2020, 29, 7428-7444.	2.5	9
33	XPS and EDS Analysis of VC Coatings Prepared by TD Process. Rare Metal Materials and Engineering, 2016, 45, 297-302.	0.8	8
34	Influence of Al <sub>2</sub> O <sub>3</sub> mass fractions on microstructure, oxidation resistance and frictionâ€“wear behaviors of CoCrAlYTaSi coatings. Surface and Coatings Technology, 2019, 379, 125058.	4.8	8
35	Microstructures and plane energy spectra of X80 pipeline steel welded joints by submerged arc automatic welding. Journal Wuhan University of Technology, Materials Science Edition, 2014, 29, 1265-1269.	1.0	7
36	Friction and wear behaviors of AlTiCrN coatings by cathodic arc ion plating at high temperatures. Journal of Materials Research, 2015, 30, 503-511.	2.6	7

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37	Effects of Loadings on Friction and Wear Behaviors of Cathodic Arc Ion Plating AlTiN Coating at High Temperature. Tribology Transactions, 2016, 59, 604-612.	2.0	7
38	Interfacial bonding mechanism and bonding strength of AlTiCrN coating by cathodic arc ion plating. Surface and Interface Analysis, 2015, 47, 198-205.	1.8	6
39	SEM-EDS Plane Scan and Line Scan Analysis of TiCN Coatings by Cathodic Arc Ion Plating. Rare Metal Materials and Engineering, 2015, 44, 3000-3004.	0.8	6
40	Friction and Wear Performances of Ni-P Coatings by Chemical Plating after Crystallization Treatment. Rare Metal Materials and Engineering, 2015, 44, 1314-1319.	0.8	6
41	Effects of strain rate on stress corrosion of S355 steel in 3.5% NaCl solutions. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 1381-1386.	1.0	6
42	Microstructures and High-Temperature Friction-Wear Performance of Laser-Remelted WC-12Co Coatings by HVOF. Tribology Transactions, 2017, 60, 781-788.	2.0	6
43	Microstructures and immersion corrosion performances of arc sprayed amorphous Al-Ti-Ni coating on S355 structural steel. Anti-Corrosion Methods and Materials, 2018, 65, 271-280.	1.5	6
44	Tribological behavior of laser thermal sprayed Cr <sub>3</sub> C <sub>2</sub> -NiCr + 10%Ni/MoS <sub>2</sub> composite coating on H13 hot work mould steel. Materials Research Express, 2020, 7, 016599.	1.6	6
45	Tribological Performance and Wear Mechanism of Laser Cladded NiCrAl-WC Coatings at High-Temperature. Transactions of the Indian Institute of Metals, 2022, 75, 1917-1928.	1.5	6
46	AFM analysis of TiN, TiAlN, and TiAlSiN coatings prepared by cathodic arc ion plating. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 1093-1098.	1.0	5
47	Effect of Load on Friction-Wear Behavior of HVOF-Sprayed WC-12Co Coatings. Journal of Materials Engineering and Performance, 2017, 26, 3465-3473.	2.5	5
48	Effects of wear speeds on friction-wear behaviours of cathode arc ion plated TiAlSiN coatings at high temperatures. Tribology - Materials, Surfaces and Interfaces, 2017, 11, 66-74.	1.4	5
49	Friction-Wear Behaviors of Chemical Vapor Deposited Diamond Films at High Temperatures. Journal of Superhard Materials, 2019, 41, 98-105.	1.2	5
50	Corrosive wear and electrochemical corrosion performances of arc sprayed Al coating in 3.5% NaCl solution. Anti-Corrosion Methods and Materials, 2021, 68, 95-104.	1.5	5
51	Microstructures and friction-wear performances of cathodic arc ion plated TiAlN coatings on YT14 cemented carbide cutting tools. Journal of Materials Research, 2017, 32, 1693-1700.	2.6	4
52	Surface-interface microstructures and binding strength of cathodic arc ion plated TiCN coatings on YT14 cutting tools. Surface and Interface Analysis, 2017, 49, 488-494.	1.8	4
53	Effect of Laser Remelting Power on Immersion Corrosion of Amorphous Al-Ti-Ni Coatings. Coatings, 2018, 8, 46.	2.6	4
54	Effect of laser remelting on amorphous formation and electrochemical corrosion of laser thermal sprayed Al-Ti-Ni coating. Materials Research Express, 2019, 6, 086545.	1.6	4

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55	Corrosion wear and electrochemical corrosion behaviors of laser clad amorphous FeSiB coating in 3.5% NaCl solution. <i>Materials Research Express</i> , 2019, 6, 035203.	1.6	4
56	Effects of laser thermal sprayed AlNiCr coating on fatigue performances of S355 structural steel. <i>International Journal of Fatigue</i> , 2020, 131, 105359.	5.7	4
57	Microstructure and friction-wear performances of laser-cladded nano-CeO <sub>2</sub> -reinforced NiCoCrAlY coatings at high temperature. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2020, 234, 1695-1706.	2.4	4
58	Surface Characteristics and High-Temperature Wear of Plasma Nitrided Layer on Steel H13. <i>Metal Science and Heat Treatment</i> , 2020, 61, 717-723.	0.6	4
59	Effect of Laser-Clad NiCrAl-SiC Coatings on Friction-Wear Performance of AISI H13 Steel at High Temperature. <i>Journal of Materials Engineering and Performance</i> , 2022, 31, 3014-3029.	2.5	4
60	Effect of Y <sub>2</sub> O <sub>3</sub> mass fraction on electrochemical corrosion performances of laser clad CrNi coatings in 3.5% NaCl solution. <i>Anti-Corrosion Methods and Materials</i> , 2022, 69, 171-176.	1.5	4
61	The surface morphologies and spectroscopy analysis of VC coatings on the substrate of Cr12MoV prepared by TD process after salt spray. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 628-633.	1.0	3
62	Salt Spray Corrosion Resistance of Aluminized Coatings on X70 Pipeline Steel by Laser Thermal Radiation. <i>Rare Metal Materials and Engineering</i> , 2014, 43, 2083-2088.	0.8	3
63	Effects of anodic oxidation on corrosion properties of Al coating by arc spraying in seawater. <i>Surface and Interface Analysis</i> , 2015, 47, 911-918.	1.8	3
64	Microstructures and high-temperature wear performances of cathodic arc ion plating on YT14 cutting tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 2597-2605.	3.0	3
65	Effect of Extrusion Temperatures on Friction-wear Behavior of Chain-wheel Fabricated by 40Cr Steel under Oil-lubrication Condition. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2019, 34, 684-691.	1.0	3
66	Effects of Al mass fraction on corrosive wear and electrochemical corrosion of laser clad AlFeCoCr amorphous coating in 3.5 wt% NaCl solution. <i>Materials Research Express</i> , 2019, 6, 076552.	1.6	3
67	Microstructure, bonding strength, and friction-wear performance of AlCrN/nitrided layer composite coating on H13 hot work mould steel. <i>International Journal of Applied Ceramic Technology</i> , 2019, 16, 951-965.	2.1	3
68	Appraisal on corrosion performances of CrNi, TiAlN/CrNi and CrNi-Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> coatings on H13 hot work mold. <i>Anti-Corrosion Methods and Materials</i> , 2020, 67, 150-157.	1.5	3
69	Corrosive-wear and Electrochemical Performance of Laser Thermal Sprayed Co <sub>30</sub> Cr <sub>8</sub> W <sub>1.6</sub> C <sub>3</sub> Ni <sub>1.4</sub> Si Coating on Ti6Al4V Alloy. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2020, 35, 812-819.	1.0	3
70	Effects of Al <sub>2</sub> O <sub>3</sub> mass fraction on microstructure and friction-wear performance of laser clad Fe90 alloy coating. <i>Industrial Lubrication and Tribology</i> , 2021, 73, 1286-1293.	1.3	3
71	Microstructure, tribological performances, and wear mechanisms of laser-cladded TiC-reinforced NiMo coatings under grease-lubrication condition. <i>Materials Science-Poland</i> , 2021, 39, 395-409.	1.0	3
72	Surface-Interface Microstructures and Friction-Wear Performances of Thermal Sprayed FeCrBSi Coatings Obtained by High-Velocity Oxygen Fuel Process. <i>Powder Metallurgy and Metal Ceramics</i> , 2017, 56, 70-77.	0.8	2

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73	Effects of Laser Remelting on Salt Spray Corrosion Behaviors of Arc-Sprayed Al Coatings in 3.5% NaCl Sea Environment. Transactions of the Indian Institute of Metals, 2018, 71, 617-625.	1.5	2
74	Friction-Wear Performances of Cathodic Arc Ion Plated CrN Coating at Elevated Temperatures. Powder Metallurgy and Metal Ceramics, 2019, 58, 73-80.	0.8	2
75	Characteristics and Tribological Behaviors of TiAlN/Cr-Ni Composite Coatings at Elevated Temperatures. Journal of Materials Engineering and Performance, 2019, 28, 7075-7085.	2.5	2
76	Microstructure and High-Temperature Friction-Wear Properties of Laser-Cladded Cr-Ni-Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> Composite Coating. Transactions of the Indian Institute of Metals, 2019, 72, 2457-2463.	1.5	2
77	Salt spray corrosion and electrochemical corrosion characteristics of CAIP and LTPN fabricated AlCrN/NL composite coating. Materials Research Express, 2019, 6, 046413.	1.6	2
78	Effects of mass ratios on salt spray corrosion and electrochemical corrosion behaviors of laser cladded Cr-Ni coatings. Anti-Corrosion Methods and Materials, 2019, 66, 352-359.	1.5	2
79	Electrochemical corrosion performances of laser thermal sprayed amorphous Al-Ti-Ni coatings in marine environment. Anti-Corrosion Methods and Materials, 2020, 67, 140-149.	1.5	2
80	Effects on Al <sub>2</sub> O <sub>3</sub> and La <sub>2</sub> O <sub>3</sub> additions on electrochemical performances of laser-cladded WC <sub>10</sub> Co <sub>4</sub> Cr coatings. International Journal of Applied Ceramic Technology, 2022, 19, 436-450.	2.1	2
81	Effects of Reciprocating Speed on Corrosive Wear Behavior of Cold-Sprayed Al Coating on Offshore Platforms. Physics of Metals and Metallography, 2020, 121, 1288-1294.	1.0	2
82	Salt spray corrosion behavior and electrochemical performance of Al and Ti reinforced Ni60 coating by laser cladding. Materials and Corrosion - Werkstoffe Und Korrosion, 2022, 73, 1045-1056.	1.5	2
83	Effects of La <sub>2</sub> O <sub>3</sub> mass fraction on microstructure and friction-wear performances of WC <sub>10</sub> Co <sub>4</sub> Cr-Al <sub>2</sub> O <sub>3</sub> coatings by laser cladding. Journal of the Australian Ceramic Society, 2022, 58, 2663-674.	2.0	2
84	Friction and wear performances of cathodic arc ion plated TiAlSiN coating under oil lubricated condition. Journal Wuhan University of Technology, Materials Science Edition, 2017, 32, 1301-1305.	1.0	1
85	Atomic force microscopy analysis of cathodic arc ion-plated CrN and CrC coatings. Journal of Coatings Technology Research, 2018, 15, 781-787.	2.5	1
86	Characterization and friction-wear behaviors of laser thermal sprayed CoCrAlYTaSi coatings at elevated temperatures. Materials Research Express, 2019, 6, 106515.	1.6	1
87	Effects of loads on friction-wear properties of HVOF sprayed FeCrBSi coating at elevated temperatures. Materials Research Express, 2019, 6, 096592.	1.6	1
88	Friction-Wear Characterization of Cathodic Arc Ion Plated CrC Coating under Different Lubrication Conditions. Journal of Superhard Materials, 2019, 41, 402-411.	1.2	1
89	Microstructure and Friction-Wear Performance of Laser Cladded Cu <sub>10</sub> Al-Ti-MoS <sub>2</sub> Coatings Under Oil Lubrication Condition. Transactions of the Indian Institute of Metals, 0, , 1.	1.5	1
90	Effect of La <sub>2</sub> O <sub>3</sub> Addition on Microstructure and Tribological Performance of Laser Cladded Ni-WC Coating on S136 Steel. Transactions of the Indian Institute of Metals, 2022, 75, 1843-1852.	1.5	1

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91	Immersion corrosion behavior and electrochemical performance of laser cladded Ni60â€“CeO<sub>2</sub> coatings in 5% NaCl solution. Corrosion Reviews, 2022, 40, 263-273.	2.0	1
92	Surface-interface micro-structures and mechanical properties of chemical vapor deposited diamond films. Journal of Materials Research, 2016, 31, 2906-2915.	2.6	0
93	Effects of warm extrusion temperatures on corrosion performance of 40Cr steel. Corrosion Engineering Science and Technology, 2018, 53, 481-486.	1.4	0
94	Microstructure, bonding strength and tribological characterization of Dacromet fabricated Znâ€“Al coating. Materials Research Express, 2018, 5, 106402.	1.6	0
95	Effects of laser power on corrosion behaviors of laser thermal sprayed Alâ€“Tiâ€“Ni amorphous coatings in H<sub>2</sub>SO<sub>4</sub> and NaOH solutions. Materials Research Express, 2019, 6, 065203.	1.6	0
96	Effects of laser power on frictionâ€“wear behaviors of NiCoCrAlY coatings at high temperature. Materials Research Express, 2019, 6, 1265a2.	1.6	0
97	Effect of CeO2 addition on microstructure and tribological characteristics of laser cladded Cu10Alâ€“MoS2 coating under oil lubrication. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2021, 235, 2441-2453.	1.1	0
98	High-temperature tribological behaviours of H13 hot work mould steel by low-temperature plasma nitriding process. Canadian Metallurgical Quarterly, 0, , 1-13.	1.2	0
99	Microstructure and Tribological Performances of Laser Cladded Niâ€“Moâ€“Cr3C2 Coatings Under Grease-Lubrication Condition. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 0, , .	2.2	0