

Shenglong

List of Publications by Year in descending order

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96
papers

2,524
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159585

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96
all docs

96
docs citations

96
times ranked

1018
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of nitrogen on high temperature oxidation behavior of AlN-doped gradient coating. Corrosion Science, 2022, 199, 110155.	6.6	5
2	Effect of Al and Cr on the oxidation behavior of nanocrystalline coatings at 1050 Å°C. Corrosion Science, 2022, 200, 110191.	6.6	14
3	Enamel coating for protection of the 316 stainless steel against tribo-corrosion in molten zinc alloy at 460 Å°C. Journal of Materials Science and Technology, 2021, 65, 126-136.	10.7	11
4	Improving oxidation resistance of Î³-TiAl based alloy by depositing TiAlSiN coating: Effects of silicon. Corrosion Science, 2021, 179, 109151.	6.6	27
5	Oxidation behavior of a nanocrystalline coating with low Ta content at high temperature. Corrosion Science, 2021, 180, 109182.	6.6	25
6	Oxidation mechanism of Ni+CrAlYNO nanocomposite coating enhanced by a NiCrAlY buffer layer. Corrosion Science, 2021, 180, 109184.	6.6	10
7	Effect of Î³-Phase Elements on Oxidation Behavior of Nanocrystalline Coatings at 1050 Å°C. Materials, 2021, 14, 202.	2.9	6
8	High vacuum arc ion plating Cr films: Self-ion bombarding effect and oxidation behavior. Corrosion Science, 2021, 187, 109476.	6.6	12
9	Improved oxidation resistance of Î³-TiAl intermetallics by sputtered Ni+CrAlYHfSiN composite coating. Corrosion Science, 2021, 187, 109510.	6.6	16
10	Corrosion of the WC-12Co and enamel coatings in liquid Zn-55Al alloy at 640 Å°C. Corrosion Science, 2021, 188, 109559.	6.6	3
11	Improving the oxidation behavior of low expansion Ni + CrAlYNO coating systems by regulating the oxygen content. Corrosion Science, 2021, 189, 109582.	6.6	1
12	Thermal shock and self-healing behavior of the enamel composite coatings with addition of various nanoparticles at temperatures of 700 and 800 Å°C. Corrosion Science, 2021, 191, 109747.	6.6	12
13	Temporary enamel coatings for oxidation protection of Ti-6Al-4V at its hot working temperature of 1200 Å°C. Journal of Alloys and Compounds, 2020, 815, 152295.	5.5	7
14	Effect of nitrogen content on the phase transformation of alumina scale on a nanocrystalline NiCrAlYSiHfN/AlN multilayer coating. Corrosion Science, 2020, 165, 108396.	6.6	12
15	Oxidation and corrosion protection of ZG12Cr9Mo1Co1NiVNbNB (CB2) ferritic stainless steel by inorganic composite coatings at 650 Å°C. Corrosion Science, 2020, 177, 109000.	6.6	9
16	Thermal shock and sulfuric acid corrosion behavior of enamel-nano-Ni composite/enamel-nano-nickel composite coating. International Journal of Applied Glass Science, 2020, 11, 784-795.	2.0	3
17	Effects of oxygen incorporation in low expansion Ni+CrAlYN nanocomposite coatings on the oxidation behavior. Corrosion Science, 2020, 167, 108550.	6.6	6
18	Oxidation behavior of Al/Y co-modified nanocrystalline coatings with different Al content on a nickel-based single-crystal superalloy. Corrosion Science, 2020, 170, 108700.	6.6	23

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19	Crystallization and wear behavior of SiO ₂ -Al ₂ O ₃ -ZrO ₂ -Ba(Sr, Ca)O glass-ceramics added with Cr ₂ O ₃ by different methods. <i>Ceramics International</i> , 2019, 45, 22617-22624.	4.8	10
20	Low inter-diffusivity $\hat{\Gamma}^3$ -base bondcoats for single crystal superalloy Ren $\hat{\Gamma}$ N5. $\hat{\Gamma}$...: Cyclic oxidation behavior at 1100 $\hat{\Gamma}$ C. <i>Corrosion Science</i> , 2019, 159, 108127.	6.6	9
21	Effect of Ti on the microstructure change and oxidation behavior of Ni+CrAlYHfSiN composite coatings. <i>Corrosion Science</i> , 2019, 150, 54-63.	6.6	5
22	Preparation and Oxidation Performance of a NiCoCrAlYSiHf $\hat{\Gamma}$ + $\hat{\Gamma}$ NiAl Composite Coating Deposited by Arc Ion Plating and Magnetron Sputtering Techniques. <i>Journal of Materials Engineering and Performance</i> , 2019, 28, 1019-1029.	2.5	7
23	Oxidation mechanism of a nanocrystalline NiCrAlYSiHfN/AlN multilayer coating. <i>Corrosion Science</i> , 2019, 156, 71-83.	6.6	10
24	Corrosion of SiO ₂ $\hat{\Gamma}$ B ₂ O ₃ $\hat{\Gamma}$ Al ₂ O ₃ $\hat{\Gamma}$ CaF ₂ -R ₂ O (R=Na and K) enamels with different content of ZrO ₂ in H ₂ SO ₄ and NaOH solutions. <i>Ceramics International</i> , 2019, 45, 14958-14967.	4.8	10
25	Benefits of Zr addition to oxidation resistance of a single-phase (Ni,Pt)Al coating at 1373 $\hat{\Gamma}$ K. <i>Journal of Materials Science and Technology</i> , 2019, 35, 1334-1344.	10.7	44
26	Breakaway oxidation of a low-Al content nanocrystalline coating at 1000 $\hat{\Gamma}$ C. <i>Surface and Coatings Technology</i> , 2019, 358, 958-967.	4.8	16
27	Corrosion of enamel with and without CaF ₂ in molten aluminum at 750 $\hat{\Gamma}$ C. <i>Corrosion Science</i> , 2019, 148, 228-236.	6.6	17
28	Isothermal oxidation behavior and microstructure change of a gradient low-expansion coating for superalloys. <i>Corrosion Science</i> , 2019, 147, 182-191.	6.6	11
29	Low inter-diffusivity $\hat{\Gamma}^3$ -base bondcoats for single crystal superalloy Ren $\hat{\Gamma}$ N5. I: Primary study of microstructures and oxidation behaviors at 1100 $\hat{\Gamma}$ C. <i>Corrosion Science</i> , 2019, 147, 299-312.	6.6	14
30	Stoichiometry and tribological behavior of thick Ta(N) coatings produced by direct current magnetron sputtering (DCMS). <i>Applied Surface Science</i> , 2018, 427, 1071-1079.	6.1	18
31	Ru-induced microstructural change in ion-plated TiN coating and its tribological properties. <i>Surface and Coatings Technology</i> , 2018, 354, 175-183.	4.8	19
32	Oxidation behavior of a glass-based composite coating with a low expansion cermet bond-coat and an AlN diffusion barrier on K417G superalloy. <i>Corrosion Science</i> , 2018, 145, 283-294.	6.6	10
33	Cyclic oxidation behavior of a multilayer composite coating for single-crystal superalloys. <i>Corrosion Science</i> , 2018, 145, 26-34.	6.6	15
34	Self-ion bombarded Cr films: Crystallographic orientation and oxidation behaviour. <i>Corrosion Science</i> , 2018, 143, 212-220.	6.6	17
35	Nanocrystalline, Enamel and Composite Coatings for Superalloys. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2018, , 160-186.	0.3	1
36	A magnetron sputtered microcrystalline $\hat{\Gamma}^2$ -NiAl coating for SC superalloys. Part II. Effects of a NiCrO diffusion barrier on oxidation behavior at 1100 $\hat{\Gamma}$ C. <i>Applied Surface Science</i> , 2017, 407, 485-494.	6.1	37

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37	Hot corrosion of arc ion plating NiCrAlY and sputtered nanocrystalline coatings on a nickel-based single-crystal superalloy. <i>Corrosion Science</i> , 2017, 123, 27-39.	6.6	64
38	Interfacial microstructure evolution of glass-based coating on IC10 superalloy with a Ni ₃ Al bond-coat at 1050°C. <i>Journal of the American Ceramic Society</i> , 2017, 100, 3451-3466.	3.8	3
39	Oxidation behavior of NiCrAlY coatings prepared by arc ion plating using various substrate biases: Effects of chemical composition and thickness of the coatings. <i>Corrosion Science</i> , 2017, 126, 317-323.	6.6	38
40	Diffusion of Ta and its influence on oxidation behavior of nanocrystalline coatings with different Ta, Y and Al contents. <i>Corrosion Science</i> , 2017, 126, 344-355.	6.6	43
41	Effect of YSZ-incorporated glass-based composite coating on oxidation behavior of K438G superalloy at 1000°C. <i>Journal of the European Ceramic Society</i> , 2017, 37, 1013-1022.	5.7	10
42	High vacuum arc ion plating TiAl coatings for protecting titanium alloy against oxidation at medium high temperatures. <i>Corrosion Science</i> , 2016, 112, 36-43.	6.6	26
43	Synthesis of advanced aluminide intermetallic coatings by low-energy Al-ion radiation. <i>Scientific Reports</i> , 2016, 6, 26535.	3.3	5
44	Effects of surface finish of single crystal superalloy substrate on cyclic thermal oxidation of its nanocrystalline coating. <i>Corrosion Science</i> , 2016, 111, 313-324.	6.6	26
45	TEM study of the evolution of sputtered Ni+CrAlYSiHfN nanocomposite coating with an AlN diffusion barrier at high temperature. <i>Surface and Coatings Technology</i> , 2016, 286, 262-267.	4.8	15
46	Microstructure and oxidation behavior of a Ni+CrAlYSiHfN/AlN multilayer coating fabricated by reactive magnetron sputtering. <i>Corrosion Science</i> , 2016, 104, 197-206.	6.6	18
47	The effect of yttrium addition on oxidation of a sputtered nanocrystalline coating with moderate amount of tantalum in composition. <i>Applied Surface Science</i> , 2016, 366, 245-253.	6.1	44
48	A duplex nanocrystalline coating for high-temperature applications on single-crystal superalloy. <i>Corrosion Science</i> , 2016, 102, 72-83.	6.6	27
49	Effect of sand blasting on oxidation behavior of K38G superalloy at 1000°C. <i>Corrosion Science</i> , 2015, 92, 256-262.	6.6	21
50	High vacuum arc ion plating NiCrAlY coatings: Microstructure and oxidation behavior. <i>Corrosion Science</i> , 2015, 94, 294-304.	6.6	71
51	Microstructure stabilization of a novel glass/YSZ composite coating material by adding alumina particles. <i>Ceramics International</i> , 2015, 41, 9753-9762.	4.8	11
52	Spontaneous reaction formation of Cr ₂₃ C ₆ diffusion barrier layer between nanocrystalline MCrAlY coating and Ni-base superalloy at high temperature. <i>Corrosion Science</i> , 2015, 99, 219-226.	6.6	24
53	Influences of MCrAlY coatings on oxidation resistance of single crystal superalloy DD98M and their inter-diffusion behaviors. <i>Journal of Alloys and Compounds</i> , 2015, 649, 515-530.	5.5	55
54	Comparative study of oxidation and interdiffusion behavior of AIP NiCrAlY and sputtered nanocrystalline coatings on a nickel-based single-crystal superalloy. <i>Corrosion Science</i> , 2015, 98, 530-540.	6.6	70

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55	Oxidation behavior of glass-based composite thermal barrier coating on K417G superalloy with a NiCoCrAlY bond coat at 1000°C. Surface and Coatings Technology, 2015, 270, 314-323.	4.8	11
56	Yttria partially stabilised zirconia as diffusion barrier between NiCrAlY and Ni-base single crystal Renâ© N5 superalloy. Corrosion Science, 2015, 94, 122-128.	6.6	49
57	Ta effect on oxidation of a nickel-based single-crystal superalloy and its sputtered nanocrystalline coating at 900-1100 °C. Applied Surface Science, 2015, 345, 194-203.	6.1	64
58	High temperature oxidation of NiCrAlY, nanocrystalline and enamel-metal nano-composite coatings under thermal shock. Corrosion Science, 2015, 100, 556-565.	6.6	31
59	Microstructural stability of AlN diffusion barrier for nanocomposite Ni + CrAlYSiHfN coating on single crystal superalloy at high temperatures. Applied Surface Science, 2015, 359, 420-425.	6.1	13
60	High vacuum arc ion plating NiCrAlY coatings: Bias effect and approach to preparation of functional gradient coatings. Surface and Coatings Technology, 2015, 281, 44-50.	4.8	24
61	Characterization and Oxidation Behavior of a Sputtered Nanocomposite Ni+CrAlYSiHfN Coating. Corrosion, 2015, 71, 523-535.	1.1	16
62	A magnetron sputtered microcrystalline Î²-NiAl coating for SC superalloys. Part I. Characterization and comparison of isothermal oxidation behavior at 1100°C with a NiCrAlY coating. Applied Surface Science, 2015, 324, 1-12.	6.1	38
63	Development of an oxidation resistant glass-ceramic composite coating on Ti-47Al-2Cr-2Nb alloy. Applied Surface Science, 2014, 292, 583-590.	6.1	26
64	Microstructure and oxidation behavior of a SiC-Al ₂ O ₃ -glass composite coating on Ti-47Al-2Cr-2Nb alloy. Corrosion Science, 2014, 87, 179-186.	6.6	34
65	Glass coatings on stainless steels for high-temperature oxidation protection: Mechanisms. Corrosion Science, 2014, 82, 316-327.	6.6	57
66	Influence of Sputtered Nanocrystalline Coating on Oxidation and Hot Corrosion of a Nickel-based Superalloy M951. Journal of Materials Science and Technology, 2014, 30, 867-877.	10.7	42
67	Comparison of the cyclic oxidation behavior of a low expansion Ni+CrAlYSiN nanocomposite and a NiCrAlYSi coating. Corrosion Science, 2014, 80, 393-401.	6.6	30
68	Thermophysical Properties of Alumina Particle Reinforced Glass Matrix Composites. International Journal of Applied Ceramic Technology, 2013, 10, 224-233.	2.1	18
69	Glass-ceramic coatings on titanium alloys for high temperature oxidation protection: Oxidation kinetics and microstructure. Corrosion Science, 2013, 74, 178-186.	6.6	59
70	Interfacial reactions between a SiO ₂ Al ₂ O ₃ ZnOCaO based glass and alpha alumina. Surface and Coatings Technology, 2013, 232, 6-12.	4.8	13
71	Strengthening mechanisms and fracture surface characteristics of silicate glass matrix composites with inclusion of alumina particles of different particle sizes. Physica B: Condensed Matter, 2013, 413, 15-20.	2.7	21
72	SiO ₂ -Al ₂ O ₃ -glass composite coating on Ti-6Al-4V alloy: Oxidation and interfacial reaction behavior. Corrosion Science, 2013, 74, 367-378.	6.6	71

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73	Hot corrosion behaviour of a Ni+CrAlYSiN composite coating in Na ₂ SO ₄ +25wt.% NaCl melt. Applied Surface Science, 2013, 268, 103-110.	6.1	42
74	Comparative study of interfacial reaction between superalloy substrate and glass coating with and without alumina particles incorporation. Applied Surface Science, 2013, 271, 228-233.	6.1	21
75	Effect of sand blasting and glass matrix composite coating on oxidation resistance of a nickel-based superalloy at 1000 Å°C. Corrosion Science, 2013, 73, 331-341.	6.6	36
76	Phase Evolution of SiO ₂ –Al ₂ O ₃ Glass with Added PSZ Particles. Journal of the American Ceramic Society, 2013, 96, 1456-1463.	3.8	15
77	Oxidation and Thermal Shock Behavior of a Glass-Alumina Composite Coating on K38G Superalloy at 1000 Å°C. Journal of Materials Science and Technology, 2012, 28, 433-438.	10.7	21
78	The scaling behavior of sputtered Ni ₃ Al coatings with and without Pt modification. Corrosion Science, 2012, 58, 115-120.	6.6	25
79	Preparation and oxidation behaviour of nanocrystalline Ni+CrAlYSiN composite coating with AlN diffusion barrier on Ni-based superalloy K417. Corrosion Science, 2012, 60, 265-274.	6.6	54
80	Preparation and thermal shock behavior at 1000Å°C of a glass-alumina-NiCrAlY tri-composite coating on K38G superalloy. Surface and Coatings Technology, 2012, 206, 2566-2571.	4.8	25
81	Glass–alumina composite coatings for high temperature corrosion protection. Part I: Effect of crystallization and interfacial reaction on the thermo-physical properties. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 3186-3192.	5.6	19
82	Effect of NiCrAlY platelets inclusion on the mechanical and thermal shock properties of glass matrix composites. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 1360-1366.	5.6	27
83	High temperature corrosion behavior of an AlP NiCoCrAlY coating modified by aluminizing. Surface and Coatings Technology, 2011, 205, 5053-5058.	4.8	39
84	Cyclic oxidation behavior of glass–ceramic composite coatings on superalloy K38G at 1100Å°C. Thin Solid Films, 2011, 519, 4884-4888.	1.8	16
85	Crystallization Behavior of SiO ₂ –Al ₂ O ₃ –ZnO–CaO Glass System at 1123–1273 K. Journal of the American Ceramic Society, 2010, 93, 3230-3235.	3.8	34
86	Effect of vitreous enamel coating on the oxidation behavior of Ti6Al4V and TiAl alloys at high temperatures. Journal of Coatings Technology Research, 2008, 5, 93-98.	2.5	22
87	Electronic Structure of Monomeric Water Adsorption on Ni{111}: Beyond the General Model. Journal of Physical Chemistry C, 2008, 112, 8301-8303.	3.1	11
88	Synergistic corrosion behavior of coated Ti60 alloys with NaCl deposit in moist air at elevated temperature. Corrosion Science, 2008, 50, 15-22.	6.6	46
89	Amorphous sol–gel SiO ₂ film for protection of Ti6Al4V alloy against high temperature oxidation. Surface and Coatings Technology, 2007, 201, 5967-5972.	4.8	42
90	The effect of yttrium addition on the isothermal oxidation behavior of sputtered K38 nanocrystalline coating at 1273ÅK in air. Surface and Coatings Technology, 2007, 201, 7425-7431.	4.8	27

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91	Oxidation and hot corrosion behavior of a novel enamel-Al ₂ O ₃ composite coating on K38G superalloy. Surface and Coatings Technology, 2006, 200, 5931-5936.	4.8	53
92	The oxidation behavior and mechanical performance of Ti60 alloy with enamel coating. Surface and Coatings Technology, 2005, 190, 195-199.	4.8	67
93	Influence of columnar microstructure of a sputtered NiAl coating on its oxidation behavior at 1000°C. Intermetallics, 2002, 10, 467-471.	3.9	46
94	The mechanism of scale adhesion on sputtered microcrystallized CoCrAl films. Oxidation of Metals, 1996, 45, 39-50.	2.1	63
95	Reactive sputter deposition of alumina films on superalloys and their high-temperature corrosion resistance. Surface and Coatings Technology, 1995, 71, 9-15.	4.8	68
96	Rehealing ability of oxide scales formed on microcrystalline K38G coatings. Oxidation of Metals, 1995, 43, 317-328.	2.1	45