Sheng-Kai Gong

List of Publications by Year
in descending order

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149 papers	6,836 citations	76326 40 h-index	66911 78 g-index
150 all docs	150 docs citations	150 times ranked	4615 citing authors

#	Article	IF	Citations
1	Cyclic oxidation behavior of Ni3Al-based single crystal alloy IC21. Rare Metals, 2023, 42, 1656-1662.	7.1	5
2	Design for 1200ÂÂ°C creep properties of Ni-based single crystal superalloys: Effect of Î³â€²-forming elements and its microscopic mechanism. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 832, 142494.	5.6	11
3	Coating-related deterioration mechanism of creep performance at a thermal exposed single crystal Ni-base superalloy. Materials Characterization, 2022, 187, 111839.	4.4	6
4	Microstructure stability of Î³â€²Â+ÂÎ² Niâ€“Al coated single-crystal superalloy N5 annealed at 1100ÂÂ°C. Rare Metals, 2021, 40, 693-700.	7.1	7
5	Thermal cycling performance of La2Ce2O7/YSZ TBCs with Pt/Dy co-doped NiAl bond coat on single crystal superalloy. Rare Metals, 2021, 40, 2568-2578.	7.1	7
6	Partitioning behavior and lattice misfit of Î³/Î³â€² phases in Ni-based superalloys with different Mo additions. Rare Metals, 2021, 40, 920-927.	7.1	16
7	Directional solidification behavior of turbine blades in DZ125 alloy: design of blade numbers on assembly. Rare Metals, 2021, 40, 1134-1144.	7.1	1
8	The mechanism of thermal corrosion fatigue (TCF) on nickel-based single crystal superalloy and the corresponding structure shape effect. Corrosion Science, 2021, 179, 109142.	6.6	9
9	Coating-assisted deterioration mechanism of creep resistance at a nickel-based single-crystal superalloy. Surface and Coatings Technology, 2021, 406, 126668.	4.8	15
10	Study on abnormal hot corrosion behavior of nickel-based single-crystal superalloy at 900â€‰Â°C after drilling. Npj Materials Degradation, 2021, 5, .	5.8	2
11	Coating-associated microstructure evolution and elemental interdiffusion behavior at a Mo-rich nickel-based superalloy. Surface and Coatings Technology, 2021, 411, 127005.	4.8	12
12	Topologically inverse microstructure in single-crystal superalloys: microstructural stability and properties at ultrahigh temperature. Materials Research Letters, 2021, 9, 497-506.	8.7	21
13	Effects of Different Surface Native Pre-Oxides on the Hot Corrosion Properties of Nickel-Based Single Crystal Superalloys. Materials, 2020, 13, 5774.	2.9	5
14	A novel CMASâ€resistant material based on thermodynamic equilibrium design: Apatiteâ€type Gd₁₀(SiO₄)₆O₃. Journal of the American Ceramic Society, 2020, 103, 3401-3415.	3.8	19
15	Design for anomalous yield in Î³â€²-strengthening superalloys. Materials and Design, 2019, 183, 108082.	7.0	13
16	In Situ Creep Behavior Characterization of Single Crystal Superalloy by UV-DIC at 980 Â°C. Coatings, 2019, 9, 598.	2.6	3
17	High-temperature oxidation resistance of Si-coated C/SiC composites. Rare Metals, 2019, , 1.	7.1	0
18	Substituting Mo for Re in equal weight for Ni based single crystal superalloy. Materialia, 2019, 6, 100278.	2.7	14

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19	Effects of Alloyed Aluminum and Tantalum on the Topological Inversion Behavior of Niâ€Based Single Crystal Superalloys at High Temperature. Advanced Engineering Materials, 2019, 21, 1800793.	3.5	4
20	Effect of trace Ce on high-temperature oxidation behavior of an Alâ€“Si-coated Ni-based single crystal superalloy. Journal of Iron and Steel Research International, 2019, 26, 78-83.	2.8	6
21	High temperature tensile behavior of a thin-walled Ni based single-crystal superalloy with cooling hole: In-situ experiment and finite element calculation. Journal of Alloys and Compounds, 2019, 782, 619-631.	5.5	37
22	Effect of applied stress on Î³â€™-rafting behavior in a Ni-based single-crystal superalloy: experiments and finite element analysis. Journal of Iron and Steel Research International, 2019, 26, 259-267.	2.8	7
23	New type of Î³â€² phase in Ni based single crystal superalloys: Its formation mechanism and strengthening effect. Materials and Design, 2018, 145, 181-195.	7.0	13
24	Effects of melt-pool geometry on microstructure structural damage behavior for single crystal superalloys in rapid solidification process. International Journal of Fatigue, 2018, 111, 345-355.	5.7	3
25	Improved 1200 Â°C stress rupture property of single crystal superalloys by Î³â€²-forming elements addition. Scripta Materialia, 2018, 147, 21-26.	5.2	31
26	Microstructure and creep properties of Ni-based single-crystal superalloys with Mo/Al addition at 760ÂÂ°C/850ÂMPa. Rare Metals, 2018, , 1.	7.1	2
27	Influence of temperature on the lattice misfit and elastic moduli of a Ni based single crystal superalloy with high volume fraction of Î³â€² phase. Materials Characterization, 2018, 142, 27-38.	4.4	22
28	Evolutions of microstructure and lattice misfit in a Î³â€²-rich Ni-based superalloy during ultra-high temperature thermal cycle. Intermetallics, 2018, 99, 18-26.	3.9	23
29	Investigations into the Surface Strain/Stress State in a Single-Crystal Superalloy via XRD Characterization. Metals, 2018, 8, 376.	2.3	3
30	Improved mechanical properties of Ni-rich Ni3Al coatings produced by EB-PVD for repairing single crystal blades. Rare Metals, 2017, 36, 556-561.	7.1	7
31	Effect of substrate orientations on microstructure evolution and stability for single crystal superalloys in rapid solidification process. Materials and Design, 2017, 128, 218-230.	7.0	18
32	Effect of thermal stability of Î³â€² phase on the recrystallization behaviors of Ni-based single crystal superalloys. Materials and Design, 2017, 130, 69-82.	7.0	29
33	Influence of Yb 3+ doping on phase stability and thermophysical properties of (Y 1-x Yb x) 3 Al 5 O 12 under high temperature. Ceramics International, 2017, 43, 7153-7158.	4.8	17
34	Synergistic effect of reactive element co-doping in two-phase (Î³â€™ + Î²) Ni-Al alloys. Corrosion Science, 2017, 120, 130-138.	6.6	36
35	Influence of stress and secondary orientation on the oxidation-induced dynamic recrystallization behavior of a Ni-based single crystal superalloy. Journal of Alloys and Compounds, 2017, 706, 455-460.	5.5	17
36	Deposition of TiN/TiAlN multilayers by plasma-activated EB-PVD: tailored microstructure by jumping beam technology. Rare Metals, 2017, 36, 651-658.	7.1	8

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37	Simultaneously enhancing the power factor and reducing the thermal conductivity of SnTe via introducing its analogues. Energy and Environmental Science, 2017, 10, 2420-2431.	30.8	116
38	Role of volatilization of molybdenum oxides during the cyclic oxidation of high-Mo containing Ni-based single crystal superalloys. Corrosion Science, 2017, 129, 192-204.	6.6	50
39	Influence of solidification history on precipitation behavior of TCP phase in a completely heat-treated Ni3Al based single crystal superalloy during thermal exposure. Journal of Alloys and Compounds, 2017, 722, 740-745.	5.5	22
40	Integrating Band Structure Engineering with Allâ€šscale Hierarchical Structuring for High Thermoelectric Performance in PbTe System. Advanced Energy Materials, 2017, 7, 1601450.	19.5	157
41	Multiple Converged Conduction Bands in K₂Bi₈Se₁₃: A Promising Thermoelectric Material with Extremely Low Thermal Conductivity. Journal of the American Chemical Society, 2016, 138, 16364-16371.	13.7	130
42	Raising thermoelectric performance of n-type SnSe via Br doping and Pb alloying. RSC Advances, 2016, 6, 98216-98220.	3.6	107
43	Origin of low thermal conductivity in SnSe. Physical Review B, 2016, 94, .	3.2	287
44	Dislocation network with pair-coupling structure in {111} Î³/Î³â€² interface of Ni-based single crystal superalloy. Scientific Reports, 2016, 6, 29941.	3.3	26
45	Oxidation behaviour of electron beam physical vapour deposition Î²-NiAlHf coatings at 1100ÂÂ°C in dry and humid atmospheres. Rare Metals, 2016, 35, 513-519.	7.1	13
46	Microstructure and cyclic oxidation behaviour of low-Pt/Dy co-doped Î²-NiAl coatings on single crystal (SC) superalloy. Surface and Coatings Technology, 2016, 304, 108-116.	4.8	16
47	Fabrication of WCp/NiBSi metal matrix composite by electron beam melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 666, 320-323.	5.6	28
48	Existence patterns of Dy in Î²-NiAl from first-principles calculations. Rare Metals, 2016, 35, 356-360.	7.1	2
49	Cyclic oxidation behavior of Cr-/Si-modified NiAlHf coatings on single-crystal superalloy produced by EB-PVD. Rare Metals, 2016, 35, 396-400.	7.1	6
50	Effect of withdrawal rate on the microsegregation, thermophysical properties and spatial orientation of a Ni3Al based single crystal superalloy. Journal of Alloys and Compounds, 2016, 660, 159-165.	5.5	14
51	Enhanced Thermoelectric Properties in the Counter-Doped SnTe System with Strained Endotaxial SrTe. Journal of the American Chemical Society, 2016, 138, 2366-2373.	13.7	269
52	Deposition mechanisms of yttria-stabilized zirconia coatings during plasma spray physical vapor deposition. Ceramics International, 2016, 42, 5530-5536.	4.8	58
53	Thermoelectric transport properties of AgmPb100BimSe100+2m system. Journal of Materials Science: Materials in Electronics, 2016, 27, 2712-2717.	2.2	8
54	Ultrahigh power factor and thermoelectric performance in hole-doped single-crystal SnSe. Science, 2016, 351, 141-144.	12.6	1,594

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55	Hot-corrosion behavior of a La2Ce2O7/YSZ thermal barrier coating exposed to Na2SO4+V2O5 or V2O5 salt at 900Â°C. Ceramics International, 2015, 41, 6604-6609.	4.8	47
56	Microstructures of Yttria-Stabilized Zirconia Coatings by Plasma Spray-Physical Vapor Deposition. Journal of Thermal Spray Technology, 2015, 24, 534-541.	3.1	65
57	The role of Dy and Hf doping on oxidation behavior of two-phase (Î³â€² + Î²) Niâ€“Al alloys. Corrosion Science, 2015, 98, 699-707.	6.6	53
58	Influence of withdrawal rate on last stage solidification path of a Mo-rich Ni3Al based single crystal superalloy. Journal of Alloys and Compounds, 2015, 623, 362-366.	5.5	14
59	Structural evolution and thermal conductivities of (Gd1â^'xYbx)2Zr2O7 (x=0, 0.02, 0.04, 0.06, 0.08, 0.1) ceramics for thermal barrier coatings. Ceramics International, 2015, 41, 12621-12625.	4.8	53
60	Oxidation and microstructure evolution of Alâ€“Si coated Ni3Al based single crystal superalloy with high Mo content. Applied Surface Science, 2015, 325, 20-26.	6.1	30
61	Deposition of TiN by plasma activated EB-PVD: Activation by thermal electron emission from molten niobium. Surface and Coatings Technology, 2015, 276, 645-648.	4.8	8
62	Synergistically optimized electrical and thermal transport properties of SnTe via alloying high-solubility MnTe. Energy and Environmental Science, 2015, 8, 3298-3312.	30.8	268
63	Sub-micron Coâ€“Al2O3 composite powders prepared by room-temperature ultrasonic-assisted electroless plating. Rare Metals, 2015, , 1.	7.1	1
64	Effect of different B contents on the mechanical properties and cyclic oxidation behaviour of Î²-NiAlDy coatings. Journal of Alloys and Compounds, 2015, 623, 83-88.	5.5	13
65	High-temperature oxidation behavior of Î²-NiAl with various reactive element dopants in dry and humid atmospheres. Corrosion Science, 2014, 83, 335-342.	6.6	40
66	Effect of withdrawal rate on microstructure and lattice misfit of a Ni3Al based single crystal superalloy. Journal of Alloys and Compounds, 2014, 592, 164-169.	5.5	25
67	Hot Corrosion Behavior of a Ni3Al-Based IC21 Alloy in a Molten Salt Environment. Oxidation of Metals, 2014, 81, 631-644.	2.1	4
68	Plasma-sprayed La2Ce2O7 thermal barrier coatings against calciumâ€“magnesiumâ€“aluminaâ€“silicate penetration. Journal of the European Ceramic Society, 2014, 34, 2553-2561.	5.7	103
69	Thermophysical properties of Yb2O3 doped Gd2Zr2O7 and thermal cycling durability of (Gd0.9Yb0.1)2Zr2O7/YSZ thermal barrier coatings. Journal of the European Ceramic Society, 2014, 34, 1255-1263.	5.7	113
70	Thermal cycling behavior of (Gd0.9Yb0.1)2Zr2O7/8YSZ gradient thermal barrier coatings deposited on Hf-doped NiAl bond coat by EB-PVD. Surface and Coatings Technology, 2014, 258, 950-955.	4.8	31
71	Cyclic oxidation and interdiffusion behavior of Pt modified NiAlHfCrSi coatings on single crystal superalloy containing Mo. Surface and Coatings Technology, 2014, 259, 426-433.	4.8	13
72	Effect of co-doping of two reactive elements on alumina scale growth of Î²-NiAl at 1200Â°C. Corrosion Science, 2014, 88, 197-208.	6.6	83

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73	Improved hot-corrosion resistance of Si/Cr co-doped NiAlDy alloy in simulative sea-based engine environment. Corrosion Science, 2014, 85, 232-240.	6.6	16
74	Isothermal Oxidation Behavior of Dysprosium/S-Doped Î²-NiAl Alloys at 1200ÂÂ°C. Journal of Materials Science and Technology, 2014, 30, 229-233.	10.7	7
75	High-temperature oxidation behavior of minor Hf doped NiAl alloy in dry and humid atmospheres. Corrosion Science, 2013, 75, 337-344.	6.6	48
76	Phase stability, microstructural and thermo-physical properties of BaLn 2 Ti 3 O 10 (Ln=Nd and Sm) ceramics. Ceramics International, 2013, 39, 6743-6749.	4.8	16
77	Microstructural, mechanical and oxidation features of NiCoCrAlY coating produced by plasma activated EB-PVD. Applied Surface Science, 2013, 274, 144-150.	6.1	49
78	The role of Cr and Si in affecting high-temperature oxidation behaviour of minor Dy doped NiAl alloys. Corrosion Science, 2013, 77, 322-333.	6.6	36
79	Improved alumina scale adhesion of electron beam physical vapor deposited Dy/Hf-doped Î²-NiAl coatings. Applied Surface Science, 2013, 283, 513-520.	6.1	33
80	The ordering degree and thermal conductivity in the pyrochlore-type composition systems with a constant cation radius ratio. Materials Letters, 2013, 106, 119-121.	2.6	21
81	Thermal deformation of Y2O3 partially stabilized ZrO2 coatings by digital image correlation method. Surface and Coatings Technology, 2013, 216, 1-7.	4.8	10
82	Thermal barrier coatings with (Al2O3â€“Y2O3)/(Pt or Ptâ€“Au) composite bond coat and 8YSZ top coat on Ni-based superalloy. Applied Surface Science, 2013, 286, 298-305.	6.1	24
83	Study on behavior of NiAl coating with different Ni/Al ratios. Vacuum, 2013, 93, 37-44.	3.5	16
84	The effect of silicon on the oxidation behavior of NiAlHf coating system. Applied Surface Science, 2013, 271, 311-316.	6.1	37
85	Sintering of electron beam physical vapor deposited thermal barrier coatings under flame shock. Ceramics International, 2013, 39, 5093-5102.	4.8	19
86	Effects of Dy on the adherence of Al2O3/NiAl interface: A combined first-principles and experimental studies. Corrosion Science, 2013, 66, 59-66.	6.6	39
87	Interdiffusion Behavior at Interface Between NiAlHfSi Coatings and Ni3Al Based Superalloy Substrates. , 2013, , 2051-2060.		0
88	Microstructure and Oxidation Behavior of Modified Aluminide Coating on Ni3Al-based Single Crystal Superalloy. Chinese Journal of Aeronautics, 2012, 25, 825-830.	5.3	15
89	First principles calculations of alloying element diffusion coefficients in Ni using the five-frequency model. Chinese Physics B, 2012, 21, 109102.	1.4	48
90	Kinetics and microstructural evolution during recrystallization of a Ni3Al-based single crystal superalloy. Transactions of Nonferrous Metals Society of China, 2012, 22, 2098-2105.	4.2	11

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91	Microscale lamellar NiCoCrAlY coating with improved oxidation resistance. Surface and Coatings Technology, 2012, 207, 110-116.	4.8	16
92	Cyclic oxidation behavior of Î²-NiAlDy alloys containing varying aluminum content at 1200Â°C. Progress in Natural Science: Materials International, 2012, 22, 311-317.	4.4	10
93	Degradation of EB-PVD thermal barrier coatings caused by CMAS deposits. Progress in Natural Science: Materials International, 2012, 22, 461-467.	4.4	63
94	Effects of Cr-Al-Si and Cr-Al Coatings on the High Temperature Oxidation Resistance of a Ni3Al-Mo Based Single Crystal Alloy. Procedia Engineering, 2012, 27, 976-982.	1.2	4
95	Microstructural stability and strengthening mechanism of a Ni3Al-Mo based single-crystal superalloy containing Re element during long-time thermal aging. Procedia Engineering, 2012, 27, 989-996.	1.2	0
96	Influence of aging heat treatment on microstructure and hardness of single crystal Ni3Al-base superalloy IC21. Procedia Engineering, 2012, 27, 1081-1088.	1.2	10
97	Effect of Re on recrystallization behavior of Ni3Al based single crystal alloy. Procedia Engineering, 2012, 27, 1089-1096.	1.2	3
98	Cyclic Oxidation Behavior of an EB-PVD CoCrAlY Coating Influenced by Substrate/coating Interdiffusion. Chinese Journal of Aeronautics, 2012, 25, 796-803.	5.3	16
99	Effect of Sintering on Thermal Conductivity and Thermal Barrier Effects of Thermal Barrier Coatings. Chinese Journal of Aeronautics, 2012, 25, 811-816.	5.3	43
100	Surface recrystallization of a Ni3Al based single crystal superalloy at different annealing temperature and blasting pressure. Rare Metals, 2012, 31, 209-214.	7.1	10
101	Ruddlesdenâ€“Popper structured BaLa2Ti3O10, a highly anisotropic material for thermal barrier coatings. Ceramics International, 2012, 38, 4345-4352.	4.8	30
102	Comparison of O adsorption on Ni3Al (001), (011), and (111) surfaces through first-principles calculations. Physica B: Condensed Matter, 2012, 407, 2321-2328.	2.7	7
103	Evaluation of plasma sprayed YSZ thermal barrier coatings with the CMAS deposits infiltration using impedance spectroscopy. Progress in Natural Science: Materials International, 2012, 22, 40-47.	4.4	41
104	High-temperature oxidation and hot-corrosion behaviour of EB-PVD Î²-NiAlDy coatings. Corrosion Science, 2011, 53, 1050-1059.	6.6	50
105	Effect of Dy on oxide scale adhesion of NiAl coatings at 1200 Â°C. Corrosion Science, 2011, 53, 2228-2232.	6.6	81
106	Microstructure of oxides in thermal barrier coatings grown under dry/humid atmosphere. Corrosion Science, 2011, 53, 2630-2635.	6.6	25
107	Cyclic oxidation and interdiffusion behavior of a NiAlDy/RuNiAl coating on a Ni-based single crystal superalloy. Corrosion Science, 2011, 53, 2721-2727.	6.6	66
108	Precipitation phases in the nickel-based superalloy DZ 125 with YSZ/CoCrAlY thermal barrier coating. Journal of Alloys and Compounds, 2011, 509, 8542-8548.	5.5	44

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109	Diffusion barrier behaviors of (Ru,Ni)Al/NiAl coatings on Ni-based superalloy substrate. Intermetallics, 2011, 19, 191-195.	3.9	53
110	Inter-phase selective corrosion of Î³-TiAl alloy in molten salt environment at high temperature. Progress in Natural Science: Materials International, 2011, 21, 322-329.	4.4	16
111	A comparative study of four modified Al coatings on Ni3Al-based single crystal superalloy. Progress in Natural Science: Materials International, 2011, 21, 496-505.	4.4	27
112	Thermal cycling behavior and failure mechanism of LaTi2Al9O19/YSZ thermal barrier coatings exposed to gas flame. Surface and Coatings Technology, 2011, 205, 4291-4298.	4.8	52
113	Oxidation and diffusion barrier behaviors of double-layer NiCoCrAlY coatings produced by plasma activated EB-PVD. Surface and Coatings Technology, 2011, 205, 4658-4664.	4.8	27
114	High temperature creep behavior and mechanism of a TiAl-based intermetallic. Rare Metals, 2011, 30, 323-325.	7.1	2
115	Effects of Dy on Transient Oxidation Behavior of EB-PVD Î²-NiAl Coatings at Elevated Temperatures. Chinese Journal of Aeronautics, 2011, 24, 363-368.	5.3	13
116	Microstructure and thermo-physical properties of yttria stabilized zirconia coatings with CMAS deposits. Journal of the European Ceramic Society, 2011, 31, 1881-1888.	5.7	164
117	Microstructural evolution of CoCrAlY bond coat on Ni-based superalloy DZ 125 at 1050Â°C. Surface and Coatings Technology, 2011, 205, 4374-4379.	4.8	21
118	Microstructure and Thermal Properties of Plasma Sprayed Thermal Barrier Coatings from Nanostructured YSZ. Journal of Thermal Spray Technology, 2010, 19, 1186-1194.	3.1	126
119	Improved oxidation resistance and diffusion barrier behaviors of gradient oxide dispersed NiCoCrAlY coatings on superalloy. Vacuum, 2010, 85, 627-633.	3.5	22
120	EFFECTS OF Dy ON THE MICROSTRUCTURE AND SPALLATION FAILURE OF THE ALUMINA SCALES GROWN ON NiAl. International Journal of Modern Physics B, 2010, 24, 3149-3154.	2.0	15
121	IMPROVEMENT OF AMBIENT DUCTILITY AND TOUGHNESS BY Î“ PHASE PRECIPITATION IN NIAL-CR(MO)/NB ALLOYS. International Journal of Modern Physics B, 2010, 24, 2898-2903.	2.0	1
122	THE INVESTIGATION ON LAMELLAR MICROSTRUCTURE TRANSFORMATION AND STABILITY IN TIAL BASED INTERMATELLICS. International Journal of Modern Physics B, 2010, 24, 2279-2284.	2.0	0
123	CYCLIC OXIDATION BEHAVIORS OF EB-PVD Dy DOPED Î²-NiAl COATINGS AT 1100Â°C. International Journal of Modern Physics B, 2010, 24, 3143-3148.	2.0	21
124	First-principles study on the site preference of Dy in B2 NiAl. Journal of Alloys and Compounds, 2010, 492, 295-299.	5.5	15
125	Cyclic oxidation and diffusion barrier behaviors of oxides dispersed NiCoCrAlY coatings. Journal of Alloys and Compounds, 2010, 502, 411-416.	5.5	51
126	Improved cyclic oxidation resistance of electron beam physical vapor deposited nano-oxide dispersed Î²-NiAl coatings for Hf-containing superalloy. Corrosion Science, 2010, 52, 1440-1446.	6.6	77

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127	Thermo-Physical Properties and Thermal Shock Resistance of Segmented La2Ce2O7/YSZ Thermal Barrier Coatings. Journal of Thermal Spray Technology, 2009, 18, 665-671.	3.1	55
128	Thermo-physical and thermal cycling properties of plasma-sprayed BaLa2Ti3O10 coating as potential thermal barrier materials. Surface and Coatings Technology, 2009, 204, 691-696.	4.8	47
129	Thermal shock resistance and mechanical properties of La2Ce2O7 thermal barrier coatings with segmented structure. Ceramics International, 2009, 35, 2639-2644.	4.8	97
130	Effects of Dy on cyclic oxidation resistance of NiAl alloy. Transactions of Nonferrous Metals Society of China, 2009, 19, 1185-1189.	4.2	35
131	High temperature oxidation behavior of hafnium modified NiAl bond coat in EB-PVD thermal barrier coating system. Thin Solid Films, 2008, 516, 5732-5735.	1.8	118
132	Failure behaviors of TBCs on Ni3Al base alloy IC6A during room temperature tensile test and stress rupture test under the condition of 1100Â°C/100MPa. Intermetallics, 2007, 15, 801-804.	3.9	1
133	Failure mechanism of EB-PVD thermal barrier coatings on NiAl substrate. Transactions of Nonferrous Metals Society of China, 2007, 17, 811-815.	4.2	9
134	Element diffusion during fabrication of EB-PVD NiAl coating and its 1100ÂÂ°C isothermal oxidation behavior (II). Surface and Coatings Technology, 2007, 201, 6589-6592.	4.8	20
135	Influence of thermal shock on insulation effect of nano-multilayer thermal barrier coatings. Surface and Coatings Technology, 2007, 201, 6340-6344.	4.8	11
136	Isothermal oxidation behaviour of EB-PVD MCrAlY bond coat. Vacuum, 2007, 81, 947-952.	3.5	41
137	Heat treatment of nanostructured thermal barrier coating. Ceramics International, 2007, 33, 1075-1081.	4.8	63
138	Effects of Shot Peening Process on Thermal Cycling Lifetime of TBCs Prepared by EB-PVD. Chinese Journal of Aeronautics, 2007, 20, 145-147.	5.3	13
139	The thermal cycling behavior of Lanthanumâ€“Cerium Oxide thermal barrier coating prepared by EBâ€“PVD. Surface and Coatings Technology, 2006, 200, 5113-5118.	4.8	104
140	Evaluation of thermal barrier coating exposed to different oxygen partial pressure environments by impedance spectroscopy. Surface and Coatings Technology, 2006, 201, 446-451.	4.8	10
141	Effect of bond coat surface roughness on the thermal cyclic behavior of thermal barrier coatings. Surface and Coatings Technology, 2006, 201, 649-653.	4.8	44
142	Inter-diffusion and oxidation behavior in electron-beam evaporated NiAl coatings. Vacuum, 2006, 81, 329-337.	3.5	14
143	On improving the phase stability and thermal expansion coefficients of lanthanum cerium oxide solid solutions. Scripta Materialia, 2006, 54, 1505-1508.	5.2	82
144	Study on Electronic Structure and Magnetic Properties of Ni3Fe Ferromagnetic Layer Adjacent to Cu. Journal of Materials Research, 2005, 20, 36-41.	2.6	0

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145	Thermal barrier coatings with two layer bond coat on intermetallic compound Ni3Al based alloy. Intermetallics, 2005, 13, 295-299.	3.9	20
146	Influence of Water Vapor on the Cyclic-Oxidation Behavior of a Low-Pressure Plasma-Sprayed NiCrAlY Coating. Oxidation of Metals, 2004, 62, 195-206.	2.1	17
147	Title is missing!. Journal of Materials Science, 2002, 37, 5333-5337.	3.7	9
148	The electrical conductivity characteristics of Fe/Cu nano-scale multilayer materials. Science in China Series D: Earth Sciences, 2001, 44, 83-88.	0.9	1
149	Investigation on hot-fatigue behaviors of gradient thermal barrier coatings by EB-PVD. Surface and Coatings Technology, 2001, 148, 110-116.	4.8	42