

Bruce A. Pint

List of Publications by Year in descending order

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337
papers

12,650
citations

26567

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#	ARTICLE	IF	CITATIONS
1	Lessons Learned in Employing Data Analytics to Predict Oxidation Kinetics and Spallation Behavior of High-Temperature NiCr-Based Alloys. <i>Oxidation of Metals</i> , 2022, 97, 51-76.	1.0	5
2	Evaluating steam oxidation kinetics of environmental barrier coatings. <i>Journal of the American Ceramic Society</i> , 2022, 105, 590-605.	1.9	19
3	Corrosion of 316H stainless steel in flowing FLiNaK salt. <i>Journal of Nuclear Materials</i> , 2022, 561, 153551.	1.3	13
4	Dry air cyclic oxidation of mixed Y/Yb disilicate environmental barrier coatings and bare silica formers. <i>Journal of the European Ceramic Society</i> , 2022, 42, 3345-3350.	2.8	14
5	Effects of applied stress and grain size on creep-rupture lifetime prediction for Haynes 282 alloy. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 838, 142785.	2.6	15
6	Comprehensive insights into competitive oxidation/sulfidation reactions on binary ferritic alloys at high temperatures. <i>Corrosion Science</i> , 2022, , 110236.	3.0	5
7	The Oxidation of the HiSiMo Cast Irons Alloyed with Cr/Al at 800°C. <i>Oxidation of Metals</i> , 2022, 97, 441-449.	1.0	0
8	Burst and oxidation behavior of Cr-coated Zirlo during simulated LOCA testing. <i>Journal of Nuclear Materials</i> , 2022, 564, 153679.	1.3	6
9	Performance of alloy 600 in flowing commercial Cl salt at 600°C-750°C. <i>AIP Conference Proceedings</i> , 2022, , .	0.3	2
10	Hydrothermal corrosion and steam oxidation behavior comparison of UAM and conventional Zry-4. <i>Journal of Nuclear Materials</i> , 2022, 567, 153806.	1.3	0
11	Steam oxidation of chromium corrosion barrier coatings for sic-based accident tolerant fuel cladding. <i>Journal of Nuclear Materials</i> , 2021, 543, 152561.	1.3	6
12	Invited Review Paper in Commemoration of Over 50 Years of Oxidation of Metals: Addressing the Role of Water Vapor on Long-Term Stainless Steel Oxidation Behavior. <i>Oxidation of Metals</i> , 2021, 95, 335-357.	1.0	22
13	Steam oxidation of ytterbium disilicate environmental barrier coatings with and without a silicon bond coat. <i>Journal of the American Ceramic Society</i> , 2021, 104, 2285-2300.	1.9	29
14	Quantifying adherence of oxide scales on steels exposed to high temperature and pressure steam. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2021, 72, 1315-1327.	0.8	0
15	First steps toward predicting corrosion behavior of structural materials in molten salts. <i>Journal of Nuclear Materials</i> , 2021, 546, 152755.	1.3	22
16	Conceptual Design of HFIR Irradiation Experiment for Material Compatibility Study on Liquid Sn Divertor. <i>Plasma and Fusion Research</i> , 2021, 16, 2405040-2405040.	0.3	1
17	Compatibility of SiC with ODS FeCrAl in flowing Pb-Li at 600°C-700°C. <i>Fusion Engineering and Design</i> , 2021, 166, 112389.	1.0	6
18	Effect of Water Vapor on Lifetime of 625 and 120 Foils During Oxidation Between 650 and 800 °C. <i>Oxidation of Metals</i> , 2021, 96, 589-612.	1.0	8

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19	A Tracer Study on sCO ₂ Corrosion with Multiple Oxygen-Bearing Impurities. <i>Oxidation of Metals</i> , 2021, 96, 571-587.	1.0	3
20	Editorial on this Focus Issue on Key Corrosion Topics. <i>Oxidation of Metals</i> , 2021, 96, 1-2.	1.0	0
21	Pre-Oxidation to Improve Liquid Metal Compatibility. <i>Oxidation of Metals</i> , 2021, 96, 231-240.	1.0	3
22	Compatibility of FeCrAlMo in Flowing Pb-Li at 600Å°C to 700Å°C. <i>Fusion Science and Technology</i> , 2021, 77, 761-765.	0.6	4
23	Data analytics approach to predict high-temperature cyclic oxidation kinetics of NiCr-based Alloys. <i>Npj Materials Degradation</i> , 2021, 5, .	2.6	6
24	Focus Issue on Unique Materials, Techniques, and Environments. <i>Oxidation of Metals</i> , 2021, 96, 183-184.	1.0	0
25	Oxidation of ultrahigh temperature ceramics: kinetics, mechanisms, and applications. <i>Journal of the European Ceramic Society</i> , 2021, 41, 6130-6150.	2.8	49
26	Strength and rupture geometry of un-irradiated C26M FeCrAl under LOCA burst testing conditions. <i>Journal of Nuclear Materials</i> , 2021, 557, 153242.	1.3	23
27	Oxidation Behavior of Candidate NiCr Alloys for Engine Exhaust Valves: Part Iâ€”Effect of Minor Alloying Elements. <i>Oxidation of Metals</i> , 2021, 95, 157-187.	1.0	11
28	The Role of Oxidation Resistance in High Temperature Alloy Selection for a Future with Green Hydrogen. <i>Jom</i> , 2021, 73, 3988-3997.	0.9	3
29	Compatibility of Alumina-Forming Austenitic Steels in Static and Flowing Pb. <i>Jom</i> , 2021, 73, 4016-4022.	0.9	5
30	Compatibility of FeCrAlMo with flowing PbLi at 500Å°-650â€”Å°C. <i>Journal of Nuclear Materials</i> , 2020, 528, 151847.	1.3	19
31	The Effect of Shot Peening on Steam Oxidation of 304H Stainless Steel. <i>Oxidation of Metals</i> , 2020, 93, 159-174.	1.0	12
32	A Domestic Program for Liquid Metal PFC Research in Fusion. <i>Journal of Fusion Energy</i> , 2020, 39, 441-447.	0.5	9
33	Burst behavior of nuclear grade FeCrAl and Zircaloy-2 fuel cladding under simulated cyclic dryout conditions. <i>Journal of Nuclear Materials</i> , 2020, 539, 152256.	1.3	14
34	Effect of Pressure and Thermal Cycling on Long-Term Oxidation in CO ₂ and Supercritical CO ₂ . <i>Oxidation of Metals</i> , 2020, 94, 505-526.	1.0	26
35	The Impact of Impurities on Alloy Behavior in Supercritical CO ₂ at 700Å°C. <i>Oxidation of Metals</i> , 2020, 94, 95-111.	1.0	15
36	Computational Methods to Accelerate Development of Corrosion Resistant Coatings for Industrial Gas Turbines. <i>Minerals, Metals and Materials Series</i> , 2020, , 824-833.	0.3	4

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37	Effect of Air Plasma Sprayed Flash Bond Coatings on Furnace Cycle Lifetime of Disks and Rods. Journal of Engineering for Gas Turbines and Power, 2020, 142, .	0.5	4
38	Principles of Corrosion in Nuclear Systems: Theory and Analytical Methods. , 2020, , 1-32.		1
39	Characterization of the Benefit of APS Flash Coatings in Improving TBC Lifetime. Minerals, Metals and Materials Series, 2020, , 739-746.	0.3	0
40	Re-establishing the paradigm for evaluating halide salt compatibility to study commercial chloride salts at 600-800°C. Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1439-1449.	0.8	23
41	Lifetime modeling for a supercritical CO ₂ -molten salt CSP power block. AIP Conference Proceedings, 2019, , .	0.3	2
42	Role of bond coat processing methods on the durability of plasma sprayed thermal barrier systems. Surface and Coatings Technology, 2019, 375, 782-792.	2.2	37
43	Effect of APS flash bond coatings and curvature on TBC performance on rod specimens. Surface and Coatings Technology, 2019, 378, 124940.	2.2	9
44	3D Microscopy to Assess the Effect of High Temperature Cyclic Oxidation on the Deformation of Cast and ODS FeCrAlY Alloys. Oxidation of Metals, 2019, 91, 327-347.	1.0	7
45	Critical Exploration of Liquid Metal Plasma-Facing Components in a Fusion Nuclear Science Facility. Fusion Science and Technology, 2019, 75, 886-917.	0.6	27
46	Steam oxidation behavior of Ni-base superalloys 690, 725 and X-750 at 600 and 650°C. Corrosion Science, 2019, 157, 487-497.	3.0	6
47	Effect of pressure and impurities on oxidation in supercritical CO ₂ . Materials and Corrosion - Werkstoffe Und Korrosion, 2019, 70, 1400-1409.	0.8	31
48	The Effect of HVOF Bond Coating with APS Flash Coating on TBC Performance. Oxidation of Metals, 2019, 91, 691-704.	1.0	11
49	The effect of bond coating surface modification on the performance of atmospheric plasma spray thermal barrier coatings. Surface and Coatings Technology, 2019, 378, 125042.	2.2	15
50	The Effect of Coating Composition and Geometry on Thermal Barrier Coatings Lifetime. Journal of Engineering for Gas Turbines and Power, 2019, 141, .	0.5	8
51	Steam Oxidation Behavior of FeCrAl Cladding. Minerals, Metals and Materials Series, 2019, , 1451-1460.	0.3	8
52	High Temperature Oxidation Lifetime Modeling of Thin-Walled Components. , 2019, , .		6
53	Effect of APS Flash Bond Coatings on Furnace Cycle Lifetime of Disks and Rods. , 2019, , .		1
54	Validation of Lifetime Models for Recuperator Foils Through Long-Term Laboratory and Engine Testing. , 2019, , .		0

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55	Development of low-Cr ODS FeCrAl alloys for accident-tolerant fuel cladding. Journal of Nuclear Materials, 2018, 501, 59-71.	1.3	87
56	Performance of vacuum plasma spray and HVOF bond coatings at 900Å° and 1100 Å°C. Surface and Coatings Technology, 2018, 337, 136-140.	2.2	15
57	Characterization of chromia scales formed in supercritical carbon dioxide. Materials at High Temperatures, 2018, 35, 39-49.	0.5	21
58	Accident Tolerant FeCrAl Fuel Cladding: Current Status Towards Commercialization. Minerals, Metals and Materials Series, 2018, , 165-173.	0.3	2
59	High-temperature behavior of oxide dispersion strengthening CoNiCrAlY. Materials at High Temperatures, 2018, 35, 108-119.	0.5	17
60	Development of Creep-Resistant, Alumina-Forming Ferrous Alloys for High-Temperature Structural Use. , 2018, , .		6
61	Performance of Wrought Superalloys in Extreme Environments. Minerals, Metals and Materials Series, 2018, , 165-178.	0.3	4
62	The Effect of CO2 Pressure on Chromia Scale Microstructure at 750Å°C. Jom, 2018, 70, 1511-1519.	0.9	23
63	STEM and APT characterization of scale formation on a La,Hf,Ti-doped NiCrAl model alloy. Micron, 2018, 109, 41-52.	1.1	18
64	Steam Oxidation Behavior of FeCrAl Cladding. Minerals, Metals and Materials Series, 2018, , 235-244.	0.3	2
65	Effect of pressure on supercritical CO ₂ compatibility of structural alloys at 750Å°C. Materials and Corrosion - Werkstoffe Und Korrosion, 2017, 68, 151-158.	0.8	55
66	Special Issue on Oxidation in Water Vapor. Oxidation of Metals, 2017, 87, 403-404.	1.0	0
67	Long-Term Oxidation Testing and Lifetime Modeling of Cast and ODS FeCrAl Alloys. Oxidation of Metals, 2017, 87, 215-248.	1.0	9
68	Grain Boundary Chemistry and Transport Through Alumina Scales on NiAl Alloys. Oxidation of Metals, 2017, 88, 469-479.	1.0	13
69	Special Issue on the High-Temperature Corrosion in Mixed Oxidant Environments. Oxidation of Metals, 2017, 87, 679-680.	1.0	0
70	Oxidation of New Materials and Composites. Oxidation of Metals, 2017, 88, 235-236.	1.0	0
71	Special Issue on Advances in Relevant Characterization Techniques. Oxidation of Metals, 2017, 88, 421-422.	1.0	0
72	Interfaces in Oxides Formed on NiAlCr Doped with Y, Hf, Ti, and B. Microscopy and Microanalysis, 2017, 23, 396-403.	0.2	14

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73	High-Temperature Protective Coatings. Oxidation of Metals, 2017, 88, 71-71.	1.0	0
74	Special Issue on Carburization and Metal Dusting. Oxidation of Metals, 2017, 87, 603-604.	1.0	0
75	Predicting Oxidation-Limited Lifetime of Thin-Walled Components of NiCrW Alloy 230. Oxidation of Metals, 2017, 87, 11-38.	1.0	33
76	Solid-liquid phase equilibria of Fe-Cr-Al alloys and spinels. Journal of Nuclear Materials, 2017, 492, 128-133.	1.3	21
77	Effect of Thermal Cycling on Compatibility in CO ₂ for Concentrated Solar Power Applications. Oxidation of Metals, 2017, 87, 631-642.	1.0	16
78	Fabrication of Oxide Dispersion Strengthened Bond Coats with Low Al ₂ O ₃ Content. Journal of Thermal Spray Technology, 2017, 26, 868-879.	1.6	22
79	Effect of Al and Cr Content on Air and Steam Oxidation of FeCrAl Alloys and Commercial APMT Alloy. Oxidation of Metals, 2017, 87, 431-441.	1.0	74
80	Steam Oxidation Evaluation of Fe-Cr Alloys for Accident Tolerant Nuclear Fuel Cladding. Oxidation of Metals, 2017, 87, 515-526.	1.0	17
81	The Effect of Coating Composition and Geometry on TBC Lifetime. , 2017, , .		0
82	Design and Evaluation of Nuclear System for ARIES-ACT2 Power Plant with DCLL Blanket. Fusion Science and Technology, 2017, 72, 17-40.	0.6	18
83	Effect of Pressure and Thermal Cycling on Compatibility in CO ₂ for Concentrated Solar Power Applications. , 2017, , .		2
84	Special Issue on Corrosion-Mechanical Loading Interactions. Oxidation of Metals, 2017, 88, 1-2.	1.0	4
85	Special Issue on "Fundamentals and Numerical Simulations in High-Temperature Corrosion and Protection Focus Issue". Oxidation of Metals, 2017, 87, 271-272.	1.0	0
86	Development of 1100°C Capable Alumina-Forming Austenitic Alloys. Oxidation of Metals, 2017, 87, 1-10.	1.0	21
87	High-temperature materials. , 2017, , 67-104.		8
88	Performance of FeCrAl for accident-tolerant fuel cladding in high-temperature steam. Corrosion Reviews, 2017, 35, 167-175.	1.0	26
89	Uniform corrosion of FeCrAl alloys in LWR coolant environments. Journal of Nuclear Materials, 2016, 479, 36-47.	1.3	158
90	Field and Laboratory Evaluations of Commercial and Next-Generation Alumina-Forming Austenitic Foil for Advanced Recuperators. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	0.5	6

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91	The effects of temperature and substrate curvature on TBC lifetime and residual stress in alumina scales beneath APS YSZ. Surface and Coatings Technology, 2016, 308, 19-23.	2.2	15
92	Current Thoughts on Reactive Element Effects in Alumina-Forming Systems: In Memory of John Stringer. Oxidation of Metals, 2016, 86, 1-43.	1.0	164
93	Advanced TEM characterization of oxide nanoparticles in ODS Fe-12Cr-5Al alloys. Journal of Materials Science, 2016, 51, 9190-9206.	1.7	45
94	Influences of Superalloy Composition and Pt Content on the Oxidation Behavior of Gamma-Gamma Prime NiPtAl Bond Coatings. Oxidation of Metals, 2016, 86, 453-481.	1.0	15
95	The Effect of Environment on Thermal Barrier Coating Lifetime. Journal of Engineering for Gas Turbines and Power, 2016, 138, .	0.5	9
96	Cladding burst behavior of Fe-based alloys under LOCA. Journal of Nuclear Materials, 2016, 470, 128-138.	1.3	65
97	Factors Affecting TBC Furnace Cycle Lifetime: Temperature, Environment, Structure and Composition. , 2016, , .		0
98	New Creep-Resistant Cast Alloys with Improved Oxidation Resistance in Water Vapor at 650-800°C. Frontiers in Materials, 2015, 2, .	1.2	0
99	Effect of steam on high temperature oxidation behaviour of alumina-forming alloys. Materials at High Temperatures, 2015, 32, 28-35.	0.5	82
100	Effect of Specimen Thickness on Microstructural Changes During Oxidation of the NiCrW Alloy 230 at 950-1050°C. Jom, 2015, 67, 2573-2588.	0.9	11
101	Initial Assessment of Ni-Base Alloy Performance in 0.1 MPa and Supercritical CO ₂ . Jom, 2015, 67, 2615-2620.	0.9	44
102	Development and property evaluation of nuclear grade wrought FeCrAl fuel cladding for light water reactors. Journal of Nuclear Materials, 2015, 467, 703-716.	1.3	349
103	Field and Laboratory Evaluations of Commercial and Next Generation Alumina-Forming Austenitic Foil for Advanced Recuperators. , 2015, , .		0
104	Material Selection for Accident Tolerant Fuel Cladding. Metallurgical and Materials Transactions E, 2015, 2, 190-196.	0.5	49
105	The Effect of Environment on TBC Lifetime. , 2015, , .		0
106	Performance of chromia- and alumina-forming Fe- and Ni-base alloys exposed to metal dusting environments: The effect of water vapor and temperature. Corrosion Science, 2015, 92, 58-68.	3.0	32
107	Microstructure and environmental resistance of low Cr ODS FeCrAl. Materials at High Temperatures, 2015, 32, 123-132.	0.5	30
108	APS TBC performance on directionally-solidified superalloy substrates with HVOF NiCoCrAlYHfSi bond coatings. Surface and Coatings Technology, 2015, 284, 9-13.	2.2	23

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109	Oxidation, Creep and Fatigue Properties of Bare and Coated 31V Alloy. Jom, 2015, 67, 68-76.	0.9	3
110	Development of ODS FeCrAl for Compatibility in Fusion and Fission Energy Applications. Jom, 2014, 66, 2458-2466.	0.9	60
111	Effect of oxy-firing on corrosion rates at 600-650°C. Materials and Corrosion - Werkstoffe Und Korrosion, 2014, 65, 132-140.	0.8	20
112	Effect of boron on the oxidation behavior of NiCrAlYHfTi in H2O and CO2 environments. Surface and Coatings Technology, 2014, 260, 17-22.	2.2	14
113	High Temperature Coatings. Oxidation of Metals, 2014, 81, 1-1.	1.0	1
114	Creep behavior of pack cementation aluminide coatings on Grade 91 ferritic-martensitic alloy. Surface and Coatings Technology, 2014, 240, 32-39.	2.2	21
115	Effects of thermal cycling parameters on residual stresses in alumina scales of CoNiCrAlY and NiCoCrAlY bond coats. Surface and Coatings Technology, 2014, 258, 608-614.	2.2	9
116	The effect of cycle frequency, H2O and CO2 on TBC lifetime with NiCoCrAlYHfSi bond coatings. Surface and Coatings Technology, 2014, 260, 107-112.	2.2	18
117	Alloying and coating strategies for improved Pb-Li compatibility in DEMO-type fusion reactors. Journal of Nuclear Materials, 2014, 455, 330-334.	1.3	17
118	Critical Assessment 4: Challenges in developing high temperature materials. Materials Science and Technology, 2014, 30, 1387-1391.	0.8	6
119	Silicon Carbide Oxidation in Steam up to 2MPa. Journal of the American Ceramic Society, 2014, 97, 2331-2352.	1.9	197
120	Effect of Environment on the High Temperature Oxidation Behavior of 718 and 718Plus. , 2014, , .		2
121	Hot Corrosion and Degradation in Complex Atmospheres. Oxidation of Metals, 2013, 80, 453-454.	1.0	0
122	Alloy Development for High Temperature Corrosion and Protection. Oxidation of Metals, 2013, 80, 1-1.	1.0	2
123	Water Vapor Effects in High Temperature Oxidation. Oxidation of Metals, 2013, 79, 443-444.	1.0	1
124	Effect of H2O and CO2 on the Oxidation Behavior and Durability at High Temperature of ODS-FeCrAl. Oxidation of Metals, 2013, 79, 627-638.	1.0	23
125	Advanced Characterization Techniques in High-Temperature Oxidation and Corrosion Studies. Oxidation of Metals, 2013, 79, 225-226.	1.0	0
126	Performance of advanced turbocharger alloys and coatings at 850-950°C in air with water vapor. Surface and Coatings Technology, 2013, 215, 90-95.	2.2	10

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127	Oxidation behavior of co-doped NiCrAl alloys in dry and wet air. Surface and Coatings Technology, 2013, 237, 8-15.	2.2	46
128	High temperature oxidation of fuel cladding candidate materials in steam-hydrogen environments. Journal of Nuclear Materials, 2013, 440, 420-427.	1.3	363
129	Protection of zirconium by alumina- and chromia-forming iron alloys under high-temperature steam exposure. Journal of Nuclear Materials, 2013, 438, 64-71.	1.3	114
130	High Temperature Corrosion and Protection of Ceramics, Composites and Silicides. Oxidation of Metals, 2013, 80, 205-205.	1.0	0
131	High-Temperature Corrosion in Fossil Fuel Power Generation: Present and Future. Jom, 2013, 65, 1024-1032.	0.9	42
132	Fundamentals and Numerical Simulations in High Temperature Corrosion and Protection. Oxidation of Metals, 2013, 79, 1-1.	1.0	0
133	Impact of superalloy composition, bond coat roughness and water vapor on TBC lifetime with HVOF NiCoCrAlYHfSi bond coatings. Surface and Coatings Technology, 2013, 237, 65-70.	2.2	22
134	Effect of water vapor on the 1100°C oxidation behavior of plasma-sprayed TBCs with HVOF NiCoCrAlX bond coatings. Surface and Coatings Technology, 2013, 215, 39-45.	2.2	43
135	Characterization of specimens exposed in a Li loop. Journal of Nuclear Materials, 2013, 442, S580-S584.	1.3	4
136	Effect of water vapor on thermally-grown alumina scales on Pt-modified and simple aluminide bond coatings. Surface and Coatings Technology, 2013, 237, 2-7.	2.2	19
137	Effect of water vapor on thermally grown alumina scales on bond coatings. Surface and Coatings Technology, 2013, 215, 30-38.	2.2	29
138	Effect of water vapour content on thermal barrier coating lifetime. Materials Science and Technology, 2013, 29, 828-834.	0.8	8
139	Evaluation of Commercial and Next Generation Alumina-Forming Austenitic Foil for Advanced Recuperators. , 2013, , .		3
140	Pb-Li compatibility issues for DEMO. Journal of Nuclear Materials, 2013, 442, S572-S575.	1.3	17
141	Oxidation behaviour of cast Ni-Cr alloys in steam at 800°C. Materials Science and Technology, 2013, 29, 822-827.	0.8	38
142	Materials Considerations for Supercritical CO2 Turbine Cycles. , 2013, , .		8
143	Progress on DCLL Blanket Concept. Fusion Science and Technology, 2013, 64, 623-630.	0.6	11
144	Evaluation of NiCrAl Foil for a Concentrated Solar Power Application. , 2013, , .		1

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145	Effect of environment on the scale formed on oxide dispersion strengthened FeCrAl at 1050Å°C and 1100Å°C. Materials at High Temperatures, 2012, 29, 171-180.	0.5	36
146	Material compatibility with isothermal Pbâ€“Li. Materials at High Temperatures, 2012, 29, 129-135.	0.5	23
147	Microstructure and Chemistry of the Oxide Scale and Pt-containing Coatings Deposited on Superalloy N5. Microscopy and Microanalysis, 2012, 18, 1676-1677.	0.2	0
148	Ionic segregation on grain boundaries in thermally grown alumina scales. Materials at High Temperatures, 2012, 29, 257-263.	0.5	19
149	Inhibited aluminization of an ODS FeCr alloy. Surface and Coatings Technology, 2012, 206, 5036-5041.	2.2	4
150	Effect of exposure in steam or argon on the creep properties of Ni-based alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2012, 63, 889-895.	0.8	5
151	Mechanistic-Based Lifetime Predictions for High-Temperature Alloys and Coatings. Jom, 2012, 64, 1454-1460.	0.9	21
152	Effect of Humidity Level on the Creep Properties of Alloy 903 at 650Å°C. , 2012, , .		0
153	Interdiffusion behavior of Alâ€“rich oxidation resistant coatings on ferriticâ€“martensitic alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2012, 63, 909-920.	0.8	7
154	Oxidation of fuel cladding candidate materials in steam environments at high temperature and pressure. Journal of Nuclear Materials, 2012, 427, 396-400.	1.3	145
155	Creep behavior of commercial FeCrAl foils: Beneficial and detrimental effects of oxidation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2012, 550, 10-18.	2.6	20
156	Effect of environment on the scale formed on oxide dispersion strengthened FeCrAl at 1050Å°C and 1100Å°C. Materials at High Temperatures, 2012, 29, 171-180.	0.5	1
157	Ionic segregation on grain boundaries in thermally grown alumina scales. Materials at High Temperatures, 2012, 29, 257-263.	0.5	1
158	Evaluation of Commercial Alumina-Forming Austenitic Foil for Advanced Recuperators. , 2011, , .		2
159	Effect of increased water vapor levels on TBC lifetime with Pt-containing bond coatings. Surface and Coatings Technology, 2011, 206, 1566-1570.	2.2	30
160	Cyclic oxidation behavior of HVOF bond coatings deposited on La- and Y-doped superalloys. Surface and Coatings Technology, 2011, 206, 1600-1604.	2.2	16
161	Characterization of the alumina scale formed on coated and uncoated doped superalloys. Surface and Coatings Technology, 2011, 206, 1522-1528.	2.2	27
162	The effect of coatings on the compatibility of Feâ€“Cr steels with Pbâ€“Li. Journal of Nuclear Materials, 2011, 417, 1195-1199.	1.3	21

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163	Overview of Strategies for High-Temperature Creep and Oxidation Resistance of Alumina-Forming Austenitic Stainless Steels. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 922-931.	1.1	131
164	Performance of Al-rich oxidation resistant coatings for Fe-base alloys. Materials and Corrosion - Werkstoffe Und Korrosion, 2011, 62, 549-560.	0.8	43
165	High-growth rate YSZ thermal barrier coatings deposited by MOCVD demonstrate high thermal cycling lifetime. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 528, 978-985.	2.6	14
166	Evaluation of Alumina-Forming Austenitic Foil for Advanced Recuperators. Journal of Engineering for Gas Turbines and Power, 2011, 133, .	0.5	14
167	High-Temperature Performance of Cast CF8C-Plus Austenitic Stainless Steel. Journal of Engineering for Gas Turbines and Power, 2011, 133, .	0.5	10
168	Characterization of Pre- and Post-Service Grain Boundary Phases in a Cast Austenitic Steel. , 2011, , .		0
169	Progress in the development of insulator coating for liquid lithium blankets. Fusion Engineering and Design, 2010, 85, 1301-1306.	1.0	45
170	Effect of Hf and Y alloy additions on aluminide coating performance. Surface and Coatings Technology, 2010, 204, 3287-3293.	2.2	90
171	Determination of the ductile to brittle temperature transition of aluminide coatings and its influence on the mechanical behavior of coated specimens. Surface and Coatings Technology, 2010, 205, 1195-1199.	2.2	13
172	Characterization of the alumina scale formed on a commercial MCrAlYHfSi coating. Surface and Coatings Technology, 2010, 205, 1178-1182.	2.2	52
173	Effect of superalloy substrate and bond coating on TBC lifetime. Surface and Coatings Technology, 2010, 205, 1236-1240.	2.2	46
174	High Temperature Performance of Cast CF8C-Plus Austenitic Stainless Steel. , 2010, , .		1
175	High Temperature Corrosion of Alumina-forming Iron, Nickel and Cobalt-base Alloys. , 2010, , 606-645.		18
176	Oxidation of Superalloys in Extreme Environments. , 2010, , .		9
177	Evaluation of Alumina-Forming Austenitic Foil for Advanced Recuperators. , 2010, , .		0
178	Development of Alumina-Forming Austenitic Alloys for Advanced Recuperators. , 2009, , .		3
179	Characterization of alumina interfaces in TBC systems. Journal of Materials Science, 2009, 44, 1676-1686.	1.7	58
180	High-temperature oxidation-resistant alloys: Recent developments in science and applications. Jom, 2009, 61, 42-43.	0.9	18

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