

Daniel Monceau

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176
papers

2,740
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43
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181
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3,132
ext. citations

3.3
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5.4
L-index

#	Paper	IF	Citations
176	Determination of Parabolic Rate Constants from a Local Analysis of Mass-Gain Curves. <i>Oxidation of Metals</i> , 1998 , 50, 477-493	1.6	143
175	Carburisation of ferritic FeCr alloys by low carbon activity gases. <i>Corrosion Science</i> , 2011 , 53, 2767-2777	6.8	111
174	Correlations Between Growth Kinetics and Microstructure for Scales Formed by High-Temperature Oxidation of Pure Nickel. II. Growth Kinetics. <i>Oxidation of Metals</i> , 2002 , 58, 275-295	1.6	86
173	Iron Oxidation at Low Temperature (260-300 °C) in Air and the Effect of Water Vapor. <i>Oxidation of Metals</i> , 2010 , 73, 139-162	1.6	78
172	Correlations Between Growth Kinetics and Microstructure for Scales Formed by High-Temperature Oxidation of Pure Nickel. I. Morphologies and Microstructures. <i>Oxidation of Metals</i> , 2002 , 58, 249-273	1.6	68
171	NaCl induced corrosion of Ti-6Al-4V alloy at high temperature. <i>Corrosion Science</i> , 2016 , 110, 91-104	6.8	62
170	High temperature oxidation of IN 718 manufactured by laser beam melting and electron beam melting: Effect of surface topography. <i>Corrosion Science</i> , 2018 , 141, 127-145	6.8	57
169	Effect of Platinum on the Growth Rate of the Oxide Scale Formed on Cast Nickel Aluminide Intermetallic Alloys. <i>Oxidation of Metals</i> , 2005 , 64, 185-205	1.6	56
168	Application of a Simple Statistical Spalling Model for the Analysis of High-Temperature, Cyclic-Oxidation Kinetics Data. <i>Oxidation of Metals</i> , 2003 , 59, 409-431	1.6	50
167	Thermal cycling and reactivity of a MoSi ₂ /ZrO ₂ composite designed for self-healing thermal barrier coatings. <i>Materials and Design</i> , 2016 , 94, 444-448	8.1	49
166	Effect of Pt and Al content on the long-term, high temperature oxidation behavior and interdiffusion of a Pt-modified aluminide coating deposited on Ni-base superalloys. <i>Surface and Coatings Technology</i> , 2006 , 201, 3846-3851	4.4	47
165	Kinetic demixing of ceramics in an electrical field. <i>Solid State Ionics</i> , 1994 , 73, 221-225	3.3	47
164	Kinetics of breakaway oxidation of FeCr and FeCrNi alloys in dry and wet carbon dioxide. <i>Corrosion Science</i> , 2013 , 77, 246-256	6.8	45
163	Investigations on the Diffusion of Oxygen in Nickel at 1000°C by SIMS Analysis. <i>Journal of the Electrochemical Society</i> , 2005 , 152, E390	3.9	42
162	Effect of interdiffusion on mechanical and thermal expansion properties at high temperature of a MCrAlY coated Ni-based superalloy. <i>Surface and Coatings Technology</i> , 2016 , 307, 81-90	4.4	40
161	Substrate Effect on the High-Temperature Oxidation Behavior of a Pt-Modified Aluminide Coating. Part I: Influence of the Initial Chemical Composition of the Coating Surface. <i>Oxidation of Metals</i> , 2006 , 66, 155-189	1.6	40
160	Injection of vacancies at metal grain boundaries during the oxidation of nickel. <i>Acta Materialia</i> , 2004 , 52, 5375-5380	8.4	39

159	Static and dynamic aspects of coupling between creep behavior and oxidation on MC2 single crystal superalloy at 1150 °C. <i>Acta Materialia</i> , 2005 , 53, 4199-4209	8.4	38
158	Depletion and Voids Formation in the Substrate During High Temperature Oxidation of NiCr Alloys. <i>Oxidation of Metals</i> , 2013 , 79, 93-105	1.6	36
157	The effect of thermal cycling on the high-temperature creep behaviour of a single crystal nickel-based superalloy. <i>Scripta Materialia</i> , 2007 , 56, 277-280	5.6	36
156	In-situ SEM study of cavity growth during high temperature oxidation of γ -(Ni,Pd)Al. <i>Scripta Materialia</i> , 2001 , 44, 2741-2746	5.6	36
155	Quantification of growth kinetics and adherence of oxide scales formed on Ni-based superalloys at high temperature. <i>Corrosion Science</i> , 2010 , 52, 3932-3942	6.8	35
154	Pt-modified Ni aluminides, MCrAlY-base multilayer coatings and TBC systems fabricated by Spark Plasma Sintering for the protection of Ni-base superalloys. <i>Surface and Coatings Technology</i> , 2009 , 204, 771-778	4.4	35
153	Self-healing thermal barrier coating systems fabricated by spark plasma sintering. <i>Materials and Design</i> , 2018 , 143, 204-213	8.1	34
152	First-principles nickel database: Energetics of impurities and defects. <i>Computational Materials Science</i> , 2015 , 101, 77-87	3.2	33
151	Resistance of 90%Cr-steels against metal dusting. <i>Steel Research = Archiv für Das Eisenhüttenwesen</i> , 1997 , 68, 179-185		33
150	Cyclic oxidation of coated and uncoated single-crystal nickel-based superalloy MC2 analyzed by continuous thermogravimetry analysis. <i>Acta Materialia</i> , 2006 , 54, 4473-4487	8.4	33
149	Advanced burner-rig test for oxidation/corrosion resistance evaluation of MCrAlY/superalloys systems. <i>Surface and Coatings Technology</i> , 2006 , 201, 3829-3835	4.4	33
148	Effect of Water Vapor on the Spallation of Thermal Barrier Coating Systems During Laboratory Cyclic Oxidation Testing. <i>Oxidation of Metals</i> , 2010 , 73, 83-93	1.6	31
147	Experimental study and numerical simulation of high temperature (1100-1250 °C) oxidation of prior-oxidized zirconium alloy. <i>Corrosion Science</i> , 2016 , 103, 10-19	6.8	30
146	NiW diffusion barrier: Its influence on the oxidation behaviour of a γ -(Ni,Pt)Al coated fourth generation nickel-base superalloy. <i>Surface and Coatings Technology</i> , 2009 , 204, 761-765	4.4	29
145	Effect of modification by Pt and manufacturing processes on the microstructure of two NiCoCrAlYTa bond coatings intended for thermal barrier system applications. <i>Surface and Coatings Technology</i> , 2010 , 205, 717-727	4.4	28
144	Continuous Thermogravimetry Under Cyclic Conditions. <i>Oxidation of Metals</i> , 2004 , 61, 143-163	1.6	28
143	High temperature corrosion of cast heat resisting steels in CO + CO ₂ gas mixtures. <i>Corrosion Science</i> , 2008 , 50, 2398-2406	6.8	27
142	Transition in high-temperature oxidation kinetics of Pd-modified aluminide coatings: Role of oxygen partial pressure, heating rate, and surface treatment. <i>Journal of Materials Research</i> , 2000 , 15, 665-675	2.5	27

141	Influence of Microstructure and Surface Roughness on Oxidation Kinetics at 500-600 °C of TiAlV Alloy Fabricated by Additive Manufacturing. <i>Oxidation of Metals</i> , 2018 , 90, 633-648	1.6	26
140	Beneficial Effect of Pt and of Pre-Oxidation on the Oxidation Behaviour of an NiCoCrAlYTa Bond-Coating for Thermal Barrier Coating Systems. <i>Oxidation of Metals</i> , 2011 , 75, 247-279	1.6	25
139	Subsurface microstructural changes in a cast heat resisting alloy caused by high temperature corrosion. <i>Corrosion Science</i> , 2010 , 52, 255-262	6.8	24
138	Characterization of Sulfur Distribution in Ni-Based Superalloy and Thermal Barrier Coatings After High Temperature Oxidation: A SIMS Analysis. <i>Oxidation of Metals</i> , 2010 , 73, 95-113	1.6	23
137	Effects of Bond-Coat Preoxidation and Surface Finish on Isothermal and Cyclic Oxidation, High Temperature Corrosion and Thermal Shock Resistance of TBC Systems. <i>Materials Science Forum</i> , 2001 , 369-372, 607-614	0.4	23
136	Kinetic demixing profile calculation in oxide solid solutions under a chemical potential gradient. <i>Solid State Ionics</i> , 1991 , 45, 231-237	3.3	23
135	A comparison of the high-temperature oxidation behaviour of conventional wrought and laser beam melted Inconel 625. <i>Corrosion Science</i> , 2020 , 164, 108347	6.8	23
134	Breakaway oxidation of austenitic stainless steels induced by alloyed sulphur. <i>Corrosion Science</i> , 2015 , 93, 100-108	6.8	22
133	Oxidation resistant aluminized MCrAlY coating prepared by Spark Plasma Sintering (SPS). <i>Advanced Engineering Materials</i> , 2007 , 9, 413-417	3.5	22
132	Intergranular oxidation of Ni-base alloy 718 with a focus on additive manufacturing. <i>Corrosion Science</i> , 2020 , 170, 108684	6.8	21
131	Effect of Nitrogen on the Kinetics of Oxide Scale Growth and of Oxygen Dissolution in the Ti6242S Titanium-Based Alloy. <i>Oxidation of Metals</i> , 2017 , 87, 343-353	1.6	20
130	STEM-EELS identification of TiOxNy, TiN, Ti2N and O, N dissolution in the Ti6242S alloy oxidized in synthetic air at 650 °C. <i>Corrosion Science</i> , 2019 , 153, 191-199	6.8	20
129	Comparison of damaging behavior of oxide scales grown on austenitic stainless steels using tensile test and cyclic thermogravimetry. <i>Corrosion Science</i> , 2016 , 103, 145-156	6.8	19
128	Sol-gel thermal barrier coatings: Optimization of the manufacturing route and durability under cyclic oxidation. <i>Surface and Coatings Technology</i> , 2010 , 205, 1256-1261	4.4	19
127	Low Temperature Oxidation of Pure Iron: Growth Kinetics and Scale Morphologies. <i>Materials Science Forum</i> , 2004 , 461-464, 591-598	0.4	19
126	Atom probe tomographic study of L10 martensite in a Pt-modified NiCoCrAlYTa bond coating. <i>Corrosion Science</i> , 2013 , 76, 1-5	6.8	18
125	Tensile properties of a non-line-of-sight processed MCrAlY coating at high temperature. <i>Surface and Coatings Technology</i> , 2017 , 326, 28-36	4.4	18
124	Thermo-mechanical properties of SPS produced self-healing thermal barrier coatings containing pure and alloyed MoSi2 particles. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 4268-4275	6	17

123	First-principles study of sulfur multi-absorption in nickel and its segregation to the Ni(100) and Ni(111) surfaces. <i>Surface Science</i> , 2013 , 617, 15-21	1.8	17
122	Modelling of the effect of grain boundary diffusion on the oxidation of Ni-Cr alloys at high temperature. <i>Corrosion Science</i> , 2018 , 136, 148-160	6.8	16
121	Mechanism of breakaway oxidation of FeCr and FeCrNi alloys in dry and wet carbon dioxide. <i>Corrosion Science</i> , 2012 , 64, 222-222	6.8	16
120	High temperature oxidation and embrittlement at 500-800 °C of Ti-6Al-4V alloy fabricated by Laser and Electron Beam Melting. <i>Corrosion Science</i> , 2020 , 175, 108875	6.8	16
119	Relation between microstructure induced by oxidation and room-temperature mechanical properties of the thermally grown oxide scales on austenitic stainless steels. <i>Materials Characterization</i> , 2017 , 127, 161-170	3.9	15
118	Contribution to Modeling of Hydrogen Effect on Oxygen Diffusion in Zy-4 Alloy During High Temperature Steam Oxidation. <i>Oxidation of Metals</i> , 2013 , 79, 121-133	1.6	15
117	Influence of embedded MoSi ₂ particles on the high temperature thermal conductivity of SPS produced yttria-stabilised zirconia model thermal barrier coatings. <i>Surface and Coatings Technology</i> , 2016 , 308, 31-39	4.4	15
116	Experimental and Simulation Study of Uphill Diffusion of Al in a Pt-Coated Ni-Al Model Alloy. <i>Journal of Phase Equilibria and Diffusion</i> , 2009 , 30, 602-607	1	14
115	Micromechanical testing of ultrathin layered material specimens at elevated temperature. <i>Materials at High Temperatures</i> , 2016 , 33, 325-337	1.1	13
114	Observation and modeling of NiPtAl and Kirkendall void formations during interdiffusion of a Pt coating with a Ni-13Al alloy at high temperature. <i>Surface and Coatings Technology</i> , 2014 , 260, 9-16	4.4	13
113	Proto-TGO formation in TBC systems fabricated by spark plasma sintering. <i>Surface and Coatings Technology</i> , 2010 , 205, 1245-1249	4.4	13
112	Effect of Cycle Frequency on High Temperature Oxidation Behavior of Alumina-Forming Coatings Used for Industrial Gas Turbine Blades. <i>Materials Science Forum</i> , 2004 , 461-464, 747-754	0.4	13
111	Surface segregation and morphology of Mg-doped alumina powders. <i>Journal of the European Ceramic Society</i> , 1995 , 15, 851-858	6	13
110	Effects of tramp elements Cu, P, Pb, Sb and Sn on the kinetics of carburization of case hardening steels. <i>Steel Research = Archiv für Das Eisenhüttenwesen</i> , 1996 , 67, 240-246		13
109	Modelling of the kinetics of pitting corrosion by metal dusting. <i>Corrosion Science</i> , 2015 , 98, 592-604	6.8	12
108	Mechanism of metal dusting corrosion by pitting of a chromia-forming alloy at atmospheric pressure and low gas velocity. <i>Corrosion Science</i> , 2016 , 107, 204-210	6.8	12
107	High-Temperature Oxidation of a High Silicon SiMo Spheroidal Cast Iron in Air with In Situ Change in H ₂ O Content. <i>Materials Science Forum</i> , 2018 , 925, 353-360	0.4	12
106	Preliminary Results of the Isothermal Oxidation Study of Pt-Al-NiCoCrAlYTaN Multi-Layered Coatings Prepared by Sparks Plasma Sintering (SPS). <i>Materials Science Forum</i> , 2008 , 595-598, 143-150	0.4	12

105	Numerical Model for Oxide Scale Growth with Explicit Treatment of Vacancy Fluxes. <i>Materials Science Forum</i> , 2004 , 461-464, 481-488	0.4	12
104	Kinetic Demixing of Solute Cations in Alumina Single Crystals during Cooling. <i>Journal of the American Ceramic Society</i> , 1995 , 78, 2314-2320	3.8	12
103	Internal Oxidation in Dry and Wet Conditions for Oxygen Permeability of Fe-Ni Alloys at 1150 and 1100 °C. <i>Oxidation of Metals</i> , 2017 , 87, 273-283	1.6	11
102	Impact of the clusterization on the solubility of oxygen and vacancy concentration in nickel: A multi-scale approach. <i>Journal of Alloys and Compounds</i> , 2017 , 708, 1063-1072	5.7	11
101	Evidence of High-Temperature Strain Heterogeneities in a Nickel-Based Single-Crystal Superalloy. <i>Advanced Engineering Materials</i> , 2014 , 16, 60-64	3.5	11
100	Thermal cycling behavior of EB-PVD TBC systems deposited on doped Pt-rich γ bond coatings made by Spark Plasma Sintering (SPS). <i>Surface and Coatings Technology</i> , 2011 , 206, 1558-1565	4.4	11
99	Substrate Effect on the High Temperature Oxidation Behavior of a Pt-modified Aluminide Coating. Part II: Long-term Cyclic-oxidation Tests at 1,050 °C. <i>Oxidation of Metals</i> , 2007 , 68, 223-242	1.6	11
98	ALLBATROS advanced long life blade turbine coating systems. <i>Applied Thermal Engineering</i> , 2004 , 24, 1745-1753	5.8	11
97	Cyclic Oxidation Behavior of TBC Systems with a Pt-Rich γ -Ni+ γ -Ni ₃ Al Bond-Coating Made by SPS. <i>Oxidation of Metals</i> , 2014 , 81, 33-45	1.6	10
96	Thermal Barrier Systems and Multi-Layered Coatings Fabricated by Spark Plasma Sintering for the Protection of Ni-Base Superalloys. <i>Materials Science Forum</i> , 2010 , 654-656, 1826-1831	0.4	10
95	First-Principle Calculation of Monovacancy and Divacancy Interactions with Atomic Oxygen in Nickel: Thermal Expansion Effects. <i>Defect and Diffusion Forum</i> , 2009 , 289-292, 747-753	0.7	10
94	Multi-Sample Thermobalance for Rapid Cyclic Oxidation under Controlled Atmosphere. <i>Materials Science Forum</i> , 2004 , 461-464, 689-696	0.4	10
93	Chemical vapor deposition of ruthenium on NiCoCrAlYTa powders followed by thermal oxidation of the sintered coupons. <i>Surface and Coatings Technology</i> , 2003 , 163-164, 44-49	4.4	10
92	Evolution of Scale Microstructure as a Function of Scale Oxide Thickness during Oxidation of Nickel at 700°C. <i>Materials Science Forum</i> , 2001 , 369-372, 189-196	0.4	10
91	Oxygen Diffusion Modeling in Titanium Alloys: New Elements on the Analysis of Microhardness Profiles. <i>Oxidation of Metals</i> , 2020 , 93, 215-227	1.6	10
90	High-temperature cyclic oxidation of Pt-rich γ bond-coatings. Part II: Effect of Pt and Al on TBC system lifetime. <i>Corrosion Science</i> , 2019 , 150, 1-8	6.8	10
89	High-temperature cyclic oxidation behaviour of Pt-rich γ coatings. Part I: Oxidation kinetics of coated AM1 systems after very long-term exposure at 1100 °C. <i>Corrosion Science</i> , 2018 , 144, 127-135	6.8	10
88	Cyclic Oxidation Kinetics Modeling of NiAl Single Crystal. <i>Materials Science Forum</i> , 2004 , 461-464, 737-746	0.4	9

87	High-temperature oxidation kinetics of NiAl single crystal and oxide spallation as a function of crystallographic orientation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2004 , 381, 237-248	5.3	9
86	Kinetic demixing profile calculation under a temperature gradient in multi-component oxides. <i>Journal of the European Ceramic Society</i> , 1992 , 9, 193-204	6	9
85	Modeling the oxidation kinetics of titanium alloys: Review, method and application to Ti-64 and Ti-6242s alloys. <i>Corrosion Science</i> , 2021 , 178, 109041	6.8	9
84	Growth Kinetics and Characterization of Chromia Scales Formed on Ni ₃ Al Alloy in Impure Argon at 700 °C. <i>Oxidation of Metals</i> , 2020 , 93, 329-353	1.6	8
83	Thermal cycling behaviour of thermal barrier coating systems based on first- and fourth generation Ni-based superalloys. <i>Materials at High Temperatures</i> , 2012 , 29, 136-144	1.1	8
82	Erosion and High Temperature Oxidation Resistance of New Coatings Fabricated by a Sol-Gel Route for a TBC Application. <i>Materials Science Forum</i> , 2008 , 595-598, 3-10	0.4	8
81	The Influence of Specimen Thickness on the High Temperature Corrosion Behavior of CMSX-4 during Thermal-Cycling Exposure. <i>Oxidation of Metals</i> , 2007 , 68, 165-176	1.6	8
80	High temperature oxidation of high purity nickel: oxide scale morphology and growth kinetics. <i>Materials at High Temperatures</i> , 2003 , 20, 649-655	1.1	8
79	Cation redistribution in oxides under oxygen potential gradients: Influence on the corrosion kinetics. <i>Solid State Ionics</i> , 1992 , 53-56, 270-279	3.3	8
78	Carburization of Austenitic and Ferritic Steels in Carbon-Saturated Sodium: Preliminary Results on the Diffusion Coefficient of Carbon at 873 K. <i>Oxidation of Metals</i> , 2017 , 87, 643-653	1.6	7
77	Metal dusting corrosion of austenitic alloys at low and high pressure with the effects of Cr, Al, Nb and Cu. <i>Corrosion Science</i> , 2017 , 123, 310-318	6.8	7
76	NaCl-Induced High-Temperature Corrosion of Ti-6Al-4V Alloy. <i>Oxidation of Metals</i> , 2017 , 87, 729-740	1.6	7
75	On the Understanding of TGO Growth and Spallation in Nickel Aluminides. <i>Materials Science Forum</i> , 2004 , 461-464, 289-296	0.4	7
74	Carburization of austenitic and ferritic stainless steels in liquid sodium: Comparison between experimental observations and simulations. <i>Corrosion Science</i> , 2019 , 159, 108147	6.8	6
73	High Temperature Micromechanical Behavior of a Pt-Modified Nickel Aluminide Bond-Coating and of Its Interdiffusion Zone with the Superalloy Substrate. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2020 , 51, 1475-1480	2.3	6
72	Degradation mechanism of Ti-6Al-2Sn-4Zr-2Mo-Si alloy exposed to solid NaCl deposit at high temperature. <i>Corrosion Science</i> , 2020 , 172, 108611	6.8	6
71	High-temperature oxidation of nickel-based alloys and estimation of the adhesion strength of resulting oxide layers. <i>Protection of Metals and Physical Chemistry of Surfaces</i> , 2011 , 47, 347-353	0.9	6
70	Metal Dusting of Stainless Steels. <i>Materials Science Forum</i> , 1997 , 251-254, 665-670	0.4	6

69	Characterization of TBC Systems with NiPtAl or NiCoCrAlYTa Bond Coatings after Thermal Cycling at 1100°C: A Comparative Study of Failure Mechanisms. <i>Materials Science Forum</i> , 2008 , 595-598, 213-221	0.4	6
68	Oxydation et protection des matériaux pour sous-couches (NiAlPd, NiAlPt, NiCoCrAlYTa, CoNiCrAlY) de barrières thermiques. <i>European Physical Journal Special Topics</i> , 2000 , 10, Pr4-167-Pr4-171		6
67	The microchemistry and microstructure of magnesium-doped submicron alumina powders after thermal treatment at 1300°C. <i>Journal of the European Ceramic Society</i> , 1993 , 12, 337-341	6	6
66	First-principles study of the insertion and diffusion of interstitial atoms (H, C, N and O) in nickel. <i>Journal of Alloys and Compounds</i> , 2020 , 822, 153555	5.7	6
65	Screening for Al ₂ O ₃ failure in MCrAlY APS coatings using short-term oxidation at high temperature. <i>Corrosion Science</i> , 2021 , 184, 109334	6.8	6
64	Outstanding durability of sol-gel thermal barrier coatings reinforced by YSZ-fibers. <i>Journal of the European Ceramic Society</i> , 2018 , 38, 4719-4731	6	5
63	Chromium and iridium effects on the short-term interdiffusion behaviour between Pt rich bond-coatings and a Ni-Al-Cr alloy. <i>Surface and Coatings Technology</i> , 2017 , 309, 258-265	4.4	5
62	Development of a NiW In Situ Diffusion Barrier on a Fourth Generation Nickel-Base Superalloy. <i>Materials Science Forum</i> , 2008 , 595-598, 23-32	0.4	5
61	Cyclic thermogravimetry of TBC systems. <i>Surface and Coatings Technology</i> , 2007 , 202, 665-669	4.4	5
60	Diffusion and High-Temperature Oxidation of Nickel. <i>Defect and Diffusion Forum</i> , 2001 , 194-199, 1675-1682	6.2	5
59	Kinetics of zircon formation in yttria partially stabilized zirconia as a result of oxidation of embedded molybdenum disilicide. <i>Acta Materialia</i> , 2019 , 174, 206-216	8.4	4
58	Special Issue on Corrosion/Mechanical Loading Interactions. <i>Oxidation of Metals</i> , 2017 , 88, 1-2	1.6	4
57	Characterisation of oxide scale adherence after the high temperature oxidation of nickel-based superalloys. <i>Materials at High Temperatures</i> , 2012 , 29, 243-248	1.1	4
56	Shaping of Nanostructured Materials or Coatings through Spark Plasma Sintering. <i>Materials Science Forum</i> , 2012 , 706-709, 24-30	0.4	4
55	Influence of Environment on Creep Properties of MC2 Single Crystal Superalloy at 1150°C. <i>Materials Science Forum</i> , 2004 , 461-464, 647-654	0.4	4
54	HIGH TEMPERATURE OXIDATION OF Ti-6Al-4V ALLOY FABRICATED BY ADDITIVE MANUFACTURING. INFLUENCE ON MECHANICAL PROPERTIES. <i>MATEC Web of Conferences</i> , 2020 , 321, 03006	0.3	4
53	Cyclic oxidation of alloy 718 produced by additive manufacturing compared to a wrought-718 alloy. <i>Corrosion Science</i> , 2021 , 192, 109804	6.8	4
52	Relevance of Other Parameters than Carbon Activity in Defining the Severity of a Metal Dusting Environment. <i>Oxidation of Metals</i> , 2017 , 87, 655-666	1.6	3

51	Metal dusting of Inconel 625 obtained by laser beam melting: Effect of manufacturing process and hot isostatic pressure treatment. <i>Corrosion Science</i> , 2020 , 174, 108820	6.8	3
50	Reactivity and microstructure evolution of a CoNiCrAlY/Talc cermet prepared by Spark Plasma Sintering. <i>Surface and Coatings Technology</i> , 2010 , 205, 1183-1188	4.4	3
49	Chemical Evolution in the Substrate due to Oxidation: A Numerical Model with Explicit Treatment of Vacancy Fluxes. <i>Materials Science Forum</i> , 2008 , 595-598, 463-472	0.4	3
48	Continuous thermogravimetric analysis during the cyclic oxidation of Ni ₂ Al _{0.5} Pt + 1 wt.% Hf at 1200 °C. <i>Scripta Materialia</i> , 2007 , 57, 647-650	5.6	3
47	Application of image analysis and image simulation for quantitative characterization of scale spallation during cyclic oxidation of a Pt-aluminide coating. <i>Intermetallics</i> , 2006 , 14, 423-434	3.5	3
46	Experimental Study of the Interactions between Oxidation and Structural Defects. <i>Materials Science Forum</i> , 2004 , 461-464, 123-130	0.4	3
45	The nickel, model material for the high temperature oxidation studies: first steps towards predictive modelling. <i>Revue De Metallurgie</i> , 2005 , 102, 135-146		3
44	A Microscopy Study of Spalling and Growth Mechanism of the Oxide Scale Formed on Pd Modified Nickel Aluminum. <i>Materials Science Forum</i> , 2001 , 369-372, 499-506	0.4	3
43	Short-Term High Temperature Oxidation of Lamellar Cast Iron. <i>Materials Science Forum</i> , 2001 , 369-372, 181-188	0.4	3
42	Modeling Two- and Three-Stage Oxygen Tracer Experiments during High-Temperature Oxidation of Metals with a High Oxygen Solubility. <i>Oxidation of Metals</i> , 2018 , 89, 517-529	1.6	3
41	Oxygen/nitrogen-assisted embrittlement of titanium alloys exposed at elevated temperature. <i>MATEC Web of Conferences</i> , 2020 , 321, 06004	0.3	2
40	Modelling the high temperature oxidation of titanium alloys: Development of a new numerical tool PyTiOx. <i>Corrosion Science</i> , 2020 , 176, 109005	6.8	2
39	Efficient, durable protection of the Ti6242S titanium alloy against high-temperature oxidation through MOCVD processed amorphous alumina coatings. <i>Journal of Materials Science</i> , 2020 , 55, 4883-4895	4.3	2
38	Oxidation of Thin Nickel-Based Superalloy Specimens: Kinetics Study and Mechanical Integrity. <i>Oxidation of Metals</i> , 2021 , 96, 169-182	1.6	2
37	Influence of Pt Addition and Manufacturing Process on the Failure Mechanisms of NiCoCrAlYTa-Base Thermal Barrier Coating Systems under Thermal Cycling Conditions. <i>Metals</i> , 2018 , 8, 771	2.3	2
36	Amorphous Alumina Films Efficiently Protect Ti6242S against Oxidation and Allow Operation above 600 °C. <i>Materials Science Forum</i> , 2018 , 941, 1846-1852	0.4	2
35	The role of nitrogen in the oxidation behaviour of a Ti6242S alloy: a nanoscale investigation by atom probe tomography. <i>Acta Materialia</i> , 2021 , 216, 117134	8.4	2
34	Relations Between Oxidation Induced Microstructure and Mechanical Durability of Oxide Scales. <i>Oxidation of Metals</i> , 2017 , 88, 29-40	1.6	1

33	Chemical Interaction of Austenitic and Ferritic Steels with B4C Powder in Liquid Sodium at 600°C. <i>Corrosion</i> , 2019 , 75, 1173-1182	1.8	1
32	Alloy Development for High Temperature Corrosion and Protection. <i>Oxidation of Metals</i> , 2013 , 80, 1-1	1.6	1
31	Water Vapor Effects in High Temperature Oxidation. <i>Oxidation of Metals</i> , 2013 , 79, 443-444	1.6	1
30	Influence of Environment on Creep Properties of MC2 Single Crystal Superalloy at 1050°C AND 1150°C 2013 , 173-180		1
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