

Brian Gleeson

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

150
papers

4,289
citations

36
h-index

58
g-index

158
ext. papers

4,706
ext. citations

3
avg, IF

5.6
L-index

#	Paper	IF	Citations
150	Thermal Barrier Coatings for Aeroengine Applications. <i>Journal of Propulsion and Power</i> , 2006 , 22, 375-383	3.8	206
149	Effects of Platinum on the Interdiffusion and Oxidation Behavior of Ni-Al-Based Alloys. <i>Materials Science Forum</i> , 2004 , 461-464, 213-222	0.4	192
148	Alloy design strategies for promoting protective oxide-scale formation. <i>Jom</i> , 2000 , 52, 16-21	2.1	145
147	Alumina Scale Formation: A New Perspective. <i>Journal of the American Ceramic Society</i> , 2011 , 94, s146-s153	3.8	110
146	Site preference of transition metal elements in Ni ₃ Al. <i>Scripta Materialia</i> , 2006 , 55, 433-436	5.6	107
145	Oxidation of multicomponent two-phase alloys. <i>Oxidation of Metals</i> , 1995 , 44, 211-237	1.6	107
144	On the growth of Al ₂ O ₃ scales. <i>Acta Materialia</i> , 2013 , 61, 6670-6683	8.4	103
143	Design of a Fingertip-Mounted Tactile Display with Tangential Skin Displacement Feedback. <i>IEEE Transactions on Haptics</i> , 2010 , 3, 297-301	2.7	100
142	Site preference of ternary alloying elements in Ni ₃ Al: A first-principles study. <i>Acta Materialia</i> , 2006 , 54, 1147-1154	8.4	100
141	Thermodynamic considerations of the beneficial effect of halogens on the oxidation resistance of TiAl-based alloys. <i>Intermetallics</i> , 2003 , 11, 387-398	3.5	97
140	γ-NiPt(Al) and phase equilibria in the Ni ₃ AlPt system at 1150 °C. <i>Acta Materialia</i> , 2005 , 53, 3319-3328	8.4	87
139	Meet me where i'm gazing 2014 ,		86
138	Correlation between the Microstructure, Growth Mechanism, and Growth Kinetics of Alumina Scales on a FeCrAlY Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 2974-2983	2.3	80
137	Perception of Direction for Applied Tangential Skin Displacement: Effects of Speed, Displacement, and Repetition. <i>IEEE Transactions on Haptics</i> , 2010 , 3, 177-188	2.7	79
136	Effects of Silicon on the Oxidation Behavior of Ni-Base Chromia-Forming Alloys. <i>Oxidation of Metals</i> , 2006 , 65, 101-122	1.6	74
135	Formation of Z-Ti ₅₀ Al ₃₀ O ₂₀ in the sub-oxide zones of γ-TiAl-based alloys during oxidation at 1000°C. <i>Acta Materialia</i> , 1999 , 47, 2937-2949	8.4	74
134	The deposition of aluminide and silicide coatings on γ-TiAl using the halide-activated pack cementation method. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1996 , 27, 3761-3772	2.3	74

133	Effect of Nb on the high-temperature sulfidation behavior of cobalt. <i>Oxidation of Metals</i> , 1989 , 31, 209-236	2.3	69
132	Factors Affecting Chromium Carbide Precipitate Dissolution During Alloy Oxidation. <i>Oxidation of Metals</i> , 1998 , 50, 139-165	1.6	68
131	Interdiffusion behavior of Pt-modified γ -Ni + γ -Ni ₃ Al alloys coupled to Ni-Al-based alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2005 , 36, 1769-1775	2.3	65
130	Compositional factors affecting the establishment and maintenance of Al ₂ O ₃ scales on NiAl/Pt systems. <i>Journal of Materials Science</i> , 2009 , 44, 1704-1710	4.3	64
129	A combined first-principles and experimental study of the lattice site preference of Pt in B2 NiAl. <i>Acta Materialia</i> , 2005 , 53, 2101-2109	8.4	62
128	Hot corrosion and oxidation behavior of a novel Pt + Hf-modified γ -Ni ₃ Al + γ -Ni-based coating. <i>Surface and Coatings Technology</i> , 2006 , 201, 3836-3840	4.4	59
127	Gestures for industry Intuitive human-robot communication from human observation 2013 ,		57
126	Alloy phase transformations driven by high temperature corrosion processes. <i>Corrosion Science</i> , 2002 , 44, 345-357	6.8	56
125	A comprehensive investigation of the sulfidation behavior of binary Co-Mo alloys. <i>Oxidation of Metals</i> , 1990 , 33, 425-455	1.6	48
124	A diffusional analysis of the oxidation of binary multiphase alloys. <i>Oxidation of Metals</i> , 1991 , 35, 333-348	1.6	47
123	Effects of targeted γ -Ni + γ -Ni ₃ Al-based coating compositions on oxidation behavior. <i>Surface and Coatings Technology</i> , 2007 , 202, 628-631	4.4	46
122	The Long-Term, Cyclic-Oxidation Behavior of Selected Chromia-Forming Alloys. <i>Oxidation of Metals</i> , 1998 , 49, 373-399	1.6	45
121	The hot-corrosion behavior of novel CO-deposited chromium-modified aluminide coatings. <i>Oxidation of Metals</i> , 1992 , 38, 407-424	1.6	44
120	Development of Re-based diffusion barrier coatings on nickel based superalloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2005 , 56, 923-929	1.6	41
119	Initial phase transformation diagram determination for the CD3MN cast duplex stainless steel. <i>Scripta Materialia</i> , 2004 , 50, 1351-1354	5.6	38
118	Early-Stage Oxidation Behavior of Pt-Modified γ -Ni ₃ Al-Based Alloys with and without Hf Addition. <i>Oxidation of Metals</i> , 2009 , 71, 5-19	1.6	37
117	Interdiffusion behaviour in aluminide-coated Ren [®] 80H at 1150°C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 224, 27-32	5.3	37
116	Isothermal transformation behavior of thermally-grown w [†] tite		37

115	Sulfur Segregation at Al ₂ O ₃ /Ni ₃ Al Interfaces: Effects of Pt, Cr and Hf Additions. <i>Oxidation of Metals</i> , 2009 , 72, 109-124	1.6	36
114	The cyclic oxidation behaviour of Cr + NiAl alloys with and without trace Zr addition. <i>Corrosion Science</i> , 1997 , 39, 639-654	6.8	36
113	Phenomenological treatment of multilayer growth. <i>Oxidation of Metals</i> , 1989 , 31, 415-429	1.6	36
112	The Band Structure of Polycrystalline Al ₂ O ₃ and Its Influence on Transport Phenomena. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 733-747	3.8	35
111	Laser Raman spectroscopy: a technique for rapid characterisation of oxide scale layers. <i>Materials Science and Technology</i> , 1998 , 14, 373-376	1.5	35
110	Effects of 0.1 and 0.2 wt.% aluminium addition to zinc on the interdiffusion between zinc and iron at 400°C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 251, 87-93	5.3	34
109	Oxidation Behavior of Pt+Hf-Modified Ni ₃ Al Alloys. <i>Materials Science Forum</i> , 2006 , 522-523, 221-228	2.4	33
108	Codeposited Chromium-Aluminide Coatings: II . Kinetics and Morphology of Coating Growth. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 2690-2698	3.9	33
107	Early-Stage Oxidation Behavior of Ni ₃ Al-Based Alloys with and without Pt Addition. <i>Materials Science Forum</i> , 2006 , 522-523, 229-238	0.4	31
106	Determination of isothermal transformation diagrams for sigma-phase formation in cast duplex stainless steels CD3MN and CD3MWCuN. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2004 , 35, 3377-3386	2.3	31
105	First-principles study of phase stability in pseudobinary (Ni _{1-x} Pt _x) ₃ Al alloys. <i>Physical Review B</i> , 2005 , 72,	3.3	29
104	On the Hot Corrosion of Nickel at 700 °C. <i>Oxidation of Metals</i> , 2015 , 84, 567-584	1.6	28
103	Isothermal nature of martensite formation in Pt-modified NiAl alloys. <i>Acta Materialia</i> , 2007 , 55, 2433-2441	4.1	28
102	Reaction morphologies developed by nickel aluminides in type II hot corrosion conditions: The effect of chromium. <i>Corrosion Science</i> , 2015 , 101, 32-46	6.8	27
101	Codeposited Chromium-Aluminide Coatings: I . Definition of the Codeposition Regimes. <i>Journal of the Electrochemical Society</i> , 1994 , 141, 1464-1471	3.9	27
100	Beneficial Effects of Rhenium Additions on the Cyclic-Oxidation Resistance of NiAl + Cr Alloys. <i>Oxidation of Metals</i> , 1998 , 50, 399-429	1.6	26
99	Effects of Pt on the elastic properties of B2 NiAl: A combined first-principles and experimental study. <i>Acta Materialia</i> , 2006 , 54, 2361-2369	8.4	26
98	Calculation of precipitate dissolution zone kinetics in oxidising binary two-phase alloys. <i>Acta Materialia</i> , 1996 , 44, 4033-4038	8.4	26

97	Creep in Al_2O_3 thermally grown on NiAl and NiAlPt alloys. <i>Surface and Coatings Technology</i> , 2007 , 202, 608-612	4.4	25
96	Cyclic oxidation behaviour of two-phase $\text{Ni}_3\text{Cr}_2\text{Al}$ alloys at 1100°C. <i>Corrosion Science</i> , 1993 , 35, 923-929	6.8	25
95	Compositional effects on the Type I hot corrosion of NiAl alloys. <i>Surface and Coatings Technology</i> , 2011 , 206, 1552-1557	4.4	24
94	A first-principles study of the site preference of Cr in B_2NiAl . <i>Scripta Materialia</i> , 2006 , 54, 405-410	5.6	24
93	Silicon contamination effects in the oxidation of carbide-containing cobalt-chromium alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 1998 , 49, 855-863	1.6	22
92	Isothermal transformation behavior of thermally-grown $\text{w}\delta$ ite. <i>Materials at High Temperatures</i> , 2000 , 17, 311-318	1.1	22
91	High Temperature Reaction of MCrAlY Coating Compositions with CaO Deposits. <i>Oxidation of Metals</i> , 2015 , 84, 185-209	1.6	21
90	Structural Stability of Platinum-Group-Metal-Modified γ/γ' Ni -Base Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2009 , 40, 1529-1540	2.3	21
89	Formation of secondary reaction zone in ruthenium bearing nickel based single crystal superalloys with diffusion aluminide coatings. <i>Materials Science and Technology</i> , 2009 , 25, 300-308	1.5	21
88	A combined mapping process for the development of platinum-modified Ni -based superalloys. <i>Jom</i> , 2010 , 62, 48-53	2.1	21
87	Scaling of Carbon Steel in Simulated Reheat Furnace Atmospheres. <i>Oxidation of Metals</i> , 2005 , 63, 15-31	1.6	21
86	An extension of Wagner's analysis of competing scale formation. <i>Oxidation of Metals</i> , 1991 , 35, 317-332	1.6	21
85	Kinetic Study of the Competitive Growth Between Al_2O_3 and Al_2O_3 During the Early Stages of Oxidation of Ni(Pt)Al Bond Coat Systems: Effects of Low Oxygen Partial Pressure and Temperature. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015 , 46, 726-738	2.3	20
84	Planar hand motion guidance using fingertip skin-stretch feedback. <i>IEEE Transactions on Haptics</i> , 2014 , 7, 121-30	2.7	20
83	Rapid Growth of SiO_2 Nanofibers on Silicon-Bearing Alloys. <i>Oxidation of Metals</i> , 2001 , 56, 375-394	1.6	20
82	Quantitative Approach for Determining the Critical Volume Fraction for the Transition from Internal to External Oxidation. <i>Oxidation of Metals</i> , 2015 , 83, 187-201	1.6	19
81	A New Kinetics-Based Approach to Quantifying the Extent of Metastable \rightarrow Stable Phase Transformation in Thermally-Grown Al_2O_3 Scales. <i>Oxidation of Metals</i> , 2013 , 79, 361-381	1.6	19
80	Alloy degradation under oxidizing-sulfidizing conditions at elevated temperatures. <i>Materials Research</i> , 2004 , 7, 61-69	1.5	19

79	The sulfidation behavior of Co-Mo alloys containing various ternary additions. <i>Oxidation of Metals</i> , 1990 , 34, 123-150	1.6	19
78	The Effect of Microstructure on the Type II Hot Corrosion of Ni-Base MCrAlY Alloys. <i>Oxidation of Metals</i> , 2013 , 80, 125-146	1.6	18
77	Phase Transformations in Cast Superaustenitic Stainless Steels. <i>Journal of Materials Engineering and Performance</i> , 2009 , 18, 1285-1293	1.6	18
76	Co-deposited chromium-aluminide coatings. III. Origins of non-equilibrium effects. <i>Surface and Coatings Technology</i> , 1997 , 88, 165-171	4.4	18
75	A combined first-principles/CALPHAD modeling of the Al ₂ O ₃ system. <i>Acta Materialia</i> , 2006 , 54, 4101-4110	8.4	18
74	Interdiffusion in Pt-Containing γ -Ni and γ' -Ni ₃ Al Alloys at 1150°C. <i>Materials Transactions</i> , 2008 , 49, 1550-1557	1.3	17
73	Microstructural Evolution of Secondary Phases in the Cast Duplex Stainless Steels CD3MN and CD3MWCuN. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2007 , 38, 203-211	2.3	17
72	Continuous Cooling Transformation in Cast Duplex Stainless Steels CD3MN and CD3MWCuN. <i>Journal of Materials Engineering and Performance</i> , 2008 , 17, 234-239	1.6	17
71	Effects of Cr on the elastic properties of B2 NiAl: A first-principles study. <i>Scripta Materialia</i> , 2006 , 55, 759-762	5.6	17
70	Understanding slow-growing alumina scale mediated by reactive elements: Perspective via local metal-oxygen bonding strength. <i>Scripta Materialia</i> , 2018 , 150, 139-142	5.6	16
69	Experimental study and thermodynamic modeling of the Al-Co-Cr-Ni system. <i>Science and Technology of Advanced Materials</i> , 2015 , 16, 055001	7.1	16
68	A diffusion analysis of transient subsurface γ -Ni ₃ Al formation during γ -NiAl oxidation. <i>Acta Materialia</i> , 2012 , 60, 5273-5283	8.4	16
67	X-ray photoelectron spectroscopy studies of the early-stage oxidation behavior of (Pt, Ni) ₃ Al(111) surfaces in air. <i>Surface Science</i> , 2008 , 602, 205-215	1.8	16
66	Assessment of the Detrimental Effects of Steam on Al ₂ O ₃ -Scale Establishment. <i>Oxidation of Metals</i> , 2015 , 83, 607-627	1.6	15
65	Surface segregation of Pt in γ -Ni ₃ Al: A first-principles study. <i>Acta Materialia</i> , 2007 , 55, 1641-1647	8.4	15
64	Compositional Factors Affecting the Oxidation Behavior of Pt-Modified γ -Ni/ γ -Ni ₃ Al-Based Alloys and Coatings. <i>Materials Science Forum</i> , 2008 , 595-598, 239-247	0.4	14
63	Segregation of Pt at clean surfaces of (Pt, Ni) ₃ Al. <i>Surface Science</i> , 2007 , 601, 376-380	1.8	13
62	Steam Effects on the Oxidation Behaviour of Al ₂ O ₃ -Scale Forming Ni-Based Alloys. <i>Oxidation of Metals</i> , 2013 , 79, 613-625	1.6	12

61	Evaluation of the hot corrosion resistance of commercial γ -NiAl and developmental γ -Ni ₃ Al + γ -Ni-based coatings. <i>Surface and Coatings Technology</i> , 2007 , 202, 643-647	4.4	12
60	Reinterpretation of Type II Hot Corrosion of Co-Base Alloys Incorporating Synergistic Fluxing. <i>Oxidation of Metals</i> , 2018 , 90, 527-553	1.6	12
59	First-principles calculations, experimental study, and thermodynamic modeling of the Al-Co-Cr system. <i>PLoS ONE</i> , 2015 , 10, e0121386	3.7	11
58	Mechanistic aspects of Pt-modified γ -NiAl alloy oxidation. <i>Materials at High Temperatures</i> , 2009 , 26, 273-280	1.8	11
57	A Thermodynamic Approach to Guide Reactive Element Doping: Hf Additions to NiCrAl. <i>Oxidation of Metals</i> , 2017 , 87, 297-310	1.6	10
56	The Effect of Environmental Sulfur on the Establishment and Structural Stability of Alumina Scales. <i>Oxidation of Metals</i> , 2013 , 80, 517-527	1.6	10
55	The effect of Pt on Ni ₃ Al surface oxidation at low-pressures. <i>Surface Science</i> , 2007 , 601, 146-154	1.8	10
54	Effects of Minor Elements on the Cyclic-Oxidation Behavior of Commercial Fe-Base 800-Series Alloys. <i>Oxidation of Metals</i> , 2004 , 62, 45-69	1.6	10
53	Pt and Hf Additions to NiAl Bond Coats and their Effect on the Lifetime of Thermal Barrier Coatings. <i>Materials Science Forum</i> , 2003 , 426-432, 209-214	0.4	10
52	A new solid-state mode of hot corrosion at temperatures below 700°C. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019 , 70, 1346-1359	1.6	9
51	Phase Transformation Behavior of Al ₂ O ₃ Scale Formed on Pt-Modified γ -Ni ₃ Al-Based Alloys With and Without Hf Addition. <i>Oxidation of Metals</i> , 2012 , 77, 237-251	1.6	9
50	Thermodynamics and Theory of External and Internal Oxidation of Alloys 2010 , 180-194		9
49	A new Ti-rich ternary phase in the Ti-Al-O system. <i>Materials Letters</i> , 1995 , 22, 125-129	3.3	9
48	Modes of Deposit-Induced Accelerated Attack of MCrAlY Systems at 1100 °C. <i>Oxidation of Metals</i> , 2017 , 87, 249-270	1.6	8
47	On the Reaction Mechanism of MCrAlY Alloys with Oxide/Sulfate Deposits at 1100 °C. <i>Oxidation of Metals</i> , 2016 , 86, 385-406	1.6	8
46	Effects of Hf, Y, and Zr on Alumina Scale Growth on NiAlCr and NiAlPt Alloys. <i>Oxidation of Metals</i> , 2019 , 92, 303-313	1.6	8
45	Oxidation Resistance of Pt Containing γ -Ni/ γ -Ni ₃ Al Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2007 , 71, 34-40	0.4	8
44	The development of Fe/Zn intermetallic compounds in solid Fe/Zn and Fe/ZnAl diffusion couples during short-term annealing at 400°C. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1999 , 264, 201-209	5.3	8

43	Oxygen tracer study of the high-temperature oxidation of pure and impure cobalt. <i>Oxidation of Metals</i> , 1989 , 32, 379-390	1.6	8
42	Kinetics of Al ₂ O ₃ -Scale Growth by Oxidation and Dissolution in Molten Silicate. <i>Oxidation of Metals</i> , 2017 , 87, 527-539	1.6	7
41	Alloying-Element Loss During High-Temperature Processing of a Nickel-Base Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014 , 45, 962-979	2.3	7
40	Erratum to Alumina Scale Formation: A New Perspective <i>Journal of the American Ceramic Society</i> , 2011 , 94, 2698-2698	3.8	7
39	Effects of Platinum on the Hot Corrosion Behavior of Hf-Modified γ -Ni ₃ Al + δ -Ni-Based Alloys. <i>Oxidation of Metals</i> , 2011 , 76, 43-55	1.6	7
38	Mechanism behind the Inhibiting Effect of CO ₂ on the Oxidation of AlMg Alloys. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 1434-1442	3.9	7
37	The Effect of Pt Content on the Scale Development on δ -NiAl at Very Early Oxidation Stages. <i>Oxidation of Metals</i> , 2017 , 87, 311-319	1.6	6
36	Extreme Temperature Coatings for Future Gas Turbine Engines. <i>Journal of Engineering for Gas Turbines and Power</i> , 2014 , 136,	1.7	6
35	Human behavioural responses to robot head gaze during robot-to-human handovers 2014 ,		6
34	Compositional Factors Affecting Protective Alumina Formation Under Type II Hot Corrosion Conditions. <i>Oxidation of Metals</i> , 2013 , 80, 541-552	1.6	6
33	Effect of environmental sulfur on the structure of alumina scales formed on Ni-base alloys. <i>Acta Materialia</i> , 2015 , 97, 41-49	8.4	5
32	Extreme Temperature Coatings for Future Gas Turbine Engines 2013 ,		5
31	Phase Stability and Oxidation Behavior of an Alumina Scale-Forming NiCrAlY Alloy. <i>Oxidation of Metals</i> , 2010 , 74, 179-191	1.6	5
30	Promotion of the Al ₂ O ₃ -Scale Formation on NiCrAl Alloys via the Fluorine Effect. <i>Oxidation of Metals</i> , 2015 , 83, 335-349	1.6	4
29	Oxidation Behavior of γ -Ni ₃ Al-Based Ni ₂₀ Al ₈₀ Cr Alloys With and Without Reactive Elements Under Different Heating Conditions. <i>Oxidation of Metals</i> , 2019 , 92, 137-150	1.6	4
28	On the early stages of scale development on Ni ₂ Al ₈₀ Pt with and without Hf additions at 1150°C. <i>Materials at High Temperatures</i> , 2012 , 29, 70-80	1.1	4
27	Effects of Pt on the short-term oxidation behavior of δ -Ni+ γ -Ni ₃ Al alloys. <i>Materials at High Temperatures</i> , 2005 , 22, 321-328	1.1	4
26	The kinetics and mechanism of the sulfidation of Co?Mo alloys. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1989 , 120-121, 39-45	5.3	4

25	Use of Microanalysis to Better Understand the High-Temperature Corrosion Behavior of Chromium Exposed to Multi-Oxidant Environments. <i>Oxidation of Metals</i> , 2019 , 91, 11-31	1.6	4
24	A first-principles based description of the Hf-Ni system supported by high-temperature synchrotron experiments. <i>Thermochimica Acta</i> , 2018 , 668, 142-151	2.9	4
23	Still plenty to explore. <i>Nature Materials</i> , 2018 , 17, 574-576	27	3
22	Effect of environmental sulphur on structure of alumina scales formed on Ni-base alloys. <i>Materials at High Temperatures</i> , 2015 , 32, 10-15	1.1	3
21	On the phase composition changes during high temperature oxidation of Pt-modified ENiAl at 1150°C. <i>Materials at High Temperatures</i> , 2012 , 29, 107-115	1.1	3
20	High-Temperature Corrosion of Metallic Alloys and Coatings 173-228		3
19	Effects of 2 ppm Beryllium on the Oxidation of a 5XXX Aluminum Alloy at Temperatures Between 500 and 750 °C. <i>Minerals, Metals and Materials Series</i> , 2017 , 1465-1474	0.3	3
18	Initial Stages of Na ₂ SO ₄ -Induced Degradation of ENi ₃ Al at 700 °C: Intrinsic Behavior. <i>Oxidation of Metals</i> , 2017 , 88, 649-667	1.6	2
17	NETL Research Efforts on Development and Integration of Advanced Material Systems and Airfoil Cooling Configurations for Future Land-Based Gas Turbine Engines 2014 ,		2
16	Early-Stage Oxidation Behavior of ENi ₃ Al-Based Alloys with and without Pt Addition. <i>Materials Science Forum</i> , 229-238	0.4	2
15	Interdiffusion Behavior in an Aluminide Coated Nickel-Base Alloy at 1150°C 119-132		2
14	Role of Elemental Segregation on the Oxidation Behavior of Additively Manufactured Alloy 625. <i>Jom</i> , 2022 , 74, 1698-1706	2.1	2
13	Effects of sulphate deposits on corrosion behaviour of Ni-base alloys in wet CO ₂ gas at 750 °C. <i>Corrosion Science</i> , 2021 , 181, 109227	6.8	1
12	Effects of Sulphate Deposits on Corrosion Behaviour of Fe-Based Alloys in Wet CO ₂ Gas at 750 °C. <i>Oxidation of Metals</i> , 2021 , 95, 23-43	1.6	1
11	Do Mass Transport Kinetics Always Control Al ₂ O ₃ Scale Growth? An Alternative Explanation for the Efficacy of the Reactive-Element Effect. <i>Oxidation of Metals</i> , 2020 , 94, 1-4	1.6	0
10	STEM Characterization of Metal Dusting Corrosion in Ni-based Alloy 600 and Fe-based Alloy 800H Exposed to a High Pressure Environment. <i>Microscopy and Microanalysis</i> , 2019 , 25, 2332-2333	0.5	
9	Correlations between structure and chemical composition on oxidized (Pt,Ni) ₃ Al(111) surfaces. <i>Surface Science</i> , 2008 , 602, 1092-1100	1.8	
8	The effect of platinum additions on the oxidation of directionally-solidified Ni-Cr-Al-Y-Cr ₃ C ₂ alloys at 1,100 and 1,200°C. <i>Materials at High Temperatures</i> , 1999 , 16, 15-26	1.1	

- 7 Developing Robot Assistants with Communicative Cues for Safe, Fluent HRI. *Studies in Systems, Decision and Control*, **2018**, 247-270 0.8
- 6 Laboratory-Scale Replication of Deposit-Induced Degradation of High-Temperature Turbine Components. *Minerals, Metals and Materials Series*, **2020**, 789-797 0.3
- 5 Evolution of the structure of NiO and CoO scales **1990**, 16-27
- 4 Metallic Filters for Hot Gas Clean-Up **33-46**
- 3 Embedding Tactile Feedback into Handheld Devices: An Aperture-Based Restraint for the Finger or Thumb. *Lecture Notes in Computer Science*, **2010**, 297-302 0.9
- 2 Effects of CO₂ Cover Gas and Yttrium Additions on the Oxidation of AlMg Alloys. *Minerals, Metals and Materials Series*, **2019**, 1025-1032 0.3
- 1 Solid-State Deposit-Induced Corrosion of a Second-Generation Nickel-Based Superalloy Caused by CaO and CaSO₄ Deposits. *Oxidation of Metals*, **1** 1.6