

# Brian Gleeson

## List of Publications by Year in Descending Order

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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	Role of Elemental Segregation on the Oxidation Behavior of Additively Manufactured Alloy 625. <i>Jom</i> , <b>2022</b> , 74, 1698-1706	2.1	2
149	Effects of sulphate deposits on corrosion behaviour of Ni-base alloys in wet CO2 gas at 750 °C. <i>Corrosion Science</i> , <b>2021</b> , 181, 109227	6.8	1
148	Effects of Sulphate Deposits on Corrosion Behaviour of Fe-Based Alloys in Wet CO2 Gas at 750 °C. <i>Oxidation of Metals</i> , <b>2021</b> , 95, 23-43	1.6	1
147	Do Mass Transport Kinetics Always Control Al2O3 Scale Growth? An Alternative Explanation for the Efficacy of the Reactive-Element Effect. <i>Oxidation of Metals</i> , <b>2020</b> , 94, 1-4	1.6	0
146	Laboratory-Scale Replication of Deposit-Induced Degradation of High-Temperature Turbine Components. <i>Minerals, Metals and Materials Series</i> , <b>2020</b> , 789-797	0.3	
145	A new solid-state mode of hot corrosion at temperatures below 700°C. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2019</b> , 70, 1346-1359	1.6	9
144	Effects of Hf, Y, and Zr on Alumina Scale Growth on NiAlCr and NiAlPt Alloys. <i>Oxidation of Metals</i> , <b>2019</b> , 92, 303-313	1.6	8
143	Oxidation Behavior of $\gamma$ -Ni3Al-Based Ni $\alpha$ 0Al $\beta$ Cr Alloys With and Without Reactive Elements Under Different Heating Conditions. <i>Oxidation of Metals</i> , <b>2019</b> , 92, 137-150	1.6	4
142	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> , <b>2019</b> , 25, 2332-2333	0.5	
141	Effects of CO2 Cover Gas and Yttrium Additions on the Oxidation of AlMg Alloys. <i>Minerals, Metals and Materials Series</i> , <b>2019</b> , 1025-1032	0.3	
140	Use of Microanalysis to Better Understand the High-Temperature Corrosion Behavior of Chromium Exposed to Multi-Oxidant Environments. <i>Oxidation of Metals</i> , <b>2019</b> , 91, 11-31	1.6	4
139	Mechanism behind the Inhibiting Effect of CO2 on the Oxidation of AlMg Alloys. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 1434-1442	3.9	7
138	Understanding slow-growing alumina scale mediated by reactive elements: Perspective via local metal-oxygen bonding strength. <i>Scripta Materialia</i> , <b>2018</b> , 150, 139-142	5.6	16
137	Still plenty to explore. <i>Nature Materials</i> , <b>2018</b> , 17, 574-576	27	3
136	Developing Robot Assistants with Communicative Cues for Safe, Fluent HRI. <i>Studies in Systems, Decision and Control</i> , <b>2018</b> , 247-270	0.8	
135	A first-principles based description of the Hf-Ni system supported by high-temperature synchrotron experiments. <i>Thermochimica Acta</i> , <b>2018</b> , 668, 142-151	2.9	4
134	Reinterpretation of Type II Hot Corrosion of Co-Base Alloys Incorporating Synergistic Fluxing. <i>Oxidation of Metals</i> , <b>2018</b> , 90, 527-553	1.6	12

133	A Thermodynamic Approach to Guide Reactive Element Doping: Hf Additions to NiCrAl. <i>Oxidation of Metals</i> , <b>2017</b> , 87, 297-310	1.6	10
132	The Effect of Pt Content on the Scale Development on NiAl at Very Early Oxidation Stages. <i>Oxidation of Metals</i> , <b>2017</b> , 87, 311-319	1.6	6
131	Initial Stages of Na <sub>2</sub> SO <sub>4</sub> -Induced Degradation of Ni <sub>3</sub> Al at 700 °C: I-Intrinsic Behavior. <i>Oxidation of Metals</i> , <b>2017</b> , 88, 649-667	1.6	2
130	Kinetics of Al <sub>2</sub> O <sub>3</sub> -Scale Growth by Oxidation and Dissolution in Molten Silicate. <i>Oxidation of Metals</i> , <b>2017</b> , 87, 527-539	1.6	7
129	Modes of Deposit-Induced Accelerated Attack of MCrAlY Systems at 1100 °C. <i>Oxidation of Metals</i> , <b>2017</b> , 87, 249-270	1.6	8
128	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> , <b>2017</b> , 1465-1474	0.3	3
127	On the Reaction Mechanism of MCrAlY Alloys with Oxide-Sulfate Deposits at 1100 °C. <i>Oxidation of Metals</i> , <b>2016</b> , 86, 385-406	1.6	8
126	The Band Structure of Polycrystalline Al <sub>2</sub> O <sub>3</sub> and Its Influence on Transport Phenomena. <i>Journal of the American Ceramic Society</i> , <b>2016</b> , 99, 733-747	3.8	35
125	Promotion of the Al <sub>2</sub> O <sub>3</sub> -Scale Formation on NiCrAl Alloys via the Fluorine Effect. <i>Oxidation of Metals</i> , <b>2015</b> , 83, 335-349	1.6	4
124	Effect of environmental sulfur on the structure of alumina scales formed on Ni-base alloys. <i>Acta Materialia</i> , <b>2015</b> , 97, 41-49	8.4	5
123	Quantitative Approach for Determining the Critical Volume Fraction for the Transition from Internal to External Oxidation. <i>Oxidation of Metals</i> , <b>2015</b> , 83, 187-201	1.6	19
122	Assessment of the Detrimental Effects of Steam on Al <sub>2</sub> O <sub>3</sub> -Scale Establishment. <i>Oxidation of Metals</i> , <b>2015</b> , 83, 607-627	1.6	15
121	Kinetic Study of the Competitive Growth Between Al <sub>2</sub> O <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> 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> , <b>2015</b> , 46, 726-738	2.3	20
120	Reaction morphologies developed by nickel aluminides in type II hot corrosion conditions: The effect of chromium. <i>Corrosion Science</i> , <b>2015</b> , 101, 32-46	6.8	27
119	On the Hot Corrosion of Nickel at 700 °C. <i>Oxidation of Metals</i> , <b>2015</b> , 84, 567-584	1.6	28
118	Experimental study and thermodynamic modeling of the Al-Co-Cr-Ni system. <i>Science and Technology of Advanced Materials</i> , <b>2015</b> , 16, 055001	7.1	16
117	First-principles calculations, experimental study, and thermodynamic modeling of the Al-Co-Cr system. <i>PLoS ONE</i> , <b>2015</b> , 10, e0121386	3.7	11
116	Effect of environmental sulphur on structure of alumina scales formed on Ni-base alloys. <i>Materials at High Temperatures</i> , <b>2015</b> , 32, 10-15	1.1	3

115	High Temperature Reaction of MCrAlY Coating Compositions with CaO Deposits. <i>Oxidation of Metals</i> , <b>2015</b> , 84, 185-209	1.6	21
114	Planar hand motion guidance using fingertip skin-stretch feedback. <i>IEEE Transactions on Haptics</i> , <b>2014</b> , 7, 121-30	2.7	20
113	Extreme Temperature Coatings for Future Gas Turbine Engines. <i>Journal of Engineering for Gas Turbines and Power</i> , <b>2014</b> , 136,	1.7	6
112	Human behavioural responses to robot head gaze during robot-to-human handovers <b>2014</b> ,		6
111	Meet me where i'm gazing <b>2014</b> ,		86
110	NETL Research Efforts on Development and Integration of Advanced Material Systems and Airfoil Cooling Configurations for Future Land-Based Gas Turbine Engines <b>2014</b> ,		2
109	Alloying-Element Loss During High-Temperature Processing of a Nickel-Base Superalloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2014</b> , 45, 962-979	2.3	7
108	The Effect of Microstructure on the Type II Hot Corrosion of Ni-Base MCrAlY Alloys. <i>Oxidation of Metals</i> , <b>2013</b> , 80, 125-146	1.6	18
107	Steam Effects on the Oxidation Behaviour of Al <sub>2</sub> O <sub>3</sub> -Scale Forming Ni-Based Alloys. <i>Oxidation of Metals</i> , <b>2013</b> , 79, 613-625	1.6	12
106	Gestures for industry Intuitive human-robot communication from human observation <b>2013</b> ,		57
105	A New Kinetics-Based Approach to Quantifying the Extent of Metastable $\rightarrow$ Stable Phase Transformation in Thermally-Grown Al <sub>2</sub> O <sub>3</sub> Scales. <i>Oxidation of Metals</i> , <b>2013</b> , 79, 361-381	1.6	19
104	On the growth of Al <sub>2</sub> O <sub>3</sub> scales. <i>Acta Materialia</i> , <b>2013</b> , 61, 6670-6683	8.4	103
103	Compositional Factors Affecting Protective Alumina Formation Under Type II Hot Corrosion Conditions. <i>Oxidation of Metals</i> , <b>2013</b> , 80, 541-552	1.6	6
102	The Effect of Environmental Sulfur on the Establishment and Structural Stability of Alumina Scales. <i>Oxidation of Metals</i> , <b>2013</b> , 80, 517-527	1.6	10
101	Extreme Temperature Coatings for Future Gas Turbine Engines <b>2013</b> ,		5
100	A diffusion analysis of transient subsurface $\delta$ -Ni <sub>3</sub> Al formation during $\delta$ -NiAl oxidation. <i>Acta Materialia</i> , <b>2012</b> , 60, 5273-5283	8.4	16
99	Phase Transformation Behavior of Al <sub>2</sub> O <sub>3</sub> Scale Formed on Pt-Modified $\delta$ -Ni <sub>3</sub> Al-Based Alloys With and Without Hf Addition. <i>Oxidation of Metals</i> , <b>2012</b> , 77, 237-251	1.6	9
98	On the phase composition changes during high temperature oxidation of Pt-modified $\delta$ -NiAl at 1150°C. <i>Materials at High Temperatures</i> , <b>2012</b> , 29, 107-115	1.1	3

97	On the early stages of scale development on Ni <sub>2</sub> Al <sub>3</sub> O <sub>4</sub> Pt with and without Hf additions at 1150°C. <i>Materials at High Temperatures</i> , <b>2012</b> , 29, 70-80	1.1	4
96	Alumina Scale Formation: A New Perspective. <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, s146-s153	3.3	110
95	Erratum to Alumina Scale Formation: A New Perspective□ <i>Journal of the American Ceramic Society</i> , <b>2011</b> , 94, 2698-2698	3.8	7
94	Compositional effects on the Type I hot corrosion of NiAl alloys. <i>Surface and Coatings Technology</i> , <b>2011</b> , 206, 1552-1557	4.4	24
93	Effects of Platinum on the Hot Corrosion Behavior of Hf-Modified Ni <sub>3</sub> Al + Ni-Based Alloys. <i>Oxidation of Metals</i> , <b>2011</b> , 76, 43-55	1.6	7
92	Thermodynamics and Theory of External and Internal Oxidation of Alloys <b>2010</b> , 180-194		9
91	A combined mapping process for the development of platinum-modified Ni-based superalloys. <i>Jom</i> , <b>2010</b> , 62, 48-53	2.1	21
90	Phase Stability and Oxidation Behavior of an Alumina Scale-Forming NiCrAlY Alloy. <i>Oxidation of Metals</i> , <b>2010</b> , 74, 179-191	1.6	5
89	Perception of Direction for Applied Tangential Skin Displacement: Effects of Speed, Displacement, and Repetition. <i>IEEE Transactions on Haptics</i> , <b>2010</b> , 3, 177-188	2.7	79
88	Design of a Fingertip-Mounted Tactile Display with Tangential Skin Displacement Feedback. <i>IEEE Transactions on Haptics</i> , <b>2010</b> , 3, 297-301	2.7	100
87	Embedding Tactile Feedback into Handheld Devices: An Aperture-Based Restraint for the Finger or Thumb. <i>Lecture Notes in Computer Science</i> , <b>2010</b> , 297-302	0.9	
86	Compositional factors affecting the establishment and maintenance of Al <sub>2</sub> O <sub>3</sub> scales on NiAlPt systems. <i>Journal of Materials Science</i> , <b>2009</b> , 44, 1704-1710	4.3	64
85	Early-Stage Oxidation Behavior of Pt-Modified Ni <sub>3</sub> Al-Based Alloys with and without Hf Addition. <i>Oxidation of Metals</i> , <b>2009</b> , 71, 5-19	1.6	37
84	Sulfur Segregation at Al <sub>2</sub> O <sub>3</sub> /Pt+ Ni <sub>3</sub> Al Interfaces: Effects of Pt, Cr and Hf Additions. <i>Oxidation of Metals</i> , <b>2009</b> , 72, 109-124	1.6	36
83	Structural Stability of Platinum-Group-Metal-Modified Ni <sub>3</sub> Al-Ni-Base Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2009</b> , 40, 1529-1540	2.3	21
82	Phase Transformations in Cast Superaustenitic Stainless Steels. <i>Journal of Materials Engineering and Performance</i> , <b>2009</b> , 18, 1285-1293	1.6	18
81	Formation of secondary reaction zone in ruthenium bearing nickel based single crystal superalloys with diffusion aluminide coatings. <i>Materials Science and Technology</i> , <b>2009</b> , 25, 300-308	1.5	21
80	Mechanistic aspects of Pt-modified NiAl alloy oxidation. <i>Materials at High Temperatures</i> , <b>2009</b> , 26, 273-280		11

79	Compositional Factors Affecting the Oxidation Behavior of Pt-Modified $\gamma$ -Ni/ $\gamma$ -Ni <sub>3</sub> Al-Based Alloys and Coatings. <i>Materials Science Forum</i> , <b>2008</b> , 595-598, 239-247	0.4	14
78	Interdiffusion in Pt-Containing $\gamma$ -Ni and $\gamma'$ -Ni <sub>3</sub> Al Alloys at 1150°C. <i>Materials Transactions</i> , <b>2008</b> , 49, 1550-1557	1.3	17
77	Continuous Cooling Transformation in Cast Duplex Stainless Steels CD3MN and CD3MWCuN. <i>Journal of Materials Engineering and Performance</i> , <b>2008</b> , 17, 234-239	1.6	17
76	X-ray photoelectron spectroscopy studies of the early-stage oxidation behavior of (Pt, Ni) <sub>3</sub> Al(111) surfaces in air. <i>Surface Science</i> , <b>2008</b> , 602, 205-215	1.8	16
75	Correlations between structure and chemical composition on oxidized (Pt,Ni) <sub>3</sub> Al(111) surfaces. <i>Surface Science</i> , <b>2008</b> , 602, 1092-1100	1.8	
74	Creep in $\gamma$ -Al <sub>2</sub> O <sub>3</sub> thermally grown on $\gamma$ -NiAl and NiAlPt alloys. <i>Surface and Coatings Technology</i> , <b>2007</b> , 202, 608-612	4.4	25
73	Evaluation of the hot corrosion resistance of commercial $\gamma$ -NiAl and developmental $\gamma$ -Ni <sub>3</sub> Al + $\gamma$ -Ni-based coatings. <i>Surface and Coatings Technology</i> , <b>2007</b> , 202, 643-647	4.4	12
72	Effects of targeted $\gamma$ -Ni/ $\gamma$ -Ni <sub>3</sub> Al-based coating compositions on oxidation behavior. <i>Surface and Coatings Technology</i> , <b>2007</b> , 202, 628-631	4.4	46
71	The effect of Pt on Ni <sub>3</sub> Al surface oxidation at low-pressures. <i>Surface Science</i> , <b>2007</b> , 601, 146-154	1.8	10
70	Segregation of Pt at clean surfaces of (Pt, Ni) <sub>3</sub> Al. <i>Surface Science</i> , <b>2007</b> , 601, 376-380	1.8	13
69	Surface segregation of Pt in $\gamma$ -Ni <sub>3</sub> Al: A first-principles study. <i>Acta Materialia</i> , <b>2007</b> , 55, 1641-1647	8.4	15
68	Isothermal nature of martensite formation in Pt-modified $\gamma$ -NiAl alloys. <i>Acta Materialia</i> , <b>2007</b> , 55, 2433-2441	8.4	28
67	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> , <b>2007</b> , 38, 203-211	2.3	17
66	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> , <b>2007</b> , 38, 2974-2983	2.3	80
65	Oxidation Resistance of Pt Containing $\gamma$ -Ni/ $\gamma$ -Ni <sub>3</sub> Al Alloys. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , <b>2007</b> , 71, 34-40	0.4	8
64	A first-principles study of the site preference of Cr in B <sub>2</sub> NiAl. <i>Scripta Materialia</i> , <b>2006</b> , 54, 405-410	5.6	24
63	Site preference of transition metal elements in Ni <sub>3</sub> Al. <i>Scripta Materialia</i> , <b>2006</b> , 55, 433-436	5.6	107
62	Effects of Cr on the elastic properties of B <sub>2</sub> NiAl: A first-principles study. <i>Scripta Materialia</i> , <b>2006</b> , 55, 759-762	5.6	17

61	Oxidation Behavior of Pt+HF-Modified $\text{Ni} + \text{Ni}_3\text{Al}$ Alloys. <i>Materials Science Forum</i> , <b>2006</b> , 522-523, 221-228	8.4	33
60	Early-Stage Oxidation Behavior of $\text{Ni}_3\text{Al}$ -Based Alloys with and without Pt Addition. <i>Materials Science Forum</i> , <b>2006</b> , 522-523, 229-238	0.4	31
59	Thermal Barrier Coatings for Aeroengine Applications. <i>Journal of Propulsion and Power</i> , <b>2006</b> , 22, 375-388	2.8	206
58	Site preference of ternary alloying elements in $\text{Ni}_3\text{Al}$ : A first-principles study. <i>Acta Materialia</i> , <b>2006</b> , 54, 1147-1154	8.4	100
57	Effects of Pt on the elastic properties of $\text{B}_2\text{NiAl}$ : A combined first-principles and experimental study. <i>Acta Materialia</i> , <b>2006</b> , 54, 2361-2369	8.4	26
56	A combined first-principles/CALPHAD modeling of the $\text{AlPt}$ system. <i>Acta Materialia</i> , <b>2006</b> , 54, 4101-4110	8.4	18
55	Hot corrosion and oxidation behavior of a novel Pt + HF-modified $\text{Ni}_3\text{Al} + \text{Ni}$ -based coating. <i>Surface and Coatings Technology</i> , <b>2006</b> , 201, 3836-3840	4.4	59
54	Effects of Silicon on the Oxidation Behavior of Ni-Base Chromia-Forming Alloys. <i>Oxidation of Metals</i> , <b>2006</b> , 65, 101-122	1.6	74
53	Effects of Pt on the short-term oxidation behavior of $\text{Ni} + \text{Ni}_3\text{Al}$ alloys. <i>Materials at High Temperatures</i> , <b>2005</b> , 22, 321-328	1.1	4
52	A combined first-principles and experimental study of the lattice site preference of Pt in $\text{B}_2\text{NiAl}$ . <i>Acta Materialia</i> , <b>2005</b> , 53, 2101-2109	8.4	62
51	$\text{NiPt(Al)}$ and phase equilibria in the $\text{NiAlPt}$ system at 1150 °C. <i>Acta Materialia</i> , <b>2005</b> , 53, 3319-3328	8.4	87
50	Development of Re-based diffusion barrier coatings on nickel based superalloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2005</b> , 56, 923-929	1.6	41
49	Interdiffusion behavior of Pt-modified $\text{Ni} + \text{Ni}_3\text{Al}$ alloys coupled to Ni-Al-based alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2005</b> , 36, 1769-1775	2.3	65
48	Scaling of Carbon Steel in Simulated Reheat Furnace Atmospheres. <i>Oxidation of Metals</i> , <b>2005</b> , 63, 15-31	1.6	21
47	First-principles study of phase stability in pseudobinary $(\text{Ni}_{1-x}\text{Pt}_x)_3\text{Al}$ alloys. <i>Physical Review B</i> , <b>2005</b> , 72,	3.3	29
46	Alloy degradation under oxidizing-sulfidizing conditions at elevated temperatures. <i>Materials Research</i> , <b>2004</b> , 7, 61-69	1.5	19
45	Initial phase transformation diagram determination for the CD3MN cast duplex stainless steel. <i>Scripta Materialia</i> , <b>2004</b> , 50, 1351-1354	5.6	38
44	Effects of Minor Elements on the Cyclic-Oxidation Behavior of Commercial Fe-Base 800-Series Alloys. <i>Oxidation of Metals</i> , <b>2004</b> , 62, 45-69	1.6	10

43	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> , <b>2004</b> , 35, 3377-3386	2.3	31
42	Effects of Platinum on the Interdiffusion and Oxidation Behavior of Ni-Al-Based Alloys. <i>Materials Science Forum</i> , <b>2004</b> , 461-464, 213-222	0.4	192
41	Thermodynamic considerations of the beneficial effect of halogens on the oxidation resistance of TiAl-based alloys. <i>Intermetallics</i> , <b>2003</b> , 11, 387-398	3.5	97
40	Pt and Hf Additions to NiAl Bond Coats and their Effect on the Lifetime of Thermal Barrier Coatings. <i>Materials Science Forum</i> , <b>2003</b> , 426-432, 209-214	0.4	10
39	Alloy phase transformations driven by high temperature corrosion processes. <i>Corrosion Science</i> , <b>2002</b> , 44, 345-357	6.8	56
38	Rapid Growth of SiO <sub>2</sub> Nanofibers on Silicon-Bearing Alloys. <i>Oxidation of Metals</i> , <b>2001</b> , 56, 375-394	1.6	20
37	Isothermal transformation behavior of thermally-grown wüstite. <i>Materials at High Temperatures</i> , <b>2000</b> , 17, 311-318	1.1	22
36	Alloy design strategies for promoting protective oxide-scale formation. <i>Jom</i> , <b>2000</b> , 52, 16-21	2.1	145
35	The effect of platinum additions on the oxidation of directionally-solidified Ni-Cr-Al-Y-Cr <sub>3</sub> C <sub>2</sub> alloys at 1,100 and 1,200°C. <i>Materials at High Temperatures</i> , <b>1999</b> , 16, 15-26	1.1	
34	Formation of Z-Ti <sub>50</sub> Al <sub>30</sub> O <sub>20</sub> in the sub-oxide zones of TiAl-based alloys during oxidation at 1000°C. <i>Acta Materialia</i> , <b>1999</b> , 47, 2937-2949	8.4	74
33	The development of Fe <sub>2</sub> N intermetallic compounds in solid Fe/Zn and Fe/ZnAl diffusion couples during short-term annealing at 400°C. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1999</b> , 264, 201-209	5.3	8
32	Beneficial Effects of Rhenium Additions on the Cyclic-Oxidation Resistance of NiAl + Cr Alloys. <i>Oxidation of Metals</i> , <b>1998</b> , 50, 399-429	1.6	26
31	The Long-Term, Cyclic-Oxidation Behavior of Selected Chromia-Forming Alloys. <i>Oxidation of Metals</i> , <b>1998</b> , 49, 373-399	1.6	45
30	Factors Affecting Chromium Carbide Precipitate Dissolution During Alloy Oxidation. <i>Oxidation of Metals</i> , <b>1998</b> , 50, 139-165	1.6	68
29	Silicon contamination effects in the oxidation of carbide-containing cobalt-chromium alloys. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>1998</b> , 49, 855-863	1.6	22
28	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 &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1998</b> , 251, 87-93	5.3	34
27	Laser Raman spectroscopy: a technique for rapid characterisation of oxide scale layers. <i>Materials Science and Technology</i> , <b>1998</b> , 14, 373-376	1.5	35
26	The cyclic oxidation behaviour of Cr + NiAl alloys with and without trace Zr addition. <i>Corrosion Science</i> , <b>1997</b> , 39, 639-654	6.8	36



25	Interdiffusion behaviour in aluminide-coated RenB0H at 1150°C. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>1997</b> , 224, 27-32	5.3	37
24	Co-deposited chromium-aluminide coatings. III. Origins of non- equilibrium effects. <i>Surface and Coatings Technology</i> , <b>1997</b> , 88, 165-171	4.4	18
23	The deposition of aluminide and silicide coatings on TiAl using the halide-activated pack cementation method. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>1996</b> , 27, 3761-3772	2.3	74
22	Calculation of precipitate dissolution zone kinetics in oxidising binary two-phase alloys. <i>Acta Materialia</i> , <b>1996</b> , 44, 4033-4038	8.4	26
21	Oxidation of multicomponent two-phase alloys. <i>Oxidation of Metals</i> , <b>1995</b> , 44, 211-237	1.6	107
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18	Codeposited Chromium-Aluminide Coatings: II . Kinetics and Morphology of Coating Growth. <i>Journal of the Electrochemical Society</i> , <b>1994</b> , 141, 2690-2698	3.9	33
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