

# John H Perepezko

## List of Publications by Year in descending order

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201  
papers

6,138  
citations

76196

40  
h-index

82410

72  
g-index

204  
all docs

204  
docs citations

204  
times ranked

3984  
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidation kinetics and microstructure evolution of high Mn stainless-steel alloy in CO <sub>2</sub> at 700Å°C. Corrosion Science, 2022, 195, 110013.	3.0	5
2	Alloying reactions in nanostructured multilayers during intense deformation. International Journal of Materials Research, 2022, 94, 1111-1116.	0.1	0
3	Surface Diffusion Is Controlled by Bulk Fragility across All Glass Types. Physical Review Letters, 2022, 128, 075501.	2.9	13
4	Defect recovery processes in Cr-B binary and Cr-Al-B MAB phases: structure-dependent radiation tolerance. Acta Materialia, 2022, 235, 118099.	3.8	10
5	Liquid-liquid transition kinetics in D-mannitol. Journal of Chemical Physics, 2022, 157, .	1.2	2
6	Trimodal shear band nucleation distribution in a Gd-based metallic glass via nanoindentation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 801, 140402.	2.6	12
7	Varying kinetic stability, icosahedral ordering, and mechanical properties of a model Zr-Cu-Al metallic glass by sputtering. Physical Review Materials, 2021, 5, .	0.9	3
8	Mo-Silicide Alloys for High-Temperature Structural Applications. Materials Performance and Characterization, 2021, 10, 20200183.	0.2	7
9	Mechanisms of bulk and surface diffusion in metallic glasses determined from molecular dynamics simulations. Acta Materialia, 2021, 209, 116794.	3.8	20
10	Nanoglass and Nanocrystallization Reactions in Metallic Glasses. Frontiers in Materials, 2021, 8, .	1.2	5
11	Oxidation of Mo-Si-B Alloys and Coatings in a Water Vapor Environment. Oxidation of Metals, 2021, 96, 323-332.	1.0	3
12	Enhanced oxidation resistance of (Mo <sub>95</sub> W <sub>5</sub> ) <sub>85</sub> Ta <sub>10</sub> (TiZr) <sub>5</sub> refractory multi-principal element alloy up to 1300Å°C. Acta Materialia, 2021, 215, 117114.	3.8	14
13	Analysis of Nucleation and Glass Formation by Chip Calorimetry. Applied Sciences (Switzerland), 2021, 11, 7652.	1.3	0
14	A pulse oxidation facility for the study of oxide nucleation behavior. Review of Scientific Instruments, 2021, 92, 093902.	0.6	0
15	Molecular simulation-derived features for machine learning predictions of metal glass forming ability. Computational Materials Science, 2021, 199, 110728.	1.4	5
16	Microstructural Evaluation and Highly Efficient Photocatalytic Degradation Characteristic of Nanostructured Mg <sub>65</sub> Ni <sub>20</sub> Y <sub>15</sub> ~xLa <sub>x</sub> (X=1, 2, 3) Alloys. Journal of Inorganic and Organometallic Polymers and Materials, 2020, 30, 494-503.	1.9	7
17	Microstructure, microhardness and oxidation behavior of Mo-Si-B alloys in the Mo <sub>55</sub> +Mo <sub>2</sub> B+Mo <sub>5</sub> SiB <sub>2</sub> three phase region. Intermetallics, 2020, 116, 106618.	1.8	18
18	Coating Reactions on Vanadium and V-Si-B Alloys during Powder Pack-Cementation. Materials, 2020, 13, 4099.	1.3	3

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19	Crystallographic anisotropy of nonequilibrium solute capture. <i>Acta Materialia</i> , 2020, 198, 223-229.	3.8	8
20	Surface dynamics measurement on a gold based metallic glass. <i>Applied Physics Letters</i> , 2020, 116, .	1.5	9
21	Competition between thermodynamics, kinetics and growth mode in the early-stage oxidation of an equimolar CoCrFeNi alloy. <i>Acta Materialia</i> , 2020, 196, 651-659.	3.8	35
22	Creep of an oxidation resistant coated Mo-9Si-8B alloy. <i>Intermetallics</i> , 2020, 120, 106743.	1.8	5
23	Reactive modeling of Mo <sub>3</sub> Si oxidation and resulting silica morphology. <i>Acta Materialia</i> , 2020, 187, 93-102.	3.8	6
24	Resistance of a Mo-Si-B-Based Coating to Environmental Salt-Based Hot Corrosion. <i>Oxidation of Metals</i> , 2020, 93, 387-399.	1.0	4
25	Mapping the Viscoelastic Heterogeneity at the Nanoscale in Metallic Glasses by Static Force Spectroscopy. <i>Nano Letters</i> , 2020, 20, 7558-7565.	4.5	29
26	Separating $\tau^2$ relaxation from $\tau^{\pm}$ relaxation in fragile metallic glasses based on ultrafast flash differential scanning calorimetry. <i>Physical Review Materials</i> , 2020, 4, .	0.9	22
27	Al-Based Amorphous Metallic Plastics. <i>Advanced Engineering Materials</i> , 2019, 21, 1800930.	1.6	10
28	Flash DSC determination of the delay time for primary crystallization and minor alloying effect in marginal Al-based metallic glasses. <i>Thermochimica Acta</i> , 2019, 677, 91-98.	1.2	12
29	Oxidation resistance of a Mo-W-Si-B alloy at 1000-1300°C: The effect of a multicomponent Mo-Si-B coating. <i>Applied Surface Science</i> , 2019, 470, 289-295.	3.1	24
30	Examination of B in the Mo solid solution (Moss) in Mo <sub>5</sub> SiB <sub>2</sub> -Mo <sub>2</sub> B alloys. <i>Scripta Materialia</i> , 2019, 163, 62-65.	2.6	12
31	Solidification of Ni-Re Peritectic Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, 772-788.	1.1	3
32	Solidification of Ni-Re Peritectic Alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2019, 50, .	1.1	0
33	Evolution of NiO Island Size Distributions during the Oxidation of a Ni <sub>5</sub> Cr Alloy: Experiment and Modeling. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 9136-9146.	4.0	13
34	Vitrification, crystallization, and atomic structure of deformed and quenched Ni <sub>60</sub> Nb <sub>40</sub> metallic glass. <i>Journal of Non-Crystalline Solids</i> , 2018, 491, 133-140.	1.5	13
35	WO <sub>2</sub> triggered nucleation and growth of ultra-long W <sub>18</sub> O <sub>49</sub> structures, from nanobundles to single-crystalline microrod. <i>Acta Materialia</i> , 2018, 148, 55-62.	3.8	9
36	High temperature environmental resistant Mo-Si-B based coatings. <i>International Journal of Refractory Metals and Hard Materials</i> , 2018, 71, 246-254.	1.7	36

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37	Nonequilibrium Solute Capture in Passivating Oxide Films. <i>Physical Review Letters</i> , 2018, 121, 145701.	2.9	67
38	Investigation of the nucleation delay time in Al-based metallic glasses by high rate calorimetry. <i>Journal of Non-Crystalline Solids</i> , 2018, 502, 9-14.	1.5	7
39	In Situ Observations of Early Stage Oxidation of Ni-Cr and Ni-Cr-Mo Alloys. <i>Corrosion</i> , 2018, 74, 939-946.	0.5	39
40	Synthesis of Sm-Al metallic glasses designed by molecular dynamics simulations. <i>Journal of Materials Science</i> , 2018, 53, 11488-11499.	1.7	3
41	Metals and Alloys. <i>Handbook of Thermal Analysis and Calorimetry</i> , 2018, 6, 781-828.	1.6	1
42	Quantitative characterization of high temperature oxidation using electron tomography and energy-dispersive X-ray spectroscopy. <i>Scientific Reports</i> , 2018, 8, 10239.	1.6	6
43	Polyamorphism and liquid-liquid transformations in D-mannitol. <i>Journal of Chemical Physics</i> , 2018, 149, 074505.	1.2	14
44	Repassivation Behavior of Individual Grain Facets on Dilute Ni-Cr and Ni-Cr-Mo Alloys in Acidified Chloride Solution. <i>Journal of Physical Chemistry C</i> , 2018, 122, 19499-19513.	1.5	31
45	Environmental Resistant Coatings for High Temperature Mo and Nb Silicide Alloys. <i>MRS Advances</i> , 2017, 2, 1323-1334.	0.5	5
46	Hot Corrosion of Mo-Si-B Coatings. <i>Oxidation of Metals</i> , 2017, 87, 705-715.	1.0	14
47	Mechanical properties and dislocation character of YB4 and YB6. <i>Intermetallics</i> , 2017, 89, 86-91.	1.8	8
48	Enhanced Oxidation Resistance of Mo-Si-B-Ti Alloys by Pack Cementation. <i>Oxidation of Metals</i> , 2017, 88, 267-277.	1.0	23
49	Interdiffusion in the Ni-Re System: Evaluation of Uncertainties. <i>Journal of Phase Equilibria and Diffusion</i> , 2017, 38, 750-763.	0.5	10
50	Environmentally Resistant Mo-Si-B-Based Coatings. <i>Journal of Thermal Spray Technology</i> , 2017, 26, 929-940.	1.6	31
51	Deformation-driven catalysis of nanocrystallization in amorphous Al alloys. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1428-1433.	1.5	3
52	Kinetic Studies of Melting, Crystallization, and Glass Formation. , 2016, , 633-660.		1
53	Focus: Nucleation kinetics of shear bands in metallic glass. <i>Journal of Chemical Physics</i> , 2016, 145, 211803.	1.2	10
54	Direct observation of incommensurate structure in Mo <sub>3</sub> Si. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, 660-666.	0.0	3

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55	Elastic and inelastic mean free paths of 200 keV electrons in metallic glasses. <i>Ultramicroscopy</i> , 2016, 171, 89-95.	0.8	8
56	Solidification of Bcc/T1/T2 three-phase microstructure in Mo-Nb-Si-B alloys. <i>Intermetallics</i> , 2016, 72, 1-8.	1.8	17
57	Increasing the kinetic stability of bulk metallic glasses. <i>Acta Materialia</i> , 2016, 104, 25-32.	3.8	86
58	Mo-Si-B Coating for Improved Oxidation Resistance of Niobium. <i>Advanced Engineering Materials</i> , 2015, 17, 1068-1075.	1.6	14
59	Crystallography of Bcc/T <sub>1</sub> /T <sub>2</sub> Three-Phase Microstructure in the Directionally Solidified Mo-Nb-Si-B Alloy. <i>Materials Research Society Symposia Proceedings</i> , 2015, 1760, 133.	0.1	6
60	Interfacial mixing of nickel vanadium multilayers induced by cold rolling. <i>Acta Materialia</i> , 2015, 87, 68-77.	3.8	6
61	Oxidation behavior of pack-cemented Si-B oxidation protection coatings for Mo-Si-B alloys at 1300°C. <i>Surface and Coatings Technology</i> , 2015, 266, 57-63.	2.2	52
62	Mixing behaviors in Cu/Ni and Ni/V multilayers induced by cold rolling. <i>Journal of Alloys and Compounds</i> , 2015, 643, S246-S249.	2.8	4
63	Analysis of Melt Undercooling and Crystallization Kinetics. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 4898-4907.	1.1	4
64	An ultra-high temperature Mo-Si-B based coating for oxidation protection of NbSS/Nb5Si3 composites. <i>Applied Surface Science</i> , 2015, 337, 38-44.	3.1	83
65	Possible existence of two amorphous phases of $\alpha$ -mannitol related by a first-order transition. <i>Journal of Chemical Physics</i> , 2015, 142, 244504.	1.2	51
66	Intermixing in Cu/Ni multilayers induced by cold rolling. <i>Journal of Applied Physics</i> , 2015, 117, 165902.	1.1	3
67	Nanocalorimetry measurements of metastable states. <i>Thermochimica Acta</i> , 2015, 603, 24-28.	1.2	28
68	Dependence of crystal nucleation on prior liquid overheating by differential fast scanning calorimeter. <i>Journal of Chemical Physics</i> , 2014, 140, 104513.	1.2	50
69	Synthesis, Thermodynamic Stability and Diffusion Mechanism of Al <sub>5</sub> Fe <sub>2</sub> -Based Coatings. <i>Oxidation of Metals</i> , 2014, 81, 167-177.	1.0	23
70	The ultrastable kinetic behavior of an Au-based nanoglass. <i>Acta Materialia</i> , 2014, 79, 30-36.	3.8	97
71	Nucleation of shear bands in amorphous alloys. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3938-3942.	3.3	93
72	Suppressing CMAS attack with a MoSiB-based coating. <i>Surface and Coatings Technology</i> , 2014, 239, 138-146.	2.2	20

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73	Perspectives on point defect thermodynamics. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 97-129.	0.7	58
74	Thermodynamic modelling of liquids: CALPHAD approaches and contributions from statistical physics. <i>Physica Status Solidi (B): Basic Research</i> , 2014, 251, 33-52.	0.7	28
75	Application of Plasma Spraying as a Precursor in the Synthesis of Oxidation-Resistant Coatings. <i>Journal of Thermal Spray Technology</i> , 2013, 22, 992-1001.	1.6	7
76	Environmental Resistance of Mo-Si-B Alloys and Coatings. <i>Oxidation of Metals</i> , 2013, 80, 207-218.	1.0	10
77	Stable and Metastable Equilibria in the Pb-Cd System. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 3004-3013.	1.1	1
78	Deformation-induced nanoscale mixing reactions in Cu/Ni and Ag/Pd multilayers. <i>Applied Physics Letters</i> , 2013, 103, 191904.	1.5	3
79	Ductile Biodegradable Mg-Based Metallic Glasses with Excellent Biocompatibility. <i>Advanced Functional Materials</i> , 2013, 23, 4793-4800.	7.8	29
80	Extended Functionality of Environmentally-Resistant Mo-Si-B-Based Coatings. <i>Jom</i> , 2013, 65, 307-317.	0.9	22
81	Structural investigation and mechanical properties of a representative of a new class of materials: nanograined metallic glasses. <i>Nanotechnology</i> , 2013, 24, 045610.	1.3	48
82	Kinetic transition in the growth of Al nanocrystals in Al-Sm alloys. <i>Journal of Applied Physics</i> , 2012, 111, 063525.	1.1	12
83	Crystallization control in highly undercooled liquids and glasses. <i>International Journal of Materials Research</i> , 2012, 103, 1083-1089.	0.1	1
84	Enhance the thermal stability and glass forming ability of Al-based metallic glass by Ca minor-alloying. <i>Intermetallics</i> , 2012, 29, 35-40.	1.8	71
85	Nucleation reactions during deformation and crystallization of metallic glass. <i>Journal of Alloys and Compounds</i> , 2012, 536, S55-S59.	2.8	5
86	Oxidation of ZrB <sub>2</sub> -SiC ultra-high temperature composites over a wide range of SiC content. <i>Journal of the European Ceramic Society</i> , 2012, 32, 3875-3883.	2.8	85
87	Rapid Degradation of Azo Dye by Fe-Based Metallic Glass Powder. <i>Advanced Functional Materials</i> , 2012, 22, 2567-2570.	7.8	259
88	Mo-Si-B based coating for oxidation protection of SiC-C composites. <i>Surface and Coatings Technology</i> , 2012, 206, 4166-4172.	2.2	47
89	Nucleation Catalysis in Aluminum Alloy A356 Using Nanoscale Inoculants. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011, 42, 2323-2330.	1.1	56
90	Oxidation Response and Coatings for Mo-Si-B Alloys. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1295, 343.	0.1	2

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91	Deformation Behavior of a Quaternary Mo-Nb-Si-B Alloy. Materials Research Society Symposia Proceedings, 2011, 1295, 355.	0.1	3
92	Oxidation-resistant coatings for ultra-high-temperature refractory Mo-based alloys. Jom, 2010, 62, 13-19.	0.9	73
93	Flux-induced structural modification and phase transformations in a Pd40Ni40Si4P16 bulk-glassy alloy. Acta Materialia, 2010, 58, 5886-5897.	3.8	28
94	In situ phase separation and flow behavior in the glass transition region. Intermetallics, 2010, 18, 1235-1239.	1.8	23
95	Nanostructure development during devitrification and deformation. Journal of Alloys and Compounds, 2010, 495, 360-364.	2.8	11
96	Primary crystallization reactions in Al-based metallic glass alloys. Journal of Alloys and Compounds, 2010, 504, S222-S225.	2.8	12
97	Oxidation Resistant Coatings for Ultrahigh Temperature Refractory Mo-Based Alloys. Advanced Engineering Materials, 2009, 11, 892-897.	1.6	45
98	Iron-Based Amorphous Metals: High-Performance Corrosion-Resistant Material Development. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 1289-1305.	1.1	129
99	Strong, Ductile Magnesium-Zinc Nanocomposites. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2009, 40, 3038-3045.	1.1	93
100	Kinetics of heterogeneous nucleation on intrinsic nucleants in pure fcc transition metals. Journal of Physics Condensed Matter, 2009, 21, 464113.	0.7	19
101	Deformation alloying and transformation reactions. Journal of Alloys and Compounds, 2009, 483, 14-19.	2.8	11
102	The Hotter the Engine, the Better. Science, 2009, 326, 1068-1069.	6.0	752
103	Oxidation Resistance Coatings of Mo-Si-B Alloys via a Pack Cementation Process. Metals and Materials International, 2008, 14, 1-7.	1.8	22
104	Annealing response of point defects in off-stoichiometric Mo <sub>5</sub> SiB <sub>2</sub> phase. Intermetallics, 2007, 15, 1268-1276.	1.8	23
105	Aluminum Pack Cementation on Mo-Si-B Alloys. Journal of the Electrochemical Society, 2007, 154, C692.	1.3	21
106	Interface reactions and reaction synthesis of a high temperature composite system. Metals and Materials International, 2007, 13, 1-12.	1.8	5
107	Nucleation Kinetics Analysis by Repeated Solidification of Single-Droplets. , 2006, , 85-91.		0
108	Solid State Amorphization by Cold-Rolling. , 2006, , 1-9.		2

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109	Intermetallic Phase Formation in Bulk Multilayered Structures. , 2006, , 324-329.		2
110	Approaches to quantification of microstructure for model lipid systems. JAOCS, Journal of the American Oil Chemists' Society, 2006, 83, 389-399.	0.8	10
111	Practical application of diffusion pathway analysis for SiC-metal reactions. Metals and Materials International, 2006, 12, 231-238.	1.8	10
112	Interdiffusion kinetics in the Mo <sub>5</sub> SiB <sub>2</sub> (T <sub>2</sub> ) phase. Journal of Phase Equilibria and Diffusion, 2006, 27, 605-613.	0.5	42
113	Analysis of solidification microstructures during wedge-casting. Philosophical Magazine, 2006, 86, 3681-3701.	0.7	29
114	Phase stability and alloying behavior in the Mo-Si-B system. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 507-514.	1.1	42
115	Monte Carlo simulation of Nb K $\alpha$ secondary fluorescence in EPMA: comparison of PENELOPE simulations with experimental results. Surface and Interface Analysis, 2005, 37, 1012-1016.	0.8	32
116	Phase stability of the intermetallic L <sub>21</sub> Heusler alloys of A <sub>2</sub> (Hf <sub>1-x</sub> Zr <sub>x</sub> )Al (where A=Pt and Pd) for an Nb-based high-temperature materials design. Applied Physics Letters, 2005, 87, 261908.	1.5	4
117	The Effect of As-quenched Structure on Primary Phase Crystallization in Amorphous Aluminum Alloys. Materials Research Society Symposia Proceedings, 2005, 903, 1.	0.1	0
118	Aluminum nanoscale order in amorphous Al <sub>92</sub> Sm <sub>8</sub> measured by fluctuation electron microscopy. Applied Physics Letters, 2005, 86, 141910.	1.5	96
119	Nanostructured Materials:Reaction Kinetics and Stability. Lecture Notes in Physics, 2005, , 221-249.	0.3	1
120	Microstructure Development in High-Temperature Mo-Si-B Alloys. Materials Research Society Symposia Proceedings, 2004, 851, 93.	0.1	1
121	Nucleation of (Mo) Precipitates on Dislocations During Annealing of a Mo-rich Mo <sub>5</sub> SiB <sub>2</sub> Phase. Materials Research Society Symposia Proceedings, 2004, 842, 321.	0.1	0
122	Nucleation-controlled reactions and metastable structures. Progress in Materials Science, 2004, 49, 263-284.	16.0	96
123	Interface reaction between Ni and amorphous SiC. Journal of Electronic Materials, 2004, 33, 1064-1070.	1.0	12
124	Medium-Range Order in High Al-content Amorphous Alloys Measured by Fluctuation Electron Microscopy. Microscopy and Microanalysis, 2004, 10, 788-789.	0.2	7
125	Nanometer-scale solute clustering in aluminum-nickel-ytterbium metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 353, 99-104.	2.6	9
126	Primary crystallization in amorphous Al-based alloys. Journal of Non-Crystalline Solids, 2003, 317, 52-61.	1.5	69



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127	Mo-Si-B Alloys: Developing a Revolutionary Turbine-Engine Material. MRS Bulletin, 2003, 28, 639-645.	1.7	341
128	Nucleationâ€“catalysisâ€“kinetics analysis under dynamic conditions. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2003, 361, 447-461.	1.6	12
129	Nanocrystallization Reactions in Amorphous Aluminum Alloys. Materials Transactions, 2003, 44, 1982-1992.	0.4	22
130	Significance of the Heat of Mixing for the Amorphization of Multilayers by Deformation Processing. Materials Science Forum, 2002, 386-388, 21-26.	0.3	10
131	Deformation-induced crystallization and amorphization of Al-based metallic glasses. Materials Research Society Symposia Proceedings, 2002, 740, 1.	0.1	2
132	Significance of the Heat of Mixing for the Amorphization of Multilayers by Deformation Processing. Journal of Metastable and Nanocrystalline Materials, 2002, 13, 21-26.	0.1	0
133	Transition Metal Alloying and Phase Stability in the Mo-Si-B System. Materials Research Society Symposia Proceedings, 2002, 753, 1.	0.1	1
134	Amorphization and nanostructure synthesis in Al alloys. Intermetallics, 2002, 10, 1079-1088.	1.8	53
135	Solidification of Atomized Liquid Droplets. Advanced Engineering Materials, 2002, 4, 147.	1.6	3
136	Amorphous aluminum alloysâ€“synthesis and stability. Jom, 2002, 54, 34-39.	0.9	70
137	Structural evolution and phase formation in cold-rolled aluminumâ€“nickel multilayers. Acta Materialia, 2001, 49, 1139-1151.	3.8	97
138	Glass formation and primary nanocrystallization in Al-base metallic glasses. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2001, 301, 12-17.	2.6	70
139	Synthesis and Stability of Amorphous Al Alloys. Materials Research Society Symposia Proceedings, 2000, 644, 471.	0.1	1
140	Growth of The Mo <sub>5</sub> SiB <sub>2</sub> Phase in A Mo <sub>5</sub> Si <sub>3</sub> /Mo <sub>2</sub> B Diffusion Couple. Materials Research Society Symposia Proceedings, 2000, 646, 74.	0.1	1
141	Liquidus temperature determination in multicomponent alloys by thermal analysis. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2000, 31, 497-501.	1.1	41
142	CuInSe <sub>2</sub> phase formation during Cu <sub>2</sub> Se/In <sub>2</sub> Se <sub>3</sub> interdiffusion reaction. Journal of Applied Physics, 2000, 87, 3683-3690.	1.1	69
143	Low-Temperature, Mercury-Mediated Synthesis of Aluminum Intermetallics. Chemistry of Materials, 2000, 12, 2008-2013.	3.2	3
144	The kinetics of indium/amorphous-selenium multilayer thin film reactions. Journal of Materials Research, 1999, 14, 771-779.	1.2	15

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145	Reactions at amorphous SiC/Ni interfaces. Journal of Applied Physics, 1999, 85, 2636-2641.	1.1	17
146	Direct formation of the AlNi <sub>3</sub> phase in Al-75Ni cold rolled multilayers. Journal of Materials Science Letters, 1999, 18, 1449-1451.	0.5	4
147	Strategies for designing composite materials for high temperature application. Metals and Materials International, 1999, 5, 539-544.	0.2	1
148	Diffusion Pathway of Interface Reactions in Amorphous-SiC/Ni. Materials Research Society Symposia Proceedings, 1999, 580, 75.	0.1	1
149	Glass Formation and Nanostructure Development in Al-Based Alloys. Materials Research Society Symposia Proceedings, 1999, 581, 101.	0.1	1
150	Amorphization of Zr-Al-Ni-Cu during cold rolling of elemental foils at ambient temperatures. Philosophical Magazine Letters, 1998, 77, 109-115.	0.5	20
151	Microstructural Development of Mo(ss) + T2 Two-Phase Alloys. Materials Research Society Symposia Proceedings, 1998, 552, 1.	0.1	5
152	Continuous Amorphization of Zr-Based Alloys by Controlled Mechanical Intermixing. Materials Research Society Symposia Proceedings, 1998, 554, 173.	0.1	3
153	Equilibrium Thermodynamics Near the Glass Transition - The Conceptual Application of the Limiting Fictive Temperature. Materials Research Society Symposia Proceedings, 1998, 554, 217.	0.1	2
154	Glass formation in a multicomponent Zr-based alloy by mechanical attrition and liquid undercooling. Applied Physics Letters, 1997, 70, 580-582.	1.5	40
155	Uniformity and interfaces in ion-beam deposited Al/Ni multilayers. Journal of Materials Research, 1997, 12, 385-391.	1.2	12
156	Investigation Of Phase Formation During Cold Rolling Of Elemental Zr-Al-Ni-Cu Foils With Bulk Glass Forming Composition. Materials Research Society Symposia Proceedings, 1997, 481, 427.	0.1	1
157	In-Situ TEM Phase Formation in Cold Rolled Aluminum-Nickel Multilayers. Materials Research Society Symposia Proceedings, 1997, 481, 539.	0.1	3
158	Grain Refinement during Melt-spinning of Dilute Cu-base and Ni-base Alloys.. ISIJ International, 1997, 37, 668-676.	0.6	2
159	Nanocrystalline Solid Solutions of Cu/Co and Other Novel Nanomaterials. Materials Research Society Symposia Proceedings, 1996, 457, 261.	0.1	0
160	Nucleation-Controlled Solidification Kinetics. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 533-547.	1.1	45
161	A high-resolution transmission electron microscopy study of interfaces between the $\hat{1}^3$ , B2, and $\hat{1}^2$ phases in a Ti-Al-Mo alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 1623-1634.	1.1	34
162	Kinetic Competition in Undercooled Liquid Alloys. Materials Research Society Symposia Proceedings, 1995, 398, 3.	0.1	1

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163	Kinetic Competition During Duplex Partitionless Solidification in Ni-V Alloys. Materials Research Society Symposia Proceedings, 1995, 398, 57.	0.1	2
164	Undercooling and Nucleation during Solidification.. ISIJ International, 1995, 35, 580-588.	0.6	25
165	Intermetallic phase formation during annealing of Al/Ni multilayers. Journal of Applied Physics, 1994, 76, 7850-7859.	1.1	137
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