

G J Shiflet

List of Publications by Year in descending order

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66
papers

3,250
citations

201575

27
h-index

143943

57
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68
all docs

68
docs citations

68
times ranked

1993
citing authors

#	ARTICLE	IF	CITATIONS
1	The Effects of Sc Alloying in Y56Al24Ni10Co10 Glasses on the Local Atomic Structure. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 1990-1993.	1.1	1
2	Magnetic properties and thermal stability of (Fe,Co)-Mo-B-P-Si metallic glasses. Journal of Applied Physics, 2012, 111, .	1.1	27
3	Fluctuations of the Local Atomic Environment with Chemical Alloying in Fe Bulk Metallic Glasses. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2011, 42, 1481-1485.	1.1	0
4	Elastic properties of Ca-based metallic glasses predicted by first-principles simulations. Physical Review B, 2011, 84, .	1.1	21
5	Influence of erbium on the electronic structure of Fe(65 $\hat{\sim}$ x)Mo14C15B6Er _x (x=0,1,2) bulk metallic glasses. Journal of Applied Physics, 2009, 105, 023518.	1.1	9
6	Increasing Coating Functionality Using Nanodimensioned Materials. ACS Symposium Series, 2009, , 126-155.	0.5	6
7	Tough Fe-based bulk metallic glasses. Applied Physics Letters, 2008, 92, .	1.5	113
8	Poisson $\hat{\sim}$ TM's Ratio and Intrinsic Plasticity of Metallic Glasses. Applied Physics Letters, 2008, 92, .	1.5	61
9	Electronic structure of Fe-based amorphous alloys studied using electron-energy-loss spectroscopy. Physical Review B, 2008, 77, .	1.1	15
10	Local organization and atomic clustering in multicomponent amorphous steels. Physical Review B, 2008, 78, .	1.1	33
11	Formation of Bulk Metallic Glasses and Their Composites. MRS Bulletin, 2007, 32, 624-628.	1.7	100
12	Photoemission study of ternary to pentenary Fe-based metallic glasses: Chemical analysis of surface and bulk. Journal of Applied Physics, 2007, 102, 033501.	1.1	8
13	Fatigue behavior of an Fe48Cr15Mo14Er2C15B6 amorphous steel. Journal of Materials Research, 2007, 22, 544-550.	1.2	30
14	Alloy development for the enhanced stability of $\hat{\circ}$ precipitates in Al-Cu-Mg-Ag alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2006, 37, 1091-1105.	1.1	61
15	Reassessment of Al-Ce and Al-Nd binary systems supported by critical experiments and first-principles energy calculations. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2005, 36, 3269-3279.	1.1	95
16	Selected Corrosion Properties of a Novel Amorphous Al-Co-Ce Alloy System. Electrochemical and Solid-State Letters, 2005, 8, B1.	2.2	38
17	Mg $\hat{\sim}$ Ca $\hat{\sim}$ Zn Bulk Metallic Glasses with High Strength and Significant Ductility. Journal of Materials Research, 2005, 20, 1935-1938.	1.2	132
18	Indentation fracture toughness of amorphous steel. Journal of Materials Research, 2005, 20, 783-786.	1.2	51

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19	Enhanced bulk metallic glass formability by combining chemical compatibility and atomic size effects. Journal of Applied Physics, 2005, 97, 013512.	1.1	32
20	Focused ion-beam tomography. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2004, 35, 1935-1943.	1.1	69
21	Topological and chemical ordering induced by Ni and Nd in Al ₈₇ Ni ₇ Nd ₆ metallic glass. Physical Review B, 2004, 70, .	1.1	53
22	CaAl-based bulk metallic glasses with high thermal stability. Applied Physics Letters, 2004, 84, 37-39.	1.5	108
23	The effect of cold work on the precipitation of $\hat{\text{C}}$ and $\hat{\text{e}}^2$ in a ternary Al-Cu-Mg alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 2757-2769.	1.1	66
24	Local structure of Al and Fe-based metallic glasses. Journal of Physics Condensed Matter, 2003, 15, S2357-S2364.	0.7	13
25	Phase Transitions in Al ₈₇ Ni ₇ Nd ₆ . Materials Research Society Symposia Proceedings, 2003, 806, 374.	0.1	0
26	Quantitative three-dimensional reconstruction of geometrically complex structures with nanoscale resolution. Review of Scientific Instruments, 2002, 73, 330-334.	0.6	16
27	Effect of the Supercooled Liquid Region on Al ₈₅ Ni ₇ Gd ₈ Metallic Glass Crystallization Products. Materials Research Society Symposia Proceedings, 2002, 754, 1.	0.1	3
28	Austenite decomposition to carbide-rich products in Fe-0.30C-6.3W. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 3619-3633.	1.1	7
29	Analysis of the Cu-3 Wt pct Ti cellular interphase boundary by various models. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 2495-2505.	1.1	3
30	The cellular interlamellar and growth-front interphase boundaries in Cu-3 Wt pct Ti. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2002, 33, 2507-2518.	1.1	12
31	The pilsch-petch orientation relationship in ferrous pearlite at small undercooling. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1999, 30, 2767-2781.	1.1	55
32	Correlation of amorphization effects in titanium solid solutions via mechanical milling and annealing. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1999, 79, 97-106.	0.7	2
33	Bulk titanium-rich alloys containing nanoscale disordered regions. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 1821-1824.	1.1	1
34	Growth of $\hat{\text{e}}^2$ on dislocations in a dilute Al-Li alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 2073-2085.	1.1	22
35	Transitions in carbide morphology in a ternary Fe-C-W steel. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 2087-2100.	1.1	5
36	The effect of undercooling on the cellular precipitation reaction in Cu-3 Pct Ti. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 2101-2110.	1.1	7

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37	Three-dimensional reconstruction of Widmanstätten plates in Fe-12.3Mn-0.8C. Journal of Microscopy, 1997, 188, 36-41.	0.8	53
38	On the effect of stress on nucleation and growth of precipitates in an Al-Cu-Mg-Ag alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 3431-3444.	1.1	96
39	Heterogeneous nucleation of Al_2O_3 on dislocations in a dilute aluminum-lithium alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1996, 27, 1599-1609.	1.1	19
40	Synthesis and Properties of Bulk Amorphous and Nanocrystalline Alloys. , 1995, , 43-52.		4
41	Aluminum-Rich Metallic Glasses. , 1995, , 53-71.		0
42	Formation of bulk metallic glasses in neodymium-based alloys. Philosophical Magazine Letters, 1994, 70, 371-377.	0.5	76
43	Deformation-induced nanocrystal formation in shear bands of amorphous alloys. Nature, 1994, 367, 541-543.	13.7	488
44	Plastic Deformation-Induced Nanocrystalline Aluminum in Al-Based Amorphous Alloys. Materials Research Society Symposia Proceedings, 1993, 321, 251.	0.1	2
45	Native Oxide Chemistry of Amorphous Al ₉₀ Fe ₇ Ce ₃ Alloy by Angle Resolved XPS. Surface Science Spectra, 1993, 2, 31-44.	0.3	4
46	Growth of Grain Boundary Precipitates as a Function of Misorientation in an Al-5 WT% Cu Alloy. Materials Research Society Symposia Proceedings, 1993, 319, 351.	0.1	3
47	Grain Boundary Precipitate Density as a Function of Time and Misorientation in an Al-5 WT% Cu Alloy. Materials Research Society Symposia Proceedings, 1993, 319, 357.	0.1	1
48	Synchrotron X-ray studies of diffuse scattering in an Al-Cu-Co two-dimensional decagonal quasicrystal. Philosophical Magazine Letters, 1992, 66, 241-251.	0.5	9
49	Three new types of shear plane in the Al ₅ CuLi ₃ crystal structure. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1992, 65, 1395-1405.	0.7	4
50	Structures of shear planes, intersection areas and translation domains in the Al ₅ CuLi ₃ Frank-Kasper phase. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1991, 64, 483-493.	0.7	9
51	Elastic Properties of Steps at Interphase Boundaries. Materials Research Society Symposia Proceedings, 1991, 238, 53.	0.1	1
52	Interfacial steps and growth mechanism in ferrous pearlites. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1991, 22, 1349-1365.	1.4	81
53	Misfit accommodation by steps in cubic materials. Journal of Electronic Materials, 1991, 20, 785-791.	1.0	18
54	Strain distribution effects on the low-cycle fatigue behavior of Fe-C-Mo steels. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1991, 22, 675-683.	1.4	4

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55	Stability investigation of a decagonal Al ₇₀ Cu ₁₀ Co quasicrystal. Philosophical Magazine Letters, 1991, 63, 211-216.	0.5	17
56	Bainite viewed three different ways. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1990, 21, 1343-1380.	1.4	158
57	Growth and overall transformation kinetics above the bay temperature in Fe-C-Mo alloys. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1990, 21, 1413-1432.	1.4	67
58	Atomic structure of amorphous Al ₉₀ Fe _x Ce _{10x} . Journal of Materials Research, 1990, 5, 2807-2812.	1.2	134
59	Synthesis and Properties of Metallic Glasses That Contain Aluminum. Science, 1988, 241, 1640-1642.	6.0	517
60	Mechanical properties of a new class of metallic glasses based on aluminum. Journal of Applied Physics, 1988, 64, 6863-6865.	1.1	90
61	The interlamellar atomic habit plane in Cu-6% Be pearlite. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1988, 57, 457-466.	0.7	16
62	Structural relationship between icosahedral and Frank-Kasper phases of Al-Li-Cu. Philosophical Magazine Letters, 1987, 56, 63-68.	0.5	33
63	Quasicrystalline grain boundary precipitates in aluminium alloys through solid-solid transformations. Journal of Microscopy, 1987, 146, 323-335.	0.8	9
64	Comparison of quasicrystalline (T2) and crystalline (R) structures in AlCuLi using high-resolution X-ray diffraction. Philosophical Magazine Letters, 1987, 56, 259-264.	0.5	15
65	Growth kinetics and morphology of grain boundary ferrite allotriomorphs in an Fe-C-V alloy. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1985, 16, 521-527.	1.4	16
66	Discussion of the bainite transformation in a silicon steel. Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science, 1985, 16, 457-466.	1.4	25