

P R Subramanian

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51
papers

2,533
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53
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2,761
ext. citations

3.5
avg, IF

4.54
L-index

#	Paper	IF	Citations
51	A review of very-high-temperature Nb-silicide-based composites. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2003 , 34, 2043-2052	2.3	510
50	Ultrahigh-Temperature Nb-Silicide-Based Composites. <i>MRS Bulletin</i> , 2003 , 28, 646-653	3.2	241
49	Advanced intermetallic alloys Beyond gamma titanium aluminides. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1997 , 239-240, 1-13	5.3	166
48	Cu-Pd (Copper-Palladium). <i>Journal of Phase Equilibria and Diffusion</i> , 1991 , 12, 231-243		164
47	The development of Nb-based advanced intermetallic alloys for structural applications. <i>Jom</i> , 1996 , 48, 33-38	2.1	162
46	The ag-cu (silver-copper) system. <i>Journal of Phase Equilibria and Diffusion</i> , 1993 , 14, 62-75		151
45	The Science, Technology, and Implementation of TiAl Alloys in Commercial Aircraft Engines. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1516, 49-58		120
44	High temperature phase equilibria of the L12 composition in the Al?Ti?Ni, Al?Ti?Fe, and Al?Ti?Cu systems. <i>Scripta Metallurgica</i> , 1989 , 23, 327-331		118
43	Processing high-temperature refractory-metal silicide in-situ composites. <i>Jom</i> , 1999 , 51, 32-36	2.1	90
42	The CuIn (Copper-Indium) system. <i>Bulletin of Alloy Phase Diagrams</i> , 1989 , 10, 554-568		69
41	Compressive creep behavior of Nb5Si3. <i>Scripta Metallurgica Et Materialia</i> , 1995 , 32, 1227-1232		60
40	The Cu-Ta (Copper-Tantalum) system. <i>Bulletin of Alloy Phase Diagrams</i> , 1989 , 10, 652-655		49
39	Effect of dopants on grain boundary decohesion of Ni: A first-principles study. <i>Applied Physics Letters</i> , 2008 , 93, 223113	3.4	42
38	Phase equilibria in niobium rich Nb-Al-Ti alloys. <i>Scripta Metallurgica Et Materialia</i> , 1992 , 27, 265-270		40
37	Phenomenological observations of lamellar orientation effects on the creep behavior of Ti-8at.%Al PST crystals. <i>Acta Materialia</i> , 2000 , 48, 541-551	8.4	39
36	Microstructures and mechanical behavior of NiAl-Mo and NiAl-Mo-Ti two-phase alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 1994 , 25, 2769-2781	2.3	38
35	Effect of friction, backpressure and strain rate sensitivity on material flow during equal channel angular extrusion. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2005 , 406, 102-109	5.3	35

34	The As-Cu (Arsenic-Copper) system. <i>Bulletin of Alloy Phase Diagrams</i> , 1988 , 9, 605-618		35
33	The Cu-Mo (Copper-Molybdenum) system. <i>Bulletin of Alloy Phase Diagrams</i> , 1990 , 11, 169-172		33
32	Phase relationships in the Al-Ta system. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1990 , 21, 539-545		33
31	Strengthening mechanisms (via hardness analysis) in nanocrystalline NiCr with nanoscaled Y ₂ O ₃ and Al ₂ O ₃ dispersoids. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2006 , 416, 211-218	5.3	31
30	Thermodynamics of formation of Y-Ni alloys. <i>Metallurgical and Materials Transactions B - Process Metallurgy and Materials Processing Science</i> , 1985 , 16, 577-584		28
29	Thermodynamics of formation of Y-Fe alloys. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 1984 , 8, 295-305	1.9	26
28	The Cu-Hf (copper-hafnium) system. <i>Bulletin of Alloy Phase Diagrams</i> , 1988 , 9, 51-56		25
27	Thermodynamics of formation of Y-Co alloys. <i>Metallurgical and Materials Transactions A - Physical Metallurgy and Materials Science</i> , 1985 , 16, 1195-1201		23
26	Processing of continuously reinforced Ti-alloy metal matrix composites (MMC) by magnetron sputtering. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1998 , 244, 1-10	5.3	22
25	First-principles understanding of environmental embrittlement of the Ni/Ni ₃ Al interface. <i>Scripta Materialia</i> , 2010 , 63, 391-394	5.6	20
24	Kirkendall porosity during thermal treatment of Mo-Cu nanomultilayers. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 459, 145-150	5.3	17
23	The stability of Nb/Nb ₅ Si ₃ microlaminates at high temperatures. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2001 , 32, 2363-2371	2.3	17
22	Thermally stable nanomultilayer films of Cu/Mo. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 995-1003	2.3	15
21	Continuum predictions of deformation in composites with two creeping phases. Nb ₅ Si ₃ Nb composites. <i>Acta Materialia</i> , 1997 , 45, 3135-3142	8.4	14
20	Hydrogen vapor pressure measurements over a portion of the Lu-H system. <i>Journal of the Less Common Metals</i> , 1982 , 87, 205-213		11
19	Novel technique for evaluating grain boundary fracture strength in metallic materials. <i>Scripta Materialia</i> , 2011 , 64, 1063-1066	5.6	10
18	Kinetic modeling of high temperature oxidation of Ni-base alloys. <i>Computational Materials Science</i> , 2011 , 50, 811-819	3.2	9
17	First principles calculation of mixing enthalpy of Ti with transition elements. <i>Journal of Alloys and Compounds</i> , 2013 , 550, 501-508	5.7	8

16	Evaluation of a Ni-20Cr Alloy Processed by Multi-Axis Forging. <i>Materials Science Forum</i> , 2006 , 503-504, 793-798	0.4	8
15	Effect of nitrogen on the magnetic moment of Fe and FeCo alloys from first-principle calculations. <i>Journal of Applied Physics</i> , 2007 , 101, 033912	2.5	8
14	Phase equilibria in the vicinity of the DO ₂₂ Al ₃ Nb composition in the Al-Nb-W, Al-Nb-Co, Al-Nb-Pt, and Al-Nb-Ag systems. <i>Scripta Metallurgica Et Materialia</i> , 1991 , 25, 231-236		8
13	Thermodynamic aspects of massive transformations in the Cu ₃ Ga and Cu ₃ Zn systems. <i>Acta Metallurgica</i> , 1988 , 36, 937-943		7
12	Energetics of interstitial oxygen in FeTiX (X = transition elements) alloys using first principles methods. <i>Journal of Alloys and Compounds</i> , 2013 , 571, 107-113	5.7	5
11	Differential role of nanoscaled oxide dispersoids (Y ₂ O ₃ vs Al ₂ O ₃) in the high-temperature structural stability of NiCr alloys. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2006 , 37, 3455-3468	2.3	5
10	The ag-h (silver-hydrogen) system. <i>Journal of Phase Equilibria and Diffusion</i> , 1991 , 12, 649		5
9	Ion-beam mixing and thermal annealing of Al ₂ Nb and Al ₂ Ta thin films. <i>Journal of Materials Research</i> , 1988 , 3, 1082-1088	2.5	5
8	Refractory metals and materials: Joining and applications. <i>Jom</i> , 1996 , 48, 32-32	2.1	3
7	Solid state reactions between selected intermetallics and oxides in the Al ₂ Y ₂ O system. <i>Scripta Metallurgica Et Materialia</i> , 1993 , 28, 961-966		3
6	Crystal structure determination of Al ₂ Ta. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 1995 , 71, 941-953		2
5	Characterizing Ultrafine Grained Material using EBSD. <i>Microscopy and Microanalysis</i> , 2009 , 15, 420-421	0.5	1
4	Metastable phase evolution in Al ₂ O ₃ dispersed nanocrystalline NiCr alloys. <i>Journal of Materials Research</i> , 2007 , 22, 68-75	2.5	1
3	Interfaces in Ni-Based Superalloys and Implications for Mechanical Behavior and Environmental Embrittlement: A First-Principles Study		1
2	Characterization of Fatigue Fracture in Ni-20 Pct Cr Alloys Using White Light Interference Microscopy and Scanning Probe Microscopy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2011 , 42, 1073-1088	2.3	
1	Nb-Silicide Phase Stabilization In Cast And Hip In-Situ Composites. <i>Microscopy and Microanalysis</i> , 2002 , 8, 1454-1455	0.5	