

M Vedat Akdeniz

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Radiation effect studies on partially crystalline bulk amorphous Fe-based metallic glass. Radiation Effects and Defects in Solids, 2022, 177, 294-306.	1.2	1
2	Effect of Y Addition on the Structural Properties and Oxidation Behavior of Fe ₆₀ Al _{40-n} Y _n Alloys (n= 1, 3, and 5 at.%). Materials at High Temperatures, 2022, 39, 220-230.	1.0	3
3	On the Optimization of the Microstructural and Mechanical Properties of Model Ni-Based Superalloys Through the Alloying Effects of Refractory Mo and W Elements. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2022, 53, 1859-1872.	2.2	2
4	Microstructure, phase relationships and microhardness of Fe ₆₀ Al ₄₀ Hf _n alloys (n = 1, 3, and 5 at.%). International Journal of Materials Research, 2021, 112, 280-287.	0.3	1
5	The Site Preferences of Transition Elements and Their Synergistic Effects on the Bonding Strengthening and Structural Stability of γ -Ni ₃ Al Precipitates in Ni-Based Superalloys: A First-Principles Investigation. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2021, 52, 2298-2313.	2.2	17
6	Atomic size effect of alloying elements on the formation, evolution and strengthening of γ -Ni ₃ Al precipitates in Ni-based superalloys. Intermetallics, 2019, 109, 37-47.	3.9	44
7	Size dependent stability and surface energy of amorphous FePt nanoalloy. Journal of Alloys and Compounds, 2019, 788, 787-798.	5.5	5
8	Effect of Mo addition on microstructure, ordering, and room-temperature mechanical properties of Fe-50Al. Transactions of Nonferrous Metals Society of China, 2018, 28, 1970-1979.	4.2	6
9	High-temperature site preference and atomic short-range ordering characteristics of ternary alloying elements in γ -Ni ₃ Al intermetallics. Philosophical Magazine, 2017, 97, 2615-2631.	1.6	13
10	Microstructural evolution and room-temperature mechanical properties of as-cast and heat-treated Fe ₅₀ Al _{50-n} Nb _n alloys (n=1, 3, 5, 7, and 9at%). Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 664, 17-25.	5.6	19
11	Synthesis of AlNiCo core/shell nanopowders. Journal of Magnetism and Magnetic Materials, 2016, 417, 112-116.	2.3	6
12	Effects of Nanoparticle Geometry and Temperature on the Structural Evolution in FeCo Nanoalloys. Acta Physica Polonica A, 2014, 125, 600-602.	0.5	3
13	Synthesis and Characterization of Fe ₈₀ B ₂₀ Nanoalloys Produced by Surfactant Assisted Ball Milling. Acta Physica Polonica A, 2014, 125, 597-599.	0.5	3
14	Microstructural Investigation and Phase Relationships of Fe-Al-Hf Alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 3412-3421.	2.2	4
15	Glass Forming Ability and Magnetic Properties of Fe ₃₆ Ni ₃₆ B _{19.2} Si _{4.8} Nb _{4-x} M _x (M=Cu, Zr, Ti, Y, Pt) Bulk Glassy Alloys Fabricated by Suction Casting. Journal of Superconductivity and Novel Magnetism, 2013, 26, 1683-1685.	1.8	2
16	Magnetic monitoring approach to nanocrystallization kinetics in Fe-based bulk amorphous alloy. Intermetallics, 2013, 43, 152-161.	3.9	4
17	Microalloying effects on the microstructure and kinetics of nanoscale precipitation in Al-Fe alloy. Intermetallics, 2012, 23, 217-227.	3.9	9
18	Effect of Ternary Alloying Elements Addition on the Order-Disorder Transformation Temperatures of B2-Type Ordered Fe-Al-X Intermetallics. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 1809-1816.	2.2	16

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19	Effect of Thickness on Magnetic Properties of Fe ₃₆ Co ₃₆ B ₁₉ .2Si ₄ .8Mo ₂ W ₂ Thin Film Prepared by Thermionic Vacuum Arc. Acta Physica Polonica A, 2012, 121, 147-148.	0.5	3
20	Effect of (Mo, W) substitution for Nb on glass forming ability and magnetic properties of Fe-Co-based bulk amorphous alloys fabricated by centrifugal casting. Journal of Alloys and Compounds, 2011, 509, 2334-2337.	5.5	24
21	Kinetics of nanoscale precipitation in Ni-Fe-Al alloys: A magnetic monitoring approach. Journal of Alloys and Compounds, 2011, 509, 6781-6786.	5.5	3
22	Solidification behavior, glass forming ability and thermal characteristics of soft magnetic Fe-Co-B-Si-Nb-Cu bulk amorphous alloys. Intermetallics, 2011, 19, 1330-1337.	3.9	30
23	Microstructural and magnetic characterization of iron precipitation in Ni-Fe-Al alloys. Materials Characterization, 2011, 62, 606-614.	4.4	4
24	A generalized polytetrahedral cluster approach to partial coordination numbers in binary metallic glasses. Philosophical Magazine, 2011, 91, 2985-3005.	1.6	0
25	Site Selection and Pseudo-Clustering Behaviors of Alloying Elements in Aluminum-Lean $\hat{3}$ -TiAl Intermetallics. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2010, 41, 267-274.	2.2	3
26	Effect of vanadium on atomic ordering characteristics and anti-phase boundary energies of B ₂ -FeCo alloys. Intermetallics, 2010, 18, 893-899.	3.9	17
27	Nano-scale phase separation in amorphous Fe-B alloys: Atomic and cluster ordering. Acta Materialia, 2009, 57, 171-181.	7.9	48
28	Theoretical prediction of bulk glass forming ability (BGFA) of Ti-Cu based multicomponent alloys. Journal of Non-Crystalline Solids, 2009, 355, 373-378.	3.1	1
29	Solidification Microstructures and Carbides Morphology in Rapidly Solidified Fe-Al-Cr-C Alloys. Metals and Materials International, 2008, 14, 397-402.	3.4	1
30	Impurity-Driven Nanocrystallization of Zr-Based Bulk Amorphous Alloys. Journal of Nanoscience and Nanotechnology, 2008, 8, 894-900.	0.9	6
31	Modelling and Monte Carlo simulation of the atomic ordering processes in Ni ₃ Al intermetallics. Modelling and Simulation in Materials Science and Engineering, 2007, 15, 1-12.	2.0	21
32	Solidification behaviour of bulk glass-forming alloy systems. Journal of Alloys and Compounds, 2005, 386, 185-191.	5.5	3
33	Modeling of the atomic ordering processes in Fe ₃ Al intermetallics by the monte carlo simulation method combined with electronic theory of alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 721-734.	2.2	1
34	Modeling of the atomic ordering processes in Fe ₃ Al intermetallics by the monte carlo simulation method combined with electronic theory of alloys. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2003, 34, 721-734.	2.2	5
35	Structural characterization of iron-based bulk metallic glass alloys produced by centrifugal casting. Chemical Engineering Communications, 2003, 190, 925-935.	2.6	3
36	Modeling the kinetics of atomic ordering in high temperature intermetallics. Chemical Engineering Communications, 2003, 190, 898-910.	2.6	0

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37	Effect of ternary alloying elements addition on atomic ordering characteristics of Fe-Al intermetallics. Acta Materialia, 1999, 47, 2067-2075.	7.9	67
38	The effect of substitutional impurities on the evolution of Fe-Al diffusion layer. Acta Materialia, 1998, 46, 1185-1192.	7.9	103
39	Atomic ordering characteristics of Ni3Al intermetallics with substitutional ternary additions. Acta Materialia, 1997, 45, 1077-1083.	7.9	32
40	Microstructures and phase selection in rapidly solidified Zn-Mg alloys. Journal of Materials Science, 1996, 31, 545-550.	3.7	18
41	The Effect of Alloying Additions on the Interfacial Interactions at the Fe-Al Interface During Coating. NATO ASI Series Series B: Physics, 1996, , 681-686.	0.2	3
42	Effect of melt superheat on the geometry of melt spun pure zinc ribbon. Scripta Metallurgica Et Materialia, 1995, 32, 1471-1475.	1.0	3
43	The role of Si addition on the interfacial interaction in Fe-Al diffusion layer. Scripta Metallurgica Et Materialia, 1994, 31, 1723-1728.	1.0	81
44	Structures in rapidly solidified zinc. Materials Science and Engineering, 1988, 98, 321-323.	0.1	4