

Prof. MAHMUT VEDAT AKDENİZ

Personal Information

Email: akdeniz@metu.edu.tr

Education Information

Doctorate, Open University, Faculty Of Technology, Materials Science, United Kingdom 1986 - 1989

Post Graduate, Middle East Technical University, Fen Bilimleri Enstitüsü, Metalurji Ve Malzeme Mühendisliği, Turkey 1983 - 1986

Under Graduate, Middle East Technical University, Faculty Of Engineering, Department Of Metallurgical And Materials Engineering, Turkey 1978 - 1983

Foreign Languages

English, C1 Advanced

Research Areas

Metallurgical and Materials Engineering, Material science and engineering, Intermetallics, Physical Metallurgy, Metallic Materials, Nanomaterials, Engineering and Technology

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 2001 - Continues

Associate Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1996 - 2001

Assistant Professor, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1990 - 1996

Lecturer PhD, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1989 - 1990

Research Assistant, Middle East Technical University, Faculty of Engineering, Department of Metallurgical and Materials Engineering, 1984 - 1986

Professional Experience

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Middle East Technical University, Faculty Of Engineering, Department Of Metallurgical And Materials Engineering, 2019 - Continues

Courses

FUNDAMENTALS OF MATERIALS SCIENCE AND ENGINEERING , Under Graduate, 2017 - 2018, 2018 - 2019

MATERIALS ENGINEERING DESIGN II, Under Graduate, 2017 - 2018, 2018 - 2019

Science and Engineering in Materials - I, Doctorate, 2019 - 2020

Characterization of Materials, Post Graduate, 2019 - 2020

Advising Theses

- Mehrabov A., Akdeniz M. V. , SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF BULK AND NANOALLOYS OF Ni-B BINARY SYSTEMS, Post Graduate, H.SEÇKİN(Student), 2019
- Akdeniz M. V. , Mehrabov A., Alloy design for the development and production of titanium based bulk metallic glasses, Post Graduate, I.BEGÜM(Student), 2019
- Mehrabov A., Akdeniz M. V. , SYNTHESIS AND STRUCTURAL CHARACTERIZATION OF Co-Al BASED SUPERALLOYS, Post Graduate, A.FIRAT(Student), 2019
- Akdeniz M. V. , Demirköz M. B. , RADIATION DAMAGE STUDIES OF BULK METALLIC GLASS MATERIALS UNDER PROTON IRRADIATION AND RADIOPROTECTION STUDIES FOR METU-DBL, Post Graduate, P.USLU(Student), 2019
- Mehrabov A., Akdeniz M. V. , Design and development of Ni-based heusler alloys for magnetic refrigeration, Post Graduate, S.TORAMAN(Student), 2018
- Akdeniz M. V. , Mehrabov A., Bulk amorphous steel as a coating material: Hardfacing application, Post Graduate, H.ÇAKMAK(Student), 2018
- Mehrabov A., Akdeniz M. V. , Modelling, simulation, synthesis and structural characterization of Ni-Fe based nanoalloys, Post Graduate, E.ARSLAN(Student), 2018
- Kalay Y. E. , Akdeniz M. V. , Development of rare-earth free permanent magnets, Doctorate, A.MERVE(Student), 2017
- Akdeniz M. V. , Mehrabov A., Design and development of high temperature nickel-based superalloys, Post Graduate, R.ERİŞ(Student), 2017
- Akdeniz M. V. , Mehrabov A., Synthesis and characterization of bulk amorphous/nanocrystalline soft magnetic materials, Post Graduate, M.MERVE(Student), 2016
- Akdeniz M. V. , Mehrabov A., Bulk amorphous/nanocrystalline materials: Structural amorphous steels, Post Graduate, B.YAĞMURLU(Student), 2014
- Akdeniz M. V. , Mehrabov A., Design and development of iron aluminium intermetallic compounds for structural applications at high temperatures, Doctorate, M.YILDIRIM(Student), 2014
- Akdeniz M. V. , Mehrabov A., Synthesis and characterization of copper based bulk amorphous alloys, Post Graduate, E.MERMER(Student), 2013
- Akdeniz M. V. , Mehrabov A., Phase Transformations and Magnetic Properties of Heusler-type Multicomponent Alloys, Post Graduate, M.KALKANCI(Student), 2011
- AKDENİZ M. V. , MEHRABOV A., Nano-scale phase separation and glass forming ability of iron-boron based metallic glasses, Post Graduate, M.AYKOL(Student), 2008
- AKDENİZ M. V. , Investigations on bulk glass forming ability of titanium based multicomponent alloys, Post Graduate, S.SÜER(Student), 2008
- AKDENİZ M. V. , MEHRABOV A., Theoretical and experimental investigations on atomic and magnetic ordering in full heusler alloys, Post Graduate, C.TOPBAŞI(Student), 2008
- AKDENİZ M. V. , Solidification and crystallization of bulk glass forming alloys, Post Graduate, S.AYBAR(Student), 2007
- Akdeniz M. V. , Mehrabov A., Theoretical and experimental investigation of bulk glass forming ability in bulk amorphous alloy systems, Post Graduate, C.AYAS(Student), 2005
- AKDENİZ M. V. , Synthesis and characterization of nickel based bulk amorphous alloys, Post Graduate, H.ARSLAN(Student), 2004
- AKDENİZ M. V. , Synthesis and characterization of zirconium based bulk amorphous alloys, Post Graduate, İ.SALTOĞLU(Student), 2004
- AKDENİZ M. V. , Synthesis and characterization of Ti-based bulk amorphous/nano-crystalline alloys for engineering applications, Post Graduate, A.ABDELAL(Student), 2004
- AKDENİZ M. V. , Synthesis and characterization of bulk glass-forming iron-boron based alloy systems, Post Graduate, S.NİMET(Student), 2004
- AKDENİZ M. V. , Investigation of solidification and crystallization of iron based bulk amorphous alloys, Post Graduate, E.SALİM(Student), 2004
- AKDENİZ M. V. , Structural characterization of magnesium-nickel-X hydrogen storage alloys, Post Graduate, E.AKŞİT(Student), 2003
- AKDENİZ M. V. , Production and development of bulk metallic glasses, Doctorate, K.PEHLİVANOĞLU(Student), 2003
- AKDENİZ M. V. , Synthesis and characterization of non-ferrous based bulk amorphous metallic alloys, Post Graduate, H.MERİH(Student), 2001
- AKDENİZ M. V. , AYDINOL M. K. , Prediction of glass forming ability in TM-based binary alloys, Post Graduate,

H.BURCU(Student), 2001

AKDENİZ M. V. , AYDINOL M. K. , Prediction of glass forming ability in Zr based binary alloys, Post Graduate, B.DİLSİZOĞLU(Student), 2001

AKDENİZ M. V. , Temper embrittlement behaviour of steel costing for welded structures, Post Graduate, A.ERTAN(Student), 1999

AKDENİZ M. V. , Development of Fe-Al based alloys as reinforcement in Al-matrix composites, Post Graduate, F.AĞDAŞ(Student), 1997

AKDENİZ M. V. , Monte carlo study of Fe₃Al based intermetallics, Post Graduate, M.MURAT(Student), 1996

Akdeniz M. V. , Direct casting of iron-aluminum intermetallics, Post Graduate, Y.ÖZBAYRAMOĞLU(Student), 1995

AKDENİZ M. V. , Al coating of steels, Post Graduate, T.YILMAZ(Student), 1994

Jury Memberships

Appointment Academic Staff, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, September, 2019

Appointment Academic Staff, Appointment Academic Staff, Orta Doğu Teknik Üniversitesi, February, 2019

Associate Professor Exam, Associate Professor Exam, Middle East Technical University, June, 2018

Associate Professor Exam, Associate Professor Exam, Middle East Technical University, April, 2018

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Size dependent stability and surface energy of amorphous FePt nanoalloy**

Akdeniz M. V. , Mekhrabov A.

JOURNAL OF ALLOYS AND COMPOUNDS, vol.788, pp.787-798, 2019 (Journal Indexed in SCI)

- **Atomic size effect of alloying elements on the formation, evolution and strengthening of gamma'-Ni₃Al precipitates in Ni-based superalloys**

Eriş R., Akdeniz M. V. , Mekhrabov A.

INTERMETALLICS, vol.109, pp.37-47, 2019 (Journal Indexed in SCI)

- **Effect of Mo addition on microstructure, ordering, and room-temperature mechanical properties of Fe-50Al**

Yıldırım M., Akdeniz M. V. , Mekhrabov A.

TRANSACTIONS OF NONFERROUS METALS SOCIETY OF CHINA, vol.28, pp.1970-1979, 2018 (Journal Indexed in SCI)

- **High-temperature site preference and atomic short-range ordering characteristics of ternary alloying elements in gamma'-Ni₃Al intermetallics**

Eris R., Mekhrabov A., Akdeniz M. V.

PHILOSOPHICAL MAGAZINE, vol.97, pp.2615-2631, 2017 (Journal Indexed in SCI)

- **Synthesis of AlNiCo core/shell nanopowders**

Genc A. M. , Akdeniz M. V. , Öztürk T., Kalay Y. E.

JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.417, pp.112-116, 2016 (Journal Indexed in SCI)

- **Microstructural evolution and room-temperature mechanical properties of as-cast and heat-treated Fe₅₀Al_{50-n}Nb_n alloys (n=1, 3, 5, 7, and 9 at%)**

Yıldırım M., Akdeniz M. V. , Mekhrabov A.

MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING, vol.664, pp.17-25, 2016 (Journal Indexed in SCI)

- **Microstructural Investigation and Phase Relationships of Fe-Al-Hf Alloys**

Yıldırım M., Akdeniz M. V. , Mekhrabov A.

METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, pp.3412-3421, 2014 (Journal Indexed in SCI)

- **Effects of Nanoparticle Geometry and Temperature on the Structural Evolution in FeCo Nanoalloys**

Yalçın M., Mekhrabov A., Akdeniz M. V.

ACTA PHYSICA POLONICA A, vol.125, pp.600-602, 2014 (Journal Indexed in SCI)

- **Synthesis and Characterization of Fe₈₀B₂₀ Nanoalloys Produced by Surfactant Assisted Ball Milling**

Fadaie A., Akdeniz M. V. , Mekhrabov A.

ACTA PHYSICA POLONICA A, vol.125, pp.597-599, 2014 (Journal Indexed in SCI)

- **Magnetic monitoring approach to nanocrystallization kinetics in Fe-based bulk amorphous alloy**
Duman N., Akdeniz M. V. , Mekhrabov A.
INTERMETALLICS, vol.43, pp.152-161, 2013 (Journal Indexed in SCI)
- **Glass Forming Ability and Magnetic Properties of Fe₃₆Ni₃₆B_{19.2}Si_{4.8}Nb_{4-x}M_x (M = Cu, Zr, Ti, Y, Pt) Bulk Glassy Alloys Fabricated by Suction Casting**
Kirimli H. E. , Sarlar K., Konuk A. O. , DUMAN N., AKDENİZ M. V. , Kucuk I.
JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.26, pp.1683-1685, 2013 (Journal Indexed in SCI)
- **Effect of Ternary Alloying Elements Addition on the Order-Disorder Transformation Temperatures of B2-Type Ordered Fe-Al-X Intermetallics**
Yıldırım M., Akdeniz M. V. , Mekhrabov A.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, pp.1809-1816, 2012 (Journal Indexed in SCI)
- **Microalloying effects on the microstructure and kinetics of nanoscale precipitation in Ni-Al-Fe alloy**
Duman N., Mekhrabov A., Akdeniz M. V.
INTERMETALLICS, vol.23, pp.217-227, 2012 (Journal Indexed in SCI)
- **Effect of Thickness on Magnetic Properties of Fe₃₆Co₃₆B_{19.2}Si_{4.8}Mo₂W₂ Thin Film Prepared by Thermionic Vacuum Arc**
Perincek F., Erturk K., AYKOL M., Kucuk I., AKDENİZ M. V.
ACTA PHYSICA POLONICA A, vol.121, pp.147-148, 2012 (Journal Indexed in SCI)
- **Solidification behavior, glass forming ability and thermal characteristics of soft magnetic Fe-Co-B-Si-Nb-Cu bulk amorphous alloys**
AYKOL M., AKDENİZ M. V. , MEKHRABOV A.
INTERMETALLICS, vol.19, pp.1330-1337, 2011 (Journal Indexed in SCI)
- **Kinetics of nanoscale precipitation in Ni-Fe-Al alloys: A magnetic monitoring approach**
DUMAN N., MEKHRABOV A., Akdeniz M. V.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.509, pp.6781-6786, 2011 (Journal Indexed in SCI)
- **Microstructural and magnetic characterization of iron precipitation in Ni-Fe-Al alloys**
DUMAN N., MEKHRABOV A., AKDENİZ M. V.
MATERIALS CHARACTERIZATION, vol.62, pp.606-614, 2011 (Journal Indexed in SCI)
- **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**
Kucuk I., Aykol M., Uzun O., Yıldırım M., Kabaer M., Duman N., Yılmaz F., Erturk K., Akdeniz M. V. , Mekhrabov A.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.509, pp.2334-2337, 2011 (Journal Indexed in SCI)
- **A generalized polytetrahedral cluster approach to partial coordination numbers in binary metallic glasses**
AYKOL M., MEKHRABOV A., AKDENİZ M. V.
PHILOSOPHICAL MAGAZINE, vol.91, pp.2985-3005, 2011 (Journal Indexed in SCI)
- **Effect of vanadium on atomic ordering characteristics and anti-phase boundary energies of B2-FeCo alloys**
AYKOL M., MEKHRABOV A., AKDENİZ M. V.
INTERMETALLICS, vol.18, pp.893-899, 2010 (Journal Indexed in SCI)
- **Site Selection and Pseudo-Clustering Behaviors of Alloying Elements in Aluminum-Lean gamma-TiAl Intermetallics**
AYKOL M., MEKHRABOV A., AKDENİZ M. V.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, pp.267-274, 2010 (Journal Indexed in SCI)
- **Theoretical prediction of bulk glass forming ability (BGFA) of Ti-Cu based multicomponent alloys**
SUER S., MEKHRABOV A., AKDENİZ M. V.
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.355, pp.373-378, 2009 (Journal Indexed in SCI)
- **Nano-scale phase separation in amorphous Fe-B alloys: Atomic and cluster ordering**
AYKOL M., MEKHRABOV A., AKDENİZ M. V.

ACTA MATERIALIA, vol.57, pp.171-181, 2009 (Journal Indexed in SCI)

- **Solidification microstructures and carbides morphology in rapidly solidified Fe-Al-Cr-C alloys**
AKDENİZ M. V. , MEKHRABOV A.
METALS AND MATERIALS INTERNATIONAL, vol.14, pp.397-402, 2008 (Journal Indexed in SCI)
- **Impurity-driven nanocrystallization of Zr-based bulk amorphous alloys**
AKDENİZ M. V. , MEKHRABOV A.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.8, pp.894-900, 2008 (Journal Indexed in SCI)
- **Modelling and Monte Carlo simulation of the atomic ordering processes in Ni₃Al intermetallics**
MEKHRABOV A., Akdeniz M. V.
MODELLING AND SIMULATION IN MATERIALS SCIENCE AND ENGINEERING, vol.15, pp.1-12, 2007 (Journal Indexed in SCI)
- **Solidification behaviour of bulk glass-forming alloy systems**
Akdeniz M. V. , MEKHRABOV A., PEHLIVANOGLU M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.386, pp.185-191, 2005 (Journal Indexed in SCI)
- **Modeling of the atomic ordering processes in Fe₃Al intermetallics by the Monte Carlo simulation method combined with electronic theory of alloys**
Mekhrabov A., AKDENİZ M. V.
Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, vol.34, pp.721-734, 2003 (Journal Indexed in SCI)
- **Structural characterization of iron-based bulk metallic glass alloys produced by centrifugal casting**
PEHLIVANOGLU M., Akdeniz M. V. , BOR A. S.
CHEMICAL ENGINEERING COMMUNICATIONS, vol.190, pp.925-935, 2003 (Journal Indexed in SCI)
- **Modeling the kinetics of atomic ordering in high temperature intermetallics**
MEKHRABOV A., Akdeniz M. V.
CHEMICAL ENGINEERING COMMUNICATIONS, vol.190, pp.898-910, 2003 (Journal Indexed in SCI)
- **Modeling of the atomic ordering processes in Fe₃Al intermetallics by the Monte Carlo simulation method combined with electronic theory of alloys**
MEKHRABOV A., Akdeniz M. V.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, pp.721-734, 2003 (Journal Indexed in SCI)
- **Effect of ternary alloying elements addition on atomic ordering characteristics of Fe-Al intermetallics**
MEKHRABOV A., Akdeniz M. V.
ACTA MATERIALIA, vol.47, pp.2067-2075, 1999 (Journal Indexed in SCI)
- **The effect of substitutional impurities on the evolution of Fe-Al diffusion layer**
Akdeniz M. V. , MEKHRABOV A.
ACTA MATERIALIA, vol.46, pp.1185-1192, 1998 (Journal Indexed in SCI)
- **Atomic ordering characteristics of Ni₃Al intermetallics with substitutional ternary additions**
MEKHRABOV A., Akdeniz M. V. , ARER M. M.
ACTA MATERIALIA, vol.45, pp.1077-1083, 1997 (Journal Indexed in SCI)
- **Microstructures and phase selection in rapidly solidified Zn-Mg alloys**
Akdeniz M. V. , WOOD J.
JOURNAL OF MATERIALS SCIENCE, vol.31, pp.545-550, 1996 (Journal Indexed in SCI)
- **EFFECT OF MELT SUPERHEAT ON THE GEOMETRY OF MELT-SPUN PURE ZINC RIBBON**
AKDENİZ M. V. , WOOD J.
SCRIPTA METALLURGICA ET MATERIALIA, vol.32, pp.1471-1475, 1995 (Journal Indexed in SCI)
- **THE ROLE OF SI ADDITION ON THE INTERFACIAL INTERACTION IN FE-AL DIFFUSION LAYER**
Akdeniz M., Mekhrabov A., Yilmaz T.
SCRIPTA METALLURGICA ET MATERIALIA, vol.31, pp.1723-1728, 1994 (Journal Indexed in SCI)
- **STRUCTURES IN RAPIDLY SOLIDIFIED ZINC**
AKDENİZ M. V. , REID C., WOOD J.
MATERIALS SCIENCE AND ENGINEERING, vol.98, pp.321-323, 1988 (Journal Indexed in SCI)

Articles Published in Other Journals

- **EFFECT OF Ti ADDITION ON CYCLIC OXIDATION BEHAVIOR OF FeAl INTERMETALLICS**

Yıldırım M., Akdeniz M. V. , Mekhrabov A.

Journal of Corrosion, vol.23, pp.4-11, 2017 (Other Refereed National Journals)

Book & Book Chapters

- **Microstructural Examination of Mn Alloyed Fe-Al Based Intermetallics**

AKDENİZ M. V. , MEKHRABOV A. O. , Ağdaş F.

in: Intermetallics and superalloys. EUROMAT 99. Vol. 10, Morris D.G., Naka S and Caron P, Editor, Wiley-Vch, Weinheim, pp.228-233, 2000

- **THE EFFECTS OF IMPURITY ELEMENTS ON THE PREFERRED ORIENTATION DURING MELT-SPINNING OF DILUTE ZN ALLOYS**

AKDENİZ M. V. , WOOD J. V.

in: Textures of Materials - ICOTOM 10, Bunge H.J., Editor, TRANSTEC PUBLICATIONS LTD, Zürich, pp.1351-1356, 1994

Refereed Congress / Symposium Publications in Proceedings

- **Radiation Damage Studies for Fe-Based Alloys Under 30 MeV Proton Irradiation**

Uslu P., Akdeniz M. V. , Mekhrabov A., Demirköz M. B.

Materials In Nuclear Energy Systems (MiNES 2019), Maryland, United States Of America, 6 - 10 October 2019

- **Design and Development of Heusler Alloys for Magnetic Refrigeration Applications**

Mekhrabov A., Akdeniz M. V.

Modern Trends in Physics-MTP-2019, Baku, Azerbaijan, 1 - 03 May 2019, pp.9-15

- **Manyetik Soğutucular İçin Ni-Tabanlı Heusler Alaşımlarının Tasarlanması ve Geliştirilmesi**

Toraman S., Mekhrabov A., Akdeniz M. V.

24. Yoğun Madde Fiziği – Ankara Toplantısı, Ankara, Turkey, 21 December 2018, pp.55

- **Synthesis and Structural Characterization of Multifunctional Ti Alloy: Gum Metal**

Elçin O., Mekhrabov A. O. , Akdeniz M. V.

IMMC2018-19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 - 27 October 2018, pp.322-325

- **Synthesis and Structural Characterization of Bulk and Nanoalloys of Ni-B Binary Systems**

Tekekaya H. S. , Mekhrabov A. O. , Akdeniz M. V.

IMMC2018-19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 - 27 October 2018, pp.594-597

- **Synthesis and Structural Characterization of Co-Al Binary Alloys**

DİNLER A. F. , MEKHRABOV A. O. , AKDENİZ M. V.

IMMC2018-19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 - 27 October 2018, pp.140-143

- **Alloy Design for the Development and Production of Titanium Based Bulk Metallic Glasses**

Demir I. B. , Mekhrabov A. O. , Akdeniz M. V.

IMMC2018-19th International Metallurgy and Materials Congress, İstanbul, Turkey, 25 - 27 October 2018, pp.307-310

- **Structural properties and room temperature mechanical properties of ultrafine eutectic Fe₅₀Al₅₀-nNb alloys**

Yıldırım M., Akdeniz M. V. , Mekhrabov A.

Intermetallics 2017, Nuremberg, Germany, 2 - 06 October 2017, pp.128-129

- **DESIGN AND DEVELOPMENT OF NOVEL MATERIALS FOR INDUSTRIAL APPLICATIONS**

Mekhrabov A., Akdeniz M. V.

INTERNATIONAL CONFERENCE "MODERN TRENDS IN PHYSICS", Baku, Azerbaijan, 20 - 22 April 2017,

pp.498-507

- **The Effects of Refractory Element Addition on the Long Term Stability and Microstructural Characteristics of Nickel-Based Superalloys:**
Eriş R., Akdeniz M. V. , Mekhrabov A.
TMS 2017 146th Annual Meeting and Exhibition, California, United States Of America, 26 February - 02 March 2017
- **Synthesis of AlNiCo Core Shell Nanopowders by Hydrogen Plasma Reaction**
GENÇ A. M. , AKDENİZ M. V. , ÖZTÜRK T., KALAY Y. E.
MRS Fall Meeting 2016, 27 November - 02 December 2016
- **Effect Of Ti Addition On Cyclic Oxidation Behavior Of FeAl Intermetallics**
Yıldırım M., Akdeniz M. V. , Mekhrabov A.
XIV. International Corrosion Symposium (KORSEM 2016), Bayburt, Turkey, 5 - 07 October 2016, pp.295-304
- **Synthesis and Characterization of Bulk Amorphous Nanocrystalline Soft Magnetic Materials**
Karataş M., Akdeniz M. V. , Mekhrabov A.
18th International Metallurgy & Materials Congress (IMMC 2016), İstanbul, Turkey, 29 September - 01 October 2016, pp.470-473
- **Production and Structural Characterization of NiB Nanoalloy Synthesized by Ball Milling**
Mut S., Mekhrabov A., Akdeniz M. V.
18th International Metallurgy & Materials Congress (IMMC 2016), İstanbul, Turkey, 29 September - 01 October 2016, pp.309-312
- **Effect of Ta Addition on Structural and Room Temperature Mechanical Properties of B2 Type Ordered FeAl Intermetallics**
Yıldırım M., Akdeniz M. V. , Mekhrabov A.
18th International Metallurgy & Materials Congress (IMMC 2016), İstanbul, Turkey, 29 September - 01 October 2016, pp.402-405
- **The Effects of Cr Addition on the Atomic Ordering Properties of Ni Based Superalloys**
Eriş R., Mekhrabov A., Akdeniz M. V.
18th International Metallurgy & Materials Congress (IMMC 2016), İstanbul, Turkey, 29 September - 01 October 2016, pp.689-692
- **Design and Development of Ni Based Heusler Alloys for Magnetic Refrigeration**
Toraman S., Mekhrabov A., Akdeniz M. V.
18th International Metallurgy & Materials Congress (IMMC 2016), İstanbul, Turkey, 29 September - 01 October 2016, pp.774-777
- **Effects of Nb Element Addition on the Short Range Order Characteristics of Nickel-Based Superalloys**
Mekhrabov A., Akdeniz M. V. , Eriş R.
Modern problems of Physics of Metals, Baku, Azerbaijan, 10 - 11 June 2016, pp.48-52
- **The effect of alloying additions on the interfacial interactions at the Fe-Al interface during coating**
MEKHRABOV A., Akdeniz M. V. , AKTURK I.
NATO Advanced Study Institute on Stability of Materials, CORFU, Greece, 25 June - 07 July 1994, vol.355, pp.681-686
- **The effect of alloying additions on the interfacial interactions at the Fe-Al interface during coating**
Mekhrabov A., Akdeniz M. V. , Aktürk İ.
NATO Advanced Study Institute on Stability of Materials, Ioannina, Greece, 25 June - 07 July 1994, vol.355, pp.681-986
- **THE EFFECTS OF IMPURITY ELEMENTS ON THE PREFERRED ORIENTATION DURING MELT-SPINNING OF DILUTE ZN ALLOYS**
AKDENİZ M. V. , WOOD J.
10th International Conference on Textures of Materials (ICOTOM-10), CLAUSTHAL ZELLERFE, Germany, 20 - 24 September 1993, pp.1351-1356

Supported Projects

AKDENİZ M. V. , ÇAKMAK H., Project Supported by Higher Education Institutions, Amorf/Camsı Çeliklerin Sert Kaplama

Malzemesi olarak Kullanımının Araştırılması, 2018 - 2019

AKDENİZ M. V. , Project Supported by Higher Education Institutions, DÖKME DEMİR HURDASINDAN İRİ HACİMLİ CAMSI ÇELİK SENTEZİ VE ÜRETİMİ, 2017 - 2017

MEHRABOV A., ERİŞ R., AKDENİZ M. V. , Project Supported by Higher Education Institutions, Yüksek Sıcaklık Ni-Al Esaslı Süperalaşımının Tasarımı ve Geliştirilmesi, 2017 - 2017

AKDENİZ M. V. , Project Supported by Higher Education Institutions, Çok İşlevselli Süper Alaşım: Sakız Metal, 2017 - 2017

AKDENİZ M. V. , Project Supported by Higher Education Institutions, YÜKSEK SICAKLIK SÜPER ALAŞIMLARININ TASARIMI VE GELİŞTİRİLMESİ, 2017 - 2017

MEHRABOV A., AKDENİZ M. V. , Project Supported by Higher Education Institutions, Fe-Co Nanoalaşım Parçacıkların Yapısal Özelliklerinin Teorik Yöntemlerle İncelenmesi, 2015 - 2015

AKDENİZ M. V. , Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

AKDENİZ M. V. , YAĞMURLU B., Project Supported by Higher Education Institutions, İRİ HACİMLİ CAMSI/NANOKRİSTAL MALZEMELER: CAMSI YAPI ÇELİKLERİ, 2013 - 2013

AKDENİZ M. V. , YALÇIN M., Project Supported by Higher Education Institutions, İNTEMRETALİK VE METALİK CAM NANOALAŞIMLARIN YAPI-ÖZELLİK İLİŞKİLERİNİN MODELLENMESİ, MEKANİK NANOALAŞIMLAMA İLE ÜRETİMİ VE KARAKTERİZASYONU, 2013 - 2013

AKDENİZ M. V. , Project Supported by Higher Education Institutions, İri Hacimli Camsi/Nanokristal Yapı Çeliklerinin Sentezlenmesi ve Karakterizasyonu, 2013 - 2013

Akdeniz M. V. , Mehrabov A., Yıldırım M., TÜBİTAK - AB COST Project, Nanoalloys as advanced materials: from structure to properties and applications (NANOALLOY) , 2010 - 2013

Öztürk T., Akdeniz M. V. , Premiership, Enerji Malzemeleri , 2009 - 2011

Mehrabov A., Akdeniz M. V. , Project Supported by Higher Education Institutions, Kobalt bazlı çok bileşenli iri ve hacimli camsi/nanokristal manyetik alaşımların tasarlanıp geliştirilmesi , 2010 - 2010

Öztürk T., Akdeniz M. V. , Premiership, Linyit Esaslı Termik Santrallerde Hasar Analizi Ve Malzeme İyileştirme Çalışmaları , 2007 - 2009

Akdeniz M. V. , Mehrabov A., Premiership, Magnetic Refrigeration, 2006 - 2009

Akdeniz M. V. , Mehrabov A., BOREN, Ulusal Bor Araştırma Enstitüsü Projesi, Development of Boron Based Bulk Metallic Glasses & Nanocrystalline Magnetic Materials for Engineering Applications, 2006 - 2008

Akdeniz M. V. , Mehrabov A., TÜBİTAK - AB COST Project, Thermodynamics of Alloyed Aluminides (THALU) , 2005 - 2008

Mehrabov A., Akdeniz M. V. , Project Supported by Higher Education Institutions, İri Hacimli Nano-kristal Metalik Camlarda Atomlar Arası Düzenlenmenin Monte Carlo Simulasyonu ile İncelenmesi , 2004 - 2004

Akdeniz M. V. , Mehrabov A., Project Supported by Higher Education Institutions, Demir Esaslı İri ve Hacimli Metalik Cam ve Nanokristal Manyetik Malzemelerin Üretimi ve Tanımlanması , 2002 - 2004

Mehrabov A., Akdeniz M. V. , Project Supported by Higher Education Institutions, Demir Bazlı Metalik Cam Malzemelerin Katılma ve Kristalleşme Davranışlarının İncelenmesi , 2002 - 2004

Mehrabov A., Akdeniz M. V. , Project Supported by Higher Education Institutions, Mühendislik Uygulamaları için Titanyum Esaslı İri ve Hacimli Cam/Nanokristal Malzemelerin Üretilmesi ve Tanımlanması , 2002 - 2004

Akdeniz M. V. , Mehrabov A., Project Supported by Higher Education Institutions, Zirkon Esaslı İri ve Hacimli Metalik Cam Malzemelerin Üretimi ve Tanımlanması , 2002 - 2004

Mehrabov A., Akdeniz M. V. , Project Supported by Higher Education Institutions, Nikel Esaslı İri ve Hacimli Metalik Cam Malzemelerin Üretimi ve Tanımlanması , 2002 - 2004

Akdeniz M. V. , Mehrabov A., Project Supported by Higher Education Institutions, Demir Bazlı İri ve Hacimli Metalik Cam Malzemelerin Üretimi ve Geliştirilmesi , 1999 - 2003

Akdeniz M. V. , Mehrabov A., Premiership, ENDÜSTRİYEL UYGULAMALI METALİK CAM, 1998 - 2003

Akdeniz M. V. , Project Supported by Higher Education Institutions, Yüksek Basınç Altında Katılma , 1992 - 1994

Citations

Total Citations (WOS):414

h-index (WOS):9

