Prof. İMAN ASKERBEYLİ

Personal Information

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Education Information

Doctorate, Azerbaycan Bilimler Akademisi, Azerbaijan 1990 - 1995 Postgraduate, Lomonosov Moskova Devlet Üniversitesi, Russia 1983 - 1985 Undergraduate, Moskova M.V. Lomonosov Moskova Devlet Üniversitesi, Fizik Fakültesi, Russia 1979 - 1983

Foreign Languages

Russian, B2 Upper Intermediate

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Ankara University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2007 - Continues Professor, Azerbaycan Bilimler Akademisi, 2000 - 2007 Research Assistant, Moskova M.V. Lomonosov Moskova Devlet Üniversitesi, 1979 - 1985

Academic and Administrative Experience

Deputy Director of the Center, Ankara University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, 2022 -Continues Head of Department, 2012 - Continues Head of Department, 2007 - Continues

Courses

Sayısal yöntemler ve uygulasmaları, Undergraduate, 2022 - 2023

Araştırma teknikleri, Undergraduate, 2021 - 2022 Sayısal yöntemler ve uygulamaları, Undergraduate, 2022 - 2023 Research Technique, Undergraduate, 2022 - 2023 Otomata teorisi, Undergraduate, 2021 - 2022 Research Technique, Undergraduate, 2021 - 2022 Sayısal yöntemler ve uygulamaları, Undergraduate, 2022 - 2023 Sayısal yöntemler, Postgraduate, 2022 - 2023 Hesaplama teorisi, Doctorate, 2021 - 2022

Advising Theses

Askerbeyli İ., Analysis of network security using machine learning methods, Doctorate, M.SALATI(Student), 2024 Askerbeyli İ., Yazılım Tanımlı Ağlarda Hibrit Derin Öğrenme Yaklaşımları Kullanılarak Ağ Saldırı Tespit Sistemi, Doctorate, R.BEN(Student), 2024 Askerbeyli İ., Öz denetimli yöntemlerle görsel özellik ayrıştırma, Postgraduate, A.AKIN(Student), 2023 Askerbeyli İ., Application of fuzzy logic and machine learning methods for food quality control, Doctorate, Z.Nasih(Student), 2023 Askerbeyli İ., Bilgisayar oyunlarında makine öğrenmesi yöntemlerinin kullanılması, Postgraduate, H.OĞUZ(Student), 2022 Askerbeyli İ., Bütçe ve zaman kısıtlı turist rotalama problemi, Postgraduate, İ.YILMAZ(Student), 2022 Askerbeyli İ., Derin öğrenme ile covid-19, beyaz kan hücreleri, tüberküloz ve kalp krizi riskinin analizi, Doctorate, Ö.SEVİNÇ(Student), 2022 ASKERBEYLİ İ., Derin öğrenme yöntemleri kullanılarak giyilebilir sensörlerden kişi tanıma, Doctorate, Ş.KILIÇ(Student), 2021 ASKERBEYLİ İ., Sanal Para Pazarlarındaki Manipülatörlerin Makine Öğrenimi Yöntemleri Kullanılarak Tespiti, Doctorate, F.AKBA(Student), 2021 ASKERBEYLİ İ., Veri madencılığı teknikleri kullanarak suç analizi ve önleme, Postgraduate, S.SIENTCHANWA(Student), 2020 ASKERBEYLİ İ., Detection of subtle changes on moving objects with video magnification method and analysis with deep learning, Doctorate, A.ASIM(Student), 2020 ASKERBEYLİ İ., Fuzzy logic based control of Hvac systems, Postgraduate, E.KANSU(Student), 2018 ASKERBEYLİ İ., Akciğer hastalıkları teşhisinde sınıflandırma ve bulanık mantık yöntemlerinin uygulanması, Postgraduate, H.KAYA(Student), 2018 ASKERBEYLİ İ., Gıda kalitesi kontrolünde bulanık mantık yöntemlerinin uygulanması, Postgraduate, A.EMRE(Student), 2017 ASKERBEYLI I, A genetic algorithm for solving time-dependent orienteering problem, Postgraduate, M.BEHDADNIA(Student), 2016 TANRIÖVER Ö. Ö., ASKERBEYLİ İ., Yazılım proje riskleri için bir karar destek yöntemi ve yazılım prototipi, Postgraduate, S.VAHIDNIA(Student), 2016 ASKERBEYLİ İ., Arıza kaldırabilir yonga-üstü-ağlar için topoloji oluşturma, uygulama eşleme ve yönlendirme algoritmalarının tasarlanması, Postgraduate, V.BABAEI(Student), 2015 ASKERBEYLİ İ., Bulanık uzman sistemler kullanılarak tıpta hastalık teşhisi, Postgraduate, N.ZIASABOUNCHI(Student), 2014 ASKERBEYLİ İ., Bulanık mantık yöntemleri kullanılarak gazlı içeceklerde karbondioksit kontrolü, Postgraduate, J.S.ABDULJABAR(Student), 2011 ASKERBEYLİ İ., İletişim ağ problemlerinin çözümünde neuro- fuzzy yaklaşımı, Postgraduate, F.AYBİKE(Student), 2011 ASKERBEYLİ İ., Bulanık mantık kullanılarak trafik kontrolünün tasarımı ve uygulaması, Postgraduate, M.S.(Student), 2010 ASKERZADE İ., MAGNEZYUM DİBORİDE (MgB2)' NİN KRİTİK SICAKLIĞININ İKİ BANTLI ELİASHBERG TEORİSİ İLE INCELENMESI, D.KANBUR(Student), 2007 ASKERZADE İ., MgB2 tek kristali için kritik manyetik alanın iki bantlı anizotropik Ginzburg-Landau teorisi ile incelenmesi,

Jury Memberships

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Ankara Üniversitesi, July, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, May, 2023 Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Artvin Çoruh Üniversitesi, May, 2023

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Ankara Üniversitesi, March, 2023

Doctorate, Doctorate, Ankara Üniversitesi, February, 2023

Post Graduate, Post Graduate, Ankara Üniversitesi, February, 2023

Doctoral Examination, Doctoral Examination, Ankara Üniversitesi, February, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, January, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, December, 2022

Post Graduate, Post Graduate, Ankara Üniversitesi, October, 2022

Post Graduate, Post Graduate, Ankara Üniversitesi, September, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Ankara Üniversitesi, September, 2022

Doctoral Examination, Doctoral Examination, Ankara Üniversitesi, August, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Ankara Üniversitesi, August, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, August, 2022

Doctorate, Doctorate, Ankara Üniversitesi, July, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, July, 2022 PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, June, 2022 PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, June, 2022 Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Ankara Üniversitesi, May, 2022

Associate Professor Exam, Associate Professor Exam, Ankara Üniversitesi, May, 2022

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Ankara Üniversitesi, February, 2022

Doctoral Examination, Doctoral Examination, Ankara Üniversitesi, February, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, January, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Ankara University, June, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

I. Escape rate in ac SQUID on josephson junction based on single- and multi-band superconductors in thermal activation regime

Aydin A., Askerbeyli İ., Askerbeyli R.

LOW TEMPERATURE PHYSICS, vol.49, no.9, pp.1005-1008, 2023 (SCI-Expanded)

II. Discrete sine-Gordon equation on metric graphs: A simple model for Josephson junction networks Akramov M. E., Yusupov J. R., Askerbeyli İ., Matrasulov D. U. PHYSICA SCRIPTA, vol.230105446, no.2301.05446, pp.1-7, 2023 (SCI-Expanded)

- III. Frustration Effect on Penetration Depth in Long Josephson Junctions Between Single- and Multiband Superconductors
 Askerzade İ., Matrasulov D., Salati M.
 JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.35, no.10, pp.2749-2754, 2022 (SCI-Expanded)
- IV. Influence of anharmonic current-phase relation on the time resolution of Josephson balanced comparator Askerzade İ., Ulku I.

LOW TEMPERATURE PHYSICS, vol.48, no.9, pp.696-699, 2022 (SCI-Expanded)

- V. Effect of unconventional current-phase relation of Josephson junction on escape rate in ac SQUID Askerzade İ., Askerbeyli R. T., ÜLKÜ İ.
 PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.598, 2022 (SCI-Expanded)
- VI. An Effective Medical Image Classification: Transfer Learning Enhanced by Auto Encoder and Classified with SVM

Sevinç Ö., Mehrubeoglu M., Güzel M. S., Askerzade İ.

TRAITEMENT DU SIGNAL, vol.39, no.1, pp.125-131, 2022 (SCI-Expanded)

VII. Return current of dc SQUID based on tunnel Josephson junctions with unconventional current-phase relation ASKERBEYLİ İ., Askerbeyli R.

LOW TEMPERATURE PHYSICS, vol.47, no.5, pp.392-395, 2021 (SCI-Expanded)

- VIII. Frustration effect on escape rate in Josephson junctions between single-band and three-band superconductors in the macroscopic quantum tunneling regime
 ASKERBEYLİ İ., AYDIN A.
 LOW TEMPERATURE PHYSICS, vol.47, no.4, pp.282-286, 2021 (SCI-Expanded)
 - IX. A New Approach for Human Recognition Through Wearable Sensor Signals Kilic S., Kaya Y., Askerbeyli İ.

ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, vol.46, no.4, pp.4175-4189, 2021 (SCI-Expanded)

- X. Estimation Model for Bread Quality Proficiency Using Fuzzy Weighted Relevance Vector Machine Classifier
 - Ali Z. N., Askerbeyli İ., Abdulwahab S.

APPLIED BIONICS AND BIOMECHANICS, vol.2021, 2021 (SCI-Expanded)

XI. Effect of Zn on thermoelectric power in superconducting Bi2Sr2CaxZn1-xCu2O8+y compounds Ragimov S., ASKERBEYLİ İ., Agaeva G.

Fizika Nizkikh Temperatur, vol.47, no.2, pp.120-125, 2021 (SCI-Expanded)

XII.Effect of Zn on thermoelectric power in superconducting Bi2Sr2Ca xZn1- x Cu2O8+ y compounds
Ragimov S. S., Askerzade İ., Agaeva G.

Low Temperature Physics, vol.47, no.2, pp.106-109, 2021 (SCI-Expanded)

XIII. Manipulator Detection in Cryptocurrency Markets Based on Forecasting Anomalies Akba F., Medeni İ. T., Güzel M. S., Askerbeyli İ. IEEE ACCESS, vol.9, pp.108819-108831, 2021 (SCI-Expanded)

XIV. White Blood Cell Classification Using Genetic Algorithm\u2013Enhanced Deep Convolutional Neural Networks

ASKERBEYLİ İ., GÜZEL M. S., SEVİNÇ Ö., Mehrubeoglu M.

Transactions on Computational Science and Computational Intelligence", "Advances in Artificial Intelligence and Applied Cognitive Computing, 2021 (SCI-Expanded)

XV. Influence of Unconventional Current-Phase Relation on Return Current of Tunnel Josephson Junctions

ASKERBEYLİ İ.

JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.33, no.11, pp.3407-3410, 2020 (SCI-Expanded)

XVI. Critical current of dc SQUID on Josephson junctions with unconventional current-phase relation ASKERBEYLİ İ., Askerbeyli R. T.

	LOW TEMPERATURE PHYSICS, vol.46, no.9, pp.919-922, 2020 (SCI-Expanded)
XVII.	Escape rate in Josephson junctions between single -band and two -band superconductors
	Askerzade İ.
	PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.574, 2020 (SCI-Expanded)
XVIII.	A Novel Action Recognition Framework Based on Deep-Learning and Genetic Algorithms
	Yilmaz A. A., Güzel M. S., Bostancı G. E., Askerbeyli İ.
	IEEE ACCESS, vol.8, pp.100631-100644, 2020 (SCI-Expanded)
XIX.	Using ResNet Transfer Deep Learning Methods in Person Identification According to Physical
	Actions
	Kilic S., Askerbeyli İ., Kaya Y.
	IEEE ACCESS, vol.8, pp.220364-220373, 2020 (SCI-Expanded)
XX.	Effects of Thermal Fluctuations on Dynamics of Josephson Junction with Unconventional Current-
	Phase Relation
	Askerzade İ.
	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.32, no.10, pp.3149-3154, 2019 (SCI-Expanded)
XXI.	The Influence of Zn on Superconducting Properties of Bi2Sr2Ca1Cu2OX
	Ragimov S. S., Askerzade İ., Agayeva G. I.
	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.32, no.10, pp.3033-3036, 2019 (SCI-Expanded)
XXII.	Influence of unconventional current-phase relation of Josephson junction on the escape rate in
	macroscopic quantum tunneling regime
	Askerzade İ. LOW TEMPERATURE PHYSICS, vol.45, no.10, pp.1072-1075, 2019 (SCI-Expanded)
XXIII.	Effect of thermal fluctuations on dynamics of small Josephson junctions
AAIII .	Askerzade İ.
	MODERN PHYSICS LETTERS B, vol.33, no.25, 2019 (SCI-Expanded)
XXIV.	BCS Superconductivity of Dirac Electrons in Graphene Monolayer
	Askerbeyli R. T. T., Askerzade İ.
	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.32, no.7, pp.1871-1874, 2019 (SCI-Expanded)
XXV.	Angular Dependence of the Critical Current Density in Two-Band Ginzburg-Landau Theory
	Askerzade İ., Guzel M. S.
	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.32, no.7, pp.1921-1926, 2019 (SCI-Expanded)
XXVI.	Plasmon spectrum of graphene monolayer on substrate
	Askerzade İ., Askerbeyli R. T.
	MODERN PHYSICS LETTERS B, vol.33, no.9, 2019 (SCI-Expanded)
XXVII.	Oxygen Isotope Exponent as a Function of the Numbers of CuO2 Layers in Optimally Doped
	Superconductors Bi2Sr2Ca Cun-1 (n) 02n+4+delta (n=1, 2, 3)
	Askerzade İ., Askerbeyli R. T. T.
	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.31, no.4, pp.1043-1046, 2018 (SCI-Expanded)
XXVIII.	The effect of electron density fluctuations on critical temperature in layered superconductors with
	arbitrary thickness of conducting layer
	Askerzade İ.
	PHYSICA C-SUPERCONDUCTIVITY AND ITS APPLICATIONS, vol.547, pp.27-29, 2018 (SCI-Expanded)
XXIX.	The influence of thermal fluctuations on Coulomb blockade edge in small Josephson junctions with
	linear growing of voltage Askerzade İ.
	Askerzade I. LOW TEMPERATURE PHYSICS, vol.44, no.3, pp.210-212, 2018 (SCI-Expanded)
XXX.	Anisotropy of Critical Current Density in LiFeAs Using Two-Band Ginzburg-Landau Theory
	Anisotropy of Critical Current Density in LireAs Using Two-Band Ginzburg-Landau Theory Askerzade İ.
	JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.30, no.6, pp.1655-1658, 2017 (SCI-Expanded)
XXXI.	Superconducting Quantum Bits
	Askerzade İ., BOZBEY A., Canturk M.

MODERN ASPECTS OF JOSEPHSON DYNAMICS AND SUPERCONDUCTIVITY ELECTRONICS, pp.119-142, 2017 (SCI-Expanded)

 XXXII. Digital Superconductivity Electronics
 ASKERBEYLİ İ., BOZBEY A., Canturk M.
 MODERN ASPECTS OF JOSEPHSON DYNAMICS AND SUPERCONDUCTIVITY ELECTRONICS, pp.89-118, 2017 (SCI-Expanded)

 XXXIII. Chaotic Phenomena in Josephson Systems

Askerzade İ., BOZBEY A., Canturk M. MODERN ASPECTS OF JOSEPHSON DYNAMICS AND SUPERCONDUCTIVITY ELECTRONICS, pp.143-172, 2017 (SCI-Expanded)

 XXXIV. Foundations of Josephson Junction Dynamics
 ASKERBEYLİ İ., BOZBEY A., Canturk M.
 MODERN ASPECTS OF JOSEPHSON DYNAMICS AND SUPERCONDUCTIVITY ELECTRONICS, pp.1-48, 2017 (SCI-Expanded)

XXXV. Modern Aspects of Josephson Dynamics and Superconductivity Electronics Preface Askerzade İ., BOZBEY A., Canturk M. MODERN ASPECTS OF JOSEPHSON DYNAMICS AND SUPERCONDUCTIVITY ELECTRONICS, 2017 (SCI-Expanded)

XXXVI. Analog Superconductivity Electronics ASKERBEYLİ İ., BOZBEY A., Canturk M. MODERN ASPECTS OF JOSEPHSON DYNAMICS AND SUPERCONDUCTIVITY ELECTRONICS, pp.49-88, 2017 (SCI-Expanded)

XXXVII. Dynamic properties of a Josephson junction balanced comparator with Coulomb blockade Askerzade İ.

TECHNICAL PHYSICS, vol.61, no.9, pp.1427-1429, 2016 (SCI-Expanded)

XXXVIII. Fluctuation conductivity in two-band superconductor SmFeAsO0.8F0.2 Askerzade İ., Askerbeyli R. T. T. MATERIALS SCIENCE-POLAND, vol.33, no.3, pp.644-648, 2015 (SCI-Expanded)

XXXIX. Energy spectrum of a Josephson-junction qubit with an anharmonic current-phase relationship Askerzade İ., Hashimoglu I.

TECHNICAL PHYSICS, vol.60, no.9, pp.1402-1404, 2015 (SCI-Expanded)

XL. Thermodynamics of noninteracting bosonic gases in cubic optical lattices versus ideal homogeneous Bose gases

Rakhimov A., Askerzade İ.

INTERNATIONAL JOURNAL OF MODERN PHYSICS B, vol.29, no.18, 2015 (SCI-Expanded)

XLI. Effects of anharmonicity of current-phase relation in Josephson junctions Askerzade İ. LOW TEMPERATURE PHYSICS, vol.41, no.4, pp.241-259, 2015 (SCI-Expanded)

XLII.Fluctuation of Diamagnetic Susceptibility in Two-band SuperconductorsAskerzade İ.

JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.28, no.2, pp.319-322, 2015 (SCI-Expanded)

XLIII. Chaotic Dynamics of a Fractal Josephson Junction
 Canturk M., Askerzade İ.
 JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.28, no.2, pp.303-307, 2015 (SCI-Expanded)

XLIV. Vortex Lattice in LiFeAs Superconductor in the Two-Band Ginzburg-Landau Model Askerzade İ.

TECHNICAL PHYSICS, vol.59, no.11, pp.1728-1731, 2014 (SCI-Expanded)

XLV. Specific heat jump of two-band superconductor KFe2As2 using Ginzburg-Landau theory Askerzade İ.

MATERIALS SCIENCE-POLAND, vol.32, no.3, pp.465-469, 2014 (SCI-Expanded)

XLVI. Critical temperature of noninteracting bosonic gases in cubic optical lattices at arbitrary integer fillings

Rakhimov A., Askerzade İ. PHYSICAL REVIEW E, vol.90, no.3, 2014 (SCI-Expanded) XLVII. Time resolution of Josephson balanced comparators with shunt resistance ASKERBEYLİ İ. Automatic Control and Computer Sciences, vol.48, no.4, pp.239-242, 2014 (SCI-Expanded) XLVIII. Temperature dependence of the anisotropy parameter of the LiFeAs upper critical field in the twoband Ginzburg-Landau theory Askerzade İ., Guclu N., Tagiyeva R. T. TECHNICAL PHYSICS, vol.58, no.6, pp.888-891, 2013 (SCI-Expanded) XLIX. Anisotropy Parameters of Critical Fields in LiFeAs Using Two-Band Ginzburg-Landau Theory Askerzade İ. JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.26, no.5, pp.1903-1907, 2013 (SCI-Expanded) L. Chaotic Dynamics of Externally Shunted Josephson Junction with Unharmonic CPR Canturk M., Askerzade İ. JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.26, no.4, pp.839-843, 2013 (SCI-Expanded) LI. Dependence of critical temperature on carrier density in NdFeAsO1-y using BCS theory Askerzade İ., Tagiyeva R. T., Guclu N. OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS, vol.7, no.3-4, pp.276-278, 2013 (SCI-Expanded) LII. Numerical Study of I-V Characteristics of Externally Shunted Josephson Junctions With Unharmonic **Current-Phase Relation** Canturk M., Askerzade İ. IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol.22, no.6, 2012 (SCI-Expanded) LIII. Angular effects on upper critical field in LiFeAs using two-band Ginzburg-Landau theory Askerzade İ., Tagiyeva (Askerbeyli) R. T. SUPERCONDUCTOR SCIENCE & TECHNOLOGY, vol.25, no.9, 2012 (SCI-Expanded) LIV. Numerical simulation of the vortex dynamics in the two-band Ginzburg-Landau model Askerzade İ. TECHNICAL PHYSICS, vol.57, no.1, pp.131-133, 2012 (SCI-Expanded) LV. Preface Askerbeyli İ. Springer Series in Materials Science, vol.153, 2012 (SCI-Expanded) Numerical Study of Josephson Junction Qubits With an Unharmonic Current-Phase Relation LVI. Canturk M., Askerzade İ. IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, vol.21, no.5, pp.3541-3547, 2011 (SCI-Expanded) LVII. Strong Solutions of the Fuzzy Linear Systems EMRAH Ş., Askerzade İ. CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.76, no.3-4, pp.207-216, 2011 (SCI-Expanded) LVIII. Splitting of the Energy Level of a Josephson-Junction Qubit with an Anharmonic Current-Phase Relation Askerzade İ. TECHNICAL PHYSICS, vol.56, no.5, pp.744-746, 2011 (SCI-Expanded) LIX. Critical current density of a YNi2B2C superconductor in the two-band Ginzburg-Landau model Askerzade İ., Hashimoglu I. TECHNICAL PHYSICS, vol.56, no.4, pp.557-559, 2011 (SCI-Expanded) LX. Fluctuation of Specific Heat in Two-Band Superconductors Askerzade İ. JOURNAL OF SUPERCONDUCTIVITY AND NOVEL MAGNETISM, vol.24, no.1-2, pp.275-278, 2011 (SCI-Expanded) LXI. Alternative numerical modeling of a superconducting charge qubit as an eigenvalue problem Canturk M., KURT E., Askerzade İ.

COMPEL-THE INTERNATIONAL JOURNAL FOR COMPUTATION AND MATHEMATICS IN ELECTRICAL AND

	ELECTRONIC ENGINEERING, vol.30, no.2, pp.775-792, 2011 (SCI-Expanded)
LXII.	Fuzzy Optimization of Multivariable Fuzzy Functions
	EMRAH Ş., Askerzade İ.
	CMES-COMPUTER MODELING IN ENGINEERING & SCIENCES, vol.70, no.1, pp.1-9, 2010 (SCI-Expanded)
LXIII.	Thermoelectromotive force in Bi2Sr2Ca2Cu4O11 bismuth-based high-temperature superconductor
	Ragimov S. S., Askerzade İ.
	TECHNICAL PHYSICS, vol.55, no.10, pp.1538-1539, 2010 (SCI-Expanded)
LXIV.	Pressure and Doping Effects on Critical Temperature in MgB2 and Nonmagnetic Borocarbides within
	Two-Band Eliashberg Theory
	Askerzade İ.
	COMMUNICATIONS IN THEORETICAL PHYSICS, vol.53, no.6, pp.1181-1184, 2010 (SCI-Expanded)
LXV.	Numerical simulation of vortex nucleation in the two-band Ginzburg-Landau model
	Askerzade İ.
	TECHNICAL PHYSICS, vol.55, no.6, pp.896-899, 2010 (SCI-Expanded)
LXVI.	Phase qubit on a superconducting single-junction interferometer
	Askerzade İ., EMRAH Ş.
	TECHNICAL PHYSICS LETTERS, vol.36, no.2, pp.93-95, 2010 (SCI-Expanded)
LXVII.	AN IMPLEMENTATION OF AUTOMATIC CONTOUR LINE EXTRACTION FROM SCANNED DIGITAL
	TOPOGRAPHIC MAPS
	SAMET R., Askerzade İ., Varol C.
	APPLIED AND COMPUTATIONAL MATHEMATICS, vol.9, no.1, pp.116-127, 2010 (SCI-Expanded)
LXVIII.	Study of layered superconductors in the theory of an electron-phonon coupling mechanism
	Askerzade İ.
	PHYSICS-USPEKHI, vol.52, no.10, pp.977-988, 2009 (SCI-Expanded)
LXIX.	Fluctuation conductivity of Bi2Sr2CaCu2O8+delta in a two-band superconductivity model
	Askerzade İ., Ragimov S. S.
	TECHNICAL PHYSICS LETTERS, vol.35, no.6, pp.521-523, 2009 (SCI-Expanded)
LXX.	Anisotropy of Critical Fields in MgB2: Two-Band Ginzburg-Landau Theory for Layered
	Superconductors
	Askerzade İ., Tanatar B.
	COMMUNICATIONS IN THEORETICAL PHYSICS, vol.51, no.3, pp.563-569, 2009 (SCI-Expanded)
LXXI.	Transfer characteristic of a Goto pair in small-size Josephson junctions
	Askerzade İ., SAMET R.
	TECHNICAL PHYSICS LETTERS, vol.34, no.9, pp.737-739, 2008 (SCI-Expanded)
LXXII.	Nonlinear temperature dependence of magnetization of two-band superconductors near upper
	critical field Askerzade İ.
	Askerzade 1. COMMUNICATIONS IN THEORETICAL PHYSICS, vol.48, no.5, pp.949-952, 2007 (SCI-Expanded)
LXXIII.	Plasma frequency of the tunnel Josephson junctions with anharmonic current-phase relationship
	Askerzade İ.
	TECHNICAL PHYSICS LETTERS, vol.33, no.9, pp.723-725, 2007 (SCI-Expanded)
LXXIV.	Angular dependence of upper critical field in two-band Ginzburg-Landau theory
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Yılmaz A. A., GÜZEL M. S., ASKERBEYLİ İ. International Conference on Theoretical and Applied Computer Sciences and Engineering, 10 - 11 November 2017 Discovering the future of the social trends bu using social media tools LIX. SEVİNÇ Ö., GÜZEL M. S., ASKERBEYLİ İ. Comeng 2017 İstanbul, İstanbul, Turkey, 28 - 30 August 2017 LX. Fe based superconductors:multiband and anisotropy effects ASKERBEYLİ İ. International Conference Modern Trends in Physics, 20 - 22 April 2017 LXI. Josephson qubits for quantum computing ASKERBEYLİ İ Asia-Pacific Conference and Workshop on Quantum Information Science 2016, Baku, Azerbaijan, 4 - 09 December 2016 LXII. Superconducting quantum bits ASKERBEYLİ İ. INTERNATIONAL SYMPOSIUM "NEW TRENDS OF DEVELOPMENT FUNDAMENTAL AND APPLIED PHYSICS: Taşkent, Uzbekistan, 10 - 11 November 2016 LXIII. Süperiletkenlik teknolojileri ASKERBEYLİ İ. International Conference on Science and Technology, Ankara, Turkey, 3 - 06 October 2016 LXIV. Chaotic behavor of fractal Josephson junctions and the influence of anharmonic current phase relation ASKERBEYLİ İ. The third dynamics days in Central Asia, Astana, Kazakistan, 2 - 05 September 2016 LXV. Anisotropy of Critical Current Density in LiFeAs Using Two Band Ginzburg Landau Theory ASKERBEYLİ İ. International Conference on Superconductivity and Magnetism, 2, 24 - 30 April 2016 Dynamics of balanced comparators based on small Josephson junctions with Coulomb blockade LXVI. ASKERBEYLİ İ., ASKERBEYLİ R. 9th International Conference of Modern Problems of Physics, Baku, Azerbaijan, 22 - 26 December 2015, pp.428-431 LXVII. Multiband and anisotropy effects in Fe based superconductors ASKERBEYLİ İ. ICTP Summer School, Modern Trends in Theoretical Condensed Matter Physics, Khiva, Uzbekistan, 18 - 29 May 2015 LXVIII. Numerical Study of Vortex Nucleation in Two-Band Superconductors ASKERBEYLI I., Hashimoglu I. 4th International Conference on Problems of Cybernetics and Informatics (PCI), Baku, Azerbaijan, 12 - 14 September 2012 LXIX. Design and Implementation of Intelligent Traffic Control by Using Fuzzy Logic ASKERBEYLİ İ 1st International Fuzzy Systems Symposium, 2 - 04 January 2016, pp.52-59 LXX. The influence of the carrier density on the critical temperature in layered superconductors Askerzade İ. 1st Regional Conference on Magnetic and Superconducting Materials (MSM-99), Tehran, Iran, 27 - 30 September 1999, pp.107-110

Supported Projects

Askerbeyli İ., TÜBİTAK International Bilateral Joint Cooperation Program Project, Dallı Süperiletken Malzemelerde Kuasiparçacıklar Ve Solitonların Dinamiği, 2022 - 2024 Askerbeyli İ., TUBITAK Project, Alışılmadık cereyan-faz bağıntısına sahip Josephson sistemlerinin dinamiği, 2018 - 2021 ASKERBEYLİ İ., TUBITAK Project, RSFQ tabanlı entegre devre tasarım aracı ve aritmetik mantık birimi geliştirilmesi, 2013 - 2017

Askerbeyli İ., TUBITAK Project, Feroomanyetik tabanlı süperiletkenlerin teorik modellenmesi ve simülasyonu, 2011 - 2013

Askerbeyli İ., Samet R., NATO Supported Research Project, Fiber optical internet system for Azerbaijan Universities, 2010 - 2011

ASKERBEYLİ İ., Other International Funding Programs, Fluctuation effects in two-band superconductors, 2009 - 2011 Askerbeyli İ., Emrah Ş., Project Supported by Other Official Institutions, Dağıtımlı bir sıra tabanlı oyun yapay zekasının geliştirilmesi, 2008 - 2011

Askerbeyli İ., TUBITAK Project, Magnezyum diboride MgB2 nin fizksel özelliklerinin Eliashberg ve anizotropik Ginzburg-Landau teorisi kullanılarak analizi, 2005 - 2007

ASKERBEYLİ İ., Other International Funding Programs, Physical properties of two-band superconductor MgB2 Ginzburg-Landau theory and AC losses calculation in framework critical model (NATO reintegration grant No 980766, 2004 -2007

Askerbeyli İ., TUBITAK Project, Ginzburg-Landau teorisinin borokarbidlere uygulanması, 2001 - 2001 ASKERBEYLİ İ., Other International Funding Programs, Süperiletkenlik Ginzburg-Landau (GL) teorisi, 2000 - 2000

Activities in Scientific Journals

Advanced Physical Research, Editor, 2022 - Continues Proceedings of the Institute of Applied Mathematics, Editor, 2022 - Continues METALS, Special Issue Editor, 2022 - 2022

Memberships / Tasks in Scientific Organizations

Ankara Universitesi Süpeletkenlik Teknoljileri Araştırma Merkezi, Executive Board Member, 2015 - Continues, Turkey

Scientific Refereeing

PROCEEDINGS (MDPI), SCI Journal, July 2023 Communications, National Scientific Refreed Journal, July 2023 SENSORS, SCI Journal, January 2023 CMES - COMPUTER MODELING IN ENGINEERING AND SCIENCES, SCI Journal, December 2022 International Journal of Thermodynamics, National Scientific Refreed Journal, December 2022 The European Physical Journal B, SCI Journal, December 2022 Technopark, Ankara University, Turkey, December 2022 Technopark, Ankara University, Turkey, December 2022 Technopark, Ankara University, Turkey, December 2022 Technopark, Ankara University, Turkey, December 2022 Technopark, Ankara University, Turkey, December 2022 **APPLIED SCIENCES, SCI Journal, November 2022** Technopark, Ankara University, Turkey, November 2022 Technopark, Ankara University, Turkey, November 2022 Technopark, Ankara University, Turkey, October 2022 Technopark, Ankara University, Turkey, October 2022 Technopark, Ankara University, Turkey, October 2022 Technopark, Ankara University, Turkey, October 2022

MODERN PHYSICS LETTERS B, SCI Journal, September 2022 INDIAN JOURNAL OF PHYSICS, SCI Journal, September 2022 Technopark, Ankara University, Turkey, September 2022 PHYSICA C: SUPERCONDUCTIVITY AND ITS APPLICATIONS, SCI Journal, August 2022 CRYSTALS, SCI Journal, July 2022 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ankara University, Turkey, July 2022 Technopark, Ankara University, Turkey, July 2022 PHYSICA A: STATISTICAL MECHANICS AND ITS APPLICATIONS, SCI Journal, May 2022 TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ankara University, Turkey, April 2022 SENSORS, Journal Indexed in SCI-E, March 2022 SENSORS, Journal Indexed in SCI-E, January 2022

Scientific Consultations

TUBİTAK, Project Consultancy, Ankara University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2021 -Continues

TÜBİTAK, Project Consultancy, Ankara University, Mühendislik Fakültesi, Bilgisayar Mühendisliği Bölümü, Turkey, 2021 - 2023

Tasks In Event Organizations

Askerbeyli İ., VIII International Conference "MODERN PROBLEMS OF PHYSICS", Dushanbe, S.U.Umarov Physical– Technical Institute, October 21-22, 2022, Scientific Congress, Dushanbe, Tajikistan, Ekim 2022 Askerbeyli İ., International Conference On Quantum Materials And Technologies-ICQMT2022, Scientific Congress, Turkey, Ekim 2022 Askerbeyli İ., 5. International Conference on Theoretical and Applied Computer Science and Engineering 2022, Scientific Congress, Turkey, Ekim 2022

Askerbeyli İ., International Conference on Superconductivity and Magnetism, Scientific Congress, Turkey, Ekim 2021

Scientific Research / Working Group Memberships

Süperiletkenlik Araştırma , Ankara University, Türkiye, http://cesur.ankara.edu.tr/yonetim/mudur-yardimcilari/, 2010 - Continues

Metrics

Publication: 233 Citation (WoS): 822 Citation (Scopus): 876 H-Index (WoS): 16 H-Index (Scopus): 17

Congress and Symposium Activities

International Conference on Superconductivity and Magnetism, Session Moderator, Muğla, Turkey, 2023 International c. on Superconductivity and Magnetism, Invited Speaker, Muğla, Turkey, 2023 International Conference On Quantum Materials And Technologies-ICQMT2022, Invited Speaker, Manisa, Turkey, 2022

Scholarships

Physical properties of superconducting nonmagmetic borocarbides, NATO, 2004 - 2007 2221-Konuk veya Akademik İzinli (Sabbatical) Bilim İnsanı Destekleme Programı, TUBITAK, 2006 - 2006 KONUK BİLİM ADAMI DESTEKLEME PROGRAMI - NATO D, TUBITAK, 2002 - 2002 NATO postdoc, TUBITAK, 2000 - 2001 visiting grant, Other International Organizations, 2000 - 2000 Former Soviet Union, NATO, 2000 - 2000 postdoc, Other International Organizations, 2000 - 2000

Awards

Askerbeyli İ., Fen bilimleri alanı Üniversite üçüncülüğü, Ankara Üniversitesi, January 2024 Askerbeyli İ., Iman Novruz oglu Askerzade, Physics Uspekhi, March 2022 Askerbeyli İ., akademik başarı ödülü, Ankara Üniversitesi Mühendislik Bölümü, January 2020 Askerbeyli İ., associate membership, Ictp, July 2004

Visual Activities

Askerbeyli İ., Bakinskıy rabochiy, Newspaper Publishing, 2023 - 2023 Askerbeyli İ., Elme hesr olunmuş ömür, Journal Publishing, 2021 - 2021 Askerbeyli İ., Akademik Firudin Hashimzade, Journal Publishing, 2020 - 2020