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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, Kırgızistan-Rusya Slav Üniversitesi, Fizik, Kırgızistan 1995 - 1999
Lisans, Yusuf Balasagin Kirgiz Milli Üniversitesi, Uygulamalı Matematik, Kırgızistan 1990 - 1995

Yabancı Diller

İngilizce, B2 Orta Üstü
Rusça, C1 İleri

Yaptığı Tezler

Doktora, Mathematical modelling of interaction of electromagnetic fields with plasma in a spheri-cal microwave discharge, Kırgızistan-Rusya Slav Üniversitesi, Fizik, 1999

Araştırma Alanları

Temel Bilimler, Fizik, Gazlar, Plazmalar ve Elektriksel Boşalmalar Fiziği, Plazma fiziği

Akademik Unvanlar / Görevler

Prof. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2018 - Devam Ediyor
Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2010 - 2018
Yrd. Doç. Dr., Orta Doğu Teknik Üniversitesi, Fen Edebiyat Fakültesi, Fizik Bölümü, 2005 - 2009
Yrd. Doç. Dr., Çanakkale Onsekiz Mart Üniversitesi, Fen Ve Edebiyat Fakültesi, Matematik Bölümü, 2001 - 2002

Verdiği Dersler

METHODS OF MATHEMATICAL PHYSICS I, Yüksek Lisans, 2021 - 2022, 2020 - 2021, 2019 - 2020
MATHEMATICAL METHODS IN PHYSICS I, Lisans, 2021 - 2022, 2020 - 2021, 2018 - 2019
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COMPUTATIONAL METHODS IN PLASMA PHYSICS, Yüksek Lisans, 2020 - 2021, 2017 - 2018
Introduction to Plasma Physics, Lisans, 2020 - 2021
MATHEMATICAL METHODS IN PHYSICS II, Lisans, 2019 - 2020
BASIC LINEAR ALGEBRA, Lisans, 2018 - 2019, 2016 - 2017
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Yönetilen Tezler

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RAFATOV İ., Numerical investigation of self-organization and stable burning conditions of moderate pressure glow discharges in argon gas, Yüksek Lisans, E.EYLENCEOĞLU(Öğrenci), 2011
RAFATOV İ., Numerical investigation of a DC glow discharge in an argon gas: Two-component plasma model, Yüksek Lisans, E.KEMANECİ(Öğrenci), 2009

Jüri Üyelikleri

Doçentlik Sınavı, Doçentlik Sınavı, Orta Doğu Teknik Üniversitesi, Ekim, 2020

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

I. **Effect of the cathode surface temperature on the cathode fall layer parameters: experiment and simulation**
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II. **Analysis of different modeling approaches for simulation of glow discharge in helium at atmospheric pressure**
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III. **Self-consistent treatment of gas heating in modeling of a coaxial DBD in atmospheric pressure CO2**
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IV. **Parametric study of coaxial dielectric barrier discharge in atmospheric pressure argon**
Li H., Yuan C., Kudryavtsev A., Katircioglu T. Y., RAFATOV İ.
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VI. **Transition from periodic to chaotic oscillations in a planar gas discharge-semiconductor system**
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XIII. **Multiple stationary filamentary states in a planar dc-driven gas discharge-semiconductor system**
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XX. **Effect of focusing geometry on the continuous optical discharge properties**
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XXI. **Radiative gas-dynamic model of a continuous optical discharge in a gravitational field: quasi-optical approximation**
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XXV. **On modelling of microwave heating of a ceramic material**
KOZLOV P. V., Rafatov I. R., KULUMBAEV E. B., LELEVKIN V. M.
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XXVI. **On the modelling of a nonequilibrium spherical microwave discharge at atmospheric pressure**
Rafatov I. R.
CONTRIBUTIONS TO PLASMA PHYSICS, cilt.47, sa.3, ss.139-146, 2007 (SCI-Expanded)

XXVII. **Self-consistent model of thermal and ionization non-equilibrium spherical microwave discharge**
Rafatov I., LELEVKIN V.
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XXVIII. **Oscillations in dc driven barrier discharges: Numerical solutions, stability analysis, and phase diagram**
SIJACIC D., EBERT U., Rafatov I.
PHYSICAL REVIEW E, cilt.71, sa.6, 2005 (SCI-Expanded)

XXIX. **Modelling of a nonequilibrium spherical electric discharge under higher modes of incident microwaves**
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SIJACIC D., EBERT U., Rafatov I.
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Diğer Dergilerde Yayınlanan Makaleler

I. **Development and benchmark of a 1d3v electrostatic PIC/MCC numerical code for gas discharge simulations**
Arda I., Rafatov I.
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II. **One-dimensional fluid and hybrid numerical analysis of the plasma properties in the discharge channel of a Hall thruster**
YUNCULER C., RAFATOV İ., Ulusen D.
TURKISH JOURNAL OF PHYSICS, cilt.42, sa.6, ss.649-658, 2018 (ESCI)

III. **VALIDATION OF THE PARTICLE IN CELL MONTE CARLO COLLISION NUMERICAL CODE FOR THE RF DISCHARGE SIMULATION**
KUŞOĞLU SARIKAYA C., RAFATOV İ., ÇAKIR S.
Balkan Physics Letters, cilt.24, ss.36-47, 2016 (Hakemli Dergi)

IV. **Difference schemes for the class of singularly perturbed boundary value problems**
Sklyar S. N., RAFATOV İ.
Applied Numerical Analysis & Computational Mathematics, cilt.1, sa.1, ss.223-230, 2004 (Hakemli Dergi)

Kitap & Kitap Bölümleri

I. **Sayısal Yöntemler**
RAFATOV İ.
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II. **Introduction to Simulation Methods for Gas Discharge Plasmas**
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Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

I. **EFFECT OF THE CATHODE SURFACE TEMPERATURE ON THE CATHODE FALL LAYER PARAMETERS**
EYLENCEOĞLU E., Islamov G., RAFATOV İ.
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II. **EFFECT OF DIFFERENT MODELLING APPROACHES FOR SIMULATION OF ATMOSPHERIC PRESSURE GLOW DISCHARGES IN HELIUM**
EYLENCEOĞLU E., RAFATOV İ., Islamov G., YEŞİL C.
TURKISH PHYSICAL SOCIETY 39TH INTERNATIONAL PHYSICS CONGRESS, Muğla, Türkiye, 31 Ağustos 2023, cilt.1, ss.79

III. **Computational study of decomposition of carbon dioxide in a coaxial dielectric barrier discharge at atmospheric pressure**
RAFATOV İ.
Plazma fizik, Nanchang, Çin, 28 - 29 Ekim 2022

IV. **Parametric study of coaxial dielectric barrier discharge in atmospheric pressure argon: Experiment vs. numerical model**
RAFATOV İ.
The 7th Sino-Russia Workshop on Plasma Physics and Applications, Harbin, Çin, 30 Temmuz 2021

V. **Transition to Chaos in Planar Gas Discharge-Semiconductor System in Nitrogen: Effect of Fluid Modelling Approach**

YEŞİL C., RAFATOV İ.
Computational Science and Engineering Conference BEYOND 2019, Ankara, Türkiye, 2 - 11 Eylül 2019, ss.61

VI. **Plasma physics research at METU and other research institutions in Turkey**
RAFATOV İ.
Symposium on Plasma Physics and Fusion Energy, American University of Beirut, Beyrut, Lübnan, 07 Kasım 2017

VII. **Particle in Cell Monte Carlo Collision Analysis of the Problem of Identification of Impurities in Gas within the Plasma Electron Spectroscopy Method**
KUŞOĞLU SARIKAYA C., RAFATOV İ., Kudryavtsev A.
69th Annual Gaseous Electronics Conference, Bochum, Almanya, 10 - 14 Ekim 2016, cilt.61

VIII. **Incorporation of the electron energy equation into the hybrid Monte Carlo fluid model for glow discharge the applicability and reliability of the model**
EYLENCEOĞLU E., RAFATOV İ., Kudryavtsev A.
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IX. **ARC DISCHARGE SIMULATIONS FOR MAGNETOPLASMADYNAMIC THRUSTER WITH HOLLOW CATHODE**
Eliseev S., Saifutdinov A., Kudryavtsev A., ÇAKIR S., RAFATOV İ.
VIII International Conference on Plasma Physics and Plasma Technology (PPPT-8), Minsk, Belarus, 14 - 18 Eylül 2015

X. **NUMERICAL ANALYSIS OF FORMATION OF HEXAGONAL ANDBAND STRUCTURES IN THE GAS DISCHARGE SEMICONDUCTORSYSTEM**
RAFATOV İ.
VIII International Conference on Plasma Physics and Plasma Technology (PPPT-8), Minsk, Belarus, 14 - 18 Eylül 2015

XI. **Density Gradient Instability in Hall Thrusters**
ÇAKIR S., RAFATOV İ.
International Workshop "Nonlinear Photonics: Theory, Materials, Applications", Sankt-Peterburg, Rusya, 29 Haziran - 02 Temmuz 2015, ss.20

XII. **Study of Self organization and Current Filamentation in the Glow Gas Discharge System**
RAFATOV İ., ÇAKIR S.
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XIII. **VALIDATION AND PARALLELIZATION OF THE PARTICLE IN CELL/MONTE CARLO COLLISION NUMERICAL CODE FOR THE RF DISCHARGE SIMULATIONS**
SARIKAYA C. K., RAFATOV İ., ÇAKIR S.
IEEE International Conference on Plasma Sciences (ICOPS), Belek, Türkiye, 24 - 28 Mayıs 2015

XIV. **3D numerical model for a temporal and spatial pattern formation in a dc glow discharge semiconductor system**
RAFATOV İ.
The XXII Europhysics Conference on Atomic and Molecular Physics of Ionized Gases (ESCAMPIG, Greifswald, Almanya, 15 - 19 Temmuz 2014, ss.453-454

XV. **Three dimensional numerical modelling of structure formation in the plasma of a dc driven barrier discharge**
RAFATOV İ.
International Conference on Physics of Low Temperature Plasma, Kazan, Rusya, 20 - 23 Mayıs 2014

XVI. **Investigation of pattern formation in planar gas discharges**
UZUN KAYMAK İ. Ü., RAFATOV İ.
IMEPS International Middle East Conference on Plasma Science, Antalya, Türkiye, 23 - 25 Nisan 2014

XVII. **Fluid and hybrid numerical modeling of plasma properties in the discharge channel of a Hall thruster**
Yüncüler Ç., RAFATOV İ., Uluşen D.
The International Middle East Plasma Science (IMEPS), Antalya, Türkiye, 23 - 25 Nisan 2014

XVIII. **Validation of the Particle in Cell Monte Carlo Collision numerical code for the RF discharge simulations**
KUŞOĞLU SARIKAYA C., RAFATOV İ., ÇAKIR S.
The International Middle East Plasma Science (IMEPS), Antalya, Türkiye, 23 - 25 Nisan 2014

XIX. **Numerical study of nonlinear oscillations and pattern formation in glow discharge semiconductor system**
RAFATOV İ., UZUN KAYMAK İ. Ü., ÇAKIR S.
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XXIII. **Hybrid modelling of a dc glow discharge with account of nonlocal ionization by fast electrons**
RAFATOV İ., Bogdanov E., Kudryavtsev A.
VII International Conference Plasma Physics and Plasma Technology (PPPT-7), Minsk, Belarus, 17 - 21 Eylül 2012, cilt.1, ss.14-17

XXIV. **Fluid model of dc glow discharge with nonlocal ionization source term**
RAFATOV İ., BOGDANOV E. A., KUDRYAVTSEV A. A.
12th European Plasma Conference on High-Tech Plasma Processes (HTPP), Bologna, İtalya, 24 - 29 Haziran 2012, cilt.406

Desteklenen Projeler

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Bilimsel Dergilerdeki Faaliyetler

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ANADOLU UNIVERSITY JOURNAL OF SCIENCE AND TECHNOLOGY - A Applied Sciences and Engineering, Editörler Kurulu Üyesi, 2019 - Devam Ediyor

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TÜBİTAK Projesi, 3501 - Ulusal Genç Araştırmacı Kariyer Geliştirme Programı, Dicle Üniversitesi, Türkiye, Aralık 2021
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Yükseköğretim Kurumları Destekli Proje, BAP Araştırma Projesi, Orta Doğu Teknik Üniversitesi, Türkiye, Eylül 2021
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, Hakemli Bilimsel Dergi, Ağustos 2021
PHYSICA SCRIPTA, SCI Kapsamındaki Dergi, Ağustos 2021
PLASMA SOURCES SCIENCE AND TECHNOLOGY, SCI Kapsamındaki Dergi, Ağustos 2021
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JOURNAL OF PHYSICS D - APPLIED PHYSICS, SCI Kapsamındaki Dergi, Mart 2021
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PLASMA SCIENCE AND TECHNOLOGY, SCI Kapsamındaki Dergi, Ocak 2021

Metrikler

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H-İndeks (Scopus): 10

Akademi Dışı Deneyim

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