Prof. Hasan TATLIPINAR

Personal Information

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International Researcher IDs
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Education Information

Doctorate, Istanbul University, Faculty Of Science, Physics, Turkey 1990 - 1994
Postgraduate, Yildiz Technical University, Fizik, Turkey 1987 - 1989
Undergraduate, Istanbul Technical University, Fizik Mühendisliği, Turkey 1981 - 1986

Research Areas

Physics, Atomic and Molecular Physics, Atomic and Molecular Interactions, Natural Sciences

Courses

Postgraduate, 2023 - 2024
İleri İstatistik Fizik 1, Doctorate, 2018 - 2019
Fizik 2, Undergraduate, 2017 - 2018
Kuantum Fiziği 2, Undergraduate, 2017 - 2018
Çok Parçacıklı Sistemlere Giriş, Undergraduate, 2017 - 2018
İleri istatistik Fizik 2, Doctorate, 2017 - 2018
FIZIK 1, Undergraduate, 2017 - 2018

Advising Theses

Tatlıpınar H., Kuantum sıvıları ve tarihsel gelişimi, Postgraduate, S.AYDIN(Student), 2023
Tatlipinar H., POLY-N-İZOPROPİLAKRİLAMİD (PNIPAM)-SİSTEİN (CYS) YAPISININ MODELLENMESİ VE MOLEKÜLER DİNAMİK YÖNTEMİYLE İNCELENMESİ, Postgraduate, B.UZUN(Student), 2022
TATLIPINAR H., Yumuşak Maddelerde Elektrostatik Korelasyonların İncelenmesi, Postgraduate, E.Kıraç(Student), 2014
Tatlıpınar H., Doğrusal olmayan sistemler ve kararlılık analizi, Postgraduate, E.KAYGUSUZ(Student), 2014
TATLIPINAR H., SIVI SİSTEMLERİNİN YAPISAL ÖZELLİKLERİNİN MOLEKÜLER DİNAMİK YÖNTEMİ İLE İNCELENMESİ, Postgraduate, D.Koşucuoğlu(Student), 2013
Tatlıpınar H., Polimer/oligonükleotid komplekslerinin karakterizasyonu ve modellenmesi, Doctorate, E.DALGAKIRAN(Student), 2013
Tatlıpınar H., Bir yıldızın basıklığını kullanarak yıldıza ait fiziksel parametrelerin elde edilmesi, Postgraduate, M.BERRAK(Student), 2012
Tatlıpınar H., Lineer olmayan kuantum mekaniğinin temel ilkeleri, Postgraduate, D.BARDIZ(Student), 2012

TATLIPINAR H., Lineer olmayan kuantum mekaniğinin temel ilkeleri, Postgraduate, D.BARDIZ(Student), 2011
TATLIPINAR H., Bir yıldızın basıklığını kullanarak yıldıza ait fiziksel parametrelerin elde edilmesi, Postgraduate, M.Berrak(Student), 2011
TATLIPINAR H., İyonik sıvıların yapısal özellikleri ve endüstrideki bazı uygulamaları, Postgraduate, M.UYGUN(Student), 2007
TATLIPINAR H., Doğrusal Olmayan Bazı Sistemlerin İncelenmesi, Postgraduate, A.Çifçi(Student), 2004
TATLIPINAR H., Bose-Einstein Yoğunlaşması ve Bazı Uygulamaları, Postgraduate, S.Dündar(Student), 2002
TATLIPINAR H., Kısmen Sönümlü İyonik sıvıların Yapısı, Postgraduate, G.Özdemir(Student), 2000

Jury Memberships

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, June, 2019
Associate Professor Exam, Associate Professor Exam, Yıldız Teknik Üniversitesi, March, 2019
Doctorate, Doctorate, Yıldız Teknik Üniversitesi, June, 2018
Associate Professor Exam, Doçentlik sınavı, Yıldız Teknik Univ., October, 2017
Associate Professor Exam, Associate Professor Exam, Hacettepe Üniversitesi, September, 2017
Doctorate, Doctorate, Yıldız Teknik Üniversitesi, April, 2016
Doctorate, Doctorate, İstanbul Üniversitesi, October, 2015
Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, September, 2014
Associate Professor Exam, Associate Professor Exam, Orta Doğu Teknik Üniversitesi, April, 2014
Doctorate, Doctorate, İstanbul Üniversitesi, December, 2001

Designed Lessons

Tatlıpınar H., Çok Parçacıklı Sistemlere Giriş, Undergraduate, 2015 - 2016

Published journal articles indexed by SCI, SSCI, and AHCI

I. **A Computational Study on the LCST Phase Transition of a POEGMA Type Thermoresponsive Block Copolymer: Effect of Water Ordering and Individual Behavior of Blocks**
Dalgakiran E., Tatlıpınar H.
JOURNAL OF PHYSICAL CHEMISTRY B, vol.123, pp.1283-1293, 2019 (SCI-Expanded)

II. **The role of hydrophobic hydration in the LCST behaviour of POEGMA(300) by all-atom molecular dynamics simulations**
Dalgakiran E., Tatlıpınar H.
PHYSICAL CHEMISTRY CHEMICAL PHYSICS, vol.20, pp.15389-15399, 2018 (SCI-Expanded)

III. **Atomistic insights on the LCST behavior of PMEO(2)MA in water by molecular dynamics simulations**
Dalgakiran E., Tatlıpınar H.
JOURNAL OF POLYMER SCIENCE PART B-POLYMER PHYSICS, vol.56, pp.429-441, 2018 (SCI-Expanded)

IV. **Ionic charge transport in strongly structured molten salts**
Tatlipinar H., Amoruso M., Tosı M.
PHYSICA B, vol.275, pp.281-284, 2000 (SCI-Expanded)

V. **Probing structural holes in disordered ionic systems**
Pastore G., Tatlipinar H., Tosı M.
NUOVO CIMENTO DELLA SOCIETA ITALIANA DI FISICA D-CONDENSED MATTER ATOMIC MOLECULAR AND CHEMICAL PHYSICS FLUIDS PLASMAS BIOPHYSICS, vol.20, pp.1337-1344, 1998 (SCI-Expanded)

VI. **Local coordination and medium range order in molten trivalent metal chlorides: The role of screening by the chlorine component**

Pastore G., Tatlipinar H., Tosi M.
PHYSICS AND CHEMISTRY OF LIQUIDS, vol.31, pp.189-200, 1996 (SCI-Expanded)

VII. **Structure of partly quenched molten copper chloride**
Pastore G., Tatlipinar H., Tosi M.
PHYSICS AND CHEMISTRY OF LIQUIDS, vol.31, pp.89-96, 1996 (SCI-Expanded)

VIII. **STRUCTURE OF IONIC FLUIDS IN EQUILIBRIUM WITH A MICROPOROUS IONIC MATRIX**
Tatlıpınar H., Pastore G., Tosı M.
PHILOSOPHICAL MAGAZINE LETTERS, vol.68, pp.357-361, 1993 (SCI-Expanded)

IX. **ATOMIC SIZE EFFECTS ON LOCAL COORDINATION AND MEDIUM-RANGE ORDER IN MOLTEN TRIVALENT METAL CHLORIDES**
Tatlıpınar H., Akdenız Z., Pastore G., Tosı M.
JOURNAL OF PHYSICS-CONDENSED MATTER, vol.4, pp.8933-8944, 1992 (SCI-Expanded)

Articles Published in Other Journals

I. **Doğrusal Olmayan Dinamik Sistemlerin İncelenmesi ve Kompleksite Bilimi**
Tatlıpınar H.
Yildiz Social Science Review, vol.6, no.2, pp.77-91, 2020 (Peer-Reviewed Journal)

Books & Book Chapters

I. **Çok Parçacık Sistemlerinin Kuantum Mekaniğine Giriş**
Tatlipinar H.
Yıldız Teknik Üniversitesi Basım Yayın, İstanbul, 2018

Refereed Congress / Symposium Publications in Proceedings

I. **MOLECULAR DYNAMIC SIMULATIONS OF PNIPAM-CYSTEINE CONJUGATION IN AQUEOUS SOLUTION**
Tatlıpınar H.
Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.70

II. **FUNDAMENTAL PROPERTIES OF QUANTUM LIQUIDS ACCORDING TO LANDAU THEORY**
Tatlıpınar H.
Turkish Physical Society 37th International Physics Congres, Muğla, Turkey, 1 - 05 September 2021, pp.86

III. **BASIC CONCEPTS OF NONLINEAR DYNAMICAL SYSTEMS**
Tatlıpınar H.
Turkish Physical Society 37th International Physics Congress, Muğla, Turkey, 1 - 05 September 2021, pp.177

IV. **DOĞRUSAL OLMAYAN DİNAMİK SİSTEMLERİN İNCELENMESİ VE KOMPLEKSİTE BİLİMİ**
TATLIPINAR H.
Yıldız Teknik Üniversitesi İktisat Bölümü "Kompleksite Bilimi ve İktisat" Çalıştayı 1 ., 29 October 2020

V. **Structural Correlations in Partly Quenched Two and Three Component Ionic Systems and Detecting the Structural Holes**
Tatlıpınar H.
TURKISH PHYSICAL SOCIETY 35th INTERNATIONAL PHYSICS CONGRESS (TPS35), Muğla, Turkey, 04 September 2019, pp.241-243

VI. **Study of the thermoresponsive behaviour of poegma-based polymer systems in water by fully atomistic molecular dynamics simulation**
Tatlıpınar H.
26. İstatistiksel Fizik Günleri (İFG 26), İzmir, Turkey, 27 - 29 June 2019, pp.3-4

VII. **LCST MECHANISM OF POEGMA-BASED POLYMER SYSTEMS IN WATER: A MOLECULAR DYNAMICS STUDY**
Tatlıpınar H., Dalgakiran E.
Turkish Physical Society 34th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018

VIII. **Investigation of Open Marine Wind Energy Potential by Weibull Distribution and Implementation to Izmir and Antalya**
Karakaya D., Tatlıpınar H.
34th International Physics Congress of the Turkish-Physical-Society (TPS), Konacik, Turkey, 5 - 09 September 2018, vol.2042

IX. **PARTLY QUENCHED IONIC LIQUIDS AS A SIMPLE MODEL TO IONIC GLASSES.**
Tatlıpınar H.
2017 ICG Annual Meeting and Şişecam Glass Symposium, İstanbul, Turkey, 22 October 2017, pp.158

X. **Temperature behaviour of POEGMA type polymer systems by molecular dynamics in water**
TATLIPINAR H., Dalgakiran E.
Turkish Physical Society 33rd International Physics Congress, 6 - 10 September 2017

XI. **Temperature phase behaviour of PMEO2MA-b-POEGMA300 co-polymer in water by molecular dynamics**
TATLIPINAR H., Dalgakiran E.
10th Liquid Matter Conference 2017, 17 - 21 July 2017

XII. **Modeling of ionic liquids**
Tatlipinar H.
Turkish Physical Society 32nd International Physics Congress, TPS 2016, Konacik-Bodrum, Turkey, 6 - 09 September 2016, vol.1815

XIII. **Local structural properties of the partly quenched multi component ionic liquids**
UYGUN M., TATLIPINAR H.
6th International Conference of the Balkan-Physical-Union, İstanbul, Turkey, 22 - 26 August 2006, vol.899, pp.662

XIV. **Study of the partly quenched metal halides with integral equation theory**
TATLIPINAR H.
EUCHEM Conference on molten salts and ionic liquids, Hammamet, Tunisia, 16 September 2006, pp.143

XV. **Study of Bose Einstein Condensation in a Harmonic Oscillator Potential**
GÜNAY S. D., Tatlıpınar H.
Turkish Physical Society 22th Conference, Turkey, 14 - 17 September 2004

Supported Projects

Özçimen D., Bozkurt K., Özdemir O., Tatlıpınar H., TUBITAK Project, Küresel Isınma ve İklim Değişikliği Kapsamında Canlı Bilimleri ve Atmosfer Bilimleri Arasındaki İlişkinin Antarktika Özelinde Kurulması: Horseshoe Adası Bölgesindeki Atmosferik Koşullar ile Algler Gibi Çevre Koşullarına Duyarlı Mikroorganizmalar Arasındaki İlişkinin Analizi ve Modellenmesi, 2022 - 2024

Tatlıpınar H., TUBITAK Project, Sıcaklığa duyarlı oligo(etilen glikol) metil eter metakrilat (OEGMA) temelli polimerlerin moleküler dinamik yöntemi ile incelenmesi, 2015 - 2017

Memberships / Tasks in Scientific Organizations

Türk Fizik Derneği, Principal Member, 2000 - Continues

American Chemical Society (ACS), Member, 2019 - 2020, United States Of America

Scientific Refereeing

JOURNAL OF PHYSICAL CHEMISTRY, SCI Journal, April 2019
Turkish Journal of Physics, Other Indexed Journal, January 2018
Canadian Journal of Physics, SCI Journal, December 2017

Scientific Research / Working Group Memberships

Kuramsal Yoğun Madde Çalışma Grubu, Yildiz Technical University, Türkiye, https://avesis.yildiz.edu.tr/htatli, 2017 - Continues
Nonlinear Science Working Group, Yildiz Technical University, Türkiye, www.complexityscience.net, 2001 - Continues
Ulusal Sıvı Hal Sempozyumu , Yildiz Technical University, Türkiye, sivihal.pirireis.edu.tr, 1994 - Continues

Metrics

Publication: 26
Citation (WoS): 92
Citation (Scopus): 125
H-Index (WoS): 5
H-Index (Scopus): 6

Congress and Symposium Activities

26. İstatistik Fizik Günleri, Invited Speaker, İzmir, Turkey, 2019
22. SIVI HAL SEMPOZYUMU, Invited Speaker, İstanbul, Turkey, 2018
Turkish Physical Society 34rd International Physics Congress, Attendee, Muğla, Turkey, 2018
2017 ICG ANNUAL MEETING & 32nd ŞİŞECAM GLASS SYMPOSIUM, Attendee, İstanbul, Turkey, 2017
Turkish Physical Society 33rd International Physics Congress, Attendee, Muğla, Turkey, 2017
Liquid 2017 10th Liquid Matter Conference, Attendee, Ljubljana, Slovenia, 2017
Turkish Physical Society 32nd International Physics Congress, Attendee, Muğla, Turkey, 2016

Invited Talks

Doğrusal Olmayan Dinamik Sistemlerin Davranışının İncelenmesi , Workshop, Yıldız Teknik Üniversitesi, Turkey, October 2020
26. İstatistik Fizik Günleri, Conference, İzmir Yüksek Teknoloji Enstitüsü, Turkey, June 2019
22. Ulusal Sıvıhal Fiziği Sempozyumu/LOWER CRITICAL SOLUTION TEMPERATURE BEHAVIOUR OF PEGMA-BASED POLYMER SYSTEMS IN WATER BY MOLECULAR DYNAMICS, Seminar, Piri Reis Üniversitesi, Turkey, December 2018
20. Ulusal Sıvıhal fiziği sempozyumu/Türkiyede Sıvıhal Fiziği Çalışmalarının 25 Yılı, Conference, Piri Reis Üniversitesi, Turkey, December 2016
XVI. International Symposium on disordered systems and its applications/Correlation functions in non-crystalline structures., Workshop, İstanbul Üniversitesi, Turkey, May 2016
19. Ulusal sıvı hal sempozyumu/, İyonik sıvılar: Genel bakış, Seminar, Piri Reis Üniversitesi, Turkey, December 2015

Awards

Tatlıpınar H., Türk Fizik Derneği Onur Ödülü, Türk Fizik Derneği, September 2020
Tatlıpınar H., YTÜ Fen-Edebiyat Bölümü 2018 Yılı, Yayın 3.lük Ödülü, Yıldız Teknik Üniversitesi Rektörlüğü, January 2019

Non Academic Experience

International centre for theoretical physics(ICTP), Trieste-Italy