

Assoc. Prof. FATMA DİNÇ

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: AAR-2705-2020

ScopusID: 56957178300

Yoksis Researcher ID: 223986

Education Information

Doctorate, Marmara University, Institute For Graduate Studies In Pure And Applied Sciences, Fizik, Turkey 2005 - 2013

Postgraduate, Marmara University, Institute For Graduate Studies In Pure And Applied Sciences, Fizik, Turkey 1999 - 2002

Undergraduate, Marmara University, Ataturk Faculty Of Education, Fizik Öğretmenliği (İngilizce), Turkey 1993 - 1998

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Vocational Training, TÜBİTAK 2237-B Mühendislik ve Teknolojik Bilimlerde Proje Yazma Eğitimi, Karadeniz Teknik Üniversitesi, 2018

Dissertations

Doctorate, Simha-Somcynsky Kuramı Kullanılarak Polimerlerin Newtonyen ve Newtonyen Olmayan Viskoz Davranışının Serbest Hacim Cinsinden İncelenmesi, Marmara University, Fen Bilimleri Enstitüsü, Fizik, 2013

Postgraduate, Bazı Hidrokarbon Karışımlarının Viskoz Davranışının Denge ve Transport Kuramları ile İlişkilendirilmesi, Marmara University, Fen Bilimleri Enstitüsü, Fizik, 2002

Research Areas

Physics, Interdisciplinary Physics and Related Science and Technology Areas, General Physics, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Natural Sciences

Academic Titles / Tasks

Associate Professor, Karadeniz Technical University, Abdullah Kanca Meslek Yüksekokulu, Makine ve Metal Teknolojileri, 2023 - Continues

Assistant Professor, Karadeniz Technical University, Abdullah Kanca Meslek Yüksekokulu, Makine ve Metal Teknolojileri, 2018 - 2023

Assistant Professor, Karadeniz Technical University, Abdullah Kanca Meslek Yüksekokulu, Makine ve Metal Teknolojileri, 2014 - 2018

Courses

Mesleki Yabancı Dil-2, Associate Degree, 2023 - 2024

Mekanik Bilimler, Associate Degree, 2023 - 2024

Teknolojinin Bilimsel İlkeleri, Associate Degree, 2023 - 2024

Fizik, Associate Degree, 2023 - 2024

Mesleki Yabancı Dil-1, Associate Degree, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Dynamic Viscosity of Some Lubricants in Terms of Local Nano-Void Fraction**
Sahin-Dinc F.
ACTA PHYSICA POLONICA A, vol.144, no.3, pp.180-196, 2023 (SCI-Expanded)
- II. **Investigation of Dynamic Viscosity of Several Aliphatic and Aromatic Hydrocarbons in Connection with Thermo-Occupancy Function**
Sahin-Dinc F.
ACTA PHYSICA POLONICA A, vol.141, no.5, pp.535-547, 2022 (SCI-Expanded)
- III. **Free volume vacancy behaviour and dynamic viscosity of diesel fuels with additives at elevated temperature and pressure: thermo-occupancy function**
Sahin-Dinc F., Schaschke C., Yahsi U.
INTERNATIONAL JOURNAL OF OIL, GAS AND COAL TECHNOLOGY, vol.30, no.2, pp.209-228, 2022 (SCI-Expanded)
- IV. **Interrelationships of Pressure-Dependent Hole Fraction and Elongational Viscosity in Polymer Melts**
Sahin-Dinc F., YAHŞI U., Sedlacek T.
ADVANCES IN POLYMER TECHNOLOGY, 2019 (SCI-Expanded)
- V. **Hole Fraction Dependence on Linear Viscosity of PS, PP and ABS**
Sahin-Dinc F.
INTERNATIONAL POLYMER PROCESSING, vol.30, no.5, pp.585-592, 2015 (SCI-Expanded)
- VI. **The Effect of Hole Fraction on Viscosity in Atactic and Syndiotactic Polystyrenes**
Sahin-Dinc F., Sorrentino A., TAV C., YAHŞI U.
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.36, pp.3239-3254, 2015 (SCI-Expanded)
- VII. **On the Non-Newtonian Viscous Behavior of Polymer Melts in Terms of Temperature and Pressure-Dependent Hole Fraction**
Sahin-Dinc F., Sedlacek T., Tav C., Yahşi U.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.131, 2014 (SCI-Expanded)
- VIII. **Linking the viscous and vacancy behavior of mixtures of high-molecular-weight hydrocarbons**
Sahin F., Tav C., Yahsi U.
INTERNATIONAL JOURNAL OF THERMOPHYSICS, vol.27, no.5, pp.1501-1514, 2006 (SCI-Expanded)
- IX. **Linking the viscous and vacancy behavior of high molecular weight hydrocarbons**
Yahsi U., Sahin F.
RHEOLOGICA ACTA, vol.43, no.2, pp.159-167, 2004 (SCI-Expanded)

Articles Published in Other Journals

- I. **Comparison of the Rheological Behavior of Iso- and Syndiotactic Polypropylenes**
Sahin-Dinc F.
Karadeniz Fen Bilimleri Dergisi, vol.12, no.2, pp.1108-1121, 2022 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Dynamic Viscosity Modeling for Dialkyl Carbonates, Two Polyethers, and an Ester in Respect of Thermo-occupancy Function**
Sahin-Dinc F.
38th Turkish Physical Society International Physics Congress, Muğla, Turkey, 31 August - 04 September 2022, pp.153
- II. **Free Volume Effects on Dynamic Viscosity of Linear Perfluoropolyether Polymers**
Sahin-Dinc F.
8. Uluslararası Akademik Araştırmalar Kongresi, Elazığ, Turkey, 22 - 24 June 2022, pp.127-128
- III. **Tacticity and Structural Vacancy Effects on Rheological Behavior of Isotactic and Syndiotactic Polypropylenes**
Sahin-Dinc F.
8. Uluslararası Bilimsel Çalışmalar Kongresi, Elazığ, Turkey, 15 - 17 March 2022, pp.128-129
- IV. **Correlation and Prediction of Dynamic Viscosity of Pure Hydrocarbons over Large Temperature and Pressure Ranges**
Sahin-Dinc F., Yahşi U.
Turkish Physical Society, 35th International Physics Congress, Muğla, Turkey, 4 - 08 September 2019, pp.191
- V. **Investigation Of Dynamic Viscosity Of Diesel Fuels In Terms Of Temperature And Pressure Dependent Hole Fraction**
Sahin-Dinc F., Schaschke C., Yahşi U.
34th International Physics Congress, Muğla, Turkey, 5 - 09 September 2018, pp.285
- VI. **Infuence of Hole Fraction on Elongational Viscosity of Polymer Melts**
Sahin-Dinc F., Sedlacek T., Yahşi U.
33rd International Physics Congress, Muğla, Turkey, 6 - 10 September 2017, pp.313
- VII. **Effect of Tacticity on Viscosity-Hole Fraction Behavior of Atacticand Syndiotactic Polystyrenes**
Sahin-Dinc F., Sorrentino A., Tav C., Yahşi U.
XI Chemical Physics Congress, İstanbul, Turkey, 17 - 18 October 2014, vol.2, no.2, pp.12-14
- VIII. **A non-Newtonian Viscosity Model Associated With Pressure DependentHole Fraction**
Sahin-Dinc F., Tav C., Yahşi U., Sedlacek T.
30th International Physics Congress, İstanbul, Turkey, 2 - 05 September 2013, pp.187
- IX. **The Link of the Equilibrium and Transport Theories of High Molecular Weight Hydrocarbons**
Dinç F., Yahşi U.
6. National Liquid-State Physics Symposium, İstanbul, Turkey, 14 - 16 June 2002, pp.19

Other Publications

- I. **Effect of Tacticity on Viscosity-Hole Fraction Behavior of Atactic and Syndiotactic Polystyrenes**
DİNÇ F., Sorrentino A., Tav C., Yahsi U.
Presentation, pp.12-14, 2015

Scientific Refereeing

PHYSICS OF FLUIDS, Journal Indexed in SCI-E, February 2024
PHYSICS OF FLUIDS, Journal Indexed in SCI-E, January 2024
PHYSICS OF FLUIDS, Journal Indexed in SCI-E, December 2023
PHYSICS OF FLUIDS, Journal Indexed in SCI-E, November 2023
PHYSICS OF FLUIDS, SCI Journal, July 2022
PHYSICS OF FLUIDS, SCI Journal, June 2022
PHYSICS OF FLUIDS, SCI Journal, May 2022

Metrics

Publication: 20
Citation (WoS): 52
Citation (Scopus): 58
H-Index (WoS): 6
H-Index (Scopus): 6

Congress and Symposium Activities

38th Turkish Physical Society International Physics Congress, Attendee, Muğla, Turkey, 2022
Türk Fizik Derneği 35th International Physics Congress, Session Moderator, Muğla, Turkey, 2019
Türk Fizik Derneği 34th International Physics Congress, Session Moderator, Muğla, Turkey, 2018
INVESTIGATION OF DYNAMIC VISCOSITY OF DIESEL FUELS IN TERMS OF TEMPERATURE AND PRESSURE DEPENDENT HOLE FRACTION, Attendee, Muğla, Turkey, 2018
Influence of Hole Fraction on Elongational Viscosity of Polymer Melts, Attendee, Muğla, Turkey, 2017
Effect of Tacticity on Viscosity-Hole Fraction Behavior of Atactic and Syndiotactic Polystyrenes, Attendee, İstanbul, Turkey, 2014
A non-Newtonian Viscosity Model Associated With Pressure Dependent Hole Fraction, Attendee, İstanbul, Turkey, 2013
The Link of the Equilibrium and Transport Theories of High Molecular Weight Hydrocarbons, Attendee, İstanbul, Turkey, 2002

Awards

Dinç F., Teşekkür Belgesi, Karadeniz Teknik Üniversitesi, December 2022
Dinç F., Yahşi U., TÜBİTAK Uluslararası Bilimsel Yayınları Teşvik Programı, Tübitak, September 2019
Dinç F., Akademik Teşvik Programı, Üniversite, January 2015
DİNÇ F., Başarı Belgesi, Yomra Kaymakamlık, March 2012
Dinç F., TEŞEKKÜR BELGESİ, Milli Eğitim Bakanlığı, June 2010
Dinç F., Yahşi U., Takdir Belgesi, Marmara Üniversitesi, October 2006
DİNÇ F., Takdir Belgesi, Marmara Üniversitesi Fen Bilimleri Enstitüsü, October 2006
Dinç F., Okul Birinciliği, Akçaabat İmam-Hatip Lisesi, June 1993

Non Academic Experience

Other Public Institution, Milli Eğitim Bakanlığı, Orta Öğretim Kurumu