

## Assoc. Prof. FATMA DİNÇ

### Personal Information

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### International Researcher IDs

ScholarID: LD6PdKsAAAAJ

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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, 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, 2021 - 2022

Mekanik Bilimler, Associate Degree, 2021 - 2022

Mesleki Yabancı Dil-1, Associate Degree, 2021 - 2022

Teknolojinin Bilimsel İlkeleri, Associate Degree, 2021 - 2022

Fizik, Associate Degree, 2021 - 2022

## 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 Atactic and 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 Dependent Hole 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

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

## Non Academic Experience

Other Public Institution, Milli Eğitim Bakanlığı  
MİLLİ EĞİTİM BAKANLIĞI  
Özel Coşkun Lisesi