

## Assoc. Prof. Yakup Hundur

### Personal Information

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### Education Information

Doctorate, Ernst-Moritz-Armdt-Universitaet Greifswald, Germany 1997 - 2003

Post Graduate, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, Turkey 1993 - 1995

Under Graduate, Orta Doğu Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Turkey 1985 - 1992

### Foreign Languages

English, C2 Proficiency

German, C1 Advanced

### Dissertations

Doctorate, Moleküler Dinamik Simülasyon Yöntemini Kullanarak Titanyumun Isısal Genleşme Katsayısını ve Sıçrama Süreçlerini Araştırma, Ernst-Moritz-Armdt-Universitaet Greifswald, 2003

Post Graduate, He<sup>+</sup> İyonunun İnce Yapı Aralığında Kesişmeyen Sinyaller, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 1995

### Research Areas

Computer Sciences, Software, Soft Computing, Physics, Atomic and Molecular Physics, Atomic and Molecular Interactions, General Physics, Communication, Education, History and Philosophy, Nuclear physics, Nuclear Engineering and Nuclear Energy Studies, Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Associate Professor, İstanbul Teknik Üniversitesi, Fen Edebiyat Fakültesi / Fizik Mühendisliği, Fizik Mühendisliği, 2017 - Continues

Assistant Professor, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi / Fizik Mühendisliği, Fizik Mühendisliği Bölümü, 2009 - 2017

Lecturer PhD, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi / Fizik Mühendisliği, Fizik Mühendisliği Bölümü, 2005 - 2009

Research Assistant PhD, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi / Fizik Mühendisliği, Fizik Mühendisliği, 2003 - 2005

Research Assistant, Ernst-Moritz-Armdt-Universitaet Greifswald, Math.-Naturwiss. Fakultet / Institut Für Physik, Institut F. Physik, 1997 - 2003

Research Assistant, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Mühendisliği Bölümü, 1992 - 1997

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Numerical Analysis of Producing CNTs from Graphite by Thermal Processes**  
Hundur Y., WARRIER M., SCHNEIDER R.  
JOURNAL OF COMPUTATIONAL AND THEORETICAL NANOSCIENCE, vol.8, pp.2327-2330, 2011 (Journal Indexed in SCI)
- **Molecular dynamics of thermal vibration effects: Ar + Ni(100) collision system**  
Hundur Y., GUVENC Z. B. , HIPPLER R.  
COMMUNICATIONS IN NONLINEAR SCIENCE AND NUMERICAL SIMULATION, vol.15, pp.1103-1110, 2010 (Journal Indexed in SCI)
- **Dynamical analysis of sputtering at threshold energy range: Modelling of Ar+Ni(100) collision system**  
Hundur Y., GUVENC Z. B. , HIPPLER R.  
CHINESE PHYSICS LETTERS, vol.25, pp.730-733, 2008 (Journal Indexed in SCI)
- **Molecular dynamics study of a thermal expansion coefficient: Ti bulk with an elastic minimum image method**  
Hundur Y., HIPPLER R., GUVENC Z.  
CHINESE PHYSICS LETTERS, vol.23, pp.1068-1071, 2006 (Journal Indexed in SCI)
- **Sputtering yield and dynamical analysis of Ni(100) surface: A comparison of four different Ar-surface interaction potentials**  
GUVENC Z., HUNDUR Y., HIPPLER R.  
NUCLEAR INSTRUMENTS & METHODS IN PHYSICS RESEARCH SECTION B-BEAM INTERACTIONS WITH MATERIALS AND ATOMS, vol.164, pp.854-860, 2000 (Journal Indexed in SCI)

## Refereed Congress / Symposium Publications in Proceedings

- **Scalability of OpenFOAM for Simulations of a Novel Electromagnetic Stirrer for Steel Casting**  
Mazza I., Duran A., Hundur Y., Persi C., Santoro A., Tunçel M.  
The 2016 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'16), World Congress in Computer Science, Computer Engineering & Applied Computing, Las Vegas, United States Of America, 25 - 28 Temmuz 2016, pp.111-116
- **Thermal Effects on Nickel**  
Hundur Y., Danacı B.  
International Conference of Numerical Analysis and Applied Mathematics (ICNAAM), Kos, Greece, 19 - 25 Eylül 2012, vol.1479, pp.1814-1816

## Supported Projects

Hundur Y., Project Supported by Higher Education Institutions, High performance computing (HPC) simulation of liquid steel, 2016 - 2018

Hundur Y., Project Supported by Higher Education Institutions, Modelling Of Physical Problems-Kick Of Meeting, 2015 - 2018

Hundur Y., Project Supported by Higher Education Institutions, Thermal Effects on Nickel, 2012 - 2018

Hundur Y., Project Supported by Higher Education Institutions, ISIL İŞLEMLER YOLUYLA CNT ÜRETİM : SAYISAL ANALİZ, 2010 - 2018

Hundur Y., Project Supported by Higher Education Institutions, Ar+Ni (100) Çarpışma Sisteminde Titreşim Etkilerinin Moleküler Dinamik Yöntemiyle İncelenmesi, 2008 - 2018

Hundur Y., Project Supported by Higher Education Institutions, Farklı Moleküler Dinamik Simülasyon Teknikleri Kullanarak Isısal genleşme Katsayısını Elde Edilmesi, 2006 - 2008

## Citations

Total Citations (WOS):17

h-index (WOS):3

