



Hüseyin Oymak, PhD
Associate Professor of Physics

Atilim University
Department of Automotive Engineering
06830 İncek, Gölbaşı, Ankara/TURKEY
huseyin.oymak@atilim.edu.tr
Tel: +90 312 586 8777
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EDUCATION

2001-2004	Middle East Technical University, Turkey, Physics, PhD.
1999-2000	Middle East Technical University, Turkey, Physics, MS.
1994-1999	Middle East Technical University, Turkey, Physics, BS.
1994-1999	Middle East Technical University, Turkey, Physics Education, BS.

ACADEMIC POSITIONS

2019-present	Assosicate Professor, Department of Automotive Engineering, Atilim University, Turkey.
2011-2019	Assosicate Professor, Physics Group, Atilim University, Turkey.
2010-2010	Assistant Professor, Physics Group, Atilim University, Turkey.
2009-2010	Lecturer, Physics Group, Atilim University, Turkey.
2007-2008	Postdoctoral Researcher, Chungbuk National University, BK21 Frontier of Physics, Physics Research Division, Department of Physics, Cheongju, South Korea.
2006-2007	Postdoctoral Researcher, Seoul National University, BK21 Frontier of Physics, Physics Research Division, Department of Physics and Astronomy, Seoul, South Korea.
2005-2006	Postdoctoral Researcher, Seoul National University, Center for Theoretical Physics, School of Physics, Seoul, South Korea.
2004-2005	Postdoctoral Researcher, Seoul National University, BK21 Physics Research Division, School of Physics, Seoul, South Korea.
2001-2004	Research Assistant, Middle East Technical University, Physics Department, Turkey.
2000-2000	Georgia Institute of Technology, Physics Department, USA.
1999-2000	Research Assistant, Middle East Technical University, Physics Department, Turkey.

ADMINISTRATIVE DUTIES

2019-present	Vice Chair, Department of Automotive Engineering, Atilim University, Turkey.
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HONORS&AWARDS

1	Scholarship for postdoctoral researches, Oct. 2007 - Sept. 2008, by BK21 Frontier of Physics, Physics Research Division, Department of Physics, Chungbuk National University, Korea.
2	Scholarship for postdoctoral researches, Aug. 2006 - Jun. 2007, by BK21 Frontier of Physics, Physics Research Division, Department of Physics and Astronomy, Seoul National University, Korea.
3	Scholarship for postdoctoral researches, Dec. 2005 - Jul. 2006, by Center for Theoretical Physics, School of Physics, Seoul National University, Korea.
4	Scholarship for postdoctoral researches, Dec. 2004 - Oct. 2005, by BK21 Physics Research Division, School of Physics, Seoul National University, Korea.
5	Scholarship for the presentation of PhD work, Jun. 2004, Research Unit on Biomedical Informatics of IMIM/UPF, Barcelona, Spain.
6	Scholarship for the summer school "MSSC 2002 Ab Initio Modeling In Solid State Chemistry", Sept. 2002, Turine, Italy.

RESEARCH INTERESTS

1	Atomic and Molecular Physics
2	Quantum Transport
3	Computational Physics
4	Modeling of Dynamic Systems
5	Physics Education

THESES PREPARED

1	<i>Determination of Minimum Energy Configuration of N Equal Point Charges Placed on an Infinitely thin, Conducting Disk</i> , an PhD thesis in Physics, Supervised By Prof. Dr. S. Erkoc, June 2000.
2	<i>Theoretical Investigation of Al-Ti-Ni Ternary Clusters: Density Functional Theory Calculations and Molecular Dynamics Simulations</i> , a PhD thesis in Physics, supervised by Prof. Dr. S. Erkoc, June 2004.

THESES SUPERVISED

1	<i>Quantum Transport in One-Dimensional Systems</i> , an MS thesis by L. Algadi, June 2017.
2	<i>Distribution of Charges on a 1D Rod and 2D Plate-like Structures</i> , a PhD thesis by A. Alkuwafi, January 2019.

THESES CO-SUPERVISED

1	<i>Structural, Electronic, and Magnetic Properties of Sm-Co Microclusters: Density Functional Theory Calculations</i> , an MS thesis by Nazan Kara, 2013.
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JOURNAL PUBLICATIONS

1	H. Oymak and A. Alkuwafi, <i>Minimum-Energy Distribution of Point Charges Confined to a Square</i> , Int. J. Mod. Phys. C 30 , 1950036 (2019).
2	R. Pekoz, H. Oymak, and S. Erkoc, <i>Binary alloy clusters: structure and electronic properties</i> , Reviews in Theoretical Science, 2 301 (2014).
3	H. Oymak and S. Erkoc, <i>Group 12 elements and their small clusters: electric dipole polarizability of Zn, Cd, and Hg, Zn₂ dimer and higher Zn_n microclusters and neutral, cationic, and anionic zinc oxide molecules, ZnO, ZnO⁺, and ZnO⁻</i> , Int. J. Mod. Phys. B 26 , 1230003 (2012).
4	H. Oymak and S. Erkoc, <i>On the SmCo dimer: a detailed density functional theory analysis</i> , J. Phys. Chem. A 114 , 1897 (2010).
5	T. Fukuda, H. Oymak, and J. Hong, <i>Electron transport from a one-dimensional lead to a two-dimensional graphene sheet through a single site</i> , J. Phys.: Condens. Matter. 20 , 055207 (2008).
6	T. Fukuda, H. Oymak, and J. Hong, <i>Electron transport from a one- to a two-dimensional system: scanning tunneling microscopy of an adatom on a metal surface</i> , Phys. Rev. B 75 , 195428 (2007).
7	D. Shin, H. Oymak, and J. Hong, <i>Phonon photon assisted tunneling through an Aharonov Bohm ring</i> , J. Phys.: Condens. Matter. 19 , 226211 (2007).
8	H. Oymak, D. Shin, and J. Hong, <i>Time dependent phonon assisted tunneling through a single molecular device: Ricatti matrix approach</i> , Europhys. Lett., 77 , 37005 (2007).
9	Z. El-Bayyari, H. Oymak, and H. Kokten, <i>On the structural and energetic features of small metal clusters: Ni, Cu, Pd, Pt, and Pb</i> , Int. J. Mod. Phys. C 15 , 917 (2004).
10	H. Oymak and S. Erkoc, <i>Titanium coverage on a single wall carbon nanotube: molecular dynamics simulations</i> , Chem. Phys. 300 , 277 (2004).
11	H. Oymak and S. Erkoc, <i>Structural and energetic features of AlTiNi nanoparticles: Molecular dynamics simulations</i> , Model. Simul. Mater. Sci. Eng. 12 , 109 (2004).
12	S. Erkoc and H. Oymak, <i>AlTiNi ternary alloy clusters: molecular dynamics simulations and density functional theory calculations</i> , J. Phys. Chem. B 107 , 12118 (2003).
13	H. Oymak and S. Erkoc, <i>Structural and electronic properties of AlTiNi microclusters: density functional theory calculations</i> , Phys. Rev. A 66 , 33202 (2002).
14	S. Erkoc and H. Oymak, <i>Energetics and stability of discrete charge distribution on a conducting disk</i> , Phys. Lett. A 290 , 28 (2001).
15	H. Oymak and S. Erkoc, <i>Energetics and stability of discrete charge distribution on the surface of a sphere</i> , Int. J. Mod. Phys. C 12 , 293 (2001).
16	H. Oymak and S. Erkoc, <i>Distribution of point charges on a thin conducting disk</i> , Int. J. Mod. Phys. C 11 , 891 (2000).
17	S. Erkoc and H. Oymak, <i>Rules for the distribution of point charges on a conducting disk</i> , Phys. Rev. E 62 , 3075 (2000).

CONFERENCE PRESENTATIONS

1	H. Oymak, D. Shin, and J. Hong, <i>Resonant electron transport through an Aharonov Bohm pump coupled to optical phonons</i> , BPU6 - 6th International Conference, Balkan Physical Union, 22-26 Aug. 2006, Istanbul, Turkey. (Presentation).
2	D. Shin, H. Oymak, and J. Hong, <i>A systematic study of phonon-assisted resonant tunneling</i> , Turkish Physical Society, 23rd International Physics Congress, Mugla, Turkey, 13-16 September 2005. (Poster).
3	H. Oymak and S. Erkoc, <i>Titanium coverage on a single-wall carbon nanotube</i> , NATO-ASI, Nanoengineered Nanofibrous Materials, Antalya, Turkey, 1-12 September 2003. (Poster).

CITATIONS

Sum of times cited without self-citations (ISI Web of Science):	98
H-index (ISI Web of Science):	6

COURSES GIVEN AT ATILIM UNIVERSITY

1	PHYS 101 General Physics I - Mechanics
2	PHYS 102 General Physics II - Electromagnetics
3	ENE 303 Modeling and Analysis of Dynamic Systems
4	PHYS 501 Quantum Mechanics
5	PHYS 510 FORTRAN for Scientists and Engineers