

Asst. Prof. SEMRAN İPEK

Personal Information

Office Phone: [+90 216 280 3442](tel:+902162803442)

Email: semran.ipek@medeniyet.edu.tr

Web: <http://aves.medeniyet.edu.tr/semran.kusku/>

Address: İstanbulMedeniyet Üniversitesi Fen Fakültesi Fizik Mühendisliği Merdivenköy civarı, Göztepe İSTANBUL

Education Information

Doctorate, Gebze Yüksek Teknoloji Enstitüsü, Fen Fakültesi, Fizik, Turkey 2004 - 2011

Postgraduate, Gebze Yüksek Teknoloji Enstitüsü, Fen Fakültesi, Fizik, Turkey 2001 - 2004

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

IT, Linux Sistem yönetimi, The Institute of Linux, 2011

Dissertations

Doctorate, The Stability and Magnetic Properties of Transition Metal Doped Atomic Aggregates., Gebze Yüksek Teknoloji Enstitüsü, Fen Fakültesi, Fizik, 2011

Postgraduate, BaTiO₃ thin film synthesized using sol-gel method: Electrical and Structural characterization, Gebze Yüksek Teknoloji Enstitüsü, Fen Fakültesi, Fizik, 2004

Research Areas

Physics, Atomic and Molecular Physics, Atomic and Molecular Interactions, Interdisciplinary Physics and Related Science and Technology Areas, Materials Science, Condensed Matter 1: Structural, Mechanical and Thermal Properties, Equations of State, Phase Equilibria, and Phase Transitions, Surfaces, Interfaces, Thin Films and Nanosystems, Natural Sciences

Academic Titles / Tasks

Assistant Professor, İstanbul Medeniyet Üniversitesi, Engineering Physics, Engineering Physics, 2018 - Continues

Research Assistant, Gebze Yüksek Teknoloji Enstitüsü, Fen Fakültesi, Fizik, 2003 - 2011

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

- I. Antioxidant electrospun zein nanofibrous web encapsulating quercetin/cyclodextrin inclusion

complex

Aytac Z., İPEK S., DURGUN E., UYAR T.

JOURNAL OF MATERIALS SCIENCE, vol.53, no.2, pp.1527-1539, 2018 (Journal Indexed in SCI)

- II. **Antibacterial electrospun zein nanofibrous web encapsulating thymol/cyclodextrin-inclusion complex for food packaging**
Aytac Z., İPEK S., DURGUN E., TEKİNAY T., UYAR T.
FOOD CHEMISTRY, vol.233, pp.117-124, 2017 (Journal Indexed in SCI)
- III. **Selective and Efficient Removal of Volatile Organic Compounds by Channel-type Gamma-Cyclodextrin. Assembly through Inclusion Complexation**
Celebioglu A., İPEK S., DURGUN E., UYAR T.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.56, no.25, pp.7345-7354, 2017 (Journal Indexed in SCI)
- IV. **Tuning Electronic Properties of Monolayer Hexagonal Boron Phosphide with Group III-IV-V Dopants**
Onat B., Hallioglu L., Ipek S., DURGUN E.
JOURNAL OF PHYSICAL CHEMISTRY C, vol.121, no.8, pp.4583-4592, 2017 (Journal Indexed in SCI)
- V. **Encapsulation of gallic acid/cyclodextrin inclusion complex in electrospun polylactic acid nanofibers: Release behavior and antioxidant activity of gallic acid**
Aytac Z., Kuskü S., Durgun E., Uyar T.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.63, pp.231-239, 2016 (Journal Indexed in SCI)
- VI. **Structural lubricity under ambient conditions**
Cihan E., Ipek S., Durgun E., Baykara M. Z.
NATURE COMMUNICATIONS, vol.7, 2016 (Journal Indexed in SCI)
- VII. **Quercetin/beta-cyclodextrin inclusion complex embedded nanofibres: Slow release and high solubility**
Aytac Z., Kuskü S., Durgun E., Uyar T.
FOOD CHEMISTRY, vol.197, pp.864-871, 2016 (Journal Indexed in SCI)
- VIII. **Stability of GaxAsx +/- 4 gallium arsenide fullerenes**
Kuskü S., Berber S.
PHYSICAL REVIEW B, vol.79, no.24, 2009 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Protein engineering of FDHs for cofactor (NAD(P)H) recycling in reactions catalysed by oxidoreductases**
ÇELİK A., Ates S. C. , CAN H., Kuskü S., Erol I.
European Biotechnology Congress, Lecce, Italy, 15 - 18 May 2014, vol.185
- II. **Transition metal doped gallium arsenide fullerenes**
KÜSKÜ S.
NanoTr-5, Turkey, 01 June 2009, vol.1, pp.86
- III. **Gallium arsenide fullerenes encapsulated transition metal atom**
İPEK S.
Nanomats009, Turkey, 01 August 1999, pp.1

Supported Projects

İPEK S., Project Supported by Higher Education Institutions, Heusler|Yalıtkan Magneto Tünel Eklemlerin (MTJ) ara yüzeylerinde elektronik yapının elektrik alan ile değişiminin incelenmesi, 2012 - 2019

TÜRÜT A., BAŞARAN E., TÜRKAN M., KAVAS H., KURT H., DEMİR A., ŞENGEZ B., SAĞIR F., KOYTAK Z. N. , KECECI K., et al, Project Supported by Higher Education Institutions, Uluslararası Yarıiletken Bilimi ve Teknoloji Konferansı (International

Semiconductor Science and Technology Conference), 2013 - 2014

KURT H., BAŞARAN E., KÜSKÜ S. İ. , KAVAS H., TÜRÜT A., TÜRKAN M., Project Supported by Higher Education Institutions,
Bilgisayar Kontrollü Sıcaklığa Bağlı Elektronik ve Manyetoelektronik Ölçüm Sistemi, 2013 - 2014

Citations

Total Citations (WOS):290

h-index (WOS):7