

## Dr. Öğr. Üyesi TOLGA ATAY

### Kişisel Bilgiler

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### Eğitim Bilgileri

Post Doktora, Brown University, School Of Engineering, School Of Engineering, Amerika Birleşik Devletleri 2008 - 2009

Doktora, Brown University, Department Of Physics, Department Of Physics, Amerika Birleşik Devletleri 2000 - 2008

Lisans, Boğaziçi Üniversitesi, Fen-Edebiyat Fakültesi, Fizik Bölümü, Türkiye 1994 - 1999

### Yabancı Diller

İngilizce, C1 İleri

### Yaptığı Tezler

Doktora, NANOSCALE OPTICS BY LOCALIZED SURFACE PLASMON POLARITONS, Brown University, Department Of Physics, Department Of Physics, 2008

### Araştırma Alanları

Matematik, Bilgisayar Bilimleri, Temel Bilimler

### Akademik Unvanlar / Görevler

Yrd. Doç. Dr., Akdeniz Üniversitesi, Fen Fakültesi, Uzay Bilimleri ve Teknolojileri, 2011 - Devam Ediyor

### Akademik İdari Deneyim

Akdeniz Üniversitesi, Fen Fakültesi, 2014 - Devam Ediyor

### Verdiği Dersler

DİJİTAL ELEKTRONİK, Lisans, 2015 - 2016

BİLGİSAYAR PROGRAMLAMA II, Lisans, 2014 - 2015, 2013 - 2014, 2012 - 2013

NÜMERİK YÖNTEMLER, Lisans, 2014 - 2015, 2013 - 2014

UZAY BİLİMLERİNDE BİLGİSAYAR UYGULAMALARI, Yüksek Lisans, 2015 - 2016, 2014 - 2015

BİLGİSAYAR PROGRAMLAMA, Lisans, 2015 - 2016

BİLGİSAYAR DESTEKLİ TASARIM, Lisans, 2014 - 2015

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **Flare-production potential associated with different sunspot groups**  
EREN S., KILÇIK A., ATAY T., MITEVA R., Yurchyshyn V., Rozelot J. P., Ozguc A.  
MONTHLY NOTICES OF THE ROYAL ASTRONOMICAL SOCIETY, cilt.465, sa.1, ss.68-75, 2017 (SCI-Expanded)
- II. **Optical Detection of Brain Cell Activity Using Plasmonic Gold Nanoparticles**  
Zhang J., Atay T., Nurmikko A. V.  
NANO LETTERS, cilt.9, sa.2, ss.519-524, 2009 (SCI-Expanded)
- III. **Highly efficient resonant coupling of optical excitations in hybrid organic/inorganic semiconductor nanostructures**  
Zhang Q., Atay T., Tischler J. R., Bradley M. S., Bulovic V., Nurmikko A. V.  
NATURE NANOTECHNOLOGY, cilt.2, sa.9, ss.555-559, 2007 (SCI-Expanded)
- IV. **Solid state cavity QED: Strong coupling in organic thin films**  
Tischler J. R., Bradley M. S., Zhang Q., Atay T., Nurmikko A., Bulovic V.  
ORGANIC ELECTRONICS, cilt.8, sa.2-3, ss.94-113, 2007 (SCI-Expanded)
- V. **Large enhancement of fluorescence efficiency from CdSe/ZnS quantum dots induced by resonant coupling to spatially controlled surface plasmons**  
Song J., Atay T., Shi S., Urabe H., Nurmikko A.  
NANO LETTERS, cilt.5, sa.8, ss.1557-1561, 2005 (SCI-Expanded)
- VI. **Strongly interacting plasmon nanoparticle pairs: From dipole-dipole interaction to conductively coupled regime**  
Atay T., Song J., Nurmikko A.  
NANO LETTERS, cilt.4, sa.9, ss.1627-1631, 2004 (SCI-Expanded)

## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **A-Track: Ardışık Teleskop Görüntülerinden Hareketli Cisimlerin Otomatik Tespiti**  
Karapınar N., Atay T., KAPLAN M., Kılıç Y.  
20.Ulusal Astronomi Kongresi 2016, Erzurum, Türkiye, 5 - 09 Eylül 2016, ss.100
- II. **Detection of Neural Cell Activity Using Plasmonic Gold Nanoparticles**  
Zhang J., ATAY T., Nurmikko A.  
Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science Conference, San Jose, Amerika Birleşik Devletleri, 4 - 09 Mayıs 2008, ss.1903-1904
- III. **Increasing the Rabi Splitting of Exciton-Polaritons in J-Aggregate Microcavity Systems**  
Bradley M., Tischler J., Shirasaki Y., Zhang Q., ATAY T., Nurmikko A., Bulovic V.  
MRS Fall Meeting & Exhibit, Boston, Amerika Birleşik Devletleri, 26 - 30 Kasım 2007
- IV. **Highly Efficient Resonance Energy Transfer in Ultrathin Organic-Inorganic Semiconductor Hybrid Films**  
Zhang Q., ATAY T., Nurmikko A.  
Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science Conference, Baltimore, Amerika Birleşik Devletleri, 6 - 11 Mayıs 2007, ss.45-46
- V. **Study of phonon propagation in water using picosecond ultrasonics**  
Yang F., Atay T., Dang C. H., Grimsley T. J., Che S., Ma J., Zhang Q., Nurmikko A. V., Maris H. J.  
12th International Conference on Phonon Scattering in Condensed Matter (PHONONS 2004), Paris, Fransa, 15 - 20 Temmuz 2007, cilt.92
- VI. **Ultrafast Exciton Response of High Optical Density J-aggregates**  
ATAY T., Zhang Q., Nurmikko A., Tischler J., Bradley M., Bulovic V.

MRS Fall Meeting & Exhibit, Boston, Amerika Birleşik Devletleri, 27 Kasım - 01 Aralık 2006

- VII. **Energy Transfer between Semiconductor Colloidal Quantum Dots and J-aggregates of Cyanine Dye**  
Zhang Q., ATAY T., Urabe H., Nurmikko A., Tischler J., Bradley M., Bulovic V.

MRS Fall Meeting & Exhibit, Boston, Amerika Birleşik Devletleri, 27 Kasım - 01 Aralık 2006

- VIII. **Gallium Nitride - Organic Semiconductor Heterojunctions for Optoelectronic Devices**

Song Y., Kim H., ATAY T., Patterson W., Nurmikko A., Gherasimova M., Kim K., Han J.

Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science Conference, Long Beach, Amerika Birleşik Devletleri, 21 - 26 Mayıs 2006

- IX. **Ultrafast Exciton Response of High Optical Density J-aggregates from Ultrathin Films of Cyanine Dyes**  
ATAY T., Zhang Q., Nurmikko A., Tischler J., Bradley M., Bulovic V.

Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science Conference, Long Beach, Amerika Birleşik Devletleri, 21 - 26 Mayıs 2006

- X. **Large Enhancement of Fluorescence from CdSe/ZnS Quantum Dots induced by Resonant Coupling to Spatially Controlled Surface Plasmons**

Shi S., ATAY T., Urabe H., Song J., Nurmikko A.

Conference on Lasers and Electro-Optics/Quantum Electronics and Laser Science Conference, Baltimore, Amerika Birleşik Devletleri, 22 - 27 Mayıs 2005

- XI. **Strongly Interacting Plasmon Nanoparticles: From Dipole Interaction to Conductively Coupled Regime**

ATAY T., Song J., Nurmikko A.

Conference on Lasers and Electro-Optics and The International Quantum Electronics Conference, San Francisco, Amerika Birleşik Devletleri, 16 - 21 Mayıs 2004

- XII. **Photovoltaic energy converter as a chip-scale high efficiency power source for implanted active microelectronic devices**

Hwang N., Patterson W., Song Y., Atay T., Nurmikko A.

26th Annual International Conference of the IEEE-Engineering-in-Medicine-and-Biology-Society, San-Francisco, Kostarika, 1 - 05 Eylül 2004, cilt.26, ss.4091-4092

## Desteklenen Projeler

KAPLAN M., ATAY T., TÜBİTAK Projesi, Ardışık Teleskop Görüntülerindeki Hareketli Cisimlerin Doğru Tanıma Algoritması İle Otomatik Tespiti, 2015 - Devam Ediyor

## Metrikler

Yayın: 18

Atf (WoS): 1223

Atf (Scopus): 1250

H-İndeks (WoS): 6

H-İndeks (Scopus): 6