# Table of Contents

Preface ................................................................................................................... 1
Publications ........................................................................................................... 3
Presentations at conferences .............................................................................. 5
Guest visits ........................................................................................................... 6
Diploma thesis-dissertations ............................................................................. 6
Teaching ............................................................................................................... 8
Personnel ............................................................................................................ 10
Students ............................................................................................................. 11
Awards ................................................................................................................. 12
Activities in the University administration ......................................................... 13
Funding *(Budget)* ............................................................................................. 14
Announcement ................................................................................................... 16
Preface

Department of Photonics was established within the body of IZTECH Faculty of Science in 2015, UNESCO World Light Year. One of the main objectives of the Department of Photonics is to train individuals as qualified human resources for photonics industry, in addition to providing skillful researchers who could conduct scientific research. The department offers MSc, PhD and BSc degrees since 2017, 2018 and 2019, respectively. It currently has 5 faculty members, 7 research assistants, an administrative staff, 28 graduate and 78 undergraduate students.

This leaflet summarizes the activities and outcomes of our department in 2020 and addresses the details of our educational, academic and scientific achievements and administrative responsibilities.

This year we established our undergraduate laboratory that will serve undergraduate courses of PHOT 211, PHOT 212 and PHOT 321 with the project support funds of 2020IYTE-2-0003 and the private sector contributions. I’d like to take this opportunity to thank EAE Electric firm once again for their generous contributions.

The COVID-19 pandemic, which started early 2020, has changed our routine just like it did in all over the world. We continue our studies knowing the pandemic will eventually come to an end.

In 2021, I wish every member and colleague of IZTECH-Photonics a healthy, prosperous and enhanced collaboration with the Photonics sector.

İzmir, February 2021

Canan VARLIKLI, PhD
Chair
Publications


Presentations at conferences


Guest visits

Visits/Online Visits at other institutions

SİM Aydınlatma Sistemleri Elektronik Araştırma ve Geliştirme 07.04.2020
San. Tic. Lim. Şirketi

DYO Boya Fabrikaları San. Tic. A.Ş. 06.05.2020

Vestel Elektronik San ve Tic. A.Ş. 21.10.2020

Diploma thesis-dissertations

Thesis in preparation

PhD


Zeynep Kahraman; Optical and Electronic Investigation of Antimony-Based Lead-Free Perovskites via Theoretical and Experimental Methods, 2020 – Present.

Hakan Bozkurt; Investigation of VOLET Stability Induced by Dielectric and Semiconductor Materials Used in the Structure, 2020 – Present.

Hazan Özkan; Quantum Transport Regime in Quartic Materials, 2020 – Present.

Mehmet Kıvanç; Optical TIR and Lens Design and Simulation, 2019 – Present.

Nahit Polat; Light Matter Interaction in Microcavities, 2018 – Present.


Dilce İnanç; Epitaxial Graphene Field Effect Transistor for Biosensor Applications, 2018 – Present.

MSc


Mehmet Başkurt; Graphene-Like Materials for Optoelectronic Applications, 2020 – Present.

Ali Aslan Demir; Multiwavelength Phase Imaging in Digital Holographic Microscope, 2019 – Present.

Necip Ayhan Tertemiz; Flexible Transparent Conducting Electrodes Based on Silver Nanowires, 2018 – Present.


**Thesis completed**

**MSc**

Şahika Özgüler; Photophysical Characterization of Green and Blue Quantum Dots and Their Application in QD-LEDs, Supervisor: Prof. Dr. Canan Varlikli

Metin Tan; Plasmonic Enhancements of Perovskite Emitters, Supervisor: Assist. Prof. Dr. Emre Sari

Ozan Biyıklı; Manufacturing and Characterization of Perovskite Thin Films Using Novel Methods, Supervisor: Assist. Prof. Dr. Emre Sari

Ozan Yakar; Graphene Enabled Optoelectronic Devices, Supervisor: Assoc. Prof. Dr. Sinan Balci

Sercan Özen; Experimental and Theoretical Investigation of Functionalized Perovskites, Supervisor: Prof. Dr. Hasan Sahin

Hatice İlhan; A Comparative Study on the Photocatalytic Activity of Dye-Sensitized and Non-Sensitized Graphene Oxide-TiO2 Composites Under Simulated and Direct Sun Light, Supervisor: Prof. Dr. Canan Varlikli
# Teaching

## Graduate

### 2019-2020 Spring

<table>
<thead>
<tr>
<th>Course</th>
<th>Name of Lecturer</th>
<th>Credit/ECTS</th>
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<tbody>
<tr>
<td>PHOT 501 Seminar</td>
<td>Hasan Şahin</td>
<td>(0-2) NC / 8</td>
</tr>
<tr>
<td>PHOT 502 Fundamentals of Photonics I</td>
<td>Sinan Balci</td>
<td>(3-0) 3 / 9</td>
</tr>
<tr>
<td>PHOT 503 Fundamentals of Photonics II</td>
<td>Emre Sarı</td>
<td>(3-0) 3 / 9</td>
</tr>
<tr>
<td>PHOT 504 Quantum Photonics I</td>
<td>Sevilay Sevinçli</td>
<td>(3-0) 3 / 9</td>
</tr>
<tr>
<td>PHOT 505 Applied Photonics</td>
<td>Emre Sarı</td>
<td>(0-6) 3 / 7</td>
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<tr>
<td>PHOT 508 Mathematical Methods in Photonics</td>
<td>Hasan Şahin</td>
<td>(3-0) 3 / 7</td>
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<tr>
<td>PHOT 510 Ethical Issues in Research Methods</td>
<td>Sevilay Sevinçli</td>
<td>(0-2) NC / 7</td>
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<tr>
<td>PHOT 511 Photophysics</td>
<td>Canan Varlıklı</td>
<td>(3-0) 3 / 7</td>
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<tr>
<td>PHOT 513 Molecular Electronics and Devices</td>
<td>Canan Varlıklı</td>
<td>(3-0) 3 / 7</td>
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<tr>
<td>PHOT 518 Low-Dimensional Materials</td>
<td>Hasan Şahin</td>
<td>(3-0) 3 / 7</td>
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### 2020-2021 Fall

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<tr>
<td>PHOT 504 Quantum Photonics I</td>
<td>Sevilay Sevinçli</td>
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<td>PHOT 505 Applied Photonics</td>
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<td>PHOT 508 Mathematical Methods in Photonics</td>
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<td>(3-0) 3 / 7</td>
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<td>PHOT 511 Photophysics</td>
<td>Canan Varlıklı</td>
<td>(3-0) 3 / 7</td>
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<tr>
<td>PHOT 517 Organic Light Emitting Devices</td>
<td>Canan Varlıklı</td>
<td>(3-0) 3 / 7</td>
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<td>PHOT 518 Low-dimensional Materials</td>
<td>Hasan Şahin</td>
<td>(3-0) 3 / 7</td>
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<td>PHOT 521 Quantum Photonics II</td>
<td>Sevilay Sevinçli</td>
<td>(3-0) 3 / 7</td>
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<td>PHOT 522 Optical Spectroscopy</td>
<td>Sinan Balci</td>
<td>(3-0) 3 / 7</td>
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<tr>
<td>PHOT 541 Lasers</td>
<td>Emre Sarı</td>
<td>(3-0) 3 / 7</td>
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## Undergraduate

### 2019-2020 Spring

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<tbody>
<tr>
<td>PHOT 110 Introduction to Programming</td>
<td>Sevilay Sevinçli</td>
<td>(2-2) 3 / 6</td>
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<tr>
<td>PHYS 102 General Physics II</td>
<td>Gürcan Aral</td>
<td>(2-2) 3 / 6</td>
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<tr>
<td>PHYS 112 General Physics Laboratory II</td>
<td>Gürcan Aral</td>
<td>(0-2) 1 / 2</td>
</tr>
<tr>
<td>CHEM 122 General Chemistry II</td>
<td>Serdar Özcetik</td>
<td>(3-0) 3 / 5</td>
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<td>CHEM 142 General Chemistry Lab. II</td>
<td>Serdar Özcetik</td>
<td>(0-2) 1 / 2</td>
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<td>MATH 142 Basic Calculus II</td>
<td>Fatih Erman</td>
<td>(3-2) 4 / 5</td>
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<tr>
<td>ENG 102 Development of Reading and Writing Skills I</td>
<td>Şeval Şentürk &amp; Ceren</td>
<td>(3-0) 3 / 3</td>
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<td>PHOT 100 Introduction to Photonics</td>
<td>Emre Sarı</td>
<td>(3-0) 3 / 7</td>
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<tr>
<td>PHYS 101 General Physics I</td>
<td>Gürcan Aral</td>
<td>(2-2) 3 / 6</td>
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<tr>
<td>PHYS 111 General Physics Laboratory I</td>
<td>Gürcan Aral</td>
<td>(0-2) 1 / 2</td>
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<tr>
<td>CHEM 121 General Chemistry I</td>
<td>Hürriyet Polat</td>
<td>(3-0) 3 / 5</td>
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<tr>
<td>CHEM 141 General Chemistry Lab. I</td>
<td>Hürriyet Polat</td>
<td>(0-2) 1 / 2</td>
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<tr>
<td>MATH 141 Basic Calculus I</td>
<td>Ismail Aslan</td>
<td>(3-2) 4 / 5</td>
</tr>
<tr>
<td>ENG 101 Development of Reading and Writing Skills I</td>
<td>Oya Özay</td>
<td>(3-0) 3 / 3</td>
</tr>
<tr>
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<td>Credit/ECTS</td>
</tr>
<tr>
<td>---------------------------------------------</td>
<td>------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>PHOT 201 Fundamentals of Optics &amp; Photonics</td>
<td>Sinan Balci</td>
<td>(4-0) 4 / 7</td>
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<tr>
<td>PHOT 211 Fundamentals of Optics &amp; Photonics Lab. L</td>
<td>Sinan Balci</td>
<td>(0-4) 2 / 6</td>
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<tr>
<td>PHOT 231 Mathematical Methods in Photonics</td>
<td>Hasan Şahin</td>
<td>(3-0) 3 / 7</td>
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### Seminars

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<thead>
<tr>
<th>Date</th>
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<tbody>
<tr>
<td>11.12.2020</td>
<td>Dr. Hasan Göktaş</td>
<td>Building State-of-The-Art CMOS Compatible Sensors and Devices</td>
</tr>
<tr>
<td>11.12.2020</td>
<td>Dr. Mehmet Yağmucukardeş</td>
<td>Vibrational Properties of Materials Through The Raman Spectra At Atomic Scale</td>
</tr>
<tr>
<td>01.12.2020</td>
<td>Dr. Erhan Sağlamyürek</td>
<td>Engineering light-matter interfaces for quantum networks</td>
</tr>
<tr>
<td>23.10.2020</td>
<td>Dr. Mustafa Balci</td>
<td>Solution Based Synthesis of Si Quantum Dots and Down-Shifting Layers</td>
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<tr>
<td>21.10.2020</td>
<td>Dr. Mustafa Kemal Ruhi</td>
<td>Targeted photodynamic therapy to overcome chemoresistance in ovarian cancer</td>
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<tr>
<td>27.05.2020</td>
<td>Dr. Mehdi Saedi</td>
<td>Nanostructure formation using electrochemical methods</td>
</tr>
<tr>
<td>02.01.2020</td>
<td>Dr. Hasan Yılmaz</td>
<td>Coherent Control of Light Transport Through Complex Photonic Systems</td>
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## Personnel

### Staff

#### University paid personnel (Full time)

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<th>Name - Surname</th>
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<tbody>
<tr>
<td>Ahmed AYDIN</td>
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<tr>
<td>Ali Aslan DEMİR</td>
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<tr>
<td>Canan VARLIKLI</td>
<td>12</td>
</tr>
<tr>
<td>Emre SARI</td>
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</tr>
<tr>
<td>Hakan BOZKURT</td>
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</tr>
<tr>
<td>Hasan ŞAHİN</td>
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<tr>
<td>Hazan ÖZKAN</td>
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<td>Metin TAN</td>
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<tr>
<td>Ozan YAKAR</td>
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<tr>
<td>Sercan ÖZEN</td>
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<tr>
<td>Sevilay SEVİNÇLİ</td>
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<tr>
<td>Sinan BALCI</td>
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#### Externally Funded Personnel

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<tr>
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<tbody>
<tr>
<td>Alper YANILMAZ</td>
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<tr>
<td>Cansu AKYOL</td>
<td>YÖK 100/2000</td>
<td>8</td>
</tr>
<tr>
<td>Dilce İNANÇ</td>
<td>YÖK 100/2000</td>
<td>12</td>
</tr>
<tr>
<td>Nahit POLAT</td>
<td>YÖK 100/2000</td>
<td>12</td>
</tr>
<tr>
<td>Hatice ILHAN</td>
<td>YÖK 100/2000</td>
<td>8</td>
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<tr>
<td>Halide DİKER</td>
<td>115F616/ TÜBİTAK 1003</td>
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<tr>
<td>Seçil Sevim ÜNLÜTÜRK</td>
<td>115F616/ TÜBİTAK 1003</td>
<td>7</td>
</tr>
<tr>
<td>Şahika ÖZGÜRER</td>
<td>115F616/ TÜBİTAK 1003</td>
<td>7</td>
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<tr>
<td>Yigil SÖZEN</td>
<td>117F095/ TÜBİTAK 1001</td>
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<tr>
<td>Mehmet BAŞKURT</td>
<td>117F095/ TÜBİTAK 1001</td>
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<tr>
<td>Fadime Mert BALCI</td>
<td>118F523/ TÜBİTAK 1001</td>
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<tr>
<td>Sema SARISÖZEN</td>
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<td>Volkan BOZKUŞ</td>
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<td>Erkan AKSOY</td>
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<td><strong>Total</strong></td>
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# Students

**Registered Students to Photonics Science and Engineering Graduate Program**

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<td>Cansu AKYOL</td>
<td>Metin TAN</td>
<td>Yağız OYUN</td>
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<tr>
<td>Dilce İnanç ÖZKENDİR</td>
<td>Nahit Polat</td>
<td>Zeynep KAHRAMAN</td>
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<tr>
<td>Gülcan SÖM</td>
<td>Hakan BOZKURT</td>
<td>Hatice İLHAN</td>
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<tr>
<td>Hazan ÖZKAN</td>
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<table>
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<tr>
<th>MSc</th>
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<td>Ahmed AYDIN</td>
<td>Nazlı ÖZTOPRAK</td>
<td>Şahika ÖZGÜLER</td>
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<tr>
<td>Ali Aslan DEMİR</td>
<td>Necip Ayhan TERTEMİZ</td>
<td>Ümit PURÇAK</td>
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<tr>
<td>Ayşe Gül YİĞİT</td>
<td>Süleyman Emre KONAN</td>
<td>Volkan BOZKUŞ</td>
</tr>
<tr>
<td>Elif YALÇIN</td>
<td>Enes BURSA</td>
<td>Yigit SÖZEN</td>
</tr>
<tr>
<td>Eray CEYHAN</td>
<td>Mehmet BAŞKURT</td>
<td>Emre ÇOLAK</td>
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**Registered Students to Photonics Undergraduate Program**

**BSc**

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<td>Efsa KARAKURT</td>
<td>Ömer SAĞLAM</td>
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<td>Rüya SANVER</td>
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<tr>
<td>Alperen BEKLEN</td>
<td>Eylül ERSÖZ</td>
<td>Sezer KABADAYI</td>
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<td>Görkem ÖMERCA</td>
<td>Solmaz BAYRAKTAR</td>
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<td>Bedirhan ÖZDEMİR</td>
<td>Görkem YALÇIN</td>
<td>Umut GÜNDÜZ</td>
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<tr>
<td>Bensu DERELİ</td>
<td>Hasan ALTUNKALEM</td>
<td>Umut YÜCEL</td>
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<td>Berk İNCEKARA</td>
<td>Ilgın YAĞCI</td>
<td>Ulviye AĞGÜL</td>
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<td>Cem DEMİR</td>
<td>İlayda ÇİÇEK</td>
<td>Yağmur ARSLAN</td>
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<td>Zahit KARATAŞ</td>
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<td>Zeynep EMER</td>
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<td>Ömer SARI</td>
<td>Zeynep SAATCI</td>
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<td>Öykü ŞENSU</td>
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<td>Elifşan HAZAR</td>
<td>Rabia BILGIN</td>
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<td>Seha KIRÇA</td>
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<td>Erol BOZTEPE</td>
<td>Serdar OLMEZ</td>
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<td>Barış ALTUNTAŞ</td>
<td>Furkan ALTUNTAŞ</td>
<td>Muhammet ÖZKAYA</td>
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<td>Sıraç YONEY</td>
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<td>Utku İLBELI</td>
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<td>Yusuf SOYLU</td>
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<tr>
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<td>Mehmet Barış ELMACI</td>
<td>Zeynep KURU</td>
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<td>Efe YILDIRIZ</td>
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**Awards**

Canan Varlıklı and Erkan Aksoy awarded third prize in Paints and Adhesives category of 9th Chemicals and Products Sector R&D Market Event organized by Istanbul Chemicals and Products Exporters’ Association with the project title of “Organic Semiconductor Based Light Absorber, Emitter and Frequency Down Converter Materials for Photonic Technologies”.
## Activities in the University administration

| **Canan Varlıklı** | Chair of Department of Photonics  
| | Chair of Photonics Science and Engineering Graduate Program  
| | Executive Board Member of Children's Education Application and Research Centre  
| | Member of Committee of Education  
| | Executive Board Member of Unit for Research and Best Practices in Learning and Teaching  
| | Executive Board Member of The Graduate School of Eng. & Sci.  
| | Executive Board Member of Environmental Development, Application and Research Center  
| | Member of Disability Support Office  
| | Faculty Board Member of Science Faculty  
| | Executive Board Member of University  |

| **Hasan Şahin** | Vice Dean of Science Faculty  
| | Director of ICTP-ECAR  
| | Executive Board Member of Eurasian Center of Advanced Research  
| | Executive Board Member of Material Research Center  
| | Executive Board Member of Integrated Research Centers  
| | Member of University Ranking Commission  
| | Member of Internationalization Committee  |

| **Sinan Balcı** | Executive Board Member of Science Faculty  
| | Executive Board Member of Material Research Center  |

| **Sevilay Sevinçli** | Member of Science Faculty Institutive Accreditation Unit  |

| **Emre Sarı** | Vice Chair of Department of Photonics  
| | Erasmus Coordinator of Department of Photonics  
| | Executive Board Member of National Mass Spectroscopy Application and Research Centre  
| | Faculty Board Member of Science Faculty  |
## Funding (Budget)

### University funding

#### Ordinary allocation (2020)

<table>
<thead>
<tr>
<th>Description</th>
<th>Budget (TL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate infrastructure (2020IYTE-2-0003)</td>
<td>150,000</td>
</tr>
<tr>
<td>Total</td>
<td>150,000 TL</td>
</tr>
</tbody>
</table>

### Project funds (university)

<table>
<thead>
<tr>
<th>Name</th>
<th>Budget (TL)</th>
<th>Start-Finish Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Photophysical characterization of red, blue and green emitting quantum dots and their application in QD-LEDs, 2019IYTE0186</td>
<td>2,500</td>
<td>2019-2020</td>
</tr>
<tr>
<td>Plasmonic enhancement of the emission intensity of perovskite nanowires, 2019IYTE0193</td>
<td>5,000</td>
<td>2019-2020</td>
</tr>
<tr>
<td>Plasmonic cavities, 2019IYTE0222</td>
<td>8,000</td>
<td>2019-2020</td>
</tr>
<tr>
<td>Functionalization Dependent Mechanical Properties of Transition Metal Dichalcogenides, 2019IYTE0239</td>
<td>10,000</td>
<td>2020-2021</td>
</tr>
<tr>
<td>Synthesis and Characterization of Lead-Free Perovskite Materials, 2020IYTE0110</td>
<td>10,000</td>
<td>2020-2021</td>
</tr>
<tr>
<td>Colloid Plexcitonic Nanoparticles 2020IYTE0045</td>
<td>10,000</td>
<td>2020-2021</td>
</tr>
<tr>
<td>Fabrication of perovskite solar cell active layers by ultrasonic spray coating method 2020IYTE0104</td>
<td>5,000</td>
<td>2020-2021</td>
</tr>
</tbody>
</table>

### Project funds (extraneous)

<table>
<thead>
<tr>
<th>Name</th>
<th>Budget (TL)</th>
<th>Start-Finish Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quantum Technologies with Ultra-Cold Atoms COST Action CA16221</td>
<td>555,000</td>
<td>2018-2020</td>
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<tr>
<td>Electrically Switchable Two-Dimensional Hybrid Optoelectronic Devices, 117F172-TUBITAK</td>
<td>199,300</td>
<td>2018-2021</td>
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<tr>
<td>Three-photon Electromagnetically Induced Transparency, Absorption (EIT/EIA) with Rydberg Atoms, 17F372-TUBITAK</td>
<td>439,950</td>
<td>2018-2020</td>
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<tr>
<td>Strong light matter interaction in microcavities, 118F066-TUBITAK</td>
<td>374,750</td>
<td>2019-2021</td>
</tr>
<tr>
<td>Strong coupling of surface plasmon polaritons of metals and excitons of inorganic perovskites, 119F095-TUBITAK</td>
<td>738,300</td>
<td>2019-2022</td>
</tr>
<tr>
<td>Synthesis of Acetyl Bridged Perylenediimides and Perylene tetraesters and their Utilization in White Light Emitting Diodes, 119F031-TUBITAK</td>
<td>478,000</td>
<td>2020-2021</td>
</tr>
<tr>
<td>Graphene Plasmons in Visible-118F523-TUBITAK</td>
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<td></td>
</tr>
</tbody>
</table>
Summary Charts (over the years)
Announcement

Seeking applicants for faculty positions

We are seeking for colleagues at the assistant professor level. The candidates who have a postdoctoral experience, a solid experimental research background and experienced in university-industry joint projects, in especially one of the first two main research areas of the department listed below, will be given precedence,

✓ Laser engineering and photonic integrated circuits.
✓ Biophotonics and mediphotonics
✓ Molecular photonics and photonic devices
✓ Quantum photonics and optical spectroscopy

The application package should include a Curriculum Vitae, research and teaching statements that contain future research interests and possible collaborations within faculty. The names and contact details of two referees should be sent via e-mail. The shortlisted candidates will be requested to visit IYTE campus. During their visit at IYTE campus, the candidates will be called upon to lead a seminar during an allocated time.

The recruitment starts now until the positions are filled.

Contact:

fotonik at iyte.edu.tr
cananvarlikli at iyte.edu.tr