

## Asst. Prof. Onurcan ŞAHİN

### Personal Information

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### International Researcher IDs

ScholarID: MZUeS6cAAAAJ

ORCID: 0000-0001-9107-3448

Publons / Web Of Science ResearcherID: A-7811-2019

ScopusID: 56985455200

Yoksis Researcher ID: 365147

### Education Information

Doctorate, University of Crete, School of Medicine, Institute of Vision and Optics, Greece 2012 - 2018

Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Sistem Dinamiği ve Kontrol, Turkey 2008 - 2011

Undergraduate, Istanbul Technical University, Fen-Edebiyat, Fizik Mühendisliği, Turkey 2004 - 2008

### Foreign Languages

English, C2 Mastery

### Research Areas

Surgery Medicine Sciences, Computer Vision, Biomedical Engineering, Biomedical Image Processing, Clinical Robots, Mechanical Engineering, Optics

### Academic Titles / Tasks

Assistant Professor, Yildiz Technical University, Faculty Of Mechanical Engineering, Department Of Mechatronics Engineering, 2022 - Continues

### Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, 2023 - 2026

### Published journal articles indexed by SCI, SSCI, and AHCI

1. Visual, refractive and topographic outcomes of progressive thickness intrastromal corneal ring segments for keratoconic eyes

Coskunseven E, Ambrosio R, Smoradkova A, Sanchez Leon F, Sahin O, Kavadarli I, Jankov M. R.  
INTERNATIONAL OPHTHALMOLOGY, vol.40, no.11, pp.2835-2844, 2020 (SCI-Expanded)

- II. **The effects of implantable collamer lens implantation on higher order aberrations**  
Kayhan B, Coskunseven E, Sahin O, Pallikaris I.  
INTERNATIONAL JOURNAL OF OPHTHALMOLOGY, vol.12, no.12, pp.1848-1852, 2019 (SCI-Expanded)
- III. **Four-Stage Procedure for Keratoconus: ICRS Implantation, Corneal Cross-linking, Toric Phakic Intraocular Lens Implantation, and Topography-Guided Photorefractive Keratectomy**  
Coskunseven E, Sharma D. P., Grentzelos M. A., Sahin O, Kymionis G. D., Pallikaris I.  
JOURNAL OF REFRACTIVE SURGERY, vol.33, no.10, pp.683-690, 2017 (SCI-Expanded)
- IV. **Refractive outcomes of 20 eyes undergoing ICL implantation for correction of hyperopic astigmatism**  
Coskunseven E, Kavadarli I, ŞAHİN O, Kayhan B, Pallikaris I.  
Journal of Refractive Surgery, vol.33, no.9, pp.604-609, 2017 (SCI-Expanded)
- V. **Corneal Cross-Linking Combined Treatment Options**  
Coskunseven E, Sahin O.  
CORNEAL CROSS-LINKING, SECOND EDITION, pp.203-206, 2017 (SCI-Expanded)
- VI. **Optical Measurement of Straylight in Eyes With Cataract**  
Sahin O, Pennos A, Ginis H, Hervella L, Villegas E. A., Canizares B, Maria Marin J, Pallikaris I, Artal P.  
JOURNAL OF REFRACTIVE SURGERY, vol.32, no.12, pp.846-850, 2016 (SCI-Expanded)
- VII. **Design and control of a visual servomechanism for automating corneal cross-linking treatment in keratoconus patients**  
Sahin O, Altuğ E.  
TURKISH JOURNAL OF ELECTRICAL ENGINEERING AND COMPUTER SCIENCES, vol.23, no.2, pp.602-614, 2015 (SCI-Expanded)
- VIII. **Compact optical integration instrument to measure intraocular straylight**  
Ginis H, Sahin O, Pennos A, Artal P.  
BIOMEDICAL OPTICS EXPRESS, vol.5, no.9, pp.3036-3041, 2014 (SCI-Expanded)

## Books

- I. **Why femtosecond laser for intercorneal rings**  
Şahin O, Pallikaris I.  
in: Femtosecond Laser Surgery in Ophthalmology, Burkhard Dick, Ronald D. Gerste, Tim Schultz, Editor, Thieme, New York, pp.1-2, 2018
- II. **Femtosecond LASIK**  
Şahin O, Coskunseven E, Pallikaris I.  
in: Femtosecond Laser Surgery in Ophthalmology, Burkhard Dick, Ronald D. Gerste, Tim Schultz, Editor, Thieme, New York, pp.1-2, 2018
- III. **Combined Treatment Options** Slack  
Şahin O, Coskunseven E.  
in: Corneal cross-linking 2nd edition, Farhad Hafezi, MD; J. Bradley Randleman, MD, Editor, SLACK Incorporated, New Jersey, pp.2-3, 2017

## Papers Published in Refereed Scientific Meetings

- I. **Corneal Suture Robot for Keratoplasty Operations**  
KÖSE T, ŞAHİN O, ERKAN K, ÜVET H, Pallikaris I.  
31st International Congress of the Hellenic Society of Intraocular Implant and Refractive Surgery, Atina, Greece, 02 March 2017, pp.225-230

## Supported Projects

Erkan K., Şahin O., Daşdemir J., Avcı A., TUBITAK Project, Yer Tabanlı Emülasyonlar İçin Elektrodinamik Levitasyon Tabanlı Çok Serbestlik Dereceli Bir Mikro-Yerçekimi Platformunun Tasarım Ve Kontrolü, 2024 - 2027

ÜVET H., ERKAN K., ŞAHİN O., GÜVEN R., KIRABALI U. G., Project Supported by Higher Education Institutions, Süper Paramanyetik Demir Oksit Nanoparçacık(SPION) Hedeflemeli Derin Doku Foto-Akustik Mikroskopi, 2023 - 2024

ÜVET H., DEMİRÇALI A. A., ERKAN K., ŞAHİN O., Kirabalı U. G., Project Supported by Higher Education Institutions, Vücut içi Mikrorobot Manipülasyonu için Görüntüleme ve Lazer Güdümlü Enerji Hasatlama, 2022 - 2024

## Metrics

Publication: 12

Citation (WoS): 71

Citation (Scopus): 95

H-Index (WoS): 5

H-Index (Scopus): 6

## Scholarships

ITN 7 - Marie Curie Actions, European Commission, 2011 - 2014