

Asst. Prof. Onurcan ŞAHİN

Personal Information

Office Phone: [+90 212 383 2932](tel:+902123832932)

Email: onsahin@yildiz.edu.tr

Web: <https://onur.phd>

Address: Mekatronik Muh. E2 Blok 202 34349 Besiktas Istanbul Turkiye

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 & Book Chapters

- 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

Refereed Congress / Symposium Publications in Proceedings

- 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

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