

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: MZUE6cAAAAJ

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

- I. 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 OptionsSlack**
 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

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 - Continues
ŞAHİN O., KAYIRAN A., DEMİRÇALI A. A., ÜVET H., Project Supported by Higher Education Institutions, Gözün Biyomekanik ve Optik Sanal İkizinin Geliştirilmesi, 2023 - Continues
ÜVET H., DEMİRÇALI A. A., ERKAN K., ŞAHİN O., Kirabali U. G., Project Supported by Higher Education Institutions, Vücut içi Mikrorobot Manipülasyonu için Görüntüleme ve Lazer Güdümlü Enerji Hasatlama, 2022 - Continues

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