

LEVENT AYDIN

Personal Information

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Education Information

Doctorate, Kocaeli University, Fen Bilimleri Enstitüsü, Biyomedikal Mühendisliği Bölümü, Turkey 2014 - 2020

Postgraduate, Kocaeli University, Fen Bilimleri Enstitüsü, Biyomedikal Mühendisliği Bölümü, Turkey 2012 - 2014

Undergraduate, Kocaeli University, Teknik Eğitim Fakültesi, Elektronik Ve Bilgisayar Eğitimi, Turkey 2008 - 2012

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Health&Medicine, BIOPRINTING: 3D PRINTING BODY PARTS, UNIVERSITY OF WOLLONGONG, 2016

Dissertations

Doctorate, Üç Boyutlu Biyo Yazıcı İle Kompleks Geometride Büyük Ölçekli İnsan Damar Doku Eldesi, Kocaeli University, Fen Bilimleri Enstitüsü, Biyomedikal Mühendisliği Bölümü, 2020

Postgraduate, Üç boyutlu yazıcıyla ayak bileği ortezinin tasarımı ve geliştirilmesi, Kocaeli University, Fen Bilimleri Enstitüsü, Biyomedikal Mühendisliği Bölümü, 2014

Research Areas

Biomedical Image Processing, Biomechanics, Biomedical Engineering, Tissue Engineering, Finite Element Methods, Biomechanics, Biomaterial

Academic and Administrative Experience

Assistant Director of Vocational School, Kocaeli University, Kocaeli Sağlık Hizmetleri Meslek Yüksekokulu, 2021 - Continues

Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **A universal self-eroding sacrificial bioink that enables bioprinting at room temperature**
Aydin L., KÜÇÜK S., Kenar H.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.31, no.7, pp.1634-1647, 2020 (Journal Indexed in SCI)

- II. **Additive manufacturing and biomechanical validation of a patient-specific diabetic insole**
Peker A., Aydın L., KÜÇÜK S., ÖZKOÇ G., Cetinarslan B., CANTÜRK Z., SELEK A.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.31, no.5, pp.988-996, 2020 (Journal Indexed in SCI)
- III. **A method for more accurate FEA results on a medical device developed by 3D technologies**
AYDIN L., KÜÇÜK S.
POLYMERS FOR ADVANCED TECHNOLOGIES, vol.29, no.8, pp.2281-2286, 2018 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Development of Personal Protective Respirator Based on Additive Manufacturing Technologies in Fighting Against Pandemic**
Aydın L., İlkin S., Arıcan M. O. , Peker Karatoprak A., Şahin S., Özkoç G., Aksu M. G. , Küçük S., Gündoğdu Ö.
Kocaeli Journal of Science and Engineering, vol.4, no.1, pp.24-38, 2021 (National Refreed University Journal)
- II. **Üç Boyutlu Yazıcı ve Tarayıcı ile Hastaya Özel Medikal Ortez Tasarımı ve Geliştirilmesi**
AYDIN L., KÜÇÜK S.
Politeknik Dergisi, vol.20, no.1, pp.1-8, 2017 (Other Refereed National Journals)
- III. **Design and Construction of Ankle Foot Orthosis By Means Of Three Dimensional Printers**
AYDIN L., KÜÇÜK S.
JOURNAL OF POLYTECHNIC-POLITEKNİK DERGISI, vol.20, no.1, pp.1-8, 2017 (Journal Indexed in ESCI)
- IV. **Design and Construction of a Novel Micro-Extrusion System for Bio-printing Applications**
AYDIN L., KÜÇÜK S., KENAR H.
International Journal of Applied Mathematics, Electronics and Computers, vol.1, pp.52, 2016 (Refereed Journals of Other Institutions)

Books & Book Chapters

- I. **Surgical Planning and Additive Manufacturing of an Anatomical Model: A Case Study of a Spine Surgery**
Aydın L., Çakır Ö., Ege M.
in: Medical Robotics - New Achievements, Serdar Küçük, Abdullah Erdem Canda, Editor, IntechOpen, London, pp.1, 2019

Refereed Congress / Symposium Publications in Proceedings

- I. **Omurga Cerrahisinde Ameliyat Planlama ve Optimizasyon**
EGE M., KÜÇÜK S., ÇAKIR Ö., AYDIN L., DİLEK R., KONUK EGE G.
Tıp Teknolojileri Kongresi (TIPTEKNO19), İzmir, Turkey, 3 - 05 October 2019, pp.580-582
- II. **Diyabetik Bireylerde Katkılı Üretim Teknolojileri ve Termoplastik Elastomer Temelli Ayak Ülserlerini Önleyici Medikal Tabanlı Geliştirilmesi ve Biyomekanik Validasyonu**
AYDIN L., KÜÇÜK S., CANTÜRK Z., PEKER A., EGE M., YALÇIN F., KONUK EGE G.
Tıp Teknolojileri Kongresi (TIPTEKNO19), İzmir, Turkey, 3 - 05 October 2019, pp.556-559
- III. **Development And Biomechanical Validation Of Medical Insoles To Prevent Foot Ulcers On Diabetic Patients By Means Of Thermoplastic Elastomers And Additive Manufacturing Technologies**
Aydın L., KÜÇÜK S., Cetinarslan B., CANTÜRK Z., PEKER KARATOPRAK A., EGE M., Yalçin F., EGE G. K.
Medical Technologies Congress (TIPTEKNO), İzmir, Turkey, 3 - 05 October 2019, pp.212-215
- IV. **3D Bioprinting Of Natural Polymer Based Bio-inks For Tissue Engineering of Blood Vessel Substitutes**
Aydın L., KÜÇÜK S., KENAR H.

22nd International Biomedical Science and Technology Symposium (BIOMED 2017), 12 - 14 May 2017

V. 3D Bioprinting of a Natural Polymer-Ceramic based composite Bio-Ink for Bone Tissue Engineering Applications

AYDIN L., DEMİRKOL N., KENAR H.

2nd International Symposium on 3D Printing Technologies (3D-PTS2017), 3 - 04 April 2017

VI. Design and Construction of a Novel Micro Extrusion System for Bio printing Applications

AYDIN L., KÜÇÜK S., KENAR H.

3th International Conference on Advanced Technology & Sciences, 1 - 03 September 2016, pp.1342-1346

VII. DESIGN AND CONSTRUCTION OF A COMPACT MICRO EXTRUSION SYSTEM FOR BIO PRINTING APPLICATIONS

AYDIN L., KÜÇÜK S., KENAR H.

IV International Bioengineering conference, 13 - 14 October 2016

VIII. Doku ve Organ Biyo Yazdırma Amaçlı 3B Biyo Yazıcı Tasarımı ve Geliştirilmesi

AYDIN L., KÜÇÜK S., KENAR H.

Tıp Tekno 15, Muğla, Turkey, 15 - 18 October 2015, vol.1, pp.153-157

IX. Üç boyutlu yazıcı ile ayak bileği ortezinin tasarımı ve geliştirilmesi

KÜÇÜK S., AYDIN L.

Tıp teknolojileri ulusal kongresi 2014, Turkey, 25 - 27 September 2014, pp.129-132

Activities in Scientific Journals

International Journal of 3D Printing Technologies and Digital Industry, Editor, 2021 - Continues

Scientific Refereeing

RAPID PROTOTYPING JOURNAL, SCI Journal, January 2020

MEDICAL & BIOLOGICAL ENGINEERING & COMPUTING, SCI Journal, January 2020

Citations

Total Citations (WOS):22

h-index (WOS):3