# Lect. PhD Berdan Kalav

## Personal Information

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**International Researcher IDs**
ORCID: 0000-0002-7284-3408
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## Education Information

Doctorate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği Anabilim Dalı, Turkey 2008 - 2012
Postgraduate, Istanbul Technical University, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği Anabilim Dalı, Turkey 2001 - 2004
Undergraduate, Istanbul Technical University, Tekstil Teknolojileri Ve Tasarımı Fakültesi, Tekstil Mühendisliği Bölümü, Turkey 1977 - 2001

## Foreign Languages

English, C2 Mastery

## Certificates, Courses and Trainings

Quality Management, Akreditasyon ve TS ISO/IEC 17025 Deney ve Kalibrasyon Laboratuvarlarının Yeterliliği İçin Genel Şartlar Standardı, TURKISH ACCREDITATION AGENCY, 2015
Quality Management, TS EN ISO/IEC 17025'e Göre Laboratuvarlarda İç Denetçi Eğitimi , TURKISH ACCREDITATION AGENCY, 2015

## Dissertations

Doctorate, Troubleshooting ink jet printing of cotton substrates using a knowledge-based expert system, Istanbul Technical University, Fen Bilimleri Enstitüsü, Tekstil Mühendisliği Anabilim Dalı, 2012
Postgraduate, Pamuklu örme kumaşlarda reaktif baskı, Istanbul Technical University, Fen Bilimleri Enstitüsü, 2004

## Research Areas

Textile Engineering and Technology, Textile Chemistry, Dye Finishing Technology, Engineering and Technology

## Academic Titles / Tasks

Lecturer PhD, Istanbul Technical University, Tekstil Teknolojileri Ve Tasarımı Fakültesi, Tekstil Mühendisliği Bölümü, 2015 - Continues

Research Assistant, Istanbul Technical University, Tekstil Teknolojileri Ve Tasarımı Fakültesi, Tekstil Mühendisliği Bölümü, 2001 - 2012

## Courses

Ecological Textiles, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Textile Digital Printing Technologies, Postgraduate, 2018 - 2019, 2017 - 2018
Introduction to Coloration and Finishing Processes, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016
Dyeing and Printing Technologies, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015
Textile Printing, Postgraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016

## Designed Lessons

Kalav B., Textile Digital Printing Technologies, Postgraduate, 2017 - 2018

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

I. **Functionalized polyvinyl alcohol nanofiber webs containing β–cyclodextrin/Vitamin C inclusion complex**
Okur N., Sarıçam C., Göcek İ., Kalav B., Şahin U. K.
Journal of Industrial Textiles, vol.50, pp.1559-1571, 2021 (SCI-Expanded)

II. **Effect of pigment colour on the printing performance of synthetic leather using a ultraviolet-curable water-borne polyurethane acrylate binder**
Baysal G., Kalav B., Karagüzel Kayaoğlu B.
COLORATION TECHNOLOGY, vol.135, no.4, pp.283-291, 2019 (SCI-Expanded)

III. **The effect of ultraviolet-curable water-borne polyurethane acrylate binder concentration on the printing performance of synthetic leather**
Baysal G., Kalav B., Karagüzel Kayaoğlu B.
COLORATION TECHNOLOGY, vol.135, pp.111-120, 2019 (SCI-Expanded)

IV. **Colour and gloss properties of pigment-printed synthetic leather using an ultraviolet-curable water-borne polyurethane acrylate binder and two photoinitiators at different ratios**
Baysal G., Kalav B., Karagüzel Kayaoğlu B.
COLORATION TECHNOLOGY, vol.135, no.2, pp.133-142, 2019 (SCI-Expanded)

## Articles Published in Other Journals

I. **Enhancing the Flame Retardancy of UV Curable Polyurethane Acrylate Coated Films with Alumina Trihydrate Filling**
KALAV B., İŞMAR E., KARAGÜZEL KAYAOĞLU B.
ÇUKUROVA ÜNİVERSİTESİ MÜHENDİSLİK MİMARLIK FAKÜLTESİ DERGİSİ, vol.34, no.3, pp.11-20, 2019 (Peer-Reviewed Journal)

II. **Screen printing of uv curable polyurethane acrylate binder prepared withdifferent pigment concentrations on synthetic leather and gloss andhardness properties of printed films**
Baysal G., Kalav B., Karagüzel Kayaoğlu B.
IOP Conference Series: Materials Science and Engineering, vol.460, no.12001, 2018 (Conference Book)

III. **Gloss and hardness evaluation of water-based uv curable polyurethane acrylate film used in textile printing**
Kalav B., Baysal G., Karagüzel Kayaoğlu B.

Vlakna a Textil, vol.25, no.3, pp.30-36, 2018 (Scopus)

IV. **Obtaining Composite Cotton Fabric by Cyclodextrin Grafting**
Şahin U. K., Okur N., Sarıçam C., GOCEK I., ARSLAN M. H., ACIKGOZ H., Kalav B.
International Journal of Materials and Metallurgical Engineering, vol.2016, no.3, pp.946-963, 2016 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

I. **Design of a recipe using polyol based wicking agent for better wicking performance of polyamide 6.6 seamless garments**
KALAV B., NERGİS F. B., CANDAN C.
ICONTEX 2019 2nd International Congress of Innovative Textiles, Tekirdağ, Turkey, 17 - 18 April 2019, vol.2, pp.155-161

II. **Design of Knitted Fabric with Improved Ultra Violet Protection Factor**
BECEREN Y., KALAV B., CANDAN C.
18th AUTEX World Textile Conference, İstanbul, Turkey, 20 - 22 June 2018

III. **Screen printing of UV curable polyurethane acrylate binder prepared with different pigment concentrations on synthetic leather and gloss and hardness properties of printed films**
BAYSAL G., KALAV B., KARAGÜZEL KAYAOĞLU B.
18th AUTEX World Textile Conference, 20 - 22 June 2018

IV. **Effect of pigment concentration on fastness and color values of thermal and UV curable pigment printing**
BAYSAL G., Kalav B., Karagüzel Kayaoğlu B.
17th World Textile Conference: Shaping the Future of Textiles, AUTEX 2017, Corfu, Greece, 29 - 31 May 2017, vol.254

V. **Screen Printing of Synthetic Leather Using Pigmented UV Curable Water Based Polyurathane Acrylate Binder**
ÖZDEMİR Ü. G., KALAV B., KARAGÜZEL KAYAOĞLU B., YILDIZ B., AKBULUT G., EREN M.
16th AUTEX World Textile Conference 2016, Ljubljana, SLOVENIA, Ljubljana, Slovenia, 8 - 10 June 2016

VI. **The Effect of System Variables on Reactive Printing**
KALAV B., DAYIOĞLU H.
III. International Textile, Clothing Design Conference, Croatia (ITC DC), 8 - 11 October 2006

VII. **Antibacterial Finishing Processes of Textiles Literature Survey**
KALAV B., ÖZTÜRK M.
1st International Istanbul Textile and Textile Machinery Congress Turkey, 2006., 1 - 02 June 2006

VIII. **The Effect of Fixation Type On Color Yield Properties and Fastness of Reactive Prints Prepared With Sodium Alginate and Acrylic Copolymer**
KALAV B., DAYIOĞLU H.
PerTex International Textile Symposium, Romania, 10 - 12 November 2005

## Supported Projects

Kalav B., Uçar N., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Tekstil Tabanlı Kompozit İleri Teknoloji ve Inovasyon Merkezi, 2015 - 2016

## Metrics

Publication: 22

Citation (WoS): 15
Citation (Scopus): 21
H-Index (WoS): 3
H-Index (Scopus): 3

## Non Academic Experience

Bagu Reklam Dış Ticaret Ltf. Şti.
North Carolina State University