

Asst. Prof. KEMAL BÜYÜKKABASAKAL

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Ege University, Fen Bilimleri Enstitüsü, Elektronik (Dr), Turkey 2010 - 2016

Postgraduate, Ege University, Fen Bilimleri Enstitüsü, Elektrik-Elektronik Mühendisliği (Yl) (Tezli), Turkey 2007 - 2010

Undergraduate, Dokuz Eylul University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, Turkey 2002 - 2006

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Hata-Toleranslı Uçuş Kontrol Sistemi Tasarımı, Ege University, Fen Bilimleri Enstitüsü, Elektronik (Dr), 2016

Research Areas

Control and System Engineering, Nonlinear Systems, Checker, Discrete Time Systems and Computer Control, Control Systems and Instrumentation, Optimal Control, Electrical and Electronics Engineering, Flight Dynamics and Stability, Flight Control Systems

Academic Titles / Tasks

Usak University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2019 - Continues

Research Assistant, Usak University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2009 - 2019

Research Assistant, Ege University, Mühendislik Fakültesi, Elektrik-Elektronik Mühendisliği Bölümü, 2010 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- Sensing Volatile Pollutants with Spin-Coated Films Made of Pillar[5]arene Derivatives and Data Validation via Artificial Neural Networks**

Kursunlu A. N., AÇIKBAŞ Y., Yılmaz C., Ozmen M., Capan I., Capan R., BÜYÜKKABASAKAL K., Senocak A.

ACS APPLIED MATERIALS & INTERFACES, vol.16, no.24, pp.31851-31863, 2024 (SCI-Expanded)

- II. **Sensor application and mathematical modeling of new Zn(II) phthalocyanine containing 26-membered tetraoxadithia macrocycle moieties**
Baygu Y., Capan İ., Capan R., Erdogan M., AÇIKBAŞ Y., Kabay N., GÖK Y., BÜYÜKKABASAKAL K.
Inorganic Chemistry Communications, vol.150, 2023 (SCI-Expanded)
- III. **Mathematical modelling and gas sensing abilities of graphene based optical sensor**
DENİZ A., Acikbas S., BÜYÜKKABASAKAL K., AÇIKBAŞ Y., Erdogan M., Capan R.
Journal of Optoelectronics and Advanced Materials, vol.24, no.5-6, pp.193-200, 2022 (SCI-Expanded)
- IV. **Stability evaluation of environmentally volatile pollutants sensing devices by developing theoretical calculation and mathematical modeling**
AÇIKBAŞ Y., Kursunlu A. N., Ozmen M., BÜYÜKKABASAKAL K., Erdogan M., Capan R.
Sensors and Actuators A: Physical, vol.333, 2022 (SCI-Expanded)
- V. **Chemical Sensor Properties and Mathematical Modeling of Graphene Oxide Langmuir-Blodgett Thin Films**
BÜYÜKKABASAKAL K., Celik Acikbas S., DENİZ A., AÇIKBAŞ Y., Capan R., Erdogan M.
IEEE Sensors Journal, vol.19, no.20, pp.9097-9104, 2019 (SCI-Expanded)
- VI. **Mixing Adaptive Fault Tolerant Control of Quadrotor UAV**
BÜYÜKKABASAKAL K., Fidan B., Savran A.
Asian Journal of Control, vol.19, no.4, pp.1441-1454, 2017 (SCI-Expanded)
- VII. **A novel approach for olive leaf extraction through ultrasound technology : Response surface methodology versus artificial neural networks**
İlbay Z., ŞAHİN SEVGİLİ S., BÜYÜKKABASAKAL K.
Korean Journal of Chemical Engineering, vol.31, no.9, pp.1661-1667, 2014 (SCI-Expanded)

Articles Published in Other Journals

- I. **Grafen Kaplı Kimyasal Sensörlerin Şişme Davranışları ve Matematiksel Modelleme**
ÇELİK AÇIKBAŞ S., BÜYÜKKABASAKAL K., DENİZ A., AÇIKBAŞ Y., ÇAPAN R., ERDOĞAN M.
Selçuk Üniversitesi Fen Fakültesi Dergisi, vol.46, no.2, pp.110-117, 2020 (Peer-Reviewed Journal)
- II. **FPGA Based Wireless Multi Node Transceiver and Monitoring System**
AKIN Ö., BAŞARAN İ., SOKULLU R. İ., ALAN İ., BÜYÜKKABASAKAL K.
Journal of Mathematics and System Science, vol.2, no.1, pp.53-57, 2012 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **OPTICAL SENSOR PROPERTIES AND MATHEMATICAL MODELLING OF GRAPHENE NANO THIN FILMS**
Çelik Açıkbaş S., BÜYÜKKABASAKAL K., DENİZ A., AÇIKBAŞ Y., ÇAPAN R., ERDOĞAN M.
BRAMAT 2019 11th INTERNATIONAL CONFERENCE ON MATERIALS SCIENCE ENGINEERING, Brasov, Romania, 13 - 16 March 2019
- II. **Real-time implementation of decentralized adaptive formation control on multi-quadrotor systems**
KOKSAL N., FIDAN B., BÜYÜKKABASAKAL K.
2015 European Control Conference (ECC), Linz, Austria, Austria, 15 - 17 July 2015, pp.3162-3167
- III. **Real-time implementation of mixing adaptive control on quadrotor UAVs**
BÜYÜKKABASAKAL K., FIDAN B., SAVRAN A., KOKSAL N.
2015 European Control Conference (ECC), Linz, Austria, Austria, 15 - 17 July 2015, pp.3597-3602

Metrics

Publication: 12
Citation (Scopus): 85
H-Index (Scopus): 4

Non Academic Experience

University of Surrey