

Prof. DİLEK İMREN KOÇ

Personal Information

Email: dimren@cumhuriyet.edu.tr

Web: <https://avesis.cumhuriyet.edu.tr/dimren>

International Researcher IDs

ORCID: 0000-0003-3657-3794

Yoksis Researcher ID: 103512

Education Information

Doctorate, Hacettepe University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1998 - 2003

Postgraduate, Sivas Cumhuriyet University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1996 - 1998

Undergraduate, Yıldız Technical University, Faculty Of Chemical And Metallurgical Engineering, Department Of Chemical Engineering, Turkey 1990 - 1994

Research Areas

Engineering and Technology

Academic Titles / Tasks

Professor, Sivas Cumhuriyet University, Mühendislik Fakültesi, Kimya Mühendisliği, 2019 - Continues

Associate Professor, Sivas Cumhuriyet University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2011 - 2019

Courses

Uzmanlık Alan Dersi, Doctorate, 2019 - 2020

Kimyasal Proses Endüstrileri - I, Undergraduate, 2019 - 2020

Polimer Teknolojisi, Undergraduate, 2018 - 2019

Kontrollü Salım Teknolojisi, Postgraduate, 2018 - 2019

Biyomalzemeler, Postgraduate, 2019 - 2020

Uzmanlık Alan Dersi, Postgraduate, 2018 - 2019

Kimyasal Proses Endüstrileri - I, Undergraduate, 2018 - 2019

Tez Çalışması, Postgraduate, 2018 - 2019

Tez Çalışması, Doctorate, 2017 - 2018

Seminer Dersi, Doctorate, 2017 - 2018

Kontröllü Salınım Teknolojisi, Postgraduate, 2016 - 2017

Polimer Teknolojisi, Undergraduate, 2016 - 2017

Polimer Tekn., Undergraduate, 2016 - 2017

Polimer Teknolojisi, Undergraduate, 2016 - 2017

Polimer Teknolojisi, Undergraduate, 2016 - 2017

Reoloji, Postgraduate, 2016 - 2017

Malzeme, Undergraduate, 2017 - 2018

Inorganik Tekn., Undergraduate, 2016 - 2017
Kimyasal Tekn. Lab., Undergraduate, 2016 - 2017
Seminer Dersi, Postgraduate, 2015 - 2016
Inorganik Tekn., Undergraduate, 2016 - 2017
Kimyasal Teknoloji Laboratuvarı, Undergraduate, 2016 - 2017
Kimyasal Teknoloji Laboratuvarı, Undergraduate, 2016 - 2017
Kütle ve Enerji Denk. - II, Undergraduate, 2013 - 2014
Malzeme, Undergraduate, 2014 - 2015
Kütle ve Enerji Denk. - II, Undergraduate, 2013 - 2014
Organik Tekn., Undergraduate, 2013 - 2014
Kimyasal Proses Endüstrileri - II, Undergraduate, 2013 - 2014
Kütle ve Enerji Denk. - II, Undergraduate, 2013 - 2014
Kimyasal Proses Endüstrileri - II, Undergraduate, 2013 - 2014
Organik Tekn., Undergraduate, 2013 - 2014
Kütle ve Enerji Denk. - II, Undergraduate, 2013 - 2014
Kütle ve Enerji Denk. - I, Undergraduate, 2013 - 2014
Kütle ve Enerji Denk. - I, Undergraduate, 2013 - 2014
Kütle ve Enerji Denk. - I, Undergraduate, 2013 - 2014
Kütle ve Enerji Denk. - I, Undergraduate, 2013 - 2014
Polimer Tekn., Undergraduate, 2012 - 2013
Polimer Tekn., Undergraduate, 2011 - 2012
Organik Kimya, Undergraduate, 2012 - 2013
Polimer Tekn., Undergraduate, 2011 - 2012
Kimyasal Tekn. Lab., Undergraduate, 2012 - 2013
Polimer Malzemeler, Undergraduate, 2011 - 2012
Polimer Kim., Undergraduate, 2011 - 2012
Polimer Kim., Undergraduate, 2011 - 2012
Temel Bilgisayar Bilimleri, Undergraduate, 2009 - 2010
Temel Bilgisayar Bilimleri, Undergraduate, 2009 - 2010
Temel Bilgisayar Teknolojileri Kullanımı, Undergraduate, 2009 - 2010
Temel Bilgisayar Teknolojileri Kullanımı, Undergraduate, 2009 - 2010
Mukavemet, Undergraduate, 2006 - 2007
Mukavemet, Undergraduate, 2006 - 2007
Statik, Undergraduate, 2006 - 2007
Statik, Undergraduate, 2006 - 2007

Advising Theses

İMREN KOÇ D., Sodyum aljinat/poli(etilen glikol) karışımlarının karışabilirliğinin vizkozimetrik ve refraktometrik yöntemlerle incelenmesi, Postgraduate, N.ÖZEL(Student), 2017
DURMAZUÇAR H. H., İMREN KOÇ D., Terpolimer bazlı, sıcaklık ve ph-duyarlı hidrojellerin sentezi ve karakterizasyonu, Postgraduate, S.ESRA(Student), 2012
İMREN KOÇ D., Akrilik kemik çimentosunun modifikasyonu, karakterizasyonu ve antibiyotik ilaç salımındaki kullanımları, Postgraduate, T.KAYMAK(Student), 2010
İMREN KOÇ D., Kitosana dayalı polielektrolit kompleks jellerin sentezi ve karakterizasyonu, Postgraduate, B.AYDOĞDU(Student), 2009
İMREN KOÇ D., Çevre duyarlı hidrojellerin şişme kinetiğinin yapay sinir ağları ile modellenmesi, Postgraduate, Ü.ÖZDEMİR(Student), 2007

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A cloud theory based reliability analysis method and its application to reliability problems of breakwaters**
KOÇ M. L., Koc D.
OCEAN ENGINEERING, vol.209, 2020 (SCI-Expanded)
- II. **Prediction of miscibility of sodium alginate/poly(ethylene glycol) blends by fuzzy systems Sodyum aljinat/poli(etilen glikol) karisimlerin karisabilirliğinin bulanik sistemlerle tahmini**
Koc D., Ergun N. O., KOÇ M. L.
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.34, no.2, pp.635-646, 2019 (SCI-Expanded)
- III. **Fuzzy viscometric analysis of polymer-polymer miscibility based on fuzzy regression**
Koc D., KOÇ M. L.
Chemometrics and Intelligent Laboratory Systems, vol.157, pp.58-66, 2016 (SCI-Expanded)
- IV. **Stability assessment of rubble-mound breakwaters using genetic programming**
KOÇ M. L., BALAS C. E., Koc D.
Ocean Engineering, vol.111, pp.8-12, 2016 (SCI-Expanded)
- V. **A genetic programming-based QSPR model for predicting solubility parameters of polymers**
Koc D., KOÇ M. L.
Chemometrics and Intelligent Laboratory Systems, vol.144, pp.122-127, 2015 (SCI-Expanded)
- VI. **Compatibilization of immiscible poly(vinyl chloride) (PVC)/polystyrene (PS) blends with maleic anhydride-styrene-vinyl acetate terpolymer (MAStVA)**
İmren D.
Journal of Molecular Structure, vol.963, pp.245-249, 2010 (SCI-Expanded)
- VII. **In Vitro Release Kinetics of Bovine Serum Albumin from Highly Swellable Dextran Hydrogels**
İMREN KOÇ D., GÜMÜŞDERELİOĞLU M., GÜNER A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.115, no.2, pp.740-747, 2010 (SCI-Expanded)
- VIII. **Response to comments on "Prediction of the pH and the temperature-dependent swelling behavior of Ca²⁺-alginate hydrogels by artificial neural networks"**
KOÇ M. L., Ozdemir U., İMREN KOÇ D.
CHEMICAL ENGINEERING SCIENCE, vol.64, no.8, pp.1908, 2009 (SCI-Expanded)
- IX. **Viscometric investigation of compatibilization of the poly(vinyl chloride)/poly(ethylene-co-vinyl acetate) blends by terpolymer of maleic anhydride-styrene-vinyl acetate**
İMREN KOÇ D., BOZTUĞ A., YILMAZ E., Zengin H.
JOURNAL OF MOLECULAR STRUCTURE, vol.891, pp.329-332, 2008 (SCI-Expanded)
- X. **Prediction of the pH and the temperature-dependent swelling behavior of Ca²⁺-alginate hydrogels by artificial neural networks**
KOÇ M. L., Oezdemir U., İMREN KOÇ D.
CHEMICAL ENGINEERING SCIENCE, vol.63, no.11, pp.2913-2919, 2008 (SCI-Expanded)
- XI. **Synthesis and characterization of dextran hydrogels prepared with chlor- And nitrogen-containing crosslinkers**
İmren D., Gumusderelioglu M., Guner A.
Journal of Applied Polymer Science, vol.102, no.5, pp.4213-4221, 2006 (SCI-Expanded)
- XII. **Investigation of miscibility of poly(vinyl chloride) with poly(ethylene-co-vinyl acetate) by viscosimetric method**
İmren D., Boztug A., Basan S.
Materials Research Innovations, vol.10, no.2, pp.47-48, 2006 (SCI-Expanded)

Articles Published in Other Journals

- I. **QSPR prediction of polymers' solubility parameters by radial basis functional link net**
İMREN KOÇ D., KOÇ M. L.
Journal of Computational Methods in Sciences and Engineering, vol.20, pp.1341-1356, 2020 (ESCI)
- II. **Preparation and Characterization of pH-Sensitive Hydrogels Based on Crosslinked Maleic Anhydride-Styrene-Methyl Methacrylate Terpolymer**
İMREN KOÇ D., BOLSU S. E., DURMAZUÇAR H. H., BOZTUĞ A.
Cumhuriyet Science Journal, vol.39, pp.779-790, 2018 (Peer-Reviewed Journal)
- III. **Modeling of the Swelling Behavior of pH Sensitive Dextran Hydrogels by an Artificial Neural Network**
İMREN KOÇ D., KOÇ M. L., GÜMÜŞDERELİOĞLU M.
International Journal of Natural and Engineering Sciences, vol.3, no.3, pp.116-121, 2009 (Peer-Reviewed Journal)
- IV. **Colon-Specific Delivery of IgG from Highly Swellable Dextran Hydrogels: In-Vitro Study**
İMREN KOÇ D., GÜMÜŞDERELİOĞLU M., GÜNER A.
Hacettepe Journal of Biology and Chemistry, vol.35, no.3, pp.163-171, 2007 (Peer-Reviewed Journal)
- V. **pH'ya Duyarlı Hidrojeller ve Kontrollü İlaç Salım Sistemlerindeki Uygulamaları**
BASAN H., İMREN KOÇ D., GÜMÜŞDERELİOĞLU M.
FABAD Journal of Pharmaceutical Sciences, vol.26, no.2, pp.81-92, 2001 (Scopus)

Books & Book Chapters

- I. **KİMYASAL TEKNOLOJİLER VE ANALİZLERİ**
BASAN S., İMREN KOÇ D., ÇETİNKAYA S.
CUMHURİYET UNIVERSİTESİ, Sivas, 1996

Refereed Congress / Symposium Publications in Proceedings

- I. **POLYELECTROLYTE HYDROGEL BASED ON CHITOSAN/DEXTRAN SULFATE**
AYDOĞDU B., İMREN KOÇ D.
International Conference on Multidisciplinary Sciences (icomus), İstanbul, Turkey, 15 - 16 December 2018, vol.3, pp.826-834
- II. **PREPARATION AND CHARACTERIZATION OF SODIUM ALGINATE/CHITOSAN POLYELECTROLYTE HYDROGELS**
AYDOĞDU B., İMREN KOÇ D.
International Conference on Multidisciplinary Sciences (icomus), İstanbul, Turkey, 15 - 16 December 2018, vol.3, pp.816-825
- III. **Polivinilklorür (PVC) / Polistiren (PS) Karışımının Maleikanhidrit -Stiren -Vinil Asetat Terpolimerleri İle Uyumlulaştırılması**
İmren Koç D., Boztuğ A., Karasu S., Yılmaz E., Aydoğdu B.
23. Ulusal Kimya Kongresi, Sivas, Turkey, 16 - 20 June 2009

Metrics

Publication: 21

Citation (WoS): 82

Citation (Scopus): 85

H-Index (WoS): 5

H-Index (Scopus): 6

Non Academic Experience

Cumhuriyet Üniversitesi
Hacettepe Üniversitesi
Cumhuriyet Üniversitesi