

Prof. CANAN ÖZGEN

Personal Information

Email: cozgen@metu.edu.tr

Web: <https://avesis.metu.edu.tr/cozgen>

Advising Theses

- ÖZGEN C., Rate-based modeling of steam ethane cracker, Postgraduate, S.GÜNDÜR(Student), 2015
- ÖZGEN C., KÜLAH H., MEMS based electrochemical DNA sensor to detect methicillin resistant Staphylococcus aureus and vancomycin resistant Enterococcus species, Doctorate, H.Ceylan(Student), 2013
- ÖZGEN C., KÜLAH H., Development of a new immobilization procedure for detection of staphylococcal enterotoxin B (SEB) and Candida Albicans, Postgraduate, D.Ertürkan(Student), 2012
- KÜLAH H., ÖZGEN C., Development of a new immobilization procedure for detection of staphylococcal enterotoxin B (SEB) and Candida albicans, Postgraduate, D.ERTÜRKAN(Student), 2012
- ÖZGEN C., Mathematical modeling of gate control theory, Postgraduate, E.AĞI(Student), 2009
- ÖZGEN C., Inferential control of boric acid production system, Postgraduate, Ö.DERVIŞOĞLU(Student), 2007
- ÖZGEN C., Control and simulation studies for a multicomponent batch packed distillation column, Postgraduate, H.CEYLAN(Student), 2007
- ÖZGEN C., Modeling and control studies for a reactive batch distillation column, Doctorate, A.BAHAR(Student), 2007
- BAYRAM G., ÖZGEN C., Inferential model predictive control of poly(ethylene terephthalate) degradation during extrusion, Postgraduate, M.OLUŞ(Student), 2006
- ÖZGEN C., Control of pH in neutralization reactor of a waste water treatment system using identification reactor, Postgraduate, S.OBUT(Student), 2005
- LEBLEBİCİOĞLU M. K., ÖZGEN C., Model predictive control (MPC) performance for controlling reaction systems, Postgraduate, İ.AŞAR(Student), 2004
- ÖZGEN C., Adaptive neuro fuzzy inference system applications in chemical processes, Postgraduate, E.Güner(Student), 2003
- LEBLEBİCİOĞLU M. K., ÖZGEN C., Adaptive neuro fuzzy inference system (anfis) applications in chemical processes, Postgraduate, E.GÜNER(Student), 2003
- ÖZGEN C., An artificial neural network estimator design for the inferential model predictive control of an industrial multi-component distillation column, Postgraduate, A.BAHAR(Student), 2003
- ÖZGEN C., Multivariable model predictive controller design for an industrial distillation column., Postgraduate, M.TEKİN(Student), 2002
- LEBLEBİCİOĞLU M. K., ÖZGEN C., Fuzzy and sliding mode control of a pH neutralization system, Postgraduate, Ü.AKBAY(Student), 2002
- ÖZGEN C., Multicomponent batch distillation column simulation and state observer design., Postgraduate, U.YILDIZ(Student), 2002
- ÖZGEN C., Model predictive control of the chlorination stage in a pulp bleaching plant, Postgraduate, C.UĞUR(Student), 2001
- HALICI U., ÖZGEN C., Control of an industrial multi component high purity distillation column with a model predictive controller, Postgraduate, M.KAYA(Student), 2000
- LEBLEBİCİOĞLU M. K., ÖZGEN C., Some sliding mode control applications in brushless DC motor and pH systems, Postgraduate, F.KAFFAŞLI(Student), 1999
- ÖZGEN C., Simulation study of an adaptive fuzzy knowledge based controller (FKBC) and neural network controller (NNC) on a pH system, Postgraduate, K.NESRALLAH(Student), 1998

ÖZGEN C., The Determination of the exergy losses in an aromatics plant and the development of a computer program for its calculation, Postgraduate, E.TOPALOĞLU(Student), 1997

ÖZGEN C., YETİŞ Ü., Improvements of the bleaching process of Dalaman Pulp and Paper Plant to reduce the environmental impacts, Postgraduate, M.Hafız(Student), 1997

ÖZGEN C., An Adaptive nonlinear model predictive controller using a neural network, Postgraduate, Ö.KARAHAN(Student), 1997

ÖZGEN C., Heat exchanger network studies in chemical processes, Postgraduate, N.DEMİRKAZIK(Student), 1997

ÖZGEN C., Ethanol fermentation with simultaneous product separation in a bioreactor-stripper system, Doctorate, S.SAIN(Student), 1997

ÖZGEN C., Improvements of the bleaching process of Dalaman pulp and power plant to reduce the environmental, Postgraduate, M.QUSHSHO'O(Student), 1997

ÖZGEN C., Heat exchanger network studies in chemical process, Postgraduate, N.Demirkazık(Student), 1997

ÖZGEN C., GÜRKAN T., Ethanol fermentation with simultaneous product separation in a bioreactor-stripper system, Doctorate, S.Sain(Student), 1997

ÖZGEN C., HALICI U., An adaptive non-linear model predictive controller using a neural network, Postgraduate, Ö.Karahan(Student), 1997

GÜRKAN T., ÖZGEN C., Process synthesis studies in batch distillation column design and operation, Doctorate, D.Alkaya(Student), 1997

ÖZGEN C., Modeling of the cement demand of Turkey, Postgraduate, İ.TOLGA(Student), 1996

ÖZGEN C., Control configuration selection for a high-purity industrial distillation column with side stream, Postgraduate, M.ERTAN(Student), 1993

ÖNAL I., ÖZGEN C., Transient modeling of diffusivity for monolithic catalyst by using pulse testing technique, Postgraduate, Z.Khedr(Student), 1991

GÜRKAN T., ÖZGEN C., Synthesis of regulatory control structures for a styrene plant, Postgraduate, M.Türkay(Student), 1991

ÖZGEN C., An expert system for dryer selection: drysel, Postgraduate, Y.Refhan(Student), 1991

ÖZGEN C., Model predictive control studies on a cascade temperature control loop, Postgraduate, A.GENÇ(Student), 1991

GÜRKAN T., ÖZGEN C., Studies on the control structure for a reactor-separation system, Postgraduate, N.Kayakol(Student), 1990

ÖZGEN C., Selection of the best control configuration for an industrial distillation column, Postgraduate, R.DADAL(Student), 1990

ÖZGEN C., Determination of a suitable measurement structure for better control of distillation columns, Postgraduate, D.ALKAYA(Student), 1990

ÖZGEN C., Internal model control studies in a pH-Control loop, Postgraduate, S.GİRĞİÇ(Student), 1989

ÖZGEN C., The Control of heat exchangers using on-line identification, modern control theory and internal model control, Postgraduate, M.NUNA(Student), 1988

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A Fully Microfabricated Electrochemical Sensor and its Implementation for Detection of Methicillin Resistance in Staphylococcus aureus**
Koydemir H. C., KÜLAH H., ALP A., ÜNER A., HASÇELİK A. G., ÖZGEN C.
IEEE SENSORS JOURNAL, vol.14, no.6, pp.1844-1851, 2014 (SCI-Expanded)
- II. **Solvent Compatibility of Parylene C Film Layer**
Koydemir H. C., KÜLAH H., ÖZGEN C.
JOURNAL OF MICROELECTROMECHANICAL SYSTEMS, vol.23, no.2, pp.298-307, 2014 (SCI-Expanded)
- III. **Molecular weight control of poly(ethylene terephthalate) in extrusion process**
Ozbek M. O., BAYRAM G., ÖZGEN C.
POLYMER ENGINEERING AND SCIENCE, vol.54, no.2, pp.459-465, 2014 (SCI-Expanded)

- IV. **Ultrasensitive and selective homogeneous sandwich immunoassay detection by Surface Enhanced Raman Scattering (SERS)**
Pekdemir M. E., Erturkan D., KÜLAH H., BOYACI İ. H., ÖZGEN C., Tamer U.
ANALYST, vol.137, no.20, pp.4834-4840, 2012 (SCI-Expanded)
- V. **MEMS biosensors for detection of methicillin resistant Staphylococcus aureus**
Ceylan Koydemir H., KÜLAH H., ÖZGEN C., ALP A., Hascelik G.
BIOSENSORS & BIOELECTRONICS, vol.29, no.1, pp.1-12, 2011 (SCI-Expanded)
- VI. **State estimation and inferential control for a reactive batch distillation column**
Bahar A., ÖZGEN C.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.23, no.2, pp.262-270, 2010 (SCI-Expanded)
- VII. **Online identification and control of pH in a neutralization system**
Obut S., ÖZGEN C.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.47, no.13, pp.4394-4404, 2008 (SCI-Expanded)
- VIII. **Artificial neural network estimator design for the inferential model predictive control of an industrial distillation column**
Bahar A., Ozgen C., Leblebicioglu K., Halici U.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.43, no.19, pp.6102-6111, 2004 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Effects of Solvents on Dissolution of Photoresist in Parylene Microchannels**
Koydemir H. C., KÜLAH H., ÖZGEN C., Tosun I.
NSTI Nanotechnology Conference and Expo (Nanotech 2012), Santa-Clara, Cuba, 18 - 21 June 2012, pp.372-375
- II. **Modeling of gate control neuronal circuitry including morphologies and physiologies of component neurons and fibres**
Agi E., ÖZGEN C., PURALI N.
9th International Symposium on Dynamics and Control of Process Systems, DYCOPS 2010, Leuven, Belgium, 5 - 07 July 2010, vol.9, pp.865-870
- III. **A disposable MEMS DNA biosensor for antibiotic resistant gene detection in Staphylococcus aureus**
Staphylococcus aureus suşlarında antibiyotiğe dirençli gen tanisi için tek kullanımlık MEMS DNA biyosensörü
Ceylan H., KÜLAH H., ALP A., ÖZGEN C., Hascelik G.
2010 15th National Biomedical Engineering Meeting, BIYOMUT2010, Antalya, Turkey, 21 - 24 April 2010
- IV. **Design of state estimators for the inferential control of an industrial distillation column**
BAHAR A., GUNER E., OZGEN C., HALICI U.
2006 IEEE INTERNATIONAL JOINT CONFERENCE ON NEURAL NETWORK PROCEEDINGS, Vancouver, Canada, 16 - 21 July 2006, pp.1112-1115
- V. **EKF and ANFIS estimator design in multicomponent batch distillation columns**
Yildiz U., Güner E., ÖZGEN C., LEBLEBİCİOĞLU M. K.
7th IFAC Symposium on Dynamics and Control of Process Systems, DYCOPS 2004, Cambridge, United States Of America, 5 - 07 July 2004, vol.37, pp.631-636

Metrics

Publication: 13

Citation (WoS): 151

Citation (Scopus): 169

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H-Index (Scopus): 7

Non Academic Experience

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