

Prof. CANAN ÖZGEN

Personal Information

Email: cozgen@metu.edu.tr

Advising Theses

- ÖZGEN C., Rate-based modeling of steam ethane cracker, Post Graduate, S.GÜNDÜR(Student), 2015
- KÜLAH H., ÖZGEN C., Development of a new immobilization procedure for detection of staphylococcal enterotoxin B (SEB) and Candida albicans, Post Graduate, D.ERTÜRKAN(Student), 2012
- ÖZGEN C., Mathematical modeling of gate control theory, Post Graduate, E.AĞI(Student), 2009
- ÖZGEN C., Inferential control of boric acid production system, Post Graduate, Ö.DERVIŞOĞLU(Student), 2007
- ÖZGEN C., Modeling and control studies for a reactive batch distillation column, Doctorate, A.BAHAR(Student), 2007
- ÖZGEN C., Control and simulation studies for a multicomponent batch packed distillation column, Post Graduate, H.CEYLAN(Student), 2007
- BAYRAM G., ÖZGEN C., Inferential model predictive control of poly(ethylene terephthalate) degradation during extrusion, Post Graduate, M.OLUŞ(Student), 2006
- ÖZGEN C., Control of pH in neutralization reactor of a waste water treatment system using identification reactor, Post Graduate, S.OBUT(Student), 2005
- LEBLEBİCİOĞLU M. K. , ÖZGEN C., Model predictive control (MPC) performance for controlling reaction systems, Post Graduate, İ.AŞAR(Student), 2004
- LEBLEBİCİOĞLU M. K. , ÖZGEN C., Adaptive neuro fuzzy inference system (anfis) applications in chemical processes, Post Graduate, 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, Post Graduate, A.BAHAR(Student), 2003
- LEBLEBİCİOĞLU M. K. , ÖZGEN C., Fuzzy and sliding mode control of a pH neutralization system, Post Graduate, Ü.AKBAY(Student), 2002
- ÖZGEN C., Multicomponent batch distillation column simulation and state observer design, Post Graduate, U.YILDIZ(Student), 2002
- ÖZGEN C., Multivariable model predictive controller design for an industrial distillation column, Post Graduate, M.TEKİN(Student), 2002
- ÖZGEN C., Model predictive control of the chlorination stage in a pulp bleaching plant, Post Graduate, C.UĞUR(Student), 2001
- HALICI U., ÖZGEN C., Control of an industrial multi component high purity distillation column with a model predictive controller, Post Graduate, M.KAYA(Student), 2000
- LEBLEBİCİOĞLU M. K. , ÖZGEN C., Some sliding mode control applications in brushless DC motor and pH systems, Post Graduate, F.KAFFAŞI(Student), 1999
- ÖZGEN C., Simulation study of an adaptive fuzzy knowledge based controller (FKBC) and neural network controller (NNC) on a pH system, Post Graduate, K.NESRALLAH(Student), 1998
- ÖZGEN C., Heat exchanger network studies in chemical processes, Post Graduate, N.DEMİRKAZIK(Student), 1997
- ÖZGEN C., The Determination of the exergy losses in an aromatics plant and the development of a computer program for its calculation, Post Graduate, E.TOPALOĞLU(Student), 1997
- ÖZGEN C., An Adaptive nonlinear model predictive controller using a neural network, Post Graduate, Ö.KARAHAN(Student), 1997
- ÖZGEN C., Improvements of the bleaching process of Dalaman pulp and power plant to reduce the environmental, Post Graduate, M.QUSHSHO'O(Student), 1997
- ÖZGEN C., Ethanol fermentation with simultaneous product separation in a bioreactor-stripper system, Doctorate,

S.SAİN(Student), 1997

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

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

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

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

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

ÖZGEN C., Internal model control studies in a pH-Control loop, Post Graduate, S.GİRGİÇ(Student), 1989

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

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

- **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, pp.1844-1851, 2014 (Journal Indexed in SCI)
- **Solvent Compatibility of Parylene C Film Layer**
Koydemir H. C. , KÜLAH H., ÖZGEN C.
JOURNAL OF MICROELECTROMECHANICAL SYSTEMS, vol.23, pp.298-307, 2014 (Journal Indexed in SCI)
- **Molecular weight control of poly(ethylene terephthalate) in extrusion process**
Ozbek M. O. , BAYRAM G., ÖZGEN C.
POLYMER ENGINEERING AND SCIENCE, vol.54, pp.459-465, 2014 (Journal Indexed in SCI)
- **Ultrasensitive and selective homogeneous sandwich immunoassay detection by Surface Enhanced Raman Scattering (SERS)**
Pekdemir M. E. , Erturk D., KÜLAH H., BOYACI İ. H. , ÖZGEN C., Tamer U.
ANALYST, vol.137, pp.4834-4840, 2012 (Journal Indexed in SCI)
- **MEMS biosensors for detection of methicillin resistant Staphylococcus aureus**
Ceylan Koydemir H., KÜLAH H., ÖZGEN C., ALP A., Hascelik G.
BIOSENSORS & BIOELECTRONICS, vol.29, pp.1-12, 2011 (Journal Indexed in SCI)
- **State estimation and inferential control for a reactive batch distillation column**
Bahar A., ÖZGEN C.
ENGINEERING APPLICATIONS OF ARTIFICIAL INTELLIGENCE, vol.23, pp.262-270, 2010 (Journal Indexed in SCI)
- **Online identification and control of pH in a neutralization system**
Obut S., ÖZGEN C.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.47, pp.4394-4404, 2008 (Journal Indexed in SCI)
- **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, pp.6102-6111, 2004 (Journal Indexed in SCI)

Refereed Congress / Symposium Publications in Proceedings

- **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

● **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

Citations

Total Citations (WOS):117

h-index (WOS):6