

# Prof. HALE HAPOĞLU

## Personal Information

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## International Researcher IDs

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## Education Information

Doctorate, University of Wales, United Kingdom 1989 - 1994

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), Turkey 1985 - 1988

Undergraduate, Ankara University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1981 - 1985

## Dissertations

Doctorate, Self-Tuning Control of Packed Distillation Columns, University of Wales, 1994

Postgraduate, Corynebacterium sp ile Glutamik Asit Üretimi ve Biyoreaktör Tasarım Parametrelerinin Bulunması, Ankara University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (YI) (Tezli), 1988

## Research Areas

Engineering and Technology

## Academic and Administrative Experience

Erasmus Program Department Coordinator, Ankara University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2008 - Continues

Unit Accreditation Board Member, Ankara University, Mühendislik Fakültesi, Kimya Mühendisliği Bölümü, 2007 - Continues

## Courses

Kimya Mühendisliği Lab. II, Undergraduate, 2022 - 2023, 2021 - 2022

English for Business Life, Undergraduate, 2022 - 2023, 2021 - 2022

Proses Dinamiği ve Kontrolü, Undergraduate, 2023 - 2024, 2022 - 2023

Numerical Methods (Agrubu), Undergraduate, 2022 - 2023, 2021 - 2022

Graduation Thesis, Undergraduate, 2023 - 2024, 2022 - 2023

Mesleki İngilizce I, Undergraduate, 2023 - 2024, 2022 - 2023

Araştırma Teknikleri, Undergraduate, 2022 - 2023, 2021 - 2022

Numerical Methods, Undergraduate, 2022 - 2023

Kimya Mühendisliği Lab. III, Undergraduate, 2023 - 2024, 2022 - 2023  
Chemical Engineering Lab. III, Undergraduate, 2022 - 2023, 2021 - 2022  
Uzmanlık Alanı Dersi, Doctorate, 2022 - 2023  
Professional English I, Undergraduate, 2023 - 2024, 2022 - 2023  
Professional English, Undergraduate, 2023 - 2024, 2022 - 2023  
Araştırma Teknikleri II, Undergraduate, 2022 - 2023, 2021 - 2022  
Uzmanlık Alanı Dersi, Doctorate, 2023 - 2024, 2022 - 2023, 2021 - 2022  
KYM351 Kimya Müh. Lab I, Undergraduate, 2023 - 2024, 2022 - 2023  
Araştırma Teknikleri, Undergraduate, 2023 - 2024, 2022 - 2023  
Self tuning control systems, Doctorate, 2022 - 2023  
Professional English II, Undergraduate, 2022 - 2023, 2021 - 2022  
Mesleki İngilizce II, Undergraduate, 2022 - 2023, 2021 - 2022  
Chemical Engineering Lab II, Undergraduate, 2022 - 2023  
KYM454 Kimya Müh Lab III, Undergraduate, 2022 - 2023, 2021 - 2022  
Kendinden Ayarlamalı Kontrol Sistemleri, Doctorate, 2022 - 2023, 2021 - 2022

## Advising Theses

Hapoğlu H., Bir polistiren polimerizasyon reaktörünün sıcaklık kontrolü için farklı sayıda parametre içeren ayrık zamanlı kontrolörler, Postgraduate, İ.KARATAŞ(Student), 2022  
HAPOĞLU H., Comparison of evaluation with water quality indexes in Fethiye bay, Postgraduate, M.KAÇAN(Student), 2020  
HAPOĞLU H., Household and industrial wastewaters treatment by means of combined electrocoagulation and electro-oxidation processes, Doctorate, B.ÖZYURT(Student), 2019  
HAPOĞLU H., Boron removal from wastewater by sequential chemical and electrochemical method, Postgraduate, Ç.ATEŞ(Student), 2018  
HAPOĞLU H., Kağıt endüstrisi atksularının elektrokimyasal yöntemle arıtılması, Doctorate, Ş.CAMCIOĞLU(Student), 2016  
HAPOĞLU H., Çok girdili-çok çıktılı kontrolün ekme mayası üretimine uygulanması, Doctorate, H.BOYACIOĞLU(Student), 2013  
HAPOĞLU H., Petrokimyasal atksuların elektrokimyasal yöntemle arıtılması, Doctorate, S.OLANIPEKUN(Student), 2013  
HAPOĞLU H., Peynir yapım tesislerinden alınan atık suyu biyolojik işlemden geçirme, Doctorate, S.ALTUNTAŞ(Student), 2012  
HAPOĞLU H., Su bazlı boya üretim tesislerinin atık sularının arıtılmasında genelleştirilmiş minimum değişmeli (GMV) algoritma ile pH kontrolü, Postgraduate, Ş.CAMCIOĞLU(Student), 2010  
HAPOĞLU H., Sürekli karıştırmalı reaktörde fuzzy kontrolün sabunlaşma reaksiyonuna uygulanması, Postgraduate, F.KILIÇ(Student), 2007  
HAPOĞLU H., SÜREKLİ KARIŞTIRMALI REAKTÖRDE FUZZY KONTROLÜN SABUNLAŞMA REAKSİYONUNA UYGULANMASI, F.KILIÇ(Student), 2007  
HAPOĞLU H., Beyaz kutu modeli kullanan doğrusal olmayan kendinden ayarlamalı PID kontrol algoritmasının bir nötralizasyon prosesine uygulanması, Postgraduate, Y.DURAK(Student), 2005  
HAPOĞLU H., Self-tuning PID kontrolün bir nötralizasyon prosesine uygulanması, Postgraduate, S.ALTUNTAŞ(Student), 2002  
HAPOĞLU H., Doğrusal olmayan kendinden ayarlamalı PID kontrol edicisinin bir dolgulu damıtma kolonuna uygulanması, Postgraduate, F.MÜGE(Student), 2002  
HAPOĞLU H., Kesikli biyoreaktörde çözünmüş oksijen derişiminin genelleştirilmiş minimum varyans kontrolü, Postgraduate, H.BOYACIOĞLU(Student), 2002  
HAPOĞLU H., Kireçtaşının sülfirik asitle nötralizasyonunun dinamik analizi ve pH kontrolü, Postgraduate, G.TEZCAN(Student), 2001  
HAPOĞLU H., Bir polimerizasyon reaktöründe optimal sıcaklığın deadbeat kontrolü, Postgraduate, M.BALIKHANI(Student), 2001

HAPOĞLU H., Doğrusal olmayan geliştirilmiş tahmin edici kontrol stratejilerinin bir borusal akış reaktörüne uygulanması ve optimum parametrelerin bulunması, Postgraduate, B.KIZILAY(Student), 1999

HAPOĞLU H., Geliştirilmiş minimum değişmeli kontrol stratejilerinin bir borusal akış reaktörüne uygulanması ve optimum parametrelerinin bulunması, Postgraduate, Ç.GÜRESİNLİ(Student), 1998

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

- I. **Combined statistical analysis of water quality for determination of relationships between parameters: case study of Akkopru Stream, Van/Turkey**  
Turan A., Aldemir A., HAPOĞLU H.  
DESALINATION AND WATER TREATMENT, vol.247, pp.244-257, 2022 (SCI-Expanded)
- II. **Treatment of sunflower oil industry wastewater by coagulation-flocculation and electro-Fenton methods**  
ÖZYURT B., CAMCIOĞLU Ş., Karatokus T., Yuksek C., HAPOĞLU H.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.36, no.1, pp.275-290, 2021 (SCI-Expanded)
- III. **Boron removal from industrial wastewaters by means of optimized sequential chemical precipitation and coagulation processes**  
Özyurt B., Camcioğlu Ş., Firtin M., Ates C., Hapoğlu H.  
DESALINATION AND WATER TREATMENT, vol.172, pp.292-300, 2019 (SCI-Expanded)
- IV. **Evaluation of electro-Fenton method on cheese whey treatment: optimization through response surface methodology**  
Camcioglu Ş., Özyurt B., Sengul S., Hapoglu H.  
DESALINATION AND WATER TREATMENT, vol.172, pp.270-280, 2019 (SCI-Expanded)
- V. **Discrete-time controllers for temperature control of a polystyrene polymerization reactor**  
Hapoglu H., Ozkan G., Altuntas S.  
JOURNAL OF THE INDIAN CHEMICAL SOCIETY, vol.96, no.9, pp.1227-1232, 2019 (SCI-Expanded)
- VI. **Real-time experimental generalized minimum variance control of operating parameters in an electrocoagulation process**  
CAMCIOĞLU Ş., ÖZYURT B., HAPOĞLU H.  
DESALINATION AND WATER TREATMENT, vol.139, pp.305-318, 2019 (SCI-Expanded)
- VII. **Distributed Wireless Liquid Level Control of a Process Simulator Over a Network**  
Bayram I., HAPOĞLU H., Aldemir A.  
WIRELESS PERSONAL COMMUNICATIONS, vol.101, no.1, pp.41-58, 2018 (SCI-Expanded)
- VIII. **Two Time Steps Predictive Control Application to a Bioprocess Simulator**  
Altuntas S., HAPOĞLU H.  
INTERNATIONAL JOURNAL OF FOOD ENGINEERING, vol.14, no.2, 2018 (SCI-Expanded)
- IX. **Enclosed coastal waters quality monitoring with bacterial indicator phase-plane analysis**  
HAPOĞLU H., CAMCIOĞLU Ş., ÖZYURT B., YILDIRIM P., Yilmaz N., BALAS L.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.33, no.4, pp.1419-1431, 2018 (SCI-Expanded)
- X. **Application of response surface methodology as a new PID tuning method in an electrocoagulation process control case**  
Camcioglu Ş., ÖZYURT B., Dogan I. C., Hapoglu H.  
WATER SCIENCE AND TECHNOLOGY, vol.76, no.12, pp.3410-3427, 2017 (SCI-Expanded)
- XI. **A consecutive electrocoagulation and electro-oxidation treatment for pulp and paper mill wastewater**  
ÖZYURT B., CAMCIOĞLU Ş., HAPOĞLU H.  
DESALINATION AND WATER TREATMENT, vol.93, pp.214-228, 2017 (SCI-Expanded)
- XII. **Effect of process control on optimization of pulp and paper mill wastewater treatment by**

**electrocoagulation**

CAMCIOĞLU Ş., ÖZYURT B., HAPOĞLU H.

PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.111, pp.300-319, 2017 (SCI-Expanded)

- XIII. **MIMO control application for pulp and paper mill wastewater treatment by electrocoagulation**  
CAMCIOĞLU Ş., ÖZYURT B., HAPOĞLU H.  
DESALINATION AND WATER TREATMENT, vol.93, pp.200-213, 2017 (SCI-Expanded)
- XIV. **Experimental Self-Tuning Proportional Integral Derivative pH Control: Application to a Bioprocess**  
Altuntas S., Hapoglu H., Ertunc S., Alpbaz M.  
ACTA PHYSICA POLONICA A, vol.132, no.3, pp.1006-1009, 2017 (SCI-Expanded)
- XV. **Experimental pH advance control of the cheese whey batch kefir-type drink production with manipulated base flowrate**  
Altuntas S., HAPOĞLU H., ERTUNÇ S., Alpbaz M.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, no.3, pp.710-717, 2016 (SCI-Expanded)
- XVI. **Experimental application of one step ahead advanced pH control to water-based paint wastewater treatment**  
CAMCIOĞLU Ş., ÖZYURT B., ZEYBEK Z., HAPOĞLU H.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.31, no.3, pp.656-665, 2016 (SCI-Expanded)
- XVII. **Control of adiabatic continuous stirred tank reactor at an unstable operating point**  
Altuntas S., Hapoglu H.  
BULGARIAN CHEMICAL COMMUNICATIONS, vol.48, pp.14-19, 2016 (SCI-Expanded)
- XVIII. **The Effect of Temperature, pH and SO<sub>2</sub> on Ethanol Concentration and Sugar Consumption Rate (SCR) in Apple Wine Process**  
Bozoglu M. D., ERTUNÇ S., AKAY B., Bursali N., VURAL N., HAPOĞLU H., DEMİRCİ Y.  
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.37, no.3, pp.431-439, 2015 (SCI-Expanded)
- XIX. **Application of pH control to a tubular flow reactor**  
Vural I. H., Altınten A., Hapoglu H., Erdogan S., Alpbaz M.  
CHINESE JOURNAL OF CHEMICAL ENGINEERING, vol.23, no.1, pp.154-161, 2015 (SCI-Expanded)
- XX. **Self-Tuning GMV Control of Glucose Concentration in Fed-Batch Baker's Yeast Production**  
YILMAZER HİTİT Z., Boyacioglu H., ÖZYURT B., ERTUNÇ S., HAPOĞLU H., AKAY B.  
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.172, no.8, pp.3761-3775, 2014 (SCI-Expanded)
- XXI. **Biological hydrogen production: effects of inoculation and production media**  
ÖZYURT B., YILMAZER HİTİT Z., ERTUNÇ S., HAPOĞLU H., AKAY B., Demirtas G. F.  
INTERNATIONAL JOURNAL OF GLOBAL WARMING, vol.6, no.2-3, pp.350-365, 2014 (SCI-Expanded)
- XXII. **Fuzzy Control with Genetic Algorithm in a Batch Bioreactor**  
Ahioglu S., ALTINTEN A., ERTUNÇ S., Erdogan S., HAPOĞLU H.  
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.171, no.8, pp.2201-2219, 2013 (SCI-Expanded)
- XXIII. **APPLICATION OF TEMPERATURE CONTROL IN A BATCH POLYMERIZATION REACTOR AT DIFFERENT OPTIMAL TEMPERATURES**  
Cetinkaya S., DURMAZUÇAR H. H., ZEYBEK Z., HAPOĞLU H., Alpbaz M.  
JOURNAL OF THE FACULTY OF ENGINEERING AND ARCHITECTURE OF GAZI UNIVERSITY, vol.28, no.2, pp.383-392, 2013 (SCI-Expanded)
- XXIV. **Control of dissolved oxygen concentration using neural network in a batch bioreactor**  
Mete T., ÖZKAN G., HAPOĞLU H., Alpbaz M.  
COMPUTER APPLICATIONS IN ENGINEERING EDUCATION, vol.20, no.4, pp.619-628, 2012 (SCI-Expanded)
- XXV. **Fuzzy control of semi-batch polymerization reactor with genetic algorithm Yari-kesikli stiren polimerizasyon reaktörünün genetik algoritma ile bulanik kontrolu**  
ALTINTEN A., ALTINDAL Ş., Erdoğan S., HAPOĞLU H.  
Journal of the Faculty of Engineering and Architecture of Gazi University, vol.26, no.3, pp.613-621, 2011 (SCI-Expanded)

- XXVI. **Discrete system identification and self-tuning control of dissolved oxygen concentration in a stirred reactor**  
AKAY B., ERTUNÇ S., Boyacioglu H., HAPOĞLU H., Alpbaz M.  
Korean Journal of Chemical Engineering, vol.28, no.3, pp.837-847, 2011 (SCI-Expanded)
- XXVII. **Generalized minimum variance (GMV) control in waterborne wastewater treatment**  
Camcioğlu Ş., Zeybek Z., Hapoğlu H., Alpbaz M., Akpınar A.  
CHEMICAL ENGINEERING TRANSACTIONS, vol.21, pp.823-828, 2010 (SCI-Expanded)
- XXVIII. **Application of experimental non-linear control based on generic algorithm to a polymerization reactor**  
ÖZKAN G., Tekin O., HAPOĞLU H.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.26, no.5, pp.1201-1207, 2009 (SCI-Expanded)
- XXIX. **Self-tuning control of dissolved oxygen concentration in a batch bioreactor**  
ERTUNÇ S., AKAY B., Boyacioglu H., HAPOĞLU H.  
Food and Bioproducts Processing, vol.87, no.1, pp.46-55, 2009 (SCI-Expanded)
- XXX. **Self-tuning PID control of jacketed batch polystyrene reactor using genetic algorithm**  
ALTINTEN A., Ketevanlioglu F., Erdogan S., HAPOĞLU H., Alpbaz M.  
CHEMICAL ENGINEERING JOURNAL, vol.138, no.1-3, pp.490-497, 2008 (SCI-Expanded)
- XXXI. **Experimental application of linear/nonlinear dynamic matrix control to a reactor of limestone slurry titrated with sulfuric acid**  
Ozkan G., User A., Hapoglu H., Alpbaz M.  
CHEMICAL ENGINEERING JOURNAL, vol.137, no.2, pp.320-327, 2008 (SCI-Expanded)
- XXXII. **Application of adaptive heuristic criticism control (AHCC) to dye wastewater**  
Zeybek Z., Karapınar T., Alpbaz M., Hapoglu H.  
JOURNAL OF ENVIRONMENTAL MANAGEMENT, vol.84, no.4, pp.461-472, 2007 (SCI-Expanded)
- XXXIII. **Multivariable system identification and generic model control of a laboratory scale packed distillation column**  
Karacan S., Hapoglu H., Alpbaz M.  
APPLIED THERMAL ENGINEERING, vol.27, no.5-6, pp.1017-1028, 2007 (SCI-Expanded)
- XXXIV. **Application of fuzzy control method with genetic algorithm to a polymerization reactor at constant set point**  
ALTINTEN A., Erdogan S., Hapoglu H., Aliev F., Alpbaz M.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.84, no.A11, pp.1012-1018, 2006 (SCI-Expanded)
- XXXV. **Generalized delta rule (GDR) algorithm with generalized predictive control (GPC) for optimum temperature tracking of batch polymerization**  
Zeybek Z., Cetinkaya S., Hapoglu H., Alpbaz M.  
CHEMICAL ENGINEERING SCIENCE, vol.61, no.20, pp.6691-6700, 2006 (SCI-Expanded)
- XXXVI. **Optimal temperature control in a batch polymerization reactor using fuzzy-relational models-dynamics matrix control**  
Cetinkaya S., Zeybek Z., Hapoglu H., Alpbaz M.  
COMPUTERS & CHEMICAL ENGINEERING, vol.30, no.9, pp.1315-1323, 2006 (SCI-Expanded)
- XXXVII. **Non-linear generalised predictive control of a jacketed well mixed tank as applied to a batch process - A polymerisation reaction**  
Ozkan G., Hapoglu H., Alpbaz M.  
APPLIED THERMAL ENGINEERING, vol.26, no.7, pp.720-726, 2006 (SCI-Expanded)
- XXXVIII. **Application of self-tuning PID control to a reactor of limestone slurry titrated with sulfuric acid**  
Alpbaz M., Hapoglu H., Ozkan G., Altuntas S.  
CHEMICAL ENGINEERING JOURNAL, vol.116, no.1, pp.19-24, 2006 (SCI-Expanded)
- XXXIX. **Application of multivariable nonlinear adaptive generic model control to a packed distillation column**  
Karacan S., Moslempour Z., Hapoglu H., Alpbaz M.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.193, no.12, pp.1635-1659, 2006 (SCI-Expanded)

- XL. A new computer algorithm approach to identification of continuous-time batch bioreactor model parameters**  
Ertunc S., Akay B., Hapoglu H., Alpbaz M.  
COMPUTATIONAL SCIENCE - ICCS 2005, PT 1, PROCEEDINGS, vol.3514, pp.147-154, 2005 (SCI-Expanded)
- XLI. Experimental application of generalized predictive control of the temperature in a polystyrene polymerization reactor**  
Alpbaz M., Hapoglu H., Ozkan G.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.191, no.9, pp.1173-1184, 2004 (SCI-Expanded)
- XLII. Application of adaptive PID control with genetic algorithm to a polymerization reactor**  
ALTINTEN A., Erdogan S., Alioglu F., Hapoglu H., Alpbaz M.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.191, no.9, pp.1158-1172, 2004 (SCI-Expanded)
- XLIII. Adaptive heuristic temperature control of a batch polymerisation reactor**  
Zeybek Z., Yuce S., Hapoglu H., Alpbaz M.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.43, no.7, pp.911-920, 2004 (SCI-Expanded)
- XLIV. Generalized minimum variance control of growth medium temperature of Baker's yeast production**  
Ertunc S., Akay B., Bursali N., Hapoglu H., Alpbaz M.  
FOOD AND BIOPRODUCTS PROCESSING, vol.81, no.C4, pp.327-335, 2003 (SCI-Expanded)
- XLV. Control of a polymerization reactor by fuzzy control method with genetic algorithm**  
ALTINTEN A., Erdogan S., Hapoglu H., Alpbaz M.  
COMPUTERS & CHEMICAL ENGINEERING, vol.27, no.7, pp.1031-1040, 2003 (SCI-Expanded)
- XLVI. Control and dynamic analysis of a packed distillation column based on modeling approaches**  
Alpbaz M., Karacan S., Cabbar Y., Hapoglu H.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.190, no.5-8, pp.705-725, 2003 (SCI-Expanded)
- XLVII. Application of generalized predictive control to baker's yeast production**  
Akay B., Ertunc S., Bursali N., Hapoglu H., Alpbaz M.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.190, no.5-8, pp.999-1017, 2003 (SCI-Expanded)
- XLVIII. Nonlinear long range predictive control of an openloop unstable reactor**  
Hapoglu H.  
COMPUTERS & CHEMICAL ENGINEERING, vol.26, no.10, pp.1427-1436, 2002 (SCI-Expanded)
- XLIX. Application of model predictive control and dynamic analysis to a pilot distillation column and experimental verification**  
Alpbaz M., Karacan S., Cabbar Y., Hapoglu H.  
CHEMICAL ENGINEERING JOURNAL, vol.88, no.1-3, pp.163-174, 2002 (SCI-Expanded)
- L. Adaptive control of *S.cerevisiae* production**  
Akay B., Ertunc S., Kahvecioglu A., Hapoglu H., Alpbaz M.  
FOOD AND BIOPRODUCTS PROCESSING, vol.80, no.C1, pp.28-38, 2002 (SCI-Expanded)
- LI. Application of optimal adaptive generalized predictive control to a packed distillation column**  
Karacan S., Hapoglu H., Alpbaz M.  
CHEMICAL ENGINEERING JOURNAL, vol.84, no.3, pp.389-396, 2001 (SCI-Expanded)
- LII. The effect of the tuning parameters on the performance of the parametric and nonparametric model based control methods for growth medium temperature of baker's yeast production**  
Bursali N., Ertunc S., Akay B., Pamuk V., Hapoglu H., Alpbaz M.  
FOOD AND BIOPRODUCTS PROCESSING, vol.79, no.C4, pp.242-249, 2001 (SCI-Expanded)
- LIII. Parametric and nonparametric model based control of a packed distillation column**  
Hapoglu H., Karacan S., Koca Z., Alpbaz M.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.40, no.6, pp.537-544, 2001 (SCI-Expanded)
- LIV. Nonlinear control of polymerization reactor**  
Ozkan G., Ozen S., Erdogan S., Hapoglu H., Alpbaz M.  
COMPUTERS & CHEMICAL ENGINEERING, vol.25, no.4-6, pp.757-763, 2001 (SCI-Expanded)

- LV. New tuning method for generalized predictive control of the production of S-cerevisiae**  
Bursali N., Akay B., Ertunc S., Hapoglu H., Alpbaz M.  
FOOD AND BIOPRODUCTS PROCESSING, vol.79, no.C1, pp.27-34, 2001 (SCI-Expanded)
- LVI. Generalized minimum variance control of optimal temperature profiles in a polystyrene polymerization reactor**  
Karagoz A., Hapoglu H., Alpbaz M.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.39, no.3, pp.253-262, 2000 (SCI-Expanded)
- LVII. Optimal temperature control in a batch polymerization reactor using nonlinear generalized predictive control**  
Hapoglu H., Ozkan G., Alpbaz M.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.183, pp.155-185, 2000 (SCI-Expanded)
- LVIII. Application of multivariable generalized predictive control to a packed distillation column**  
Hapoglu H., Karacan S., Cabbar Y., BALAS C. E., Alpbaz M.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.174, pp.61-84, 1999 (SCI-Expanded)
- LIX. The steady-state and dynamic analysis of packed distillation column based on partial differential approach**  
Karacan S., Cabbar Y., Alpbaz M., Hapoglu H.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.37, no.5, pp.379-388, 1998 (SCI-Expanded)
- LX. Generalized predictive control of optimal temperature profiles in a polystyrene polymerization reactor**  
Ozkan G., Hapoglu H., Alpbaz M.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.37, no.2, pp.125-139, 1998 (SCI-Expanded)
- LXI. Application of Nonlinear Generalised Minimum Variance control to a tubular flow reactor**  
Alpbaz M., Hapoglu H., Guresinli C.  
COMPUTERS & CHEMICAL ENGINEERING, vol.22, 1998 (SCI-Expanded)
- LXII. Identification and non linear pole placement self tuning PID control of a jacketed well mixed reactor**  
Ozkan G., Hapoglu H., Alpbaz M.  
CHEMICAL ENGINEERING COMMUNICATIONS, vol.170, pp.199-215, 1998 (SCI-Expanded)
- LXIII. Generalized Predictive Control to a packed distillation column for regulatory problems**  
Karacan S., Hapoglu H., Alpbaz M.  
COMPUTERS & CHEMICAL ENGINEERING, vol.22, 1998 (SCI-Expanded)
- LXIV. Pole placement self tuning control for packed distillation column**  
Karacan S., Hapoglu H., Cabbar Y., Alpbaz M.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.36, no.4, pp.309-315, 1997 (SCI-Expanded)
- LXV. Application of optimal adaptive control based on generalized minimum variance to a packed distillation column**  
Caglayan N., Karacan S., Hapoglu H., Alpbaz M.  
COMPUTERS & CHEMICAL ENGINEERING, vol.21, 1997 (SCI-Expanded)
- LXVI. ON THE SOLUTION OF MODELS OF BINARY AND MULTICOMPONENT PACKED DISTILLATION-COLUMNS USING ORTHOGONAL COLLOCATION ON FINITE-ELEMENTS**  
WARDLE A., HAPOGLU H.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.72, no.A4, pp.551-564, 1994 (SCI-Expanded)

## Articles Published in Other Journals

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### **Metrics**

Publication: 168

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### **Non Academic Experience**

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