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International Researcher IDs

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Education Information

Doctorate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği Anabilim Dalı, Turkey 1988 - 1992

Postgraduate, İstanbul Technical University, Fen Bilimleri Enstitüsü, Kimya Mühendisliği (Yl) (Tezli), Turkey 1985 - 1988

Undergraduate, İstanbul Technical University, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, Turkey 1980 - 1984

Foreign Languages

English

Research Areas

Chemical Engineering and Technology, Process and Reactor Design, Basic Operations and Thermodynamics

Academic Titles / Tasks

Associate Professor, İstanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 1994 - 2002

Assistant Professor, İstanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 1993 - 1994

Research Assistant, İstanbul Technical University, Kimya-Metalurji, Kimya Mühendisliği, 1985 - 1993

Academic and Administrative Experience

İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, 2010 - 2013

İstanbul Teknik Üniversitesi, Kimya-Metalurji Fakültesi, Kimya Mühendisliği Bölümü, 2008 - 2012

Published journal articles indexed by SCI, SSCI, and AHCI

I. Simulation of models for multifunctional photopolymerization kinetics

ÇİFTÇİOĞLU G. A., Erol Taygun M. M., Henderson C. L.

Polymer Engineering and Science, vol.54, no.8, pp.1737-1746, 2014 (SCI-Expanded)

II. Stochastic modeling and simulation of photopolymerization process

ÇİFTÇİOĞLU G. A., Erol Taygun M. M., Henderson C. L.

- Polymer Engineering and Science, vol.51, no.9, pp.1710-1719, 2011 (SCI-Expanded)
- III. **Influence of particle size on the crystallization kinetics of glasses produced from waste materials**
Erol M. M., KUCUKBAYRAK S., ERSOY-MERICBOYU A.
Journal of Non-Crystalline Solids, vol.357, no.1, pp.211-219, 2011 (SCI-Expanded)
- IV. **Adsorption of copper(II) ions onto hazelnut shell and apricot stone activated carbons**
ÖZÇİMEN D., Erol Taygun M. M.
Adsorption Science and Technology, vol.28, no.4, pp.327-340, 2010 (SCI-Expanded)
- V. **Characterization of biochar and bio-oil samples obtained from carbonization of various biomass materials**
Özçimen D., Erol Taygun M. M.
Renewable Energy, vol.35, no.6, pp.1319-1324, 2010 (SCI-Expanded)
- VI. **Removal of copper from aqueous solutions by adsorption onto chestnut shell and grapeseed activated carbons**
Özçimen D., Erol Taygun M. M.
Journal of Hazardous Materials, vol.168, no.2-3, pp.1118-1125, 2009 (SCI-Expanded)
- VII. **The influence of the binder on the properties of sintered glass-ceramics produced from industrial wastes**
Erol M. M., KUCUKBAYRAK S., ERSOY-MERICBOYU A.
Ceramics International, vol.35, no.7, pp.2609-2617, 2009 (SCI-Expanded)
- VIII. **The application of differential thermal analysis to the study of isothermal and non-isothermal crystallization kinetics of coal fly ash based glasses**
Erol M. M., KUCUKBAYRAK S., ERSOY-MERICBOYU A.
Journal of Non-Crystalline Solids, vol.355, no.9, pp.569-576, 2009 (SCI-Expanded)
- IX. **A study on the carbonization of grapeseed and chestnut shell**
Özçimen D., Erol Taygun M. M.
Fuel Processing Technology, vol.89, no.11, pp.1041-1046, 2008 (SCI-Expanded)
- X. **Characterization of sintered coal fly ashes**
Erol M. M., KUCUKBAYRAK S., ERSOY-MERICBOYU A.
Fuel, vol.87, no.7, pp.1334-1340, 2008 (SCI-Expanded)
- XI. **Comparison of the properties of glass, glass-ceramic and ceramic materials produced from coal fly ash**
Erol M. M., KUCUKBAYRAK S., ERSOY-MERICBOYU A.
Journal of Hazardous Materials, vol.153, no.1-2, pp.418-425, 2008 (SCI-Expanded)
- XII. **Production of glass-ceramics obtained from industrial wastes by means of controlled nucleation and crystallization**
Erol M. M., KUCUKBAYRAK S., ERSOY-MERICBOYU A.
Chemical Engineering Journal, vol.132, no.1-3, pp.335-343, 2007 (SCI-Expanded)
- XIII. **Characterization of coal fly ash for possible utilization in glass production**
Erol M. M., KUCUKBAYRAK S., ERSOY-MERICBOYU A.
Fuel, vol.86, no.5-6, pp.706-714, 2007 (SCI-Expanded)
- XIV. **The recycling of the coal fly ash in glass production**
Erol M. M., KUCUKBAYRAK S., ERSOY-MERICBOYU A.
Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, vol.41, no.9, pp.1921-1929, 2006 (SCI-Expanded)
- XV. **Effect of magnesium salts on the sulphation capacity of limestone slurry**
Ozyuguran A., ALTUN-CIFTCIOGLU G., KARATEPE N., ERSOY-MERICBOYU A.
Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, vol.41, no.9, pp.1955-1965, 2006 (SCI-Expanded)
- XVI. **Removal of Cu²⁺ and Pb²⁺ in aqueous solutions by fly ash**
Erol M. M., Kucukbayrak S., Ersoy-Mericboyu A., Ulubas T.
Energy Conversion and Management, vol.46, no.7-8, pp.1319-1331, 2005 (SCI-Expanded)

- XVII. **Preparation of diatomite/Ca(OH)2 sorbents and modelling their sulphation reaction**
Karatepe N., ERDOGAN N., ERSOY-MERICBOYU A., KUCUKBAYRAK S.
Chemical Engineering Science, vol.59, no.18, pp.3883-3889, 2004 (SCI-Expanded)
- XVIII. **Characterization investigations of glass-ceramics developed from Seyitömer thermal power plant fly ash**
Erol M., DEMIRLER U., KUCUKBAYRAK S., ERSOY-MERICBOYU A., Ovecoglu M. L.
Journal of the European Ceramic Society, vol.23, no.5, pp.757-763, 2003 (SCI-Expanded)
- XIX. **Combustion reactivity of different rank coals**
Haykiri-Acma H., Ersoy-Mericboyu A., Kucukbayrak S.
Energy Conversion and Management, vol.43, no.4, pp.459-465, 2002 (SCI-Expanded)
- XX. **Crystallization behaviour of glasses produced from fly ash**
Erol M., KUCUKBAYRAK S., ERSOY-MERICBOYU A., Ovecoglu M. L.
Journal of the European Ceramic Society, vol.21, no.16, pp.2835-2841, 2001 (SCI-Expanded)
- XXI. **Effect of mineral matter on the reactivity of lignite chars**
Açma H., Erol Taygun M. M., Erol Taygun M. M.
Energy Conversion and Management, vol.42, no.1, pp.11-20, 2001 (SCI-Expanded)
- XXII. **Effect of lignite properties on reactivity of lignite**
Kucukbayrak S., HAYKIRI-ACMA H., ERSOY-MERICBOYU A., Yaman S.
Energy Conversion and Management, vol.42, no.5, pp.613-626, 2001 (SCI-Expanded)
- XXIII. **Effect of demineralization on the reactivity of lignites**
Haykiri-Acma H., Ersoy-Mericboyu A., Kucukbayrak S.
Thermochimica Acta, vol.362, no.1-2, pp.131-135, 2000 (SCI-Expanded)
- XXIV. **Combustion characteristics of blends of lignite and bituminous coal with different binder materials**
Haykiri-Acma H., Ersoy-Mericboyu A., Kucukbayrak S.
Energy Sources, vol.22, no.4, pp.325-332, 2000 (SCI-Expanded)
- XXV. **Effect of mineral matter on the reactivity of lignite**
Haykiri-Acma H., Yavuz R., ERSOY-MERICBOYU A., KUCUKBAYRAK S.
Thermochimica Acta, vol.342, no.1-2, pp.79-84, 1999 (SCI-Expanded)
- XXVI. **Kinetic model for desulphurization at low temperatures using hydrated sorbent**
Karatepe N., ERSOY-MERICBOYU A., Yavuz R., KUCUKBAYRAK S.
Thermochimica Acta, vol.335, no.1-2, pp.127-134, 1999 (SCI-Expanded)
- XXVII. **Activation of ca(oh)2 using different siliceous materials**
Karatepe N., Ersoy-Mericboyu A., Kucukbayrak S.
Environmental Technology (United Kingdom), vol.20, no.4, pp.377-385, 1999 (SCI-Expanded)
- XXVIII. **Removal of sulphur dioxide from flue gases**
Ersoy-Mericboyu A.
Energy Sources, vol.21, no.7, pp.611-619, 1999 (SCI-Expanded)
- XXIX. **Regeneration of sulfated dolomite and limestone by reductive decomposition**
Ersoy-Mericboyu A., Karatepe N., Kucukbayrak S., Kafa S., Gursoy G.
Energy Sources, vol.21, no.7, pp.589-593, 1999 (SCI-Expanded)
- XXX. **Modeling of the isothermal sulphation reactions of natural sorbents**
Erol Taygun M. M., Erol Taygun M. M.
Thermochimica Acta, vol.319, no.1-2, pp.163-170, 1998 (SCI-Expanded)
- XXXI. **Determination of the reactivity of Ca(OH)2-fly ash sorbents for SO2 removal from flue gases**
Karatepe N., ERSOY-MERICBOYU A., DEMIRLER U., KUCUKBAYRAK S.
Thermochimica Acta, vol.319, no.1-2, pp.171-176, 1998 (SCI-Expanded)
- XXXII. **Analysis of four industrial coal-fired fluidized bed systems**
Karatepe N., HAYKIRIACMA H., ERSOYMERICBOYU A.
Energy Sources, vol.19, no.5, pp.433-444, 1997 (SCI-Expanded)
- XXXIII. **Kinetic analysis of non-isothermal calcination TG curves of natural Turkish dolomites**
Erol Taygun M. M., Erol Taygun M. M.

- Thermochimica Acta, vol.232, no.2, pp.225-232, 1994 (SCI-Expanded)
- XXXIV. SULFATION CAPACITIES OF NATURAL TURKISH LIMESTONES AND DOLOMITES**
- ERSOYMERICBOYU A., KUCUKBAYRAK S., Yaman S.
- ENVIRONMENTAL TECHNOLOGY, vol.14, no.8, pp.787-794, 1993 (SCI-Expanded)

Articles Published in Other Journals

- I. Carbonization behaviour of some Turkish lignites effect of mineral matter
SENTORUN C., ERSOYMERICBOYU A., KASO A., KUCUKBAYRAK S.
Erdoel & Kohle, Erdgas, Petrochemie, vol.48, no.1, pp.39-42, 1995 (Scopus)
- II. Effect of calcination conditions on the physical properties of sorbents used for sulfur dioxide removal
ERSOYMERICBOYU A., KUCUKBAYRAK S.
Energy Sources, vol.17, no.6, pp.641-653, 1995 (Scopus)
- III. Chemical coal desulphurization research in turkey
YAMAN S., ERSOYMERICHOU A., KUCUKBAYRAK S.
Fuel Science and Technology International, vol.13, no.1, pp.49-58, 1995 (Scopus)
- IV. Thermal decomposition kinetics of natural Turkish limestones under non-isothermal conditions
ERSOYMERICBOYU A., KUCUKBAYRAK S., YAVUZ R.
Thermochimica Acta, vol.223, no.C, pp.121-128, 1993 (Scopus)
- V. Evaluation of the kinetic parameters for the thermal decomposition of natural Turkish limestones from their thermogravimetric curves using a computer programme
Erosy-Mericboyu A., Kucukbayrak S., Durus B.
Journal of thermal analysis, vol.39, no.6, pp.707-714, 1993 (Scopus)
- VI. Investigation of the relation between chemical composition and ash fusion temperatures for some turkish lignites
Küçükbayrak S., Ersoy-Meriçboyu A., Açıma H., Güner H., Urkan K.
Fuel Science and Technology International, vol.11, no.9, pp.1231-1249, 1993 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. Using hydrated lime and dolomite for sulfur dioxide removal from flue gases
Özyağran A., Erol Taygun M. M.
20th International Congress of Chemical and Process Engineering, CHISA 2012 and 15th Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, PRES 2012, Prague, Czech Republic, 25 - 29 August 2012
- II. Effect of pressure and alkalinity on the reactivity of Ca(OH)₂-fly ash sorbents used for SO₂ removal
Yavuz N., Erol Taygun M. M., Erol Taygun M. M.
19th International Conference on Efficiency, Cost, Optimization, Simulation and Environmental Impact of Energy Systems, ECOS 2006, Aghia Pelagia, Crete, Greece, 12 - 14 July 2006, pp.1679-1684
- III. Characterization of fly ash-based glass-ceramic samples quenched in air followed by crystallization stage
Erol Taygun M. M., Küçükbayrak S., Ersoy-Meriçboyu A., Öveçoğlu M. L.
Proceedings of the 8th Conference and Exhibition of the European Ceramic Society, İstanbul, Turkey, 29 June - 03 July 2003, vol.264-268, pp.1931-1934

Supported Projects

Meriçboyu A., Project Supported by Higher Education Institutions, LEAD REMOVAL FROM AQUEOUS BY ADSORPTION ONTO ACTIVATED CARBON, 2011 - 2018

Meriçboyu A., Project Supported by Higher Education Institutions, Linyit ve Şeftali Çekirdeği Karışımlarının Termal Bozuma Davranımlarının İncelenmesi, 2016 - 2017

Meriçboyu A., Project Supported by Higher Education Institutions, Biyokütle Yarıkoku-Kömür Karışımlarının Yanma Davranımının İncelenmesi, 2011 - 2016

Meriçboyu A., Project Supported by Higher Education Institutions, Kömür-Biyokütle Karışımlarının Yanma Davranımının İncelenmesi, 2010 - 2016

Meriçboyu A., Project Supported by Higher Education Institutions, SULU ÇÖZELTİDEKİ KURŞUN VE BAKIR İYONLARININ BENTONİT İLE ADSORPSİYONU, 2010 - 2016

Meriçboyu A., Project Supported by Higher Education Institutions, Fındık Kabuğu ve Üzüm Çekirdeğinden Üretilen Aktif Karbonlar ile Kurşun İyonlarının Adsorpsiyonu, 2009 - 2010

Meriçboyu A., Project Supported by Higher Education Institutions, Biyoaktif Cam ve Biyoaktif Cam Seramiklerden İplant Üretimi, 2007 - 2010

Meriçboyu A., Project Supported by Higher Education Institutions, Çeşitli Biyokütle Kaynaklarının Karbonizasyon Davranımının İncelenmesi, 2006 - 2008

Meriçboyu A., Project Supported by Higher Education Institutions, Çeşitli Bitkisel Atıkların Pirolizi, 2004 - 2008

Meriçboyu A., Project Supported by Higher Education Institutions, Çeşitli Bitkisel Atıkların Karbonizasyonu, 2005 - 2006

Meriçboyu A., Project Supported by Higher Education Institutions, Kimya Mühendisliği Bölümü Araştırma Laboratuarlarında Sağlık ve Güvenlik Koşullarının Düzeltilmesi, 2003 - 2005

Meriçboyu A., Project Supported by Higher Education Institutions, Çeşitli Katkı Maddelerinin Yaşı Baca Gazı Desulfirizasyon Sistemine Etkileri, 2001 - 2005

Meriçboyu A., Project Supported by Higher Education Institutions, Trona'sının Farklı Sistemlerindeki Sülfatasyon Kapasitesinin Belirlenmesi, 2001 - 2005

Meriçboyu A., Project Supported by Higher Education Institutions, Sorbentlerin Isıl Bozunma Tepkime Kinetiğinin İncelenmesi, 1998 - 2001

Meriçboyu A., Project Supported by Higher Education Institutions, İnorganik Tuz Katkılı Ca(OH)2 Sorbentlerinin Sülfatasyonu, 2000 - 2000

Meriçboyu A., Project Supported by Higher Education Institutions, Kalsiyum Hidroksit'in Uçucu Kül İle Alkali Ortamda Hidrotasyon Yolu Aktiflenmesi, 1997 - 2000

Meriçboyu A., Project Supported by Higher Education Institutions, Alkali Ortamda Hidratlanarak Aktiflenmiş Uçucu Kül-Ca (OH)2 Sorrbentlerinin Sülfatasyonu, 1998 - 1999

Meriçboyu A., Project Supported by Higher Education Institutions, Kalsiyum Hidrooksit Hidratasyon Yoluyla Aktivasyonu, 1996 - 1997

Metrics

Publication: 91

Citation (WoS): 1411

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H-Index (WoS): 21

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