### Prof. ÇETİN HOŞTEN

#### **Personal Information**

Email: hosten@metu.edu.tr

Web: https://avesis.metu.edu.tr/hosten

#### **Education Information**

Doctorate, University of California, Berkeley, Engineering, Mineral Engineering, United States Of America 1977 - 1982 Postgraduate, Middle East Technical University, Faculty of Engineering, Maden Mühendisliği, Turkey 1973 - 1976 Undergraduate, Middle East Technical University, Faculty of Engineering, Maden Mühendisliği, Turkey 1968 - 1973

#### Foreign Languages

English, C1 Advanced

#### **Research Areas**

Technical Sciences, Mining Engineering and Technology, Ore-Dressing, Communition-Sizing-Classification, Benefication by Gravity, Dense-Medium, Magnetic and Electrostatic, Flotation and Flocculation, Dewatering, Process and Plant Design

#### **Academic Titles / Tasks**

Professor, Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 1973 - Continues

#### Academic and Administrative Experience

Middle East Technical University, Faculty of Engineering, Department of Mining Engineering, 1997 - 2000

#### **Advising Theses**

HOŞTEN Ç., The Influence of chemical pre-treatment on particle fracture pattern and mineral liberation, Doctorate, M.Camalan(Student), 2018

HOŞTEN Ç., Effect of soft fine particles on the kinetics and energetics of grinding hard coarse particles, Postgraduate, S.Yılmaz(Student), 2016

HOŞTEN Ç., Polyethylene oxide-induced flocculation of dolomite/clay/borax-containing suspensions, Doctorate, M.Çırak(Student), 2014

HOŞTEN Ç., Effect of carbonate alkalinity on the flocculation behavior of hematite, Postgraduate, M.Camalan(Student), 2012

HOŞTEN Ç., Investigation of the particle breakage parameters in locked-cycle ball milling, Doctorate, C.Acar(Student), 2012

HOŞTEN Ç., A comparative analysis of the recent cement grinding systems with particle-based influences on cement

properties, Postgraduate, B.Fidan(Student), 2011

HOŞTEN Ç., Flocculation behavior of two different clay samples from Kırka tincal deposit, Postgraduate,

M.Çırak(Student), 2010

HOŞTEN Ç., A parametric comparative study of electrocoagulation and coagulation of aqueous suspensions of kaolinite and quartz powders, Doctorate, M.Gülsün(Student), 2009

HOŞTEN Ç., An investigation of the principles of laboratory-scale particle-bed comminution, Postgraduate,

H.Cimilli(Student), 2008

HOŞTEN Ç., Determination of contact angles of powders by capillaric dewatering of filter cakes, Postgraduate,

Ö.Deniz(Student), 2005

HOŞTEN Ç., A computer simulator for ball mill grinding, Postgraduate, Y.Yeşilay(Student), 2004

HOŞTEN Ç., Breakage characteristics of cement components, Doctorate, Ç.Avşar(Student), 2003

HOŞTEN Ç., Reactivity of limestones of different sources for flue gas desulfurization application, Postgraduate,

M.Gülsün(Student), 2003

HOŞTEN Ç., The effects of hydrogenated tallow amine acetate on rutile and ilmenite surfaces, Doctorate,

M.Köse(Student), 2000

HOŞTEN Ç., Floatability and adsorption characteristics of zircon with sodium oleate, Doctorate, R.Aykul(Student), 2000

HOŞTEN Ç., Liberation and particle shape effects in interparticle breakage, Postgraduate, C.Özbay(Student), 1998

HOŞTEN Ç., Mathematical simulation for predicting the size distribution of pilot scale AG/SAG mill product., Postgraduate, N.Kalbitemiz(Student), 1998

HOŞTEN Ç., A comparison of grindability methods for cement clinker, Postgraduate, N.Hemmati(Student), 1995

HOŞTEN Ç., Split feed flotation of Zonguldak coal fines, Postgraduate, R.Aykul(Student), 1994

HOŞTEN Ç., Analysis of the constant pressure filtration and electrofiltration behavior of kaolin slurries, Doctorate, O.Şan(Student), 1991

 $HO\STEN\ \mathcal{G}., Influence\ of\ size\ reduction\ and\ frothers\ on\ the\ flotation\ of\ Kutlular\ pyritic\ copper\ ore,\ Postgraduate,$ 

A.Tezcan(Student), 1989

HOŞTEN Ç., Flotation concentration of Çayeli complex copper-zinc ore, Postgraduate, M.Köse(Student), 1988

HOŞTEN Ç., Beneficiation studies on the fine iron ore tailings of Divriği concentrator, Postgraduate, G.Başaran(Student), 1988

HOŞTEN Ç., Oil agglomeration benefication of Zonguldak coal fines, Postgraduate, Y.Uçbaş(Student), 1986

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

I. Assessment of grinding additives for promoting chromite liberation

CAMALAN M., HOŞTEN Ç.

MINERALS ENGINEERING, vol.136, pp.18-35, 2019 (SCI-Expanded)

II. Assessment of chromite liberation spectrum on microscopic images by means of a supervised image classification

Camalan M., Cavur M., Hosten C.

POWDER TECHNOLOGY, vol.322, pp.214-225, 2017 (SCI-Expanded)

III. Optimization of coagulation-flocculation process for treatment of a colloidal suspension containing dolomite/clay/borax

CIRAK M., Hosten C.

INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.159, pp.30-41, 2017 (SCI-Expanded)

IV. Characterization of clay rock samples of a borax ore in relation to their problematical flocculation behavior

ÇIRAK M., Hosten C.

POWDER TECHNOLOGY, vol.284, pp.452-458, 2015 (SCI-Expanded)

V. Ball-Mill Grinding Kinetics of Cement Clinker Comminuted in the High-Pressure Roll Mill Camalan M., Hosten C.

MINERAL PROCESSING AND EXTRACTIVE METALLURGY REVIEW, vol.36, no.5, pp.310-316, 2015 (SCI-Expanded)

VI. Grinding kinetics of steady-state feeds in locked-cycle dry ball milling

Acar C., Hosten C.

POWDER TECHNOLOGY, vol.249, pp.274-281, 2013 (SCI-Expanded)

VII. Flocculation behavior of clayey dolomites in borax solutions

Hosten C., Cirak M.

POWDER TECHNOLOGY, vol.235, pp.263-270, 2013 (SCI-Expanded)

VIII. An industrial comparative study of cement clinker grinding systems regarding the specific energy consumption and cement properties

Hosten C., Fidan B.

POWDER TECHNOLOGY, vol.221, pp.183-188, 2012 (SCI-Expanded)

IX. A comparative study of electrocoagulation and coagulation of aqueous suspensions of kaolinite powders

Kilic M. G., Hosten C.

JOURNAL OF HAZARDOUS MATERIALS, vol.176, pp.735-740, 2010 (SCI-Expanded)

X. A parametric comparative study of electrocoagulation and coagulation using ultrafine quartz suspensions

Kilic M. G., Hosten C., DEMİRCİ Ş.

JOURNAL OF HAZARDOUS MATERIALS, vol.171, pp.247-252, 2009 (SCI-Expanded)

XI. The effects of feed size distribution on confined-bed comminution of quartz and calcite in piston-die press

Hosten C., Cimilli H.

INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.91, pp.81-87, 2009 (SCI-Expanded)

XII. The bond work index of mixtures of ceramic raw materials

Ipek H., Ucbas Y., Hosten C.

MINERALS ENGINEERING, vol.18, no.9, pp.981-983, 2005 (SCI-Expanded)

XIII. An alternative solution to the grinding equation in cumulative size distribution form

Hosten C.

MINERALS ENGINEERING, vol.18, no.5, pp.489-493, 2005 (SCI-Expanded)

XIV. Ternary-mixture grinding of ceramic raw materials

Ipek H., Ucbas Y., Hosten C.

MINERALS ENGINEERING, vol.18, no.1, pp.45-49, 2005 (SCI-Expanded)

XV. Dry grinding kinetics of binary mixtures of ceramic raw materials by Bond milling

Ipek H., Ucbas Y., Yekeler M., Hosten C.

CERAMICS INTERNATIONAL, vol.31, no.8, pp.1065-1071, 2005 (SCI-Expanded)

XVI. Variation of back-calculated breakage rate parameters in Bond-mill grinding

Hosten C., Avsar C.

SCANDINAVIAN JOURNAL OF METALLURGY, vol.33, no.5, pp.286-293, 2004 (SCI-Expanded)

XVII. Reactivity of limestones from different sources in Turkey

Hosten C., Gulsun M.

MINERALS ENGINEERING, vol.17, no.1, pp.97-99, 2004 (SCI-Expanded)

XVIII. Investigation of the layering mechanism of agglomerate growth during drum pelletization

Sastry K., Dontula P., Hosten C.

POWDER TECHNOLOGY, vol.130, pp.231-237, 2003 (SCI-Expanded)

XIX. Fabrication of microporous ceramics from ceramic powders of quartz-natural zeolite mixtures San O., Abali S., Hosten C.

CERAMICS INTERNATIONAL, vol.29, no.8, pp.927-931, 2003 (SCI-Expanded)

XX. Filtration testing of a ceramic capillary filter produced from a high-silica glaze

San O., Hosten C.

MINERALS ENGINEERING, vol.15, no.7, pp.553-556, 2002 (SCI-Expanded)

XXI. Reassessment of correlations for the dewatering characteristics of filter cakes

Hosten C., San O.

MINERALS ENGINEERING, vol.15, no.5, pp.347-353, 2002 (SCI-Expanded)

XXII. Role of the clogging phenomena in erroneous implications of conventional data analysis for constant pressure cake filtration

Hosten C., San O.

SEPARATION SCIENCE AND TECHNOLOGY, vol.34, no.9, pp.1759-1772, 1999 (SCI-Expanded)

XXIII. A comparison of particle bed breakage and rod mill grinding with regard to mineral liberation and particle shape effects

Hosten C., Ozbay C.

MINERALS ENGINEERING, vol.11, no.9, pp.871-874, 1998 (SCI-Expanded)

XXIV. A preliminary study on split feed flotation of Turkish bituminous coal fines Hosten C., Muratoglu R.

FUEL, vol.75, no.6, pp.651-653, 1996 (SCI-Expanded)

XXV. CAKE FILTRATION-RATE EQUATIONS - A REVIEW OF CLASSICAL AND MODERN APPROACHES HOSTEN C.

MINERALS ENGINEERING, vol.6, no.7, pp.775-783, 1993 (SCI-Expanded)

XXVI. EMPIRICAL CORRELATIONS FOR THE PREDICTION OF CAKE DEWATERING CHARACTERISTICS HOSTEN C., SASTRY K.

MINERALS ENGINEERING, vol.2, no.1, pp.111-119, 1989 (SCI-Expanded)

### Refereed Congress / Symposium Publications in Proceedings

I. Linking impact-related progeny sizes of cement clinker to modes of single-particle breakage Camalan M., Hosten C.

Mineral Engineering Conference (MEC), Swieradow Zdroj, Poland, 25 - 28 September 2016, vol.8

# **Supported Projects**

HOŞTEN Ç., CAMALAN M., Project Supported by Higher Education Institutions, Kimyasal Ön Kondisyonlamanın Ufalama Sistemlerinde Mineral Serbestleşmesine ve Kırılma Moduna Olan Etkisi, 2017 - 2017

HOŞTEN Ç., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

HOŞTEN Ç., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2015

 $HO\STEN\ \zeta$ ., Project Supported by Higher Education Institutions, Tinkal Cevheri Kolloidal Atıklarının Flokülasyon Özellikleri, 2012 - 2012

### Metrics

Publication: 27

Citation (WoS): 328 Citation (Scopus): 293 H-Index (WoS): 12 H-Index (Scopus): 12