

## **Prof. MEFTUNİ YEKELER**

### **Personal Information**

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### **Education Information**

Under Graduate, Anadolu Üniversitesi, İktisat Fakültesi, Kamu Yönetimi Bölümü, Turkey 2011 - 2015

Doctorate, Colorado School Of Mines, Department Of Metallurgical And Materials Engineering (Extractive Metallurgy-Mineral Processing), United States Of America 1990 - 1993

Post Graduate, Pennsylvania State University, Department Of Minerals Engineering (Mineral Processing), United States Of America 1988 - 1990

Under Graduate, İstanbul Teknik Üniversitesi, Maden Fakültesi, Maden Mühendisliği Bölümü, Turkey 1981 - 1985

### **Research Areas**

Engineering and Technology

### **Academic Titles / Tasks**

Professor, Sivas Cumhuriyet Üniversitesi, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2003 - Continues

Associate Professor, Sivas Cumhuriyet Üniversitesi, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 1998 - 2003

Assistant Professor, Sivas Cumhuriyet University, Mühendislik Fakültesi, 1994 - 1998

### **Professional Experience**

Vice Rector, Sivas Bilim Ve Teknoloji Üniversitesi, Rektörlük, 2019 - Continues

Director of The Institution, Sivas Science And Technology University, Institute Of Graduate Programs, 2019 - 2019

Head of Department, Sivas Cumhuriyet Üniversitesi, Mühendislik Fakültesi, Maden Mühendisliği Bölümü, 2009 - 2012

Vice Rector, Sivas Cumhuriyet Üniversitesi, REKTÖRLÜK, Rektörlük Bölümü, 2008 - 2012

Director of Vocational School, Sivas Cumhuriyet Üniversitesi, Sivas Teknik Bilimler Meslek Yüksekokulu, 2004 - 2007

Head of Department, Sivas Cumhuriyet Üniversitesi, Mühendislik Fakültesi, Metalurji Ve Malzeme Mühendisliği Bölümü, 1994 - 1998

### **Courses**

Uzmanlık Alan Dersi, Doctorate, 2019 - 2020

İş Güvenliği ve Sağlığı, Under Graduate, 2018 - 2019

Uzmanlık Alan Dersi, Post Graduate, 2019 - 2020

Cevher Hazırlamada Yüzey Kimyası ve Uygulamaları, Post Graduate, 2019 - 2020

Uzmanlık Alan Dersi, Post Graduate, 2018 - 2019

Proses Mühendisliğinde Fizikokimyasal İşlemler, Post Graduate, 2019 - 2020

İleri Flotasyon ve Uygulamaları, Post Graduate, 2018 - 2019

İleri Boyut Küçültme ve Uygulamaları, Post Graduate, 2018 - 2019  
Endüstriyel Hammaddelerin Zenginleştirilmesi, Under Graduate, 2018 - 2019  
Seminer Dersi, Post Graduate, 2019 - 2020  
Cevher Hazırlama - III, Under Graduate, 2018 - 2019  
Ekonomi, Under Graduate, 2018 - 2019  
Mineral Sistemlerinde Arayüzey Olayları, Post Graduate, 2017 - 2018  
Partikül Teknolojisi, Post Graduate, 2018 - 2019  
Tez Çalışması, Post Graduate, 2017 - 2018  
Bilimsel Araştırma Yöntemleri ve Bilim Etiği, Post Graduate, 2016 - 2017  
Ekonomi, Under Graduate, 2017 - 2018  
Cevher Hazırlama - III, Under Graduate, 2017 - 2018  
Endüstriyel Hammaddelerin Zenginleştirilmesi, Under Graduate, 2016 - 2017  
Cevher Hazırlama, Under Graduate, 2014 - 2015  
Termodinamik, Under Graduate, 2009 - 2010  
Termodinamik, Under Graduate, 2009 - 2010  
Üretim Yönt. ve Organizasyonu, Associate Degree, 2007 - 2008  
Cevher Hazırlama III Laboratuvarı, Under Graduate, 2007 - 2008  
Kırma Taş Madencilği, Associate Degree, 2006 - 2007  
Mesleki İngilizce, Associate Degree, 2006 - 2007

## Advising Theses

YEKELER M., Kalkerin bilyalı ve çubuklu değirmenlerle öğütülmesiyle kırılma parametrelerinin belirlenmesi ve karşılaştırılması, Post Graduate, M.BAYKARA(Student), 2017  
YEKELER M., Linyit ve taşkömürlerinin bilyalı değirmenle öğütme parametrelerinin karşılaştırılması, Post Graduate, F.ERKIRELLİ(Student), 2015  
YEKELER M., Bazı bor minerallerinin bilyalı değirmende öğütme kinetiğinin incelenmesi, Post Graduate, D.ŞENOL(Student), 2011  
YEKELER M., Flotasyon performansına etki eden kinetik özellikler ile yüzebilirlik değişkenleri arasındaki ilişkinin araştırılması, Post Graduate, İ.TEKİNALP(Student), 2008  
YEKELER M., Oksitli kurşun-çinko cevherinin değişik reaktiflerle ve koşullarda flotasyon yöntemi ile zenginleştirilmesi, Post Graduate, N.ALPAĞ(Student), 2007  
YEKELER M., Farklı öğütme metodlarının kritik ıslanma yüzey gerilimine etkisi, Doctorate, U.ULUSOY(Student), 2003  
YEKELER M., Minerallerin kırılma özellikleri, ıslanma özelliklerinin belirlenmesi ve korelasyonu, Doctorate, A.ÖZKAN(Student), 2001  
YEKELER M., Kromitin değişik reaktiflerle öğütülmesinin incelenmesi, Post Graduate, İ.AKBABA(Student), 1999  
YEKELER M., Kollektörsüz kolonflotasyonunda hidrofobik fraksiyon ve tane boyutunun etkisi, Post Graduate, İ.SÖNMEZ(Student), 1996

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

- I. **Beneficiation of Oxidized Lead-Zinc Ores by Flotation Using Different Chemicals and Test Conditions**  
Mütevellioglu N., YEKELER M.  
Journal of Mining Science, vol.55, pp.327-332, 2019 (Journal Indexed in SCI)
- II. **Dynamic image analysis of calcite particles created by different mills**  
ULUSOY U., Yekeler M.  
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.133, pp.83-90, 2014 (Journal Indexed in SCI)
- III. **Correlation of the Particle Size Distribution Parameters with Sieving Rate Constant**  
Yekeler M., Ciftci M., Ulusoy U., Ozkan A.

- PARTICULATE SCIENCE AND TECHNOLOGY, vol.32, pp.118-122, 2014 (Journal Indexed in SCI)
- IV. **Critical oil-liquid interfacial tension for some oil-assisted fine particle processing methods**  
Duzyol S., Ozkan A., Yekeler M.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.398, pp.32-36, 2012 (Journal Indexed in SCI)
- V. **Kinetics of fine wet grinding of zeolite in a steel ball mill in comparison to dry grinding**  
Ozkan A., Yekeler M., Calkaya M.  
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.90, pp.67-73, 2009 (Journal Indexed in SCI)
- VI. **Combination of different size distributions for mineral particles by applying experimentally determined apparent mean shape factor**  
Ulusoy U., Gulsoy O. Y. , Aydogan N. A. , Yekeler M.  
PARTICULATE SCIENCE AND TECHNOLOGY, vol.26, pp.158-168, 2008 (Journal Indexed in SCI)
- VII. **Floatability of barite particles with different shape and roughness**  
Ulusoy U., Yekeler M.  
INDIAN JOURNAL OF CHEMICAL TECHNOLOGY, vol.14, pp.616-625, 2007 (Journal Indexed in SCI)
- VIII. **Combination of the particle size distributions of some industrial minerals measured by Andreasen pipette and sieving techniques**  
Ulusoy U., Yekeler M., Bicer C., Gulsoy Z.  
PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION, vol.23, pp.448-456, 2007 (Journal Indexed in SCI)
- IX. **Breakage and Morphological Parameters Determined by Laboratory Tests**  
Yekeler M.  
PARTICLE BREAKAGE, vol.12, pp.437-486, 2007 (Journal Indexed in SCI)
- X. **A density functional study on the efficiencies of 2-mercaptobenzoxazole and its derivatives as chelating agents in flotation processes**  
Yekeler M., Yekeler H.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.286, pp.121-125, 2006 (Journal Indexed in SCI)
- XI. **Predicting the efficiencies of 2-mercaptobenzothiazole collectors used as chelating agents in flotation processes: a density-functional study**  
Yekeler H., Yekeler M.  
JOURNAL OF MOLECULAR MODELING, vol.12, pp.763-768, 2006 (Journal Indexed in SCI)
- XII. **Response of rough and acute surfaces of pyrite with 3-D approach to the flotation**  
Hicyilmaz C., Ulusoy U., Bilgen S., Yekeler M., Akdogan G.  
JOURNAL OF MINING SCIENCE, vol.42, pp.393-402, 2006 (Journal Indexed in SCI)
- XIII. **Correlation of the surface roughness of some industrial minerals with their wettability parameters**  
Ulusoy U., Yekeler M.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.44, pp.557-565, 2005 (Journal Indexed in SCI)
- XIV. **Molecular modeling study on the relative stabilities of the flotation products for arsenic-containing minerals: dixanthogens and arsenic(III) xanthates**  
Yekeler M., Yekeler H.  
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.284, pp.694-697, 2005 (Journal Indexed in SCI)
- XV. **Critical solution surface tension for oil agglomeration**  
Ozkan A., Aydogan S., Yekeler M.  
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.76, pp.83-91, 2005 (Journal Indexed in SCI)
- XVI. **Flotation responses to the morphological properties of particles measured with three-dimensional approach**  
Hicyilmaz C., Ulusoy U., Bilgen S., Yekeler M.  
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.75, pp.229-236, 2005 (Journal Indexed in SCI)
- XVII. **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, pp.1065-1071, 2005 (Journal Indexed in SCI)
- XVIII. **Characterisation of surface roughness and wettability of salt-type minerals: calcite and barite**  
Yekeler M., Ulusoy U.  
TRANSACTIONS OF THE INSTITUTION OF MINING AND METALLURGY SECTION C-MINERAL PROCESSING AND EXTRACTIVE METALLURGY, vol.113, pp.145-152, 2004 (Journal Indexed in SCI)
- XIX. **Variation of critical surface tension for wetting of minerals with roughness determined by Surtronic 3(+) instrument**  
Ulusoy U., Yekeler M.  
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.74, pp.61-69, 2004 (Journal Indexed in SCI)
- XX. **Reactivities of some thiol collectors and their interactions with Ag (+1) ion by molecular modeling**  
Yekeler H., Yekeler M.  
APPLIED SURFACE SCIENCE, vol.236, pp.435-443, 2004 (Journal Indexed in SCI)
- XXI. **Role of shape properties of calcite and barite particles on apparent hydrophobicity**  
Ulusoy U., Hicyilmaz C., Yekeler M.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.43, pp.1047-1053, 2004 (Journal Indexed in SCI)
- XXII. **Coagulation and flocculation characteristics of celestite with different inorganic salts and polymers**  
Ozkan A., Yekeler M.  
CHEMICAL ENGINEERING AND PROCESSING-PROCESS INTENSIFICATION, vol.43, pp.873-879, 2004 (Journal Indexed in SCI)
- XXIII. **Effects of the shape properties of talc and quartz particles on the wettability based separation processes**  
Hicyilmaz C., Ulusoy U., Yekeler M.  
APPLIED SURFACE SCIENCE, vol.233, pp.204-212, 2004 (Journal Indexed in SCI)
- XXIV. **Shear flocculation of celestite with sodium oleate and tallow amine acetate: effects of cations**  
Ozkan A., Yekeler M.  
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.273, pp.170-174, 2004 (Journal Indexed in SCI)
- XXV. **Effect of particle shape and roughness of talc mineral ground by different mills on the wettability and floatability**  
Yekeler M., Ulusoy U., Hicyilmaz C.  
POWDER TECHNOLOGY, vol.140, pp.68-78, 2004 (Journal Indexed in SCI)
- XXVI. **Determination of the shape, morphological and wettability properties of quartz and their correlations**  
Ulusoy U., Yekeler M., Hicyilmaz C.  
MINERALS ENGINEERING, vol.16, pp.951-964, 2003 (Journal Indexed in SCI)
- XXVII. **Fine dry grinding of zeolite in a laboratory ball mill**  
Ozkan A., Yekeler M.  
PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION, vol.20, pp.276-282, 2003 (Journal Indexed in SCI)
- XXVIII. **Correlation of the breakage parameters with the critical surface tension for wetting of barite**  
Yekeler M., Ozkan A.  
POWDER TECHNOLOGY, vol.134, pp.108-116, 2003 (Journal Indexed in SCI)
- XXIX. **Breakage parameters of some minerals and coals ground in a laboratory size ceramic mill**  
Ozkan A., Yekeler M., Aydogan S.  
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.10, pp.269-276, 2003 (Journal Indexed in SCI)
- XXX. **A new microcolumn flotation cell for determining the wettability and floatability of minerals**  
Ozkan A., Yekeler M.  
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.261, pp.476-480, 2003 (Journal Indexed in SCI)
- XXXI. **Prediction of the wettability characteristics of some minerals from their breakage parameters**  
Yekeler M., Ozkan A.  
COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS, vol.214, pp.279-286, 2003

(Journal Indexed in SCI)

- XXXII. **Determination of the breakage and wetting parameters of calcite and their correlations**  
Yekeler M., Ozkan A.  
PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION, vol.19, pp.419-425, 2002 (Journal Indexed in SCI)
- XXXIII. **Kinetics of dry grinding of industrial minerals: calcite and barite**  
Teke E., Yekeler M., Ulusoy U., Canbazoglu A.  
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.67, pp.29-42, 2002 (Journal Indexed in SCI)
- XXXIV. **Relationship between the breakage and wetting characteristics of lignite**  
Yekeler M., Ozkan A.  
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.9, pp.383-389, 2002 (Journal Indexed in SCI)
- XXXV. **Kinetics of wet versus dry grinding of lignite by a porcelain mill**  
Ozkan A., Yekeler M.  
INDIAN JOURNAL OF ENGINEERING AND MATERIALS SCIENCES, vol.9, pp.181-186, 2002 (Journal Indexed in SCI)
- XXXVI. **Kinetics of fine wet grinding in a laboratory ball mill**  
Yekeler M., Ozkan A., Austin L.  
POWDER TECHNOLOGY, vol.114, pp.224-228, 2001 (Journal Indexed in SCI)
- XXXVII. **Effect of the hydrophobic fraction and particle size in the collectorless column flotation kinetics**  
Yekeler M., Sonmez I.  
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.121, pp.9-13, 1997 (Journal Indexed in SCI)
- XXXVIII. **THE KINETICS AND SHAPE FACTORS OF ULTRAFINE DRY GRINDING IN A LABORATORY TUMBLING BALL MILL**  
AUSTIN L., YEKELER M., DUMM T., HOGG R.  
PARTICLE & PARTICLE SYSTEMS CHARACTERIZATION, vol.7, pp.242-247, 1990 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Review on the Applications of Apparent Mean Shape Factor on the Integration of Coarse and Fine PSDs Measured by Different Techniques: Quartz Example**  
ULUSOY U., YEKELER M., GÜLSOY Ö. Y. , AYDOĞAN N. A. , Biçer C., Gülsoy Z.  
Current Works in Mineral Processing, vol.1, pp.30-42, 2019 (Refereed Journals of Other Institutions)
- II. **Kalsit mineralinin şekil pürüzlülük ve ıslanabilirliğinin karakterizasyonu**  
ULUSOY U., YEKELER M., CAHİT H.  
Madencilik, vol.43, pp.11-24, 2004 (Other Refereed National Journals)
- III. **Breakage parameters of chromite and simulation of the product-size distributions**  
YEKELER M., ULUSOY U., Akbaba I.  
Developments in Mineral Processing, vol.13, 2000 (Refereed Journals of Other Institutions)

## Books & Book Chapters

- I. **Fine Particle Technology and Characterization**  
Yekeler M. (Editor)  
Research Signpost, Kalol, 2008
- II. **Handbook of Powder Technology**  
Yekeler M.  
Elsevier Science, Oxford/Amsterdam , Amsterdam, 2007

## Refereed Congress / Symposium Publications in Proceedings

- I. **A review of shape characterization of ball milled particles by a new dynamic image analysis of lignite, hard coal and calcite**  
ULUSOY U., IGATHINATHANE C., YEKELER M.  
XV International Mineral Processing Symposium 2016, İstanbul, Turkey, 19 - 21 October 2016, pp.95-109
- II. **A new microscale flotation cell: Combination of Canadian column and Partridge-Smith cell**  
Ozkan A., Yekeler M.  
17th International Mining Congress and Exhibition of Turkey (IMCET 2001), Ankara, Turkey, 19 - 22 June 2001, pp.759-763
- III. **Breakage parameters of Chromite and simulation of the product size distributions**  
YEKELER M., ULUSOY U., AKBABA İ.  
XXI International Mineral Processing Congress, 23 - 27 July 2000, pp.16-21
- IV. **The effects of various surface-active agents on the breakage of calcite in a laboratory porcelain mill**  
Ozkan A., Yekeler M.  
8th International Mineral Processing Symposium (IMPS-2000), Antalya, Turkey, 16 - 18 October 2000, pp.71-74
- V. **İnce Boyutlu Kömürün Flotasyon Kinetiği**  
AKDEMİR Ü., SÖNMEZ İ., YEKELER M., CANBAZOĞLU M.  
Süleyman Demirel Üniversitesi 9. Mühendislik Sempozyumu, Turkey, 29 - 31 May 1996, pp.75-78
- VI. **Wettability characteristics of sparingly-soluble minerals: Fluorite, calcite and apatite**  
Yekeler M., YARAR B.  
6th International Mineral Processing Symposium, KUSADASI, Turkey, 24 - 26 September 1996, pp.203-207
- VII. **CORRELATION OF THE SURFACE-STRUCTURE AND CRITICAL SURFACE-TENSION OF WETTING OF MINERALS**  
YEKELER M., YARAR B.  
5th International Mineral Processing Symposium, CAPPADOCIA, Turkey, 6 - 08 September 1994, pp.97-103
- VIII. **THE KINETICS OF ULTRAFINE DRY GRINDING IN A LABORATORY TUMBLING BALL MILL**  
AUSTIN L., YEKELER M., HOGG R.  
2ND WORLD CONGRESS ON PARTICLE TECHNOLOGY, Kyoto, Japan, 19 - 22 September 1990

## Citations

Total Citations (WOS):738

h-index (WOS):16