

Ömer Işık ECE
Professor of Geology
Istanbul Technical University
Faculty of Mines
Department of Geological Sciences
Maslak 34469 Istanbul
TURKEY
CELL Phone: (+90) 0533-612-60-17
e-mail: ece@itu.edu.tr
omerisikece@gmail.com
<http://web.itu.edu.tr/~ece>



ADJUNCT PROFESSOR (2004 - no end date)
The University of Georgia
Department of Geology
Athens, GA 30602-2501
U.S.A.
Phone: (706) 542-2652 office
(706) 583-0458 laboratory
Fax : (706) 542-2425
e-mail: ece@uga.edu
<https://geology.uga.edu/directory/Adjunct-Faculty>

EDUCATION:

1985 Ph.D. Geology – University of Tulsa, U.S.A.
Dissertation: "Depositional Environment, Stratigraphy, Petrology, Paleogeography and Organic Thermal Maturation of the Desmoinesian Cyclothemic Excello Black Shale in Oklahoma, Kansas and Missouri" (Supervisor, John B. Comer)

1980 Graduate Studies – Geology - University of Texas at Dallas, U.S.A.
Research Topic: "Geology and Genesis of the Jurassic Massive Copperiferous Pyrite Deposits with the Ophiolite Complex, and Facies Analysis of Turbidite and Pelagic Sediments in the Black Sea of Turkey"

1978 M.A. – Geology – University of Texas at Austin, U.S.A.
Thesis: "Geochemistry and Mineralization of Sandstone-type Uranium Deposits in the Oakville Formation, South Texas" (Supervisor, Edward C. Jonas)

1972 M.Sc. – Mining Engineer – Istanbul Technical University, Türkiye
Thesis: "Mineral Processing of Fluorite Deposits in the Yozgat Region, Türkiye"

Honors: Fellowship Spring 1976 through Spring 1980 and Teaching Assistantship Spring 1982 through Spring 1984.

PROFESSIONAL EXPERIENCE:

- Sept. 2011 The University of Georgia, Athens, USA.
Dec. 2011 Department of Geology
ADJUNCT FACULTY. Research on $^{34}\text{S}/^{32}\text{S}$, $^{18}\text{O}/^{16}\text{O}$ and D/H isotope geochemistry, high-sulfidization systems, occurrence of alunite and kaolinite deposits in the Çan – Çanakkale region and FE-SEM, HR-TEM and EMPA studies.
- July 2010 The University of Georgia, Athens, USA.
August 2010 Department of Geology
ADJUNCT FACULTY. Research on high-sulfidization epithermal mineralizations, genesis of alunite and kaolinite deposits in tectonically active Simav Graben.
- January 2008 The University of Georgia, Athens, USA.
February 2008 Department of Geology
ADJUNCT FACULTY. Research on $^{34}\text{S}/^{32}\text{S}$, $^{18}\text{O}/^{16}\text{O}$ and D/H isotope geochemistry, FE-SEM studies, genesis of alunite and kaolinite deposits and mineralogical assemblages of hydrothermal alteration.
- May 2004 The University of Georgia, Athens, USA.
August 2004 Department of Geology
ADJUNCT FACULTY. Research on $^{34}\text{S}/^{32}\text{S}$, $^{18}\text{O}/^{16}\text{O}$ and D/H Isotope Geochemistry of alunite and halloysite deposits and K/Ar dating, FE-SEM and HR-TEM studies, Genesis of Clay Deposits, NW Turkey.
- June 2003 The University of Georgia, Athens, USA.
Sept 2003 Department of Geology
VISITING SCHOLAR. Research on Stable Isotope Geochemistry of Alunite-Kaolinite-Halloysite Deposits, REE Geochemistry, K/Ar Dating of Igneous Rocks, Genesis of Clay Deposits and Hydrothermal Alteration of Volcanic Rocks in NW Turkey.
- June 2002 The University of Georgia, Athens, USA.
Sept 2002 Department of Geology
VISITING SCHOLAR. Studies on NSF Grant No: (INT-0138023), USA - Turkey Cooperative Research Program: Hydrothermal Alteration and Genesis of Halloysite Deposits Along the Active Southern Segments of North Anatolian Fault Zone, NW Turkey.
- July 2000 Akita University, JAPAN.
April 2001 Research Institute of Materials and Resources.
VISITING SCIENTIST. Studies on disorder kaolinite and halloysite deposits, petrogenesis and alteration of calc-alkaline volcanic rocks, genesis of underclays, rock weathering. Rheological studies on organo-clay compounds. Research on bending strength of porcelains. REE's

geochemistry of sepiolite deposits from Miocene lacustrine environments, studies on the mineralogy and geochemistry of some bentonite deposits.

- Jan 1986
Present Istanbul Technical University, TURKEY.
PROFESSOR. Research interests are; X-ray diffraction, genesis and diagenesis of clay minerals, hydrothermal alteration, epithermal, mineralization, rock weathering, bentonite, kaolinite and sepiolite deposits, industrial raw-materials, low-temperature sedimentary geochemistry, stable isotope geochemistry, clastic depositional environments and Miocene lacustrine basins in Türkiye. I taught
Undergraduate Level: Physical Geology, Mineralogy, Crystallography, Optical Mineralogy, Igneous and Metamorphic Petrology;
Graduate Level: X-ray Clay Mineralogy, Sedimentology and Sedimentary Geochemistry courses.
- Jan 1976
Dec 1985 **GRADUATE STUDENT.** Studies on clastic depositional environments, basin analysis, well-log analysis, shale petrology, clay mineralogy, sandstone petrology, low-temperature geochemistry, water-rock interactions and petroleum geology. Did intensive world-wide research on various types of anoxic environments (organic matter-rich shales) and Pennsylvanian cyclothems in Midcontinent. Also, did research on organic geochemistry to examine thermal maturation history of the black shales. Studies hydrothermal ore deposits in the ophiolite complex, and facies analysis of flysch sedimentation and pelagic sediments in the Jurassic Paleo-Tethyan Ocean, Turkey.
Used the following instruments: Atomic Absorption, X-ray Diffraction, X-ray Fluorescence, FE-SEM-EDS, TEM and Electron Microprobe.
- Oct. 1983
Dec. 1985 Petroleum Abstracts, University of Tulsa, Oklahoma, USA.
GEOSCIENCES INFORMATION SPECIALIST. Evaluation of all kinds of earth science publications in the world, and indexing of the scientific articles for computer search.
- July 1980
August 1983 Borehole Exploration Company, Tulsa, Oklahoma, USA,
EXPLORATION GEOLOGIST. Conducted structural and stratigraphic studies and well-log interpretations in the Southern Anadarko Basin. Correlated aeromagnetic data with tectonic problems and geologic interpretations in the Arbuckle-Wichita region. Was responsible for new prospect generation.
- July 1972
Dec. 1975 Geoteknik Consulting Corp. Istanbul, TURKEY.
EXPLORATION GEOLOGIST. Directed operations in the field of water-well drilling, exploration and prospect generation about clay deposits in the southeastern oil fields in Turkey. Did field studies and mining operation on various industrial-raw materials. Left the company to complete M.S. & Ph.D. studies in the United States.

ADMINISTRATIVE EXPERIENCE:

1993 – 1996 Member of Faculty Organization Committee
2004 – 2008 Chair of Mineralogy and Petrography Division
2008 – 2010 Chairman of Department of Geological Sciences
TÜBİTAK Review Panel: Clay Science and Geology 2010

Convener & Organizer of International Conferences:

EUROCLAY 2011 EUROPEAN CLAY CONFERENCE 26 June – 01 July 2011
ANTALYA - TURKEY

PROFESSIONAL MEMBERSHIPS:

Member of The Clay Minerals Society
Active Member of the American Association of Petroleum Geologist
Member of the S.E.P.M.
Member of Association of International Medical Geology

SCIENCE CITATION INDEX:

Results Found: 44
Sum of the Times Cited: 897
Sum of Times Cited Without self-citations: 843
Citing Articles: 744
Citing Articles without Self-Citations: 718
Average Citations per Item: 21.07
h-index: 18

ResearchGate Score: 28.21
Total Research Interest: 948.8
Reads: 19,057
Research Items: 59
Citations: 1,359
Articles: 49

REFEREE in SCIENTIFIC JOURNALS:

Clays and Clay Minerals
Applied Clay Science
Journal of Turkish Earth Sciences
Neues Jahr. für Mineralogie – Monatshefte
Journal of Composite Materials
Journal of Asian Earth Sciences
Geological Journal
Clay Minerals
Journal of Structural Geology
Applied Geochemistry
Journal of Exploration Geochemistry
Journal of Asian Earth Sciences

EDITOR in JOURNALS

Turkish Journal of Earth Sciences (2012 – 2018)

PUBLICATIONS:

a) Articles Published in Refereed Journals:

Ercan, H.Ü., **Ece, Ö.I.**, Schroeder, P.A. and Gülmez, F. (2022) Characteristics and evolution of the Etili silica sinter epithermal deposits, Çanakkale-Turkey: Relation to alkali-chloride vs acid-sulphate fluids. Ore Geology Reviews (in press).

Ünlü, C.H., Turutoğlu, S.I., Galioğlu, O.A., **Ece, Ö.I.**, Güngör, N. (2021) Preparation and Characterization of PVA-Organoclay Nanocomposites Using Two Different Cationic Surfactants. Bulletin of Materials Science (in review).

Ercan, H.Ü., **Ece, Ö.I.**, Karacık, Z. and Schroeder, P.A. (2016) Differentiating styles of alteration within kaolin-alunite hydrothermal deposits, Çanakkale, Turkey. Clays and Clay Minerals, v.64, p.245-274.

Özdamar, Ş., **Ece, Ö.I.**, Uz, B., Boylu, F., Ercan, H.Ü. and Yanık, G. (2014) Element mobility during the formation of the Uzunisa-Ordu bentonite, NE Turkey, and potential applications. Clay Minerals, v.49, p.609-633.

Ece, Ö.I., Ekinci, B., Schroeder, P.A., Crowe, D. and Esenli, F. (2013) Origin of kaolin-alunite deposits in Simav Graben, Turkey: Timing styles of hydrothermal mineralization. Journal of Volcanology and Geothermal Research, v.255, p.57-78.

Çoban, H., Karacık, Z. and **Ece, Ö.I.** (2012) Source contamination and tectonomagmatic signals of overlapping Early to Middle Miocene orogenic magmas associated with shallow continental subduction and asthenospheric mantle flows in Western Anatolia: A record from Simav (Kütahya) region. Lithos, v.140-141, p. 119-141.

Seydibeyoğlu, M.Ö., İşçi, S., Güngör, N., **Ece, Ö.I.** and Güner, F.S. (2010) Preparation of polyurethane-hectorite, polyurethane-montmorillonite, and polyurethane-laponite nanocomposites without organic modifiers. Journal of Applied Polymer Science, v.116, p.832-837.

İşçi, S., Uslu, Y.O. and **Ece, Ö.I.** (2009) The Characterizations of Rheological, Electrokinetical and Structural properties of ODTABr/MMT and HDTABr/MMT Organoclays. Materials Characterization, v.60, p.432-436.

- Karacık, Z., Yılmaz, Y., Pearce, J.A. and **Ece, Ö.I.** (2008) Petrochemistry of the South Marmara Granotoids, Northwest Anatolia, Turkey. International Journal of Earth Sciences, v.97, p.1181-1200.
- Ece, Ö.I.**, Schroeder, P.A., Smilley, M.J. and Wampler, J.M. (2008) Acid-Sulphate Hydrothermal Alteration of Andesitic Tuffs and Genesis of Halloysite and Alunite Deposits in the Biga Peninsula, Turkey. Clay Minerals, v.43, p.155-189.
- İşçi, S., Günister, E., Alemdar, A., **Ece, Ö.I.** and Güngör, N. (2008) The Influence of DTABr Surfactant on the Electrokinetic and Rheological Properties of Soda-Activated Bentonite Dispersions. Materials Letters, v.62, p.81-84.
- Ece, Ö.I.** and Schroeder, P.A. (2007) Clay Mineralogy and Chemistry of the Halloysite and Alunite Deposits in the Turplu Area, Balıkesir, Turkey. Clays and Clay Minerals, v.55, p.18-36.
- İşçi, S., Alemdar, A., **Ece, Ö.I.** and Güngör, N. (2007) Influence of clay surface modification on morphology and rheology of Polyethylene glycol / montmorillonite nanocomposites. Journal of Composite Materials, v.41, no:12, p.1521-1533.
- Özdamar, Ş., **Ece, Ö.I.**, Kayacı, K. and Küçüker, A.Ş. (2007) Mineralogical and Technical Properties of Underclays in Şile Region, Istanbul, Turkey. Industrial Ceramics, v.27, p.1-11.
- Günister, E., Ünlü, C.H., Atıcı, O., **Ece, Ö.I.** and Güngör, N. (2007) Interactions of BDTDACl and DTABr Surfactants with Montmorillonite in Aqueous Systems. Journal of Composite Materials, v.41/2, p.153-164.
- Yürüdü, C., İşçi, S., Ünlü, C., Atıcı, O., **Ece, Ö.I.** and Güngör, N. (2006) Preparation and Characterization of PVA/OMMT Composites. Journal of Applied Polymer Science, v.102, p.2315-2323.
- Günister, E., İşçi, S., Öztekin, N., Erim, F.B., **Ece, Ö.I.** and Güngör, N. (2006) Effect of Cationic Surfactant Adsorption on the rheological and surface properties of bentonite dispersions. Journal of Colloid and Interface Science, v.303, p.137-141.
- İşçi, S., **Ece, Ö.I.** and Güngör, N. (2006) Characterization of Rheology, Electrokinetic Properties, and Surface Micromorphology of DTABr-MMT and CPBr-MMT Organoclays. Journal of Composite Materials, v.40, no:12, p.1105-1115.

- Günister, E., Güngör, N. and **Ece, Ö.I.** (2006) The Investigations of Influence of BDTDACI and DTABr Surfactants on Rheologic, Electrokinetic and XRD Properties of Na-activated Bentonite Dispersions. *Materials Letters*, v.60/5, p.666-673.
- Yürüdü, C., İşçi, S., Ünlü, C., Atıcı, O., **Ece, Ö.I.** and Güngör, N. (2005) Synthesis and characterization of HDA/NaMMT organoclay. *Bulletin of Materials Science*, v.28, p.622-628.
- Esenli, F., Uz, B., Suner, F., Esenli, V., **Ece, Ö.I.** and Kumbasar, I. (2005) Zeolitization of Tuffaceous Rocks in the Keşan Region, Thrace, Turkey. *Geologia Croatica*, v.58/2, p.151-161.
- Alemdar, A., Öztekin, F., Erim, N.B., **Ece, Ö.I.** and Güngör, N. (2005) Effects of polyethyleneimine adsorption on the rheology of bentonite suspensions. *Bulletin of Material Science*, v.28, p.287-291.
- İşçi, S., Güner, F.S., **Ece, Ö.I.** and Güngör, N. (2005) Investigation of Rheological and Colloidal Properties of the Bentonitic Clay Dispersion in the Presence of a Cationic Surfactant. *Progress for Organic Coatings*, v.54, p.28-33.
- Ece, Ö.I.**, Matsubaya, O. and Çoban, F. (2005) Occurrence and Geochemistry of Hydrothermal Stockwork-Type Magnesite Deposits Associated With Ophiolite Complexes in Kütahya - Eskişehir Region, Turkey. *Neues Jahrbuch für Mineralogie – Abhandlungen*, v.181, p.191-205.
- Andaç, Ö., Tatlıer, M., Sirkecioğlu, A., **Ece, Ö.I.** and Erdem-Şenatalar, A. (2005) Effects of Ultrasound on Zeolite-A Synthesis. *Microporous and Mezoporous Materials*, v.79, p.225-233.
- Alemdar, A., Güngör, N., **Ece, Ö.I.** and Atıcı, O. (2005) The Rheological Properties and Characterization of Bentonite Suspension in the Presence of Non-Ionic Polymer PEG. *Journal of Materials Science Letters*, v.40, p.171-177.
- Alemdar, A., Öztekin, F., Erim, N.B., **Ece, Ö.I.** and Güngör, N. (2005) Effects of Polyethyleneimine (PEI) Adsorption on the Rheological Properties of Purified Bentonite Suspensions. *Colloids and Surfaces, A: Physiochem. and Eng. Aspects*. v.252, p.95-98.
- İşçi, S., Günişter, E., **Ece, Ö.I.** and Güngör, N. (2004) The Modification of Rheologic Properties of Clays with PVA Effect. *Materials Letters*, v.58, p.1975-1978.
- Ece, Ö.I.**, Suner, F. and Çoban, F. (2003) An Approach to the Origin of Gypsum Series in Upper Miocene Succession, Eskişehir-Sivrihisar Lacustrine Basin, Turkey.

Neues Jahrbuch für Mineralogie – Monatshefte, v.11, p.481-502.

Ece, Ö.I., Nakagawa, Z. and Schroeder, P.A. (2003) Alteration of Volcanic Rocks and Genesis of Kaolin Deposits in Şile Region, Northern Istanbul, Turkey. Part – I. Clay Mineralogy. Clays and Clay Minerals, v.51, p.675-688.

Ece, Ö.I. and Nakagawa, Z. (2003) Alteration of Volcanic Rocks and Genesis of Kaolin Deposits in Şile Region, Northern Istanbul, Turkey. Part – II. Differential Mobility of Elements. Clay Minerals, v.38, p.529-550.

Suner, F., **Ece, Ö.I.**, Çoban, F. and Esenli, F. (2003) Occurrence and Properties of Natron in the Miocene Lacustrine Beypazarı Basin, Turkey. Neues Jahrbuch für Mineralogie – Monatshefte, v.1, p.31-48.

Çoban, F., **Ece, Ö.I.**, Yavuz, O. and Özdamar, S. (2002) Petrogenesis of Volcanic Rocks and, Clay Mineralogy and Genesis of Underclays, Şile Region, Turkey. Neues Jahrbuch für Mineralogie - Abhandlungen, v.178, p.1-25.

Ece, Ö.I., Alemdar, A., Güngör, N. and Hayashi, S. (2002) Influences of Nonionic Poly(ethylene glycol) Polymer PEG on Electrokinetic and Rheological Properties of Bentonite Suspensions. Journal of Applied Polymer Science, v.86/2, p.341-346.

Yalçın, T., Alemdar, A., **Ece, Ö.I.** and Güngör, N. (2002) The Viscosity and Zeta Potential of Bentonite Dispersions in Presence of Anionic Surfactants. Materials Letters, v.57, p.420-424.

Ece, Ö.I. and Nakagawa, Z. (2002) Bending Strength of Porcelains. Ceramics International. v.28, p.131-140.

Yalçın, T., Alemdar, A., **Ece, Ö.I.**, Güngör, N. and Çoban, F. (2002) By Particle Interactions and Rheological Properties of Bentonites + ALS Suspensions. Materials Letters. v.53, p.211-215.

Güngör, N., Alemdar, A., Atıcı, O. and **Ece, Ö.I.** (2001) The Effect of SDS Surfactant on the Flow and Zeta Potential of the Bentonite Suspensions. Materials Letters. v.51, p.250-254.

Ece, Ö.I., Çoban, F., Güngör, N. and Suner, F. (1999) Clay Mineralogy and Occurrence of Ferrian Smectites in Permo-Carboniferous Micaschist and Permo-Triassic Serpentinite Saprolites, Biga Peninsula, NW Türkiye. Clays and Clay Minerals. v.47/3, p.241-251.

- Güngör, N. and **Ece, Ö.I.** (1999) Effect of the Adsorption of Non-Ionic Polymer PVP on the Rheological Properties of Na-Activated Bentonite. *Materials Letters*. v.39, p.1-5.
- Çoban, F. and **Ece, Ö.I.** (1999) Fe³⁺-Rich Montmorillonite-Beidellite Series in Ayvacık Bentonite Deposit, Biga Peninsula, NW Turkey. *Clays and Clay Minerals*. v.47/2, p.165-173.
- Ece, Ö.I.**, Güngör, N. and Alemdar, A. (1999) Influences of Some Electrolytes, Polymers and Surfactant on Rheological Properties of Bentonite-Water Systems. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*. v.33, p.155-168.
- Ece, Ö.I.** (1998) Diagenetic Transformation of Magnesite Pebbles and Cobbles to Sepiolite (Meerschaum) in Eskişehir Lacustrine Basin, Türkiye. *Clays and Clay Minerals*, v.46/4, p.436-445.
- Güngör, N. and **Ece, Ö.I.** (1996) Influence of K⁺ and Mg⁺⁺ Ions on Flow Properties of Bentonite-Water Systems. *Bulletin of Istanbul Technical University*, v.49, no:3-4, p.351-363.
- Ece, Ö.I.** and Çoban, F. (1994) Geology, Occurrence, and Genesis of Eskişehir Sepiolites, Turkey. *Clays and Clay Minerals*, v.42, p.81-92.
- Çoban, F. and **Ece, Ö.I.** (1990) Başören (Kütahya) Bölgesindeki Bentonit Oluşumları Jeolojik Özellikleri ve Mineralojik İncelenmesi (Geological Features and Mineralogical Studies of the Bentonite Occurrences in the Başören Region, Kütahya). *Bulletin of Istanbul Technical University*, v.48, p.56-63.
- Ece, Ö.I.** (1990) Stratigraphy of the Tertiary Sedimentary Rocks in the Gemlik Region (Bursa). *Turkish Assoc. Petrol. Geol. Bull.* v.2/1, p.23-34.
- Ece, Ö.I.** (1990) Geochemistry and Occurrences of Authigenetic Phosphate Nodules From the Desmoinesian Cyclic Excello Epeiric Sea of the Midcontinent, USA. *Marine and Petroleum Geology*, v.7, p.298-312.
- Ece, Ö.I.** (1989) Organic Maturation, and Paleoceanography and Paleoenvironmental Implications of the Desmoinesian Cyclothemic Excello Black Shale in the Midcontinent, USA. *Shale Shaker (J. Oklahoma Geol. Survey)* March-April issue, v.39, p.90-104.
- Ece, Ö.I.** (1987) Petrology of the Excello Black Shale of Midcontinent of the United States. *Clays and Clay Minerals*, v.35, p.262-270.

Ece, Ö.I. (1987) Stratigraphy, Paleogeography and Depositional Environments of the Desmoinesian Cyclothemic Excello Black Shale in Oklahoma, Kansas and Missouri.
Marine and Petroleum Geology, v.4, p.243-254.

Ece, Ö.I. (1984) The Excello Shale of the Midcontinent. In, Upper Pennsylvanian Source Beds of Northeastern Oklahoma and Adjacent Kansas. (Edited by A.P. Bennison) Guidebook, Tulsa Geological Society Field Trip, p.50-54.

b) Other Refereed Contributions and Proceedings (papers in refereed academic conference presentations):

Ercan, H.Ü. and **Ece, Ö.I.** (2021) Experimental determination of the silica solubility of the basement rocks in the epithermal systems. 8th International Conference on Materials Science and nanotechnology For Next Generation (MSNG-2021). July 14-16, 2021, p.177.

Ece, Ö.I. and Ercan, H.Ü. (2015) Genetic Investigation and Comparison of Fossil Hamamtepe Silica Sinter Deposits and Active Silica Systems. International Congress for Applied Mineralogy, ICAM 2015, p.72.

Ercan, H.Ü., **Ece, Ö.I.** and Karacık, Z. (2013) Mineralogical and Geochemical Characterisation of Çan Volcanics and Related Kaolin Deposits, Çanakkale, Turkey. 13th International Scientific Geoconference SGEM 2013, Section Geology, Bulgaria, p.121-128.

Ercan, H.E., **Ece, Ö.I.** and Karacık, Z. (2012) Genesis, stable isotope and mineral characterisation of Sarıbeyli – Sığırlı and Bodurlar kaolin deposits, Çanakkale, Turkey. 15th National Clay Conference, Niğde – Turkey, p.3-16.

Ekinci, B., **Ece, Ö.I.**, Esenli, F. and Özdamar, Ş. (2009) Geological, Mineralogical and Geochemical Investigations of the Düvertepe District (Balıkesir) Kaolin (+/- Alünit) Occurrences. 14th National Clay Meeting, 1-3 October, Trabzon, Turkey, p.106-118.

Esenli, F., Uz, B., Suner, F., Esenli, V., **Ece, Ö.I.** and Kumbasar, I. (2002) The zeolitization of tuffaceous rocks in the Keşan Region, Thrace, Turkey. Zeolite '02, 6th Int. Conf. Occurrence, Properties and Utilization of natural Zeolites. Thessaloniki, Greece, June 3-7, 2002, p.90-91.

Ece, Ö.I. and Yüce, A.E. (1999) Bentonite. In, Industrial Raw Materials Handbook (Eds. by G. Önal et al.), Istanbul Association of Mineral Exporters, p.19-27.

- Ece, Ö.I.** and Yüce, A.E. (1999) Kaolin. In, Industrial Raw Materials Handbook (Eds. by G. Önal et al.), Istanbul Association of Mineral Exporters, p.77-83.
- Ece, Ö.I.**, Girgin,Ş. and Yüce, A.E. (1999) Illite İçeren Ticari Killer. In, Industrial Raw Materials Handbook (Eds. by G. Önal et al.), Istanbul Association of Mineral Exporters, p.73-76.
- Alemdar, A., Güngör, N. ve **Ece, Ö.I.** (1999) Aktifleştirilmiş Bentonit-Su Sisteminin Akışkanlığına PVA Polimerinin Etkisi. (The Effect of PVA on the Flow Behavior of the Activated Bentonite-Water System).
Kil '99, 9. Ulusal Kil Sempozyumu, 15-18 Eylül 1999, İstanbul, p.113-116.
- Alemdar, A., Güngör, N. ve **Ece, Ö.I.** (1998) Ca-Bentonitin Reolojik Yapısı Üzerine Praepagen Yüzey Aktifinin Etkisi. (The Influence of Praepagen Surface Activation Agent on the Rheologic Properties of Ca-Bentonites).
12. Ulusal Kimya Kongresi, 7-11 Eylül 1998, Edirne, p.311.
- Serpen, Ü., **Ece, Ö.I.**, Özkan, B. and Gök, İ.M. (1997) The Use of Loughlinite, Nontronite and Sepiolite Clay Minerals as Geothermal Drilling Mud Making Clay or Additives.
VIII. Ulusal Kil sempozyumu, 24-27 Sept. 1997, DPÜ, Kütahya. p.287-294.
- Güngör, N., **Ece, Ö.I.** and Alemdar, A. (1997) Influences of Some Electrolytes and Polymers on Rheological Properties of Natural and Peptized Bentonites.
VIII. Ulusal Kil Sempozyumu, 24-27 Sept. 1997, DPÜ, Kütahya. p.165-172.
- Ece, Ö.I.** and Çoban, F. (1997) Clay Mineralogy, Geology and Occurrence of Nontronite- Montmorillonite Series in Derbendbaşı Area, Ezine, Çanakkale.
VIII. Ulusal Kil Sempozyumu, 24-27 Sept. 1997, DPÜ, Kütahya. p.67-74.
- Ece, Ö.I.** and Serpen, Ü. (1995) Changes In The Structure of Sepiolite-Base Muds In High Temperature Wells.
Euroclay '95, Leuven, BELGIUM, August 20-25, 1995, p.359-360.
- Ünlü, N., Eruslu, N., **Ece, Ö.I.** and Çoban, F. (1993) Çankırı Bentonitlerinin Fiziksel Karakterizasyonu (Physical Characterization of the Çankırı Bentonites).
VI. Ulusal Kil Sempozyumu, 8-11 September 1993, Boğaziçi Üniversitesi, İstanbul, p.627-638.
- Ece, Ö.I.** and Çoban, F. (1993) Comparision of Hydrothermal Alteration of Two Different Parent Rocks For The Occurrence of Ca-Bentonite Deposits In The Western Turkey.
2nd International Meeting on Red Mediterranean Soils. 2-8 May 1993, Adana-TURKEY, p.91-93.

- Ece, Ö.I.** (1992) Hydrothermal Alteration of Miocene Pyroclastic Rocks And Occurrence of Bentonite Deposits Along to Fault Zones in The Çankırı Region, Turkey. Mediterranean Clay Meeting, M.C.M.'92, Sept. 27-30, 1992, Lipari-ITALY, p.60-61.
- Uz, B., Arıoğlu, E., Esenli, F., Manav, H., **Ece, Ö.I.** and Tokgöz, N. (1992) Geological, Mineralogical and Industrial Properties of Clay Deposits in The Şile Region, Turkey. Mediterranean Clay Meeting, M.C.M.'92, Sept.27-30, 1992, Lipari, ITALY, p.140-141.
- Uz, B., **Ece, Ö.I.** and Kaman, S. (1991) Low-Alkali Killerin Jeolojik Özellikleri ve Ekonomik Değerlendirilmesi, Ezine-Bayramiç-Çanakkale. (Geological Features and Economic Evaluation of Low-Alkaline Clays in the Ezine-Bayramiç, Çanakkale). V. Ulusal Kil Simpozyumu, Anadolu University, September 16-20, Eskişehir, TURKEY, p.18-32.
- Ece, Ö.I.** and Çoban, F. (1991) Sepiolite Nodules and Beds in the Middle-Upper Miocene Rocks of the Eskişehir Lacustrine Basin, Turkey. 7th Euroclay Conference, August 26-30, Dressden, GERMANY, p.299-304.
- Uz, B., **Ece, Ö.I.**, Çoban, F. and Kaman, S. (1991) Origin and Significance of Low-Alkaline Clays in the Ezine-Bayramiç Region, Çanakkale, Turkey. 7th Euroclay Conference, August 26-30, Dressden, GERMANY, p.1121-1226.
- Çoban, F. and **Ece, Ö.I.** (1990) Eskişehir bölgesindeki tabakalı ve yumrulu sepiyolit yataklarının oluşumu. Eskişehir III. Uluslararası Lületaş "Beyaz Altın" Festivali, Beyaz Altın Kongre Kitabı, sayfa 6-11, Eskişehir.
- Ece, Ö.I.** and Çoban, F. (1990) Origin and Significance of the Sepiolite Beds and Nodules in the Miocene Lacustrine Eskişehir Basin, Turkey. International Earth Sciences Congress on Aegean Region, 1-6 October, Izmir, TURKEY. Proceedings of IESCA-1990, M.Y. Savaşın and A.H. Eronat (eds.), v.1, p.234-245.

c) Abstracts:

- Ercan, H.Ü., **Ece, Ö.I.**, Schroeder, P.A. and Gülmez, F. (2022) Fossilised silica sinter features of the Etili altered zone (Oligo-Miocene), Turkey: Characteristics and formation model. **EGU 22**, Vienna, Austria, 3-8 April 2022.
- Ercan, H.Ü. and **Ece, Ö.I.** (2021) Lithofacies characteristics of sinter deposits in the Etili Region (Çanakkale – Turkey). Sedimentology Working Group Workshop 2020, Sept. 2 – 5, 2021 Balıkesir, Turkey, p.78.

- Ercan, H.Ü., **Ece, Ö.I.**, Schroeder, P.A., Gülmez, F. (2021) Origin and Evolution of Silicified Rocks in the Etili - Çanakkale, Turkey. EGU General Assembly 2021.
- Ercan, H.Ü. and **Ece, Ö.I.** (2021) Experimental Determination of the Silica Solubility of the Basement Rocks in the Epithermal Systems. 8th International conference on materials science and nanotechnology for next generation (**MSNG2021**), Conference online, p.178.
- Schroeder, P.A., **Ece, Ö.I.** and Balcı, N.Ç. (2015) Critical zone observatories: Overview and current research activities in Turkey and The United States. 68th Geological Congress of Turkey. 6-10 April, 2015, Ankara, Turkey.
- Ercan, H.E., **Ece, Ö.I.** and Karacık, Z. (2013) Genesis and Mineralogical, Geochemical Characterisation of Sarıbeyli – Sığırılı and Bodurlu Kaolin Deposits, Çanakkale, Turkey. 66th Geological Congress of Turkey, p.239.
- Ercan, H.Ü. and **Ece, Ö.I.** (2012) Genesis, Stable Isotope and Mineral Characterisation of Sarıbeyli – Sığırılı and Bodurlar Kaolin Deposits, Çanakkale, Turkey. IESCA İzmir, October 1-5th, 2012, p.162.
- Karacık, Z., Coban, H., **Ece, Ö.I.**, Coleman, D. and Wampler, J.M. (2010) Trace element and Pb-Nd-Sr isotopic signals of Early-Middle Miocene discrete (calc-alkaline and alkaline) magma pulses with orogenic affinity in Simav graben from Western Anatolia Extensional Province, Turkey. AGU, The meeting of the Americas, Foz do Iguassu, Brazil, V43A-05.
- Balcı, N., Karagüler, N.G., **Ece, Ö.I.** and Romanek, C. (2009) Microbial communities of hyper saline Lake Salda and Acıgol, SW Turkey and their effects on biogeochemical cycles. *Eos Trans. AGU*, 90(52), Fall Meet. Suppl., Abstract.
- Ece, Ö.I.**, Ekinci, B. and Esenli, F. (2009) Hydrothermal Alteration and Origin of the Kaolin-Alunite Deposits: Düvertepe District, Simav Graben, Turkey. 46th Annual Meeting of The Clay Minerals Society, Billings, Montana, USA, p.119.
- Ekinci, B., **Ece, Ö.I.**, Esenli, F. and Özdamar, Ş. (2009) Mineralogical, Petrographical and Geochemical Evolution of the Hydrothermal Kaolin-Alunite Deposits: Düvertepe District, Balıkesir, Turkey. XIV. International Clay Conference, Castellaneta Marina, Italy, p.182.
- Coban, H., Karacık, Z. and **Ece, Ö.I.** (2008) Oligo-Miocene Igneous Activities in Simav Graben, Western Turkey: Implication for the late-syn- and extension-related (post-collision) magma series. International Geological Congress, Oslo 2008, MPI-01 General contribution to igneous petrology.
- İşçi, S., Ünlü, C., Atıcı, O., **Ece, Ö.I.** and Güngör, N. (2006) Characterization of Nanocomposites Synthesized by Two Different Types of Organoclays. Fourth

Mediterranean Clay Meeting (MCM06), 5-10 September 2006, Middle East Technical University, Ankara, Turkey, p.67.

Günister, E., Atıcı, O., **Ece, Ö.I.** and Güngör, N. (2006) Preparation and Characterization of ONaAMMT/PEG Nanocomposites. Fourth Mediterranean Clay Meeting (MCM06), 5-10 September 2006, Middle East Technical University, Ankara, Turkey, p.50.

Günister, E., Güngör, N. and **Ece, Ö.I.** (2005) The Characterization of Different Methods on CHITOSAN – Bentonite Systems. 12. National Clay Symposium, Yüzüncü Yıl University, Van, p.623.

İşçi, S., Ünlü, C.H., Atıcı, O., Güngör, N. and **Ece, Ö.I.** (2005) Characterization of Rheologic Electrokinetic and Thermal Properties of ODTABr/NaMMT/PP Composites. 12. National Clay Symposium, Yüzüncü Yıl University, Van, p.622.

Yürüdü, C., Ünlü, C.H., Atıcı, O., Güngör, N. and **Ece, Ö.I.** (2005) The Characterization of HDTABr/NaMMT Organoclay. 12. National Clay Symposium, Yüzüncü Yıl University, Van, p.593.

Günister, E., Ünlü, H.C., Atıcı, O., **Ece, Ö.I.** and Güngör, N. (2004) The Investigation of Influence of BDTDACI Surfactant on Rheologic, Electrokinetic, XRD and IR Properties of Na-Activated Bentonite Dispersions. II. Brazilian Conference on rheology. Rio de Janeiro, Brazil, July 7-9, 2004, p.13-14.

İşçi, S., **Ece, Ö.I.**, Güner, S. and Güngör, N. (2004) Modification of Rheology of the Bentonitic Clay Using a Cationic Surfactant. II. Brazilian Conference on rheology. Rio de Janeiro, Brazil, July 7-9, 2004, p.19-20.

Günister, E., **Ece, Ö.I.** and Güngör, N. (2004) The Investigation of Influence of BDTDACI and DTABr Surfactants on Rheologic, Electrokinetic and XRD Properties of Na-Activated Bentonite Dispersions. Istanbul Technical University, 11. İstatistik Fizik Günleri, June 24-26, 2004, p.43

İşçi, S., **Ece, Ö.I.** and Güngör, N. (2004) The Interaction Between PEG Polymer and Modified Bentonite Treated With Surfactant. Istanbul Technical University, 11. İstatistik Fizik Günleri, June 24-26, 2004, p.24.

Schroeder, P.A., Smiley, M.J., **Ece, Ö.I.** and Wampler, M. (2004) Sulfur Isotope and Potassium-Argon Analysis of Minerals From the Turplu Halloysite Mine, Balıkesir Region, Northwest Turkey. The Clay Minerals society 41st Annual Meeting, June 19-24, 2004, Richland, Washington, p.134.

Ece, Ö.I. and Schroeder, P.A. (2003) Acid-Sulfate Alteration and Genesis of Alunite-Halloysite Deposit at Turplu Mine, Balıkesir, Turkey. The Clay Minerals Society 40th Annual Meeting, Athens, Georgia, USA, p.56.

- Schroeder, P.A. and **Ece, Ö.I.** (2003) Clay Morphology, Mineralogy, and Crystal Chemistry of Hydrothermally Altered Oligocene Volcanic Rocks in the Turplu Area, Balıkesir, Turkey.
The Clay Minerals Society 40th Annual Meeting, Athens, Georgia, USA, p.141.
- Çoban, F., Bassari, A., Suner, F. and **Ece, Ö.I.** (1999) Uranium Adsorption Capacity of Some Turkish Bentonites.
EUROCLAY 1999, Sept. 5-9, 1999, Krakow, Poland, p.71.
- Alemdar, A., Güngör, N. ve **Ece, Ö.I.** (1999) Ca-bentonitin Reolojik Yapısı Üzerine Preapegen Polimerinin Etkisi.
12. Ulusal Kimya Kongresi, 7-11 Eylül 1999, Edirne, Turkey.
- Çoban, F., Suner, F. and **Ece, Ö.I.** (1999) A Geochemical Approach to the Genesis of Miocene Gypsum Occurrences in Eskişehir Basin, Turkey.
European Union of Geosciences EUG 10, Strasbourg, France, 28 March – 1 April 1999.
- Uz, B., **Ece, Ö.I.** and Çoban, F. (1997) Clay Mineralogy of Underclay Horizon in Güney Formation, Şile Region, Türkiye.
The 11th International Clay Conference, Ottawa, Ontario, Canada, p. A77
- Çoban, F. and **Ece, Ö.I.** (1997) Origin and Occurrence of Nontronites in Ayvacık Bentonite Deposit, Biga Peninsula, NW Turkey.
The 11th International Clay Conference, Ottawa, Ontario, Canada, p. A17.
- Ece, Ö.I.** (1994) Sepiolite-Dolomite-Gypsum Relations and Loughlinite-Sepiolite Transformation in the Eskişehir Basin, Türkiye.
XIIIth Conference On Clay Mineralogy and Petrology. Prague, CZECH Republic, August 29 - September 2, 1994, p.29.
- Çoban, F., Eruslu, N. and **Ece, Ö.I.** (1992) General Geological Features of the Bentonite Occurrences in the Western Anatolia, Turkey.
First Asia Geological Congress, February 23-27, 1992. Abstracts p.10, Islamabad, Pakistan
- Ece, Ö.I.** (1992) Fault-Related Hydrothermal Alteration and Occurrence of Ca-Bentonite Deposits in The Çankırı Region, Turkey.
ISGB-92, International Symposium on the Geology of the Black Sea Region, Sept. 7-11, 1992, Ankara, TURKEY. p.70.
- Çoban, F. and **Ece, Ö.I.** (1991) Başören (Kütahya) Yöresindeki Ca-Bentonit Yataklarının Mineralojisi ve Kristobalit Oluşumunun İncelenmesi (Studies on Cristobalite Occurrences and Mineralogy of Ca-Bentonite Deposits in the Başören Region, Kütahya.

Mahmut Sayın Clay Symposium, 2-4 May 1991, Çukurova University, Faculty of Agriculture, Adana, Turkey. p.23.

Çoban, F. and Ece, O.I. (1991) Petrology, Clay Mineralogy and Cristobalite Distribution of the Ca-bentonite Deposits in the Kütahya Region, Turkey. EUG VI Conference, 24-28 March, Strasbourg, FRANCE, Terra abstracts, p.404.

Ece, Ö.I. and Çoban, F. (1990) Origin and Significance of the Sepiolite Beds and Nodules in the Miocene Lacustrine Eskişehir Basin, Turkey. IESCA-1990, İzmir, TURKEY, p.79-80.

Ece, Ö.I. and Çoban, F. (1990) Kütahya-Sabuncupınar-Başören Köyü Ca-Bentonit Yataklarının Oluşumu ve Kil Mineralojisi (Clay Mineralogy and Occurrence of Ca-Bentonite Deposits in the Kütahya-Sabuncupınar-Başören Area). 6. Mühendislik Haftası, Isparta Mühendislik Fakültesi. 28 May - 2 June, 1990, p.29.

Çoban, F., **Ece, Ö.I.** and Altunkaynak, S. (1990) Sivrihisar (Eskişehir) Bölgesindeki Sepiyolitlerinin İncelenmesi (Investigation of Sepiolites in the Sivrihisar Region, Eskişehir). 6.Isparta Mühendislik Haftası. 28 May-2 June, p.25.

Ece, Ö.I. and Uz, B. (1989) Zeolites in the Miocene Tuffaceous Rocks in Northwest Turkey. 9. International Clay Conference, August 28- September 2, Strasbourg, FRANCE, p.267.

Ece, Ö.I. (1986) Depositional Environment, Petrology, Paleogeography and Organic Maturation of the Desmoinesian Cyclothemic Excello Black Shale in Oklahoma, Kansas and Missouri. A.A.P.G. Bull. V.70, p.585.

Jonas, E.C. and **Ece, Ö.I.** (1979) Microscopic Distribution of Uranium in Oakville Sandstone, South Texas. A.A.P.G. Bull. V.63/4, p.475-576.

e) Funded Research Projects:

Ece, Ö.I. (2013-2015) Acid-Sulphate Hydrothermal Alteration, Occurrence and Genesis of Kaolin-Alunite Deposits Along the Active en-echelon Faults, Çan-Çanakkale. Supported by TÜBİTAK - YDABÇAG Project No: 112Y369.

Ece, Ö.I. (2011-2012) High-Sulfidization Systems, Hydrothermal Alteration and Occurrence of Kaolin Deposits in the Çan – Çanakkale Region, NW Turkey. Supported by Istanbul Technical University, Research Fund Project No: 34778.

Ece, Ö.I., Kumral, M and Budakoğlu, M. (2009-2012) Mineralogy-Mineral Deposits Research Center (Infrastructure Research Grant). Supported by Ministry of Development, Project No: 90205

Ece, Ö.I. (2008-2009) Epithermal Mineralization and Geochemistry of Hydrothermal Alteration in Simav Graben, Western Turkey. Supported by Istanbul Technical University, Research Fund Project No: 32382.

Ece, Ö.I., Çoban, H. and Karacık, Z. (2006 - 2009) The Origin and Mineralogical-Geochemical Variations of Alunite-Kaolin Deposits Along Tectonically Active Simav Graben, Turkey. Supported by TÜBİTAK - YDABÇAG Project No: 106Y070.

Yıldız, H. Ö., Yamanlar, Ş., Sirkeci, A.A., Gültekin, A.H., **Ece, Ö.I.** and Gökmen, M. (2005 – 2008) Su Enjeksiyonu ile Petrol Üretiminin Arttırılmasında Optimal Tuzlu Su Kompozisyonunun Etkisi (Effect of Favorable Adjustment of Injected Brine Composition on Improvement of Oil Recovery by Waterflooding). Supported by TÜBİTAK Project No: 104M170.

Ece, Ö.I. (2003 – 2005) Stable Isotope Geochemistry of Alunite - Halloysite Deposits and K/Ar Dating of Volcanic Rocks and Granodiorites in NW Turkey. Supported by Istanbul Technical University, Research Fund Project No: 30345.

Ece, Ö.I. and Schoreder, P.A. (2002 - 2005) Hydrothermal Alteration of Volcanic Rocks and Genesis of Halloysite Deposits, NW Turkey. Supported by USA - NSF Grant No: INT-0138023 and TÜBİTAK - YDABÇAG Project No: 101Y137.

Ece, Ö.I. (2001 - 2002) Kayaç Yapıcı Minerallerin Kristallografik Özelliklerinin Bilgisayar Ortamında Hazırlanması (Preparation of Lecture Notes of Cristallography Course in Web Pages of ITU). Supported by Istanbul Technical University, Research Fund Project No: 2006.

Ece, Ö.I. and Canberk, M. (1998 - 2000) İstanbul – Şile Bölgesi Kil Yataklarının Mineralojisi ve Volkaniklerin Jeokimyasal İncelemesi (Mineralogy and Genesis of Clay Deposits and investigations of Volcanic Rocks in Sile Region, Turkey). Supported by İstanbul Technical University, Research Fund Project No: 775.

Eruslu, N., Armağan, T., Özgen, S., **Ece, Ö.I.** and others (1991 - 1993) Türkiye Bentonitleri ve Döküm Kumları Araştırma Projesi (Research Project on the Turkish Bentonies and Casting Sands).

Supported by DPT Technology Directory, Research Project, No: 90K-120730, 194 pp.

Ece, Ö.I. and Çoban, F. (1989 - 1992) The Occurrence and Genesis of Sepiolite Deposits From Mineralogical and Geochemical Evaluation Point of View (Evaluation of Eskişehir Bölgesindeki Sepiolit Yataklarının Oluşumlarının Mineralojik ve Kimyasal Açısından İncelenmesi). Supported by İTÜ, Y.B.Y.K., UYG-AR Merkezi Müdürlüğü, Research Project No:199.

Ece, Ö.I. and Çoban, F. (1989 - 1990) Kütahya-Sabuncupınar-Başören Köyü Ca-Bentonit Yataklarının Petrolojisi ve Kristobalit Dağılımı (Cristobalite Distribution and Petrology of Ca-Bentonite Deposits in the Kütahya-Sabuncupınar-Başören Area). Supported by Istanbul Technical University, Research Report, 57pp.

Ece, Ö.I. (1988 - 1989) Gemlik (Bursa) Bölgesindeki Eosen-Oligosen Yaşlı Sedimentar Kayaçların Jeolojik Evrimi (Geological Evolution of Eocene-Oligocene Age Sedimentary Rocks in Gemlik-Bursa Region). Supported by Turkish Petroleum Corp (T.P.A.O.), Research Report, April 1989, 74pp.