

# Prof. MÜŞERREF ÖNAL

## Personal Information

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## International Researcher IDs

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ScopusID: 14523264700

Yoksis Researcher ID: 4287

## Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 1991 - 1998

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 1989 - 1991

Undergraduate, Ankara University, Fen Fakültesi, Kimya Bölümü, Turkey 1984 - 1988

## Foreign Languages

English, B2 Upper Intermediate

## Dissertations

Doctorate, Reşadiye/Tokat bentonitinden elde edilen sodyum montmorillonit ile hazırlanan organokillerin adsorplama özelliklerinin incelenmesi, Ankara University, Fen Bilimleri Enstitüsü, Kimya (Dr), 1997

Postgraduate, Bentonitik bir kilin adsorplama özelliklerinin değiştirilmesi, Ankara University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 1991

## Research Areas

Chemistry, Physical Chemistry, Natural Sciences

## Academic Titles / Tasks

Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2008 - Continues

Associate Professor, Ankara University, Fen Fakültesi, Kimya Bölümü, 2002 - 2008

Research Assistant, Ankara University, Fen Fakültesi, Kimya Bölümü, 1989 - 2002

## Academic and Administrative Experience

Head of Department, Ankara University, Fen Fakültesi, Kimya Bölümü, 2023 - Continues

Fakülte Kurulu Üyesi, Ankara University, Fen Fakültesi, Kimya Bölümü, 2023 - Continues

Head of Department, Ankara University, Fen Fakültesi, Kimya Bölümü, 2023 - Continues  
BAP Scientific Commissioner, Ankara University, Fen Fakültesi, Kimya Bölümü, 2020 - Continues  
Fakülte Kurulu Üyesi, Ankara University, Fen Fakültesi, Kimya Bölümü, 2020 - Continues  
Head of Department, Ankara University, Fen Fakültesi, Kimya Bölümü, 2020 - 2023  
Head of Department, Ankara University, Fen Fakültesi, Kimya Bölümü, 2020 - 2023  
Head of Department, Ankara University, Fen Fakültesi, Kimya Bölümü, 2018 - 2020

## Courses

Fizikokimya Laboratuvarı, Undergraduate, 2022 - 2023  
Physical Chemistry Laboratory, Undergraduate, 2022 - 2023  
Kuantum Kimyası I, Undergraduate, 2022 - 2023  
Basic Chemistry Laboratory, Undergraduate, 2021 - 2022  
Kuantum Kimyası II, Undergraduate, 2021 - 2022  
Korozyon Laboratuvarı, Undergraduate, 2021 - 2022  
Minerallerin Fizikokimyası I, Postgraduate, 2021 - 2022  
Özel Konu, Undergraduate, 2021 - 2022  
Termodinamik I, Undergraduate, 2022 - 2023  
Kristal Yapı, Undergraduate, 2022 - 2023  
Termodinamik II, Undergraduate, 2021 - 2022

## Advising Theses

ÖNAL M., Altın, bakır ve altın-bakır alaşımlarının ağız ortamlarındaki korozyonu, Postgraduate, D.ALTUĞ(Student), 2021  
ÖNAL M., Borik asit ve poliol komplekslerinin kuramsal ve deneysel olarak incelenmesi, Doctorate, C.HİLAL(Student), 2021  
ÖNAL M., Halloysit mineralinin termal deformasyon kinetik ve termodinamiği, Doctorate, F.EDA(Student), 2021  
ÖNAL M., Thermal crystallization of an amorphous silica, Postgraduate, S.DAĞLAR(Student), 2018  
ÖNAL M., Preparation and characterization of boron carbide at low-temperature from boric acid and polyols, Doctorate, A.DEVRİM(Student), 2018  
ÖNAL M., Enerjik bazı bileşiklerin bağlandığı pentaeritrol tetranitrat(PETN) moleküllerinin termodinamik özelliklerinin kuramsal olarak hesaplanması, Postgraduate, C.HİLAL(Student), 2016  
ÖNAL M., Kaolin ve bentonit türü killerde bulunan silikaların belirlenmesi, Postgraduate, Ç.HANCIOĞLU(Student), 2015  
ÖNAL M., Isıl olarak işlenmiş bentonit örneklerinde metilen mavisi adsorpsiyonu, Postgraduate, M.ÇAĞRI(Student), 2014  
ÖNAL M., Bir bentonitik kil içindeki simektit mineralinin nicel olarak belirlenmesi, Postgraduate, F.EDA(Student), 2011  
ÖNAL M., Bazı halloysit-polimer nanokompozitlerin hazırlanması ve karakterizasyonu, Postgraduate, N.ESER(Student), 2010  
ÖNAL M., Bentonitik killer üzerinde etilen glikol monoetil eter adsorpsiyonu, Postgraduate, E.YALÇIN(Student), 2010  
ÖNAL M., Isıl işlemin bir bentonitin katyon değiştirme kapasitesi, adsorpsiyon, gözenekliliği, yüzey alanı ve yüzey asitliği gibi bazı fizikokimyasal özelliklerine etkisi, Doctorate, E.DEMİR(Student), 2008  
ÖNAL M., Mezogözenekli katıların adsorplama özelliklerinin incelenmesi, Postgraduate, N.TOSUN(Student), 2005

## Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Ankara Üniversitesi, December, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, December, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Hacettepe Üniversitesi, December, 2022

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, November, 2022

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, November, 2022

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, November, 2022

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, November, 2022

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, November, 2022

Doctoral Examination, Doctoral Examination, Gazi Üniversitesi, November, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Ankara Üniversitesi, August, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Ankara Üniversitesi, August, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Ankara Üniversitesi, August, 2022

Post Graduate, Post Graduate, Hacettepe Üniversitesi, July, 2022

Appointment to Academic Staff - Associate Professorship, Appointment to Academic Staff - Associate Professorship, Dokuz Eylül Üniversitesi, June, 2022

Appointment to Academic Staff-Professorship, Appointment to Academic Staff-Professorship, Ankara Üniversitesi, March, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Gazi Üniversitesi, February, 2022

Post Graduate, Post Graduate, Hacettepe Üniversitesi, January, 2022

Doctorate, Doctorate, Hacettepe Üniversitesi, January, 2022

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

- I. **Irreversible thermal transformation kinetics of halloysite to metahalloysite using XRD analysis**  
ÖNAL M., Sarikaya Y.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.148, no.23, pp.13457-13462, 2023 (SCI-Expanded)
- II. **Thermal Crystallization Kinetics of an Opal-like Biogenic Silica**  
Daglar S., Kahya N. D., Ustunisik G., Önal M., Sarikaya Y.  
SILICON, vol.14, no.12, pp.7211-7217, 2022 (SCI-Expanded)
- III. **Thermal deactivation kinetics and thermodynamics of a silica gel using surface area data**  
Sarikaya Y., Ceylan H., ÖNAL M., Pekdemir A. D.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.146, no.4, pp.1505-1510, 2021 (SCI-Expanded)
- IV. **Irreversible ammonia adsorption on asphaltite bottom ash: A thermodynamic approach**  
Kosan I., Ustunisik G., ÖNAL M., Sarikaya Y., Bozkurt P. A.  
COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS, vol.626, 2021 (SCI-Expanded)
- V. **Simultaneous Trace Electrochemical Determination of Xanthine Theophylline and Theobromine with a Novel Sensor Based on a Composite Including Metal Oxide Nanoparticle Multi-walled Carbon Nanotube and Nano-Na-montmorillonite Clay**  
Fitoz A., YAZAN Z., ÖNAL M.  
ELECTROANALYSIS, vol.33, no.10, pp.2226-2234, 2021 (SCI-Expanded)
- VI. **Supercritical phases of hydrogen**  
Ibrahimoglu B., Sarikaya Y., Veziroglu A., ÖNAL M., Gokbel B.  
International Journal of Hydrogen Energy, vol.46, no.65, pp.32762-32767, 2021 (SCI-Expanded)
- VII. **Optimization of bleaching power by sulphuric acid activation of bentonite**  
BAYRAM H., Ustunisik G., ÖNAL M., Sarlkaya Y.  
Clay Minerals, vol.56, pp.148-155, 2021 (SCI-Expanded)
- VIII. **Removing tar and nicotine from mainstream cigarette smoke using sepiolite-modified filter tips**

Sarikaya Y., KAHYA N. D., Pekdemir A. D., ÖNAL M.

CLAY MINERALS, vol.55, no.4, pp.375-382, 2020 (SCI-Expanded)

- IX. **Kinetic and thermodynamic approaches on thermal degradation of sepiolite crystal using XRD-analysis**  
Sarikaya Y., ÖNAL M., Pekdemir A. D.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.140, no.6, pp.2667-2672, 2020 (SCI-Expanded)
- X. **Thermodynamic interpretation on the rheology of aqueous bentonite suspensions**  
Bozdoğan I., ÖNAL M., Pekdemir A. D., Sarikaya Y.  
Revista de Chimie, vol.71, no.6, pp.51-58, 2020 (SCI-Expanded)
- XI. **Preparation and characterization of polymethacrylamide/halloysite composites**  
Eser N., ÖNAL M., ÇELİK M., Pekdemir A. D., Sarikaya Y.  
POLYMER COMPOSITES, vol.41, no.3, pp.893-899, 2020 (SCI-Expanded)
- XII. **Thermal degradation kinetics of sepiolite**  
Sarikaya Y., ÖNAL M., Pekdemir A. D.  
CLAY MINERALS, vol.55, no.1, pp.96-100, 2020 (SCI-Expanded)
- XIII. **Synthesis, characterization and some physicochemical properties of polypyrrole/halloysite composites**  
Eser N., ÖNAL M., ÇELİK M., Pekdemir A. D., Sarikaya Y.  
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.57, no.3, pp.222-228, 2020 (SCI-Expanded)
- XIV. **Isothermal compressibility and isobaric thermal shrinkage of a porous alpha-alumina compact: thermodynamic calculations**  
Sarikaya Y., ÖNAL M., Pekdemir A. D.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.3, pp.833-840, 2020 (SCI-Expanded)
- XV. **Sensitive and cost effective disposable composite electrode based on graphite, nano-smectite and multiwall carbon nanotubes for the simultaneous trace level detection of ascorbic acid and acetylsalicylic acid in pharmaceuticals**  
Bayraktepe D., YAZAN Z., ÖNAL M.  
Talanta, vol.203, pp.131-139, 2019 (SCI-Expanded)
- XVI. **Application of diffusion and transition state theories on the carburizing of steel AISI 316 by annealing in uranium carbide powder**  
Sarikaya Y., ÖNAL M., Pekdemir A. D.  
HELIYON, vol.5, no.8, 2019 (SCI-Expanded)
- XVII. **An indirect model for sintering thermodynamics**  
Sarikaya Y., ÖNAL M.  
TURKISH JOURNAL OF CHEMISTRY, vol.40, no.5, pp.841-845, 2016 (SCI-Expanded)
- XVIII. **Thermal transformation kinetics of a kaolinitic clay**  
Pekdemir A. D., Sarikaya Y., ÖNAL M.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.123, no.1, pp.767-772, 2016 (SCI-Expanded)
- XIX. **Study on the synthesis and properties of polyacrylamide/Na-montmorillonite nanocomposites**  
Koc Z., ÇELİK M., ÖNAL M., Sarikaya Y., Oner Y., AÇIK L.  
JOURNAL OF COMPOSITE MATERIALS, vol.48, no.4, pp.439-446, 2014 (SCI-Expanded)
- XX. **Polythiophene/Na-montmorillonite composites via intercalative polymerization**  
ÇELİK M., ÖNAL M.  
JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS, vol.27, no.2, pp.145-159, 2014 (SCI-Expanded)
- XXI. **Adsorption from n-heptane/benzene liquid mixture on acid leached bentonite powders**  
Sarikaya Y., Baykal M., ÖNAL M., YENER N.  
APPLIED SURFACE SCIENCE, vol.283, pp.678-682, 2013 (SCI-Expanded)
- XXII. **Preparation and characterization of poly(2-hydroxyethyl methacrylate)/Na-montmorillonite intercalated nanocomposites**  
Koc Z., ÇELİK M., ÖNAL M., Sarikaya Y., MOĞULKOÇ Y.

- JOURNAL OF POLYMER ENGINEERING, vol.33, no.1, pp.27-32, 2013 (SCI-Expanded)
- XXIII. **High temperature carburizing of a stainless steel with uranium carbide**  
Sarıkaya Y., ÖNAL M.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.542, pp.253-256, 2012 (SCI-Expanded)
- XXIV. **Synthesis, characterization, and properties of conducting polypyrrole/Na-montmorillonite nanocomposites**  
ÇELİK M., ÖNAL M.  
JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS, vol.25, no.4, pp.505-520, 2012 (SCI-Expanded)
- XXV. **Poly(methyl acrylate)/Na-montmorillonite intercalated composites: Preparation and characterization**  
ÇELİK M., ÖNAL M., Sarıkaya Y.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.123, no.6, pp.3662-3667, 2012 (SCI-Expanded)
- XXVI. **An indirect thermodynamic model developed for initial stage sintering of an alumina compacts by using porosity measurements**  
Sarıkaya Y., ÖNAL M., Ada K.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.107, no.2, pp.419-423, 2012 (SCI-Expanded)
- XXVII. **Maximum Bleaching of Vegetable Oils by Acid-activated Bentonite: Influence of Nanopore Radius**  
ÖNAL M., Sarıkaya Y.  
ADSORPTION SCIENCE & TECHNOLOGY, vol.30, no.1, pp.97-104, 2012 (SCI-Expanded)
- XXVIII. **Simultaneous determination of cation exchange capacity and surface area of acid activated bentonite powders by methylene blue sorption**  
YENER N., Bicer C., ÖNAL M., Sarıkaya Y.  
APPLIED SURFACE SCIENCE, vol.258, no.7, pp.2534-2539, 2012 (SCI-Expanded)
- XXIX. **Thermal analysis of a white calcium bentonite**  
BAYRAM H., ÖNAL M., Yılmaz H., Sarıkaya Y.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.101, no.3, pp.873-879, 2010 (SCI-Expanded)
- XXX. **Hexacyanochromates(III) and hexacyanocobaltates(III) of copper(II) with tridentate and tetradentate n-donor ligands. Crystal structure of  $[\{Cu(ept)\}_3\{Co(CN)_6\}_2] \cdot H_2O$  (ept = n-(2-aminoethyl)-1,3-propandiamine)**  
Kutlákova K. M., Smékal Z., Neels A., ÖNAL M., Šindelář Z.  
Polish Journal of Chemistry, vol.83, no.10, pp.1707-1716, 2009 (SCI-Expanded)
- XXXI. **Some physicochemical properties of a clay containing smectite and palygorskite**  
ÖNAL M., Sarıkaya Y.  
APPLIED CLAY SCIENCE, vol.44, no.1-2, pp.161-165, 2009 (SCI-Expanded)
- XXXII. **A model for initial-stage sintering thermodynamics of an alumina powder**  
Sarıkaya Y., Ada K., ÖNAL M.  
POWDER TECHNOLOGY, vol.188, no.1, pp.9-12, 2008 (SCI-Expanded)
- XXXIII. **A model developed for acid dissolution thermodynamics of a Turkish bentonite**  
Noyan H., ÖNAL M., Sarıkaya Y.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.94, no.2, pp.591-596, 2008 (SCI-Expanded)
- XXXIV. **SOME PHYSICOCHEMICAL PROPERTIES OF THE WHITE SEPIOLITE KNOWN AS PIPESTONE FROM ESKİSEHIR, TURKEY**  
ÖNAL M., Yılmaz H., Sarıkaya Y.  
CLAYS AND CLAY MINERALS, vol.56, no.5, pp.511-519, 2008 (SCI-Expanded)
- XXXV. **The effect of organic cation content on the interlayer spacing, surface area and porosity of methyltributylammonium-smectite**  
Oenal M., Sarıkaya Y.  
Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol.317, no.1-3, pp.323-327, 2008 (SCI-Expanded)
- XXXVI. **Thermal characterization of methyltributylammonium-smectites**  
ÖNAL M., Sarıkaya Y.

- JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.91, no.3, pp.835-839, 2008 (SCI-Expanded)
- XXXVII. **Preparation and characterization of a ZnO powder with the hexagonal plate particles**  
Ada K., Goekgoez M., Oenal M., Sankaya Y.  
Powder Technology, vol.181, no.3, pp.285-291, 2008 (SCI-Expanded)
- XXXVIII. **Thermal analysis of some organoclays**  
Oenal M., Sarikaya Y.  
Journal of Thermal Analysis and Calorimetry, vol.91, no.1, pp.261-265, 2008 (SCI-Expanded)
- XXXIX. **Some physicochemical properties of methylammonium and ethylenediammonium smectites**  
ÖNAL M., Sarikaya Y.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.312, no.1, pp.56-61, 2008 (SCI-Expanded)
- XL. **Thermal deformation thermodynamics of a smectite mineral**  
Noyan H., Oenal M., Sarikaya Y.  
Journal of Thermal Analysis and Calorimetry, vol.91, no.1, pp.299-303, 2008 (SCI-Expanded)
- XLI. **The effect of heat treatment on the paracrystallinity of an opal-CT found in a bentonite**  
ÖNAL M., Sarikaya Y.  
JOURNAL OF NON-CRYSTALLINE SOLIDS, vol.353, no.44-46, pp.4195-4198, 2007 (SCI-Expanded)
- XLII. **Intercalated polyaniline/Na-montmorillonite nanocomposites via oxidative polymerization**  
Celik M., ÖNAL M.  
JOURNAL OF POLYMER RESEARCH, vol.14, no.4, pp.313-317, 2007 (SCI-Expanded)
- XLIII. **The effect of sulphuric acid activation on the crystallinity, surface area, porosity, surface acidity, and bleaching power of a bentonite**  
Noyan H., Oenal M., Sarikaya Y.  
Food Chemistry, vol.105, no.1, pp.156-163, 2007 (SCI-Expanded)
- XLIV. **Swelling and cation exchange capacity relationship for the samples obtained from a bentonite by acid activations and heat treatments**  
Oenal M.  
Applied Clay Science, vol.37, no.1-2, pp.74-80, 2007 (SCI-Expanded)
- XLV. **Thermal behavior of a mineral mixture of sepiolite and dolomite**  
Yener N., ÖNAL M., Ustunisik G., Sarikaya Y.  
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.88, no.3, pp.813-817, 2007 (SCI-Expanded)
- XLVI. **Applications of the zero-order reaction rate model and transition state theory on the intra-particle sintering of an alumina powder by using surface area measurements**  
Sarikaya Y., Ada K., ÖNAL M.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.432, no.1-2, pp.194-199, 2007 (SCI-Expanded)
- XLVII. **Some physicochemical properties of partition nanophase formed in sorptive organoclays**  
ÖNAL M., Sarikaya Y.  
COLLOIDS AND SURFACES A-PHYSCOCHEMICAL AND ENGINEERING ASPECTS, vol.296, no.1-3, pp.216-221, 2007 (SCI-Expanded)
- XLVIII. **Preparation and characterization of acid-activated bentonite powders**  
ÖNAL M., Sankaya Y.  
POWDER TECHNOLOGY, vol.172, no.1, pp.14-18, 2007 (SCI-Expanded)
- XLIX. **Examination of some commercial sorptive organobentonites**  
ÖNAL M.  
TURKISH JOURNAL OF CHEMISTRY, vol.31, no.6, pp.579-588, 2007 (SCI-Expanded)
- L. **Differentiation of alpha-cristobalite from opals in bentonites from Turkey**  
ÖNAL M., Kahraman S., Sarikaya Y.  
APPLIED CLAY SCIENCE, vol.35, no.1-2, pp.25-30, 2007 (SCI-Expanded)
- LI. **Some thermal characteristics of a mineral mixture of palygorskite, metahalloysite, magnesite and dolomite**  
Bayram H., Oenal M., Uestuenisik G., Sarikaya Y.

Journal of Thermal Analysis and Calorimetry, vol.89, no.1, pp.169-174, 2007 (SCI-Expanded)

**LII. Thermal behavior of a bentonite**

Oenal M., Sarikaya Y.

Journal of Thermal Analysis and Calorimetry, vol.90, no.1, pp.167-172, 2007 (SCI-Expanded)

**LIII. Investigation of the intra-particle sintering kinetics of a mainly agglomerated alumina powder by using surface area reduction**

Ada K., ÖNAL M., Sarikaya Y.

POWDER TECHNOLOGY, vol.168, no.1, pp.37-41, 2006 (SCI-Expanded)

**LIV. The effect of heating on the surface area, porosity and surface acidity of a bentonite**

Noyan H., Oenal M., Sarikaya Y.

Clays and Clay Minerals, vol.54, no.3, pp.375-381, 2006 (SCI-Expanded)

**LV. Preparation and characterization of intercalated polymethacrylamide/Na-montmorillonite nanocomposites**

Celik M., ÖNAL M.

JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.43, no.6, pp.933-943, 2006 (SCI-Expanded)

**LVI. Baseline studies of The Clay Minerals Society source clays: Specific surface area by the Brunauer Emmett Teller (BET) method**

Dogan A., Dogan M., ÖNAL M., Sarikaya Y., Aburub A., Wurster D.

CLAYS AND CLAY MINERALS, vol.54, no.1, pp.62-66, 2006 (SCI-Expanded)

**LVII. Polymethacrylamide/Na-montmorillonite nanocomposites synthesized by free-radical polymerization**

ÖNAL M., Celik M.

MATERIALS LETTERS, vol.60, no.1, pp.48-52, 2006 (SCI-Expanded)

**LVIII. Characterization of silica polymorphs in kaolins by X-ray diffraction before and after phosphoric acid digestion and thermal treatment**

Kahraman S., ÖNAL M., Sarikaya Y., Bozdogan I.

ANALYTICA CHIMICA ACTA, vol.552, no.1-2, pp.201-206, 2005 (SCI-Expanded)

**LIX. Synthesis and characterization of poly(glycidyl methacrylate)/Na-montmorillonite nanocomposites**

Celik M., ÖNAL M.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.94, no.4, pp.1532-1538, 2004 (SCI-Expanded)

**LX. The effect of boron containing frits on the anorthite formation temperature in kaolin-wollastonite mixtures**

Baran B., Sarikaya Y., Alemdaroglu T., ÖNAL M.

JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.23, no.12, pp.2061-2066, 2003 (SCI-Expanded)

**LXI. Isolation and characterization of a smectite as a micro-mesoporous material from a bentonite**

ÖNAL M., Sarikaya Y., Alemdaroglu T., Bozdogan I.

TURKISH JOURNAL OF CHEMISTRY, vol.27, no.6, pp.683-693, 2003 (SCI-Expanded)

**LXII. Thermal behaviour of alumina precursor obtained by the aluminium sulphate-urea reaction in boiling aqueous solution**

Ada K., Sarikaya Y., Alemdaroglu T., ÖNAL M.

CERAMICS INTERNATIONAL, vol.29, no.5, pp.513-518, 2003 (SCI-Expanded)

**LXIII. Investigation of the surface acidity of a bentonite modified by acid activation and thermal treatment**

Alemdaroglu T., Akkus G., ÖNAL M., Sarikaya Y.

TURKISH JOURNAL OF CHEMISTRY, vol.27, no.6, pp.675-681, 2003 (SCI-Expanded)

**LXIV. Determination of the shape, size and porosity of fine alpha-Al<sub>2</sub>O<sub>3</sub> powders prepared by emulsion evaporation**

Sarikaya Y., Alemdaroglu T., ÖNAL M.

JOURNAL OF THE EUROPEAN CERAMIC SOCIETY, vol.22, no.3, pp.305-309, 2002 (SCI-Expanded)

**LXV. The effect of acid activation on some physicochemical properties of a bentonite**

ÖNAL M., Sarikaya Y., Alemdaroglu T., Bozdogan I.

- TURKISH JOURNAL OF CHEMISTRY, vol.26, no.3, pp.409-416, 2002 (SCI-Expanded)
- LXVI. **Investigation of the microporous and mesoporous structures of the readiye (Tokat/Turkey) bentonite and its fractions**  
ÖNAL M., Sarikaya Y., Alemdaroğlu T.  
Turkish Journal of Chemistry, vol.25, no.2, pp.241-249, 2001 (SCI-Expanded)
- LXVII. **Determination of some of the physicochemical properties of fine alumina powders prepared by emulsion evaporation**  
Sarikaya Y., Sevinc I., ÖNAL M., Alemdaroglu T.  
TURKISH JOURNAL OF CHEMISTRY, vol.25, no.3, pp.283-291, 2001 (SCI-Expanded)
- LXVIII. **Investigation of the microporous and mesoporous structures of the Resadiye (Tokat/Turkey) bentonite and its fractions**  
ÖNAL M., Sarikaya Y., Alemdaroglu T.  
TURKISH JOURNAL OF CHEMISTRY, vol.25, no.2, pp.241-249, 2001 (SCI-Expanded)
- LXIX. **The effect of thermal treatment on some of the physicochemical properties of a bentonite**  
Sarikaya Y., ÖNAL M., Baran B., Alemdaroglu T.  
CLAYS AND CLAY MINERALS, vol.48, no.5, pp.557-562, 2000 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Liquid-solid Equilibrium Position and Critical Point for Benzene**  
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