

Prof. MÜŞERREF ÖNAL

Personal Information

Web: <https://avesis.ankara.edu.tr/100085>

International Researcher IDs

ScholarID: d5gu3vMAAAAJ

ORCID: 0000-0002-1540-8389

Publons / Web Of Science ResearcherID: ABE-1595-2020

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. **Optimum pyrolysis conditions to prepare the most crystalline boron carbide powder from boric acid-mannitol complex ester**
Pekdemir A. D., Onal M., Sarikaya Y.
TURKISH JOURNAL OF CHEMISTRY, vol.47, no.6, pp.1370-1379, 2023 (SCI-Expanded)
- III. **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)
- IV. **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)
- V. **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-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.626, 2021 (SCI-Expanded)
- VI. **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)
- VII. **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)

- VIII. **Optimization of bleaching power by sulphuric acid activation of bentonite**
Bayram H., Ustunisik G., Önal M., Sarıkaya Y.
Clay Minerals, vol.56, pp.148-155, 2021 (SCI-Expanded)
- IX. **Removing tar and nicotine from mainstream cigarette smoke using sepiolite-modified filter tips**
Sarıkaya Y., KAHYA N. D., Pekdemir A. D., ÖNAL M.
CLAY MINERALS, vol.55, no.4, pp.375-382, 2020 (SCI-Expanded)
- X. **Kinetic and thermodynamic approaches on thermal degradation of sepiolite crystal using XRD-analysis**
Sarıkaya Y., ÖNAL M., Pekdemir A. D.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.140, no.6, pp.2667-2672, 2020 (SCI-Expanded)
- XI. **Thermodynamic interpretation on the rheology of aqueous bentonite suspensions**
Bozdoğan I., ÖNAL M., Pekdemir A. D., Sarıkaya Y.
Revista de Chimie, vol.71, no.6, pp.51-58, 2020 (SCI-Expanded)
- XII. **Thermal degradation kinetics of sepiolite**
Sarıkaya 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., Sarıkaya Y.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.57, no.3, pp.222-228, 2020 (SCI-Expanded)
- XIV. **Preparation and characterization of polymethacrylamide/halloysite composites**
Eser N., ÖNAL M., ÇELİK M., Pekdemir A. D., Sarıkaya Y.
POLYMER COMPOSITES, vol.41, no.3, pp.893-899, 2020 (SCI-Expanded)
- XV. **Isothermal compressibility and isobaric thermal shrinkage of a porous alpha-alumina compact: thermodynamic calculations**
Sarıkaya Y., ÖNAL M., Pekdemir A. D.
TURKISH JOURNAL OF CHEMISTRY, vol.44, no.3, pp.833-840, 2020 (SCI-Expanded)
- XVI. **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)
- XVII. **Application of diffusion and transition state theories on the carburizing of steel AISI 316 by annealing in uranium carbide powder**
Sarıkaya Y., ÖNAL M., Pekdemir A. D.
HELIYON, vol.5, no.8, 2019 (SCI-Expanded)
- XVIII. **An indirect model for sintering thermodynamics**
Sarıkaya Y., ÖNAL M.
TURKISH JOURNAL OF CHEMISTRY, vol.40, no.5, pp.841-845, 2016 (SCI-Expanded)
- XIX. **Thermal transformation kinetics of a kaolinitic clay**
Pekdemir A. D., Sarıkaya Y., ÖNAL M.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.123, no.1, pp.767-772, 2016 (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. **Study on the synthesis and properties of polyacrylamide/Na-montmorillonite nanocomposites**
Koc Z., ÇELİK M., ÖNAL M., Sarıkaya Y., Oner Y., AÇIK L.
JOURNAL OF COMPOSITE MATERIALS, vol.48, no.4, pp.439-446, 2014 (SCI-Expanded)
- XXII. **Adsorption from n-heptane/benzene liquid mixture on acid leached bentonite powders**
Sarıkaya Y., Baykal M., ÖNAL M., YENER N.

- APPLIED SURFACE SCIENCE, vol.283, pp.678-682, 2013 (SCI-Expanded)
- XXIII. **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)
- XXIV. **High temperature carburizing of a stainless steel with uranium carbide**
Sarikaya Y., ÖNAL M.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.542, pp.253-256, 2012 (SCI-Expanded)
- XXV. **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)
- XXVI. **Poly(methyl acrylate)/Na-montmorillonite intercalated composites: Preparation and characterization**
ÇELİK M., ÖNAL M., Sarikaya Y.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.123, no.6, pp.3662-3667, 2012 (SCI-Expanded)
- XXVII. **An indirect thermodynamic model developed for initial stage sintering of an alumina compacts by using porosity measurements**
Sarikaya Y., ÖNAL M., Ada K.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.107, no.2, pp.419-423, 2012 (SCI-Expanded)
- XXVIII. **Maximum Bleaching of Vegetable Oils by Acid-activated Bentonite: Influence of Nanopore Radius**
ÖNAL M., Sarikaya Y.
ADSORPTION SCIENCE & TECHNOLOGY, vol.30, no.1, pp.97-104, 2012 (SCI-Expanded)
- XXIX. **Simultaneous determination of cation exchange capacity and surface area of acid activated bentonite powders by methylene blue sorption**
YENER N., Bicer C., ÖNAL M., Sarikaya Y.
APPLIED SURFACE SCIENCE, vol.258, no.7, pp.2534-2539, 2012 (SCI-Expanded)
- XXX. **Thermal analysis of a white calcium bentonite**
BAYRAM H., ÖNAL M., Yilmaz H., Sarikaya Y.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.101, no.3, pp.873-879, 2010 (SCI-Expanded)
- XXXI. **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)
- XXXII. **Some physicochemical properties of a clay containing smectite and palygorskite**
ÖNAL M., Sarikaya Y.
APPLIED CLAY SCIENCE, vol.44, no.1-2, pp.161-165, 2009 (SCI-Expanded)
- XXXIII. **A model for initial-stage sintering thermodynamics of an alumina powder**
Sarikaya Y., Ada K., ÖNAL M.
POWDER TECHNOLOGY, vol.188, no.1, pp.9-12, 2008 (SCI-Expanded)
- XXXIV. **A model developed for acid dissolution thermodynamics of a Turkish bentonite**
Noyan H., ÖNAL M., Sarikaya Y.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.94, no.2, pp.591-596, 2008 (SCI-Expanded)
- XXXV. **SOME PHYSICO-CHEMICAL PROPERTIES OF THE WHITE SEPIOLITE KNOWN AS PIPESTONE FROM ESKISEHIR, TURKEY**
ÖNAL M., Yilmaz H., Sarikaya Y.
CLAYS AND CLAY MINERALS, vol.56, no.5, pp.511-519, 2008 (SCI-Expanded)
- XXXVI. **The effect of organic cation content on the interlayer spacing, surface area and porosity of methyltributylammonium-smectite**
Oenal M., Sarikaya Y.

- Colloids and Surfaces A: Physicochemical and Engineering Aspects, vol.317, no.1-3, pp.323-327, 2008 (SCI-Expanded)
- XXXVII. **Thermal characterization of methyltributylammonium-smectites**
ÖNAL M., Sarikaya Y.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.91, no.3, pp.835-839, 2008 (SCI-Expanded)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **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)
- XLVI. **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)
- XLVII. **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)
- 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. **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)
- L. **Examination of some commercial sorptive organobentonites**
ÖNAL M.
TURKISH JOURNAL OF CHEMISTRY, vol.31, no.6, pp.579-588, 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. **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)
- LIV. **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)
- LV. **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)
- LVI. **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)
- LVII. **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)
- LVIII. **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)
- LIX. **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)
- LX. **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)
- LXI. **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)
- 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. **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)
- LXIV. **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)
- LXV. **Determination of the shape, size and porosity of fine alpha-Al₂O₃ 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)
- LXVI. **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)
- LXVII. **Investigation of the microporous and mesoporous structures of the readiye (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)
- LXVIII. **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)
- LXIX. **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)
- LXX. **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**
SARIKAYA Y., İBRAHİMOĞLU B., ÖNAL M., İBRAHİMOĞLU, Jr B.
Journal of Electrical Power & Energy Systems, vol.7, no.7, pp.11-20, 2023 (Peer-Reviewed Journal)
- II. **Green Synthesis of Silver Nanoparticles Using Salvia Fruticosa Mill. Extract and the Effect of Synthesis Parameters on Their Formation, Antioxidant, and Electro- Catalytic Activity**
ERKAKAN D., DİKER N. Y., ÖNAL M., ÇANKAYA İ. İ.
Hacettepe Journal of Biology and Chemistry, vol.50, no.4, pp.397-414, 2022 (Peer-Reviewed Journal)
- III. **Mechanical Properties of a Stainless Steel after Annealing in Uranium Carbide**
Sarikaya Y., ÖNAL M., Pekdemir A. D.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.9, no.4, pp.1035-1046, 2022 (Scopus)
- IV. **The Effects of BTTN, TMETN and DEGDN Molecules on the Explosion Properties of PETN Molecule**
HİLAL C., VARIŞ S., MERT M. E., ÖNAL M., SARIKAYA Y.
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.26, no.3, pp.366-371, 2022 (Peer-Reviewed Journal)
- V. **Detonation Parameters of the Pentaerythritol Tetranitrate and Some Structures Descriptors in Different Solvents - Computational Study**
HİLAL C., ÖNAL M., MERT M. E.
Düzce Üniversitesi Bilim ve Teknoloji Dergisi, vol.9, pp.1227-1241, 2021 (Peer-Reviewed Journal)
- VI. **The effect of the hydrothermal and thermal deactivations on the adsorptive properties and liquid permeability of a silica gel**
Ceylan H., Pekdemir A. D., ÖNAL M., Sarikaya Y.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.8, no.2, pp.477-482, 2021 (Scopus)
- VII. **Bazı ester kompleks sentezlerinde kullanılacak borik asit, monoetilen glikol ve gliserol moleküllerinin kuramsal ve deneysel olarak incelenmesi**
HİLAL C., ÖNAL M.
BOR DERGİSİ, vol.6, no.2, pp.298-308, 2021 (Peer-Reviewed Journal)
- VIII. **Preparation and characterization of nanoporous powders from bentonite by hydrochloric acid**

leaching and using as bleaching earth

YENER N., Bicer C., Pekdemir A. D., Sarıkaya Y., ÖNAL M.

SN APPLIED SCIENCES, vol.2, no.4, 2020 (ESCI)

IX. Characterization of a bentonite and its permanent aqueous suspension

Özgüven F. E., Pekdemir A. D., ÖNAL M., Sarıkaya Y.

Journal of the Turkish Chemical Society, Section A: Chemistry, vol.7, no.1, pp.11-18, 2019 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

I. Some physicochemical characteristics of acid-activated bentonite samples

BAYRAM H., ERKAKAN D., ÖNAL M., SARIKAYA Y.

Ancon-International Congress on Chemistry and Materials Science, 5 - 07 October 2017

II. Determination of optimum conditions to prepare an acidactivated bentonite sample with maximum bleaching power

BAYRAM H., ÖNAL M., ERKAKAN D., SARIKAYA Y.

Ancon-International Congress on Chemistry and Materials Science, 5 - 07 October 2017

III. Polipirol Halloisit nanokompozitlerin Hazırlanması ve Karakterizasyonu

ÇELİK M., ÖNAL M.

V. Ulusal Polimer Bilim ve Teknolojisi Kongresi Gaziosmanpaşa Üniversitesi, Turkey, 1 - 04 September 2014

Scientific Refereeing

CHEMICAL INDUSTRY AND CHEMICAL ENGINEERING QUARTERLY, SCI Journal, November 2022

Düzce Üniversitesi Bilim ve Teknoloji Dergisi, National Scientific Refreed Journal, September 2022

CLAY MINERALS JOURNAL OF THE EUROPEAN CLAY GROUPS, SCI Journal, September 2022

Osmaniye Korkut Ata Üniversitesi Fen Bilimleri Enstitüsü Dergisi (Online), National Scientific Refreed Journal, August 2022

Journal of Thermal Analysis and Calorimetry, SCI Journal, July 2022

JOURNAL OF AFRICAN EARTH SCIENCES, SCI Journal, May 2022

Journal of Thermal Analysis and Calorimetry, SCI Journal, February 2022

TURKISH JOURNAL OF CHEMISTRY, SCI Journal, February 2022

Metrics

Publication: 84

Citation (WoS): 1666

Citation (Scopus): 1805

H-Index (WoS): 23

H-Index (Scopus): 23