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Personal Information

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Education Information

Doctorate, Ondokuz Mayıs Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 2001 - 2008

Postgraduate, Ondokuz Mayıs Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1999 - 2001

Undergraduate, Ondokuz Mayıs Üniversitesi, Eğitim Fakültesi, Kimya Öğretmenliği, Turkey 1994 - 1998

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Asitle Aktifleştirilmiş-, Metal- ve Karışık Metal-İşli Bentonitlerin Brønsted ve Lewis Asitliklerinin Çeşitli Yüze Analiz Teknikleriyle İncelenmesi. , Ondokuz Mayıs Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2008

Postgraduate, FTIR, XRD, Termal Analiz ve Yüze Alanı Ölçümleriyle İncelenmiş Çeşitli Kaolin-DMSO-Organik Türleri. , Ondokuz Mayıs Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2001

Research Areas

Chemistry, Physical Chemistry, Surface Chemistry, Natural Sciences

Academic Titles / Tasks

Associate Professor, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2013 - Continues

Assistant Professor, Erzincan Binali Yıldırım University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2008 - 2013

Research Assistant, Ondokuz Mayıs Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1999 - 2001

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

- Bi₂S₃ nanorods decorated on bentonite nanocomposite for enhanced visible-light-driven photocatalytic performance towards degradation of organic dyes**
Çağlar B., Keleş Güner E., Ersoy S., Çağlar S., Özdemir A. O. , Özdokur K. V. , Doğan B., İçer F., Çırak Ç.
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- Application of BiFeO₃ and Au/BiFeO₃ decorated kaolinite nanocomposites as efficient photocatalyst**

for degradation of dye and electrocatalyst for oxygen reduction reaction

ÇAĞLAR B., Guner E., ÖZDOKUR K. V. , ÖZDEMİR A. O. , İÇER F., ÇAĞLAR S., Doğan B., BEŞER B. M. , ÇIRAK Ç., Tabak A., et al.

Journal of Photochemistry and Photobiology A: Chemistry, vol.418, 2021 (Journal Indexed in SCI)

- IV. **Binuclear silver(I) complexes with the non-steroidal anti-inflammatory drug tolfenamic acid: Synthesis, characterization, cytotoxic activity and evaluation of cellular mechanism of action**
Harurluoglu B., ALTAY A., ÇAĞLAR S., Yeniceri E. K. K. , ÇAĞLAR B., ŞAHİN Z. S.
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- V. **In Vitro Anticancer Activity of Novel Co(II) and Ni(II) Complexes of Non-steroidal Anti-inflammatory Drug Niflumic Acid Against Human Breast Adenocarcinoma MCF-7 Cells**
ÇAĞLAR S., ALTAY A., KUZUCU M., ÇAĞLAR B.
CELL BIOCHEMISTRY AND BIOPHYSICS, 2021 (Journal Indexed in SCI)
- VI. **A novel amperometric H₂O₂ biosensor constructed by cross peroxidase entrapped on BiFeO₃ nanoparticles**
Çağlar B., İçer F., Özdokur K. V. , Çağlar S., Özdemir A. O. , Keleş Güner E., Beşer B. M. , Altay A., Çırak Ç., Doğan B., et al.
Materials Chemistry and Physics, vol.262, 2021 (Journal Indexed in SCI)
- VII. **Solid-state Electrochemical Sensor Based on a Cross-linked Copper(II)-doped Copolymer and Carbon Nanotube Material for Selective and Sensitive Detection of Monohydrogen Phosphate**
Topcu C., ÇOLDUR F., ÇAĞLAR B., ÖZDOKUR K. V. , ÇUBUK O.
Electroanalysis, 2021 (Journal Indexed in SCI Expanded)
- VIII. **The enhanced light harvesting performance of dye-sensitized solar cells based on ZnO nanorod-TiO₂ nanotube hybrid photoanodes**
BOZKURT ÇIRAK B., EDEN Ç., ERDOĞAN Y., DEMİR Z., ÖZDOKUR K. V. , ÇAĞLAR B., MORKOÇ KARADENİZ S., KILINÇ T., EKİNCİ A. E. , ÇIRAK Ç.
OPTİK, vol.203, no.163963, pp.1-7, 2020 (Journal Indexed in SCI Expanded)
- IX. **Preparation and characterization of a novel activated carbon component via chemical activation of tea woody stem**
Tabak A., Sevimli K., KAYA M., ÇAĞLAR B.
Journal of Thermal Analysis and Calorimetry, vol.138, no.6, pp.3885-3895, 2019 (Journal Indexed in SCI)
- X. **Silver(I) complexes containing diclofenac and niflumic acid induce apoptosis in human-derived cancer cell lines**
ALTAY A., ÇAĞLAR S., ÇAĞLAR B.
ARCHIVES OF PHYSIOLOGY AND BIOCHEMISTRY, 2019 (Journal Indexed in SCI)
- XI. **Novel silver(I) complexes bearing mefenamic acid and pyridine derivatives: Synthesis, chemical characterization and in vitro anticancer evaluation**
ALTAY A., ÇAĞLAR S., ÇAĞLAR B., ŞAHİN Z. S.
INORGANICA CHIMICA ACTA, vol.493, pp.61-71, 2019 (Journal Indexed in SCI)
- XII. **Y Synthesis, characterization, and in vitro effect of the Cu(II) complex with niflumic acid and 3-picoline on paraoxanase-I**
DİLEK E., ÇAĞLAR S., Cardak S., Karakoc B., ÇAĞLAR B., ŞAHİN O.
ARCHIV DER PHARMAZIE, vol.352, no.6, 2019 (Journal Indexed in SCI)
- XIII. **Novel Copper(II)-Selective Potentiometric Sensor Based on a Folic Acid-Functionalized Carbon Nanotube Material**
Topcu C., ÇAĞLAR B., KELEŞ GÜNER E., ÇOLDUR F., ÇAĞLAR S., Yildirim O., ÖZDOKUR K. V. , ÇUBUK O.
ANALYTICAL LETTERS, vol.52, no.16, pp.2524-2545, 2019 (Journal Indexed in SCI)
- XIV. **Synthesis of TiO₂ nanotube/ZnO nanorod hybrid nanocomposite photoanodes for dye-sensitized solar cells**
Bozkurt Çırak B., Demir Z., Eden C., Erdogan Y., Çağlar B., Morkoç Karadeniz S., Kılınç T., Ekinçi A. E. , Çırak Ç.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.30, no.7, pp.6335-6341, 2019 (Journal Indexed in SCI)

- XV. **Voltammetric detection of chlorite ion using carbon paste sensor modified with N-cetylpyridinium-bentonite**
ÇUBUK O., Colak I., ÖZDOKUR K. V. , ÇAĞLAR B., ÇOLDUR F., TOPCU C.
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.99, no.4, pp.343-356, 2019
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- XVI. **Synthesis and characterization of ZnO nanorice decorated TiO₂ nanotubes for enhanced photocatalytic activity**
Bozkurt Çırak B., Çağlar B., Kılınc T., Morkoç Karadeniz S., Erdogan Y., Kılıç S., Kahveci E., Ekinci A. E. , Çırak Ç.
MATERIALS RESEARCH BULLETIN, vol.109, pp.160-167, 2019 (Journal Indexed in SCI)
- XVII. **Fe₃O₄ nanoparticles decorated smectite nanocomposite: Characterization, photocatalytic and electrocatalytic activities**
ÇAĞLAR B., KELEŞ GÜNER E., Keles K., ÖZDOKUR K. V. , ÇUBUK O., ÇOLDUR F., ÇAĞLAR S., TOPCU C., TABAK A.
SOLID STATE SCIENCES, vol.83, pp.122-136, 2018 (Journal Indexed in SCI)
- XVIII. **Fabrication of TiO₂/ZnO/Pt nanocomposite electrode with enhanced electrocatalytic activity for methanol oxidation**
Özdokur K. V. , Bozkurt Çırak B., Çağlar B., Çırak Ç., Morkoç Karadeniz S., Kılınc T., Erdogan Y., Ekinci A. E.
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- XIX. **Synthesis, structural, thermal elucidation and in vitro anticancer activity of novel silver(I) complexes with non-steroidal anti-inflammatory drugs diclofenac and mefenamic acid including picoline derivatives**
ALTAY A., ÇAĞLAR S., ÇAĞLAR B., ŞAHİN O.
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- XX. **Electrochemical Determination of Copper(II) in Water Samples Using a Novel Ion-Selective Electrode Based on a Graphite Oxide-Imprinted Polymer Composite**
Topcu C., LACIN G., YILMAZ V., ÇOLDUR F., ÇAĞLAR B., ÇUBUK O., İŞILDAK İ.
Analytical Letters, vol.51, no.12, pp.1890-1910, 2018 (Journal Indexed in SCI)
- XXI. **Synthesis and characterization of four novel palladium(II) and platinum(II) complexes with 1-(2-aminoethyl)pyrrolidine, diclofenac and mefenamic acid: In vitro effect of these complexes on human serum paraoxanase1 activity**
DİLEK E., ÇAĞLAR S., Erdogan K., ÇAĞLAR B., Sahin O.
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- XXII. **Structural characterization of chitosan-smectite nanocomposite and its application in the development of a novel potentiometric monohydrogen phosphate-selective sensor**
Topcu C., ÇAĞLAR B., ÖNDER A., ÇOLDUR F., ÇAĞLAR S., Guner E. K. , ÇUBUK O., Tabak A.
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- XXIII. **Synthesis, surface properties, crystal structure and dye sensitized solar cell performance of TiO₂ nanotube arrays anodized under different voltages**
Bozkurt Çırak B., Karadeniz S. M. , Kılınc T., Çağlar B., Ekinci A. E. , Yelgin H., Kurekci M., Çırak Ç.
VACUUM, vol.144, pp.183-189, 2017 (Journal Indexed in SCI)
- XXIV. **Synthesis, crystal structure, spectroscopy, thermal properties and carbonic anhydrase activities of new metal(II) complexes with mefenamic acid and picoline derivatives**
DİLEK E., ÇAĞLAR S., DOĞANÇAY N., ÇAĞLAR B., ŞAHİN O., TABAK A.
JOURNAL OF COORDINATION CHEMISTRY, no.70, pp.2833-2852, 2017 (Journal Indexed in SCI Expanded)
- XXV. **Structural characterization of the silk of two-spotted spider mite Tetranychus urticae Koch (Acari: Tetranychidae)**
Doğan S., Çağlar M., Çağlar B., Çırak Ç., Zeytun E.
SYSTEMATIC AND APPLIED ACAROLOGY, vol.22, no.4, pp.572-583, 2017 (Journal Indexed in SCI)
- XXVI. **Structural, thermal and morphological properties of a novel poly(acrylamide-co-methacrylic acid)/organoclay nanocomposite**
ÇAĞLAR B., ÇOLDUR F., ÇAĞLAR S., ÇUBUK O., Tabak A., Topcu C.
INORGANIC AND NANO-METAL CHEMISTRY, vol.47, no.3, pp.360-364, 2017 (Journal Indexed in SCI)

- XXVII. **Flow Injection Potentiometric Determination of Silver(I) in Photographic Film Developing Solution Samples by Polyvinylchloride Membrane Silver(I) Selective Electrode**
TOPCU C., ÇOLDUR F., ANDAÇ M., ÇUBUK O., KANBEROĞLU G. S., ÇAĞLAR B., ISILDAK I.
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.38, pp.882-888, 2016 (Journal Indexed in SCI Expanded)
- XXVIII. **Characterization of a hybrid-smectite nanomaterial formed by immobilizing of N-pyridin-2-ylmethylsuccinamic acid onto (3-aminopropyl) triethoxysilane modified smectite and its potentiometric sensor application**
Topcu C., ÇAĞLAR S., ÇAĞLAR B., ÇOLDUR F., ÇUBUK O., Sarp G., Gedik K., Cirak B. B., Tabak A.
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- XXIX. **New copper(II) complexes including pyridine-2,5-dicarboxylic acid: synthesis, spectroscopic, thermal properties, crystal structure and how these complexes interact with purified PON 1 enzyme**
ÇAĞLAR S., DİLEK E., Hamamci Alisir S., ÇAĞLAR B.
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- XXX. **Statistical investigation of the cotton dyeing kinetics of CI Reactive Black 5 dye**
ÖZDEMİR A. O., ÇAĞLAR B., Tutak M., Demiryürek O.
COLORATION TECHNOLOGY, vol.132, no.2, pp.130-134, 2016 (Journal Indexed in SCI)
- XXXI. **DEVELOPING A STATISTICAL MODEL OF CI REACTIVE RED 194 DYE EXHAUSTION ON COTTON FABRIC USING DIFFERENT DYEING PARAMETERS**
ÖZDEMİR A. O., ÇAĞLAR B., Tutak M., Demiryürek O.
CELLULOSE CHEMISTRY AND TECHNOLOGY, vol.50, pp.497-504, 2016 (Journal Indexed in SCI)
- XXXII. **Structural, thermal, morphological and surface charge properties of dodecyltrimethylammonium-smectite composites**
ÇAĞLAR B., Topcu C., ÇOLDUR F., SARP G., ÇAĞLAR S., TABAK A., SAHİN E.
JOURNAL OF MOLECULAR STRUCTURE, vol.1105, pp.70-79, 2016 (Journal Indexed in SCI)
- XXXIII. **A Novel Flow-Injection Potentiometric Detector for Determination of Tamoxifen in Anticancer Drug Formulations**
Kanberoğlu G. S., ÇOLDUR F., ÇUBUK O., Topcu C., ÇAĞLAR B.
Sensor Letters, vol.14, no.1, pp.59-64, 2016 (Journal Indexed in SCI Expanded)
- XXXIV. **New metal complexes with diclofenac containing 2-pyridineethanol or 2-pyridinepropanol: synthesis, structural, spectroscopic, thermal properties, catechol oxidase and carbonic anhydrase activities**
ÇAĞLAR S., DİLEK E., ÇAĞLAR B., Adiguzel E., Temel E., Buyukgungor O., Tabak A.
JOURNAL OF COORDINATION CHEMISTRY, vol.69, no.22, pp.3321-3335, 2016 (Journal Indexed in SCI)
- XXXV. **Characterization of AlFe-pillared Unye bentonite: A study of the surface acidity and catalytic property**
ÇAĞLAR B., ÇUBUK O., Demir E., ÇOLDUR F., Catir M., Topcu C., TABAK A.
JOURNAL OF MOLECULAR STRUCTURE, vol.1089, pp.59-65, 2015 (Journal Indexed in SCI)
- XXXVI. **Structural characterization of hexadecyltrimethylammonium-smectite composites and their potentiometric electrode applications**
ÇUBUK O., ÇAĞLAR B., Topcu C., ÇOLDUR F., SARP G., TABAK A., SAHİN E.
APPLIED SURFACE SCIENCE, vol.338, pp.99-112, 2015 (Journal Indexed in SCI)
- XXXVII. **Adsorption of lysozyme from aqueous solutions by a novel bentonite-tyrptophane (Bent-Trp) microcomposite affinity sorbent**
Kalburcu T., TABAK A., Ozturk N., Tuzmen N., AKGÖL S., ÇAĞLAR B., DENİZLİ A.
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- XXXVIII. **Pyronin Y (basic xanthene dye)-bentonite composite: A spectroscopic study**
TABAK A., KAYA M., Yılmaz N., MERAL K., ONGANER Y., ÇAĞLAR B., SUNGUR O.
JOURNAL OF MOLECULAR STRUCTURE, vol.1059, pp.271-279, 2014 (Journal Indexed in SCI)
- XXXIX. **Four copper(II) diclofenac complexes with pyridine derivatives: Synthesis, crystal structures, spectroscopic properties, thermal analysis and catechol oxidase activities**

- ÇAĞLAR S., AYDEMİR I. E. , Adiguzel E., ÇAĞLAR B., Demir S., Buyukgungor O.
INORGANICA CHIMICA ACTA, vol.408, pp.131-138, 2013 (Journal Indexed in SCI)
- XL. **Synthesis, crystal structure, spectroscopic, thermal, catechol oxidase and catalase-like studies: New copper(II) complexes of 2-benzoylbenzoate and 2-pyridilpropanol ligands**
ÇAĞLAR S., Adiguzel E., ÇAĞLAR B., SAYKAL T., ŞAHİN E., Buyukgungor O.
INORGANICA CHIMICA ACTA, vol.397, pp.101-109, 2013 (Journal Indexed in SCI)
- XL1. **Covalent grafting of pyridine-2-methanol into kaolinite layers**
ÇAĞLAR B., ÇIRAK Ç., TABAK A., Afsin B., Eren E.
JOURNAL OF MOLECULAR STRUCTURE, vol.1032, pp.12-22, 2013 (Journal Indexed in SCI)
- XLII. **CHARACTERIZATION OF UNYE BENTONITE AFTER TREATMENT WITH SULFURIC ACID**
ÇAĞLAR B., Afsin B., Koksal E., Tabak A., Eren E.
QUIMICA NOVA, vol.36, no.7, pp.955-959, 2013 (Journal Indexed in SCI)
- XLIII. **Structural characterization of kaolinite-nicotinamide intercalation composite**
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- XLIV. **Two New 2-Benzoylbenzoate Metal Complexes with Bapen: Synthesis, Spectroscopic and Crystal Structures**
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- XLV. **Structural analysis of naproxen-intercalated bentonite (Unye)**
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- XLVI. **Structural Characterization of Aniline-Bentonite Composite by FTIR, DTA/TG, and PXRD Analyses and BET Measurement**
Koksal E., Afsin B., Tabak A., ÇAĞLAR B.
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- XLVII. **The Spectral, Structural and Thermal Characterizations of Dimethyl Sulphoxide, Pyridine, Ethanolamine and N-Methyl Formamide Intercalated Kaolinites**
ÇAĞLAR B., Afsin B., Eren E., Tabak A., ÇIRAK Ç., ÇUBUK O.
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- XLVIII. **Adsorption of Reactive Red 120 from aqueous solutions by cetylpyridinium-bentonite**
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- XLIX. **Adsorption of basic dye from aqueous solutions by modified sepiolite: Equilibrium, kinetics and thermodynamics study**
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- L. **EQUILIBRIUM AND KINETIC STUDIES ON THE REMOVAL OF BASIC DYE USING RAW AND THERMAL-ACTIVATED FATSİA BENTONITE**
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- LI. **Characterization of the cation-exchanged bentonites by XRPD, ATR, DTA/TG analyses and BET measurement**
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- LII. **Determination of adsorptive properties of a Turkish Sepiolite for removal of Reactive Blue 15 anionic dye from aqueous solutions**
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- LIII. **Characterization and pillaring of a Turkish bentonite (Resadiye)**
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- LIV. **Benzamide species retained by DMSO composites at a kaolinite surface**
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Articles Published in Other Journals

- I. **ASİT AKTİFLEŞTİRİLMİŞ BENTONİT (ÜNYE) NUMELERİNDEKİ ASİDİK MERKEZLERİNİN TEŞHİSİ**
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EÜFBED - Fen Bilimleri Enstitüsü Dergisi, vol.3, no.1, pp.73-89, 2010 (National Refreed University Journal)
- II. **Asit aktifleştirilmiş Bentonit (Ünye) Numunelerindeki Asidik Merkezlerin Teşhisi**
ÇAĞLAR B., ÇUBUK O., DURDAĞI S.
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Refereed Congress / Symposium Publications in Proceedings

- I. **Çeşitli geliştirilmiş Bentonit (Ünye) Yüzeylerindeki Format Türleri. The Formate Species on Various Modified Bentonite (Unye) Surfaces**
ÇAĞLAR B., TABAK A., AFSIN B., EREN E.
14. Ulusal Kil Sempozyumu Konferansı, Trabzon, Turkey, pp.576
- II. **Formic Acid Decomposition on Iron Oxide-Coated Bentonite**
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- III. **Organik Katyonlarla Modifiye Edilmiş Bentonit Yüzeyleri**
TABAK A., ÇAĞLAR B., AFSIN B.
XVI. Ulusal Kimya Kongresi, Konya, Turkey, pp.6
- IV. **Katyon Değiştirilmiş, Aktifleştirilmiş ve İşlenmiş Bentonitlerin Asitliklerinin n-Bütilamin Tutunması ile İncelenmesi**
TABAK A., ÇAĞLAR B., AFSIN B., EREN E.
XXII. Ulusal Kimya Kongresi, Cyprus (Kkctc)
- V. **Kaolin-N-Metil Formamid Ara-yüzey Etkileşmeleri**
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- VI. **Reactive Red 120 ve Reactive Blue 15 Boya Türlerinin Sepiolit Üzerinde Adsorpsiyon Davranışlarının İncelenmesi**
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- VII. **An FTIR Study of Diphenylamine Adsorption By Sepiolite Surfaces**
TABAK A., ÇAĞLAR B., AFSIN B.
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- VIII. **Kaolin-Dimetilsülfoksit Ara-Yüzeyinde Benzamid Molekülünün Araya Girebilirliği**
TABAK A., ÇAĞLAR B., AFSIN B.
XV. Ulusal Kimya Kongresi, İstanbul, Turkey, pp.39
- IX. **Naproxen ile Etkileştirilmiş Bentonitin (Ünye) Karakterizasyonu. The Characterization of Bentonite (Ünye) treated with Naproxen**
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14. Ulusal Kil Sempozyumu Konferansı, Trabzon, Turkey, pp.676
- X. **A spectroscopic study on the intermolecular interactions between the existing species of an azo dye in different solvents: a combined UV-VIS and Raman study**
EREN E., ÇAĞLAR B., TABAK A.
XXI. Ulusal Kimya Kongresi, Malatya, Turkey, pp.203
- XI. **İşli Ünye Bentonitlerin Yapısal Özelliklerinin İncelenmesi**
TABAK A., ÇAĞLAR B., AFSİN B., EREN E.
XXII. Ulusal Kimya Kongresi, Cyprus (Kkct)
- XII. **Fe/Al-Sütunlanmış bentonitin yapısal özellikleri ve katalitik etkisi**
ÇAĞLAR B., ÇUBUK O., DEMİR E., SUNGUR O., TABAK A.
III. Fiziksel Kimya Günleri, Balıkesir, Turkey, pp.96
- XIII. **Kaolin/Dimetilsülfoksit Ara-Yüzey Etkileşmeleri**
ÇAĞLAR B., TABAK A., AFSİN B.
10. Ulusal Kil Sempozyumu, Konya, Turkey, pp.84
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