

## Prof. Semra KARACA

### Personal Information

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### International Researcher IDs

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### Biography

Semra Karaca is a professor working in Department of Chemistry at the Atatürk University. She received his MSc. in 1987 and his PhD in 1993 in Analytical Chemistry from Atatürk University. She became professor in 2009 at Atatürk University. She collaborated with Tabriz University within the scope of 2221 TÜBİTAK project between 2014-2015 years. Her mainly research interests contain clays, organo clays, synthesis, characterization and applications of nanostructured catalysts for the removal of contaminant compounds by using adsorption and advanced oxidation processes (AOPs) involving ultrasound-assisted, photocatalysis, ozonation, Fenton and Sono-Fenton processes. She still continues to work in the same department.

### Education Information

Doctorate, Ataturk University, Fen Fakültesi, Kimya/Analitik Kimya, Turkey 1987 - 1993

Postgraduate, Ataturk University, Fen Fakültesi, Kimya/Analitik Kimya, Turkey 1985 - 1987

Undergraduate, Ataturk University, Fen Fakültesi, Kimya, Turkey 1981 - 1985

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Çözücü Ortamlarında Klorinasyonla Linyitlerin Desülfürizasyon Kinetiği, Atatürk Üniversitesi, Fen Fakültesi, Kimya/Analitik Kimya, 1993

Postgraduate, Erzurum Kenti ve Çevresinde Kar İçindeki Asit Çökeltilerinin Tayini, Atatürk Üniversitesi, Fen Fakültesi, Kimya/Analitik Kimya, 1987

### Research Areas

Chemistry, Physical Chemistry, Chemical Kinetics, Composites, Thermodynamics, Surface Chemistry, Natural Sciences

### Academic Titles / Tasks

Professor, Ataturk University, Fen Fakültesi, Kimya, 2009 - Continues  
Associate Professor, Ataturk University, Fen Fakültesi, Kimya, 2004 - 2009  
Assistant Professor, Ataturk University, Fen Fakültesi, Kimya, 1994 - 2004  
Research Assistant PhD, Ataturk University, Fen Fakültesi, Kimya, 1993 - 1994  
Research Assistant, Ataturk University, Fen Fakültesi, Kimya, 1986 - 1993

## Academic and Administrative Experience

Performans Değerlendirme Komisyonu Başkanı, Ataturk University, Fen Fakültesi, Kimya, 2021 - Continues  
Bölüm Akademik Teşvik Değerlendirme Komisyonu Başkanı, Ataturk University, Fen Fakültesi, Kimya, 2019 - Continues  
Bölüm Kalite Komisyonu Başkanı, Ataturk University, Fen Fakültesi, Kimya, 2019 - Continues  
Head of Department, Ataturk University, Fen Fakültesi, Kimya, 2019 - Continues  
Fakülte Kurulu Üyesi, Ataturk University, Fen Fakültesi, Kimya, 2019 - Continues

## Courses

Polimer Kimyası, Undergraduate, 2022 - 2023  
Fizikokimya Laboratuvarı II, Undergraduate, 2021 - 2022  
İLERİ FİZİKOKİMYA-I, Postgraduate, 2022 - 2023  
Fizikokimya Laboratuvarı II, Undergraduate, 2021 - 2022  
Proje I, Undergraduate, 2021 - 2022  
Fizikokimya, Undergraduate, 2022 - 2023  
Kimyasal Kinetik, Undergraduate, 2020 - 2021  
Proje-II, Undergraduate, 2021 - 2022, 2020 - 2021  
Fizikokimya Laboratuvarı-II, Undergraduate, 2020 - 2021  
Fizikokimya Laboratuvarı-I, Undergraduate, 2021 - 2022, 2020 - 2021  
Proje-I, Undergraduate, 2020 - 2021  
ADSORPSİYON İZOTERMLERİ VE UYGULAMALARI, Postgraduate, 2020 - 2021  
Polimer Kimyası, Undergraduate, 2020 - 2021  
Termal Analiz, Postgraduate, 2016 - 2017  
Polimerlerin Termal ve Mekanik Özellikleri, Doctorate, 2016 - 2017  
Teknik Kimya, Undergraduate, 2016 - 2017

## Advising Theses

Karaca S., MANYETİT MİNERALİ KULLANILARAK FENTON PROSESİYLE SULU ÇÖZELTİLERDEN FARMASOTİK MADDELERİN GİDERİMİ, Postgraduate, M.KARACA(Student), 2017  
Karaca S., Manyetit nanopartiküller kullanılarak sono-fenton prosesiyle sulu çözeltilerden boya giderimi, Postgraduate, C.KARACA(Student), 2017  
Karaca S., TiO<sub>2</sub>/montmorillonit nanokompozitinin sentezi ve sulu çözeltilerden ilaç türü kirleticilerin fotokatalitik oksidasyon ve fotokatalitik ozonlama prosesleriyle bozundurulmasına yönelik uygulamalar: Proseslerin modellenmesi ve optimizasyonu, Doctorate, A.HASSANI(Student), 2016  
Karaca S., Fotokatalitik ozonlamayla sulu çözeltilerden ilaç giderimi, Postgraduate, I.NİHAN(Student), 2016  
Karaca S., ZnO/montmorillonit nanokompozitinin sentezi ve bazı organik kirleticilerin fotokatalitik-ozonlama prosesi ile gideriminde kullanım etkinliğinin incelenmesi, Doctorate, M.KIRANŞAN(Student), 2015  
Karaca S., Kuaterner amonyum tuzlarının monomerik ve misel şeklinde adsorpsiyonu, Doctorate, Ö.AÇIŞLI(Student), 2014  
Karaca S., PEO/organokil ve PE/organokil nanokompozitlerinin hazırlanması ve karakterizasyonu, Doctorate,

M.EJDER(Student), 2010

Karaca S., CTAB'ın kıl/su ara yüzeyine monomerik ve miseler adsorpsiyonu, Postgraduate, F.AKSAKAL(Student), 2008

Karaca S., Ham ve kalsine edilmiş dolomit yüzeyine sulu çözeltilerden fosfat adsorpsiyonu, Postgraduate,

M.EJDER(Student), 2004

Karaca S., Pirolizle linyitlerin yüzey özelliklerinin ve adsorpsiyon kapasitelerinin değiştirilmesi, Postgraduate,

R.BAYRAK(Student), 2002

Karaca S., Değişik gaz atmosferlerinde Balkaya linyitinin desülfürizasyonu, Postgraduate, Ö.AÇIŞLI(Student), 2002

Karaca S., Aşkale linyitlerinden nitrik asit çözeltileriyle piritik kükürt giderimi, Postgraduate, M.AKYÜREK(Student), 1998

## Jury Memberships

Appointment to Academic Staff-Professorship, Appointment Academic Staff, Atatürk Üniversitesi, September, 2022

Doctorate, Doctorate, Atatürk Üniversitesi, August, 2022

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Atatürk Üniversitesi, April, 2022

Academic Staff Examination, Academic Staff Examination, Atatürk Üniversitesi, September, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Atatürk Üniversitesi, August, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, June, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Atatürk Üniversitesi, January, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2021

Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Atatürk Üniversitesi, January, 2021

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

- I. **Comparative investigation of monomeric and micellar adsorption of cetyltrimethylammonium bromide and tetradecyltrimethylammonium bromide from their aqueous solutions**  
Açışlı Ö., Karaca S., Gürses A.  
Desalination and Water Treatment, vol.259, pp.170-185, 2022 (SCI-Expanded)
- II. **Investigation of the removal of sulfamethoxazole drug waste from aqueous solutions under the effect of zinc oxide/montmorillonite nanocomposite by photocatalytic ozonation process**  
Özyürek I. N., Kıranşan M., Karaca S.  
Desalination And Water Treatment, vol.242, pp.144-161, 2021 (SCI-Expanded)
- III. **Strontium oxide modified mesoporous graphitic carbon nitride/titanium dioxide nanocomposites (SrO-mpg-CN/TiO<sub>2</sub>) as efficient heterojunction photocatalysts for the degradation of tetracycline in water**  
Kılıç D., Sevim M., Eroğlu Z., Metin Ö., Karaca S.  
Advanced Powder Technology, vol.32, no.8, pp.2743-2757, 2021 (SCI-Expanded)
- IV. **Preparation of chitosan modified montmorillonite biocomposite for sonocatalysis of dyes: Parameters and degradation mechanism**  
KARACA S., Önal E. Ç., AÇIŞLI Ö., Khataee A.  
Materials Chemistry and Physics, vol.260, 2021 (SCI-Expanded)
- V. **Photocatalytic ozonation of ciprofloxacin from aqueous solution using TiO<sub>2</sub>/MMT nanocomposite: Nonlinear modeling and optimization of the process via artificial neural network integrated genetic algorithm**  
Hassani A., Khataee A., Fathinia M., KARACA S.  
PROCESS SAFETY AND ENVIRONMENTAL PROTECTION, vol.116, pp.365-376, 2018 (SCI-Expanded)
- VI. **Preparation of magnetite nanoparticles by high-energy planetary ballmill and its application for ciprofloxacin degradation through heterogeneous Fenton process**  
HASSANI A., KARACA M., KARACA S., Khataee A., AÇIŞLI Ö., YILMAZ B.

Journal Of Environmental Management, vol.211, pp.53-62, 2018 (SCI-Expanded)

- VII. **Enhanced removal of basic violet 10 by heterogeneous sono-Fenton process using magnetite nanoparticles**  
Hassani A., Karaca C., Karaca S., Khataee A., Açışlı Ö., Yılmaz B.  
ULTRASONICS SONOCHEMISTRY, vol.42, pp.390-402, 2018 (SCI-Expanded)
- VIII. **Heterogeneous sono-Fenton-like process using magnetic cobalt ferrite reduced graphene oxide (CoFe<sub>2</sub>O<sub>4</sub>-rGO) nanocomposite for the removal of organic dyes from aqueous solution**  
Hassani A., Celikdag G., Eghbali P., SEVİM M., KARACA S., Metin O.  
ULTRASONICS SONOCHEMISTRY, vol.40, pp.841-852, 2018 (SCI-Expanded)
- IX. **Investigation of the alkyl chain lengths of surfactants on their adsorption by montmorillonite (Mt) from aqueous solutions**  
Açışlı Ö., Karaca S., Gürses A.  
APPLIED CLAY SCIENCE, vol.142, pp.90-99, 2017 (SCI-Expanded)
- X. **Photocatalytic ozonation of metronidazole by synthesized zinc oxide nanoparticles immobilized on montmorillonite**  
KHATAEE A., KIRANSAN M., KARACA S., SHEYDAEI M.  
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.74, pp.196-204, 2017 (SCI-Expanded)
- XI. **Degradation of mixture of three pharmaceuticals by photocatalytic ozonation in the presence of TiO<sub>2</sub>/montmorillonite nanocomposite: Simultaneous determination and intermediates identification**  
HASSANI A., Khataee A., KARACA S., Fathinia M.  
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.5, no.2, pp.1964-1976, 2017 (SCI-Expanded)
- XII. **Ultrasound-assisted Fenton process using siderite nanoparticles prepared via planetary ball milling for removal of reactive yellow 81 in aqueous phase**  
AÇIŞLI Ö., KHATAEE A., SOLTANI R. D. C., KARACA S.  
ULTRASONICS SONOCHEMISTRY, vol.35, pp.210-218, 2017 (SCI-Expanded)
- XIII. **Sonocatalytic degradation of ciprofloxacin using synthesized TiO<sub>2</sub> nanoparticles on montmorillonite**  
HASSANI A., KHATAEE A., KARACA S., KARACA C., GHOLAMI P.  
ULTRASONICS SONOCHEMISTRY, vol.35, pp.251-262, 2017 (SCI-Expanded)
- XIV. **Combination of ultrasonic and Fenton processes in the presence of magnetite nanostructures prepared by high energy planetary ball mill**  
AÇIŞLI Ö., KHATAEE A., KARACA S., KARIMI A., DOĞAN E.  
ULTRASONICS SONOCHEMISTRY, vol.34, pp.754-762, 2017 (SCI-Expanded)
- XV. **Poly(ethylene oxide)/clay nanocomposites: Thermal and mechanical properties**  
Ejder-Korucu M., GÜRSES A., KARACA S.  
APPLIED SURFACE SCIENCE, vol.378, pp.1-7, 2016 (SCI-Expanded)
- XVI. **Sonocatalytic removal of naproxen by synthesized zinc oxide nanoparticles on montmorillonite**  
KARACA M., KIRANSAN M., KARACA S., KHATAEE A., KARIMI A.  
ULTRASONICS SONOCHEMISTRY, vol.31, pp.250-256, 2016 (SCI-Expanded)
- XVII. **Modification of nanosized natural montmorillonite for ultrasound-enhanced adsorption of Acid Red 17**  
AÇIŞLI Ö., KHATAEE A., KARACA S., SHEYDAEI M.  
ULTRASONICS SONOCHEMISTRY, vol.31, pp.116-121, 2016 (SCI-Expanded)
- XVIII. **Ultrasound-assisted adsorption of textile dyes using modified nanoclay: Central composite design optimization**  
HASSANI A., SOLTANI R. D. C., KIRANSAN M., KARACA S., KARACA C., KHATAEE A.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.33, no.1, pp.178-188, 2016 (SCI-Expanded)
- XIX. **Preparation and characterization of ZnO/MMT nanocomposite for photocatalytic ozonation of a disperse dye**  
Khataee A., Kiransan M., KARACA S., Arefi-Oskoui S.  
TURKISH JOURNAL OF CHEMISTRY, vol.40, no.4, pp.546-564, 2016 (SCI-Expanded)
- XX. **Heterogeneous photocatalytic ozonation of ciprofloxacin using synthesized titanium dioxide**

**nanoparticles on a montmorillonite support: parametric studies, mechanistic analysis and intermediates identification**

Hassani A., Khataee A., KARACA S., Fathinia M.

RSC ADVANCES, vol.6, no.90, pp.87569-87583, 2016 (SCI-Expanded)

- XXI. **Surfactant-modified montmorillonite as a nanosized adsorbent for removal of an insecticide: kinetic and isotherm studies**  
HASSANI A., KHATAEE A., KARACA S., SHIRZAD-SIBONI M.  
ENVIRONMENTAL TECHNOLOGY, vol.36, no.24, pp.3125-3135, 2015 (SCI-Expanded)
- XXII. **Photocatalytic degradation of ciprofloxacin by synthesized TiO<sub>2</sub> nanoparticles on montmorillonite: Effect of operation parameters and artificial neural network modeling**  
HASSANI A., KHATAEE A., KARACA S.  
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, vol.409, pp.149-161, 2015 (SCI-Expanded)
- XXIII. **Adsorption of two cationic textile dyes from water with modified nanoclay: A comparative study by using central composite design**  
HASSANI A., KHATAEE A., KARACA S., KARACA M., KIRANSAN M.  
Journal of Environmental Chemical Engineering, vol.3, no.4, pp.2738-2749, 2015 (SCI-Expanded)
- XXIV. **Artificial neural network modeling of photocatalytic removal of a disperse dye using synthesized ZnO nanoparticles on montmorillonite**  
KIRANSAN M., KHATAEE A., KARACA S., SHEYDAEI M.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.140, pp.465-473, 2015 (SCI-Expanded)
- XXV. **Preparation, characterization and application of a CTAB-modified nanoclay for the adsorption of an herbicide from aqueous solutions: Kinetic and equilibrium studies**  
SHIRZAD-SIBONI M., KHATAEE A., HASSANI A., KARACA S.  
COMPTES RENDUS CHIMIE, vol.18, no.2, pp.204-214, 2015 (SCI-Expanded)
- XXVI. **Preparation of montmorillonite-alginate nanobiocomposite for adsorption of a textile dye in aqueous phase: Isotherm, kinetic and experimental design approaches**  
Hassani A., Soltani R. D. C., KARACA S., Khataee A.  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.21, pp.1197-1207, 2015 (SCI-Expanded)
- XXVII. **Synthesis of Zinc Oxide Nanoparticles on Montmorillonite for Photocatalytic Degradation of Basic Yellow 28: Effect of Parameters and Neural Network Modeling**  
KIRANŞAN M., KHATAEE A., KARACA S., SHEYDAEI M.  
CURRENT NANOSCIENCE, vol.11, no.3, pp.343-353, 2015 (SCI-Expanded)
- XXVIII. **Optimization of the adsorption of a textile dye onto nanoclay using a central composite design**  
HASSANI A., KIRANSAN M., DARVISHI CHESHMEH SOLTANI R., KHATAEE A., KARACA S.  
TURKISH JOURNAL OF CHEMISTRY, vol.39, no.4, pp.734-749, 2015 (SCI-Expanded)
- XXIX. **Sonocatalytic removal of an organic dye using TiO<sub>2</sub>/Montmorillonite nanocomposite**  
KHATAEE A., SHEYDAEI M., HASSANI A., TASEIDIFAR M., KARACA S.  
ULTRASONICS SONOCHEMISTRY, vol.22, pp.404-411, 2015 (SCI-Expanded)
- XXX. **Investigation of thermal properties of PUF/clay nanocomposites**  
Dogar C., GÜRSES A., KARACA S., Koktepe S., MINDIVAN F., GÜNEŞ K.  
APPLIED SURFACE SCIENCE, vol.318, pp.59-64, 2014 (SCI-Expanded)
- XXXI. **Preparation and characterization of activated carbon from plant wastes with chemical activation**  
Acikyildiz M., GÜRSES A., KARACA S.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.198, pp.45-49, 2014 (SCI-Expanded)
- XXXII. **Preparation of cetyltrimethylammonium bromide modified montmorillonite nanomaterial for adsorption of a textile dye**  
KIRANSAN M., SOLTANI R. D. C., HASSANI A., KARACA S., KHATAEE A.  
JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.45, no.5, pp.2565-2577, 2014 (SCI-Expanded)
- XXXIII. **Adsorption of a cationic dye from aqueous solution using Turkish lignite: Kinetic, isotherm,**

**thermodynamic studies and neural network modeling**

HASSANI A., VAFAEI F., KARACA S., KHATAEE A. R.

JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.20, no.4, pp.2615-2624, 2014 (SCI-Expanded)

XXXIV. **Optimization of comparative removal of two structurally different basic dyes using coal as a low-cost and available adsorbent**

HASSANI A., ALICLOKHT L., KHATAEE A. R., KARACA S.

JOURNAL OF THE TAIWAN INSTITUTE OF CHEMICAL ENGINEERS, vol.45, no.4, pp.1597-1607, 2014 (SCI-Expanded)

XXXV. **Removal of methylene blue from aqueous solution using by untreated lignite as potential low-cost adsorbent: Kinetic, thermodynamic and equilibrium approach**

Gürses A., Hassani A., Kranşan M., Açışlı Ö., Karaca S.

JOURNAL OF WATER PROCESS ENGINEERING, vol.2, pp.10-21, 2014 (SCI-Expanded)

XXXVI. **Modeling of adsorption isotherms and kinetics of Remazol Red RB adsorption from aqueous solution by modified clay**

KARACA S., GÜRSES A., AÇIŞLI Ö., HASSANI A., KIRANSAN M., YIKILMAZ K.

DESALINATION AND WATER TREATMENT, vol.51, pp.2726-2739, 2013 (SCI-Expanded)

XXXVII. **Investigation of the Orientation of CTA(+) Ions in the Interlayer of CTAB Pillared Montmorillonite**

KARACA S., GÜRSES A., KORUCU M. E.

JOURNAL OF CHEMISTRY, 2013 (SCI-Expanded)

XXXVIII. **Dissolution of dolomite and magnesite by catalysis of carbonic anhydrase and apocarbonic anhydrase**

DEMİR N., NADAROĞLU H., Demir Y., Karaca S.

ENERGY EDUCATION SCIENCE AND TECHNOLOGY PART A-ENERGY SCIENCE AND RESEARCH, vol.28, no.2, pp.853-860, 2012 (SCI-Expanded)

XXXIX. **Monomer and micellar adsorptions of CTAB onto the clay/water interface**

GÜRSES A., KARACA S., AKSAKAL F., ACIKYILDIZ M.

DESALINATION, vol.264, pp.165-172, 2010 (SCI-Expanded)

XL. **Thermodynamics and mechanism of cetyltrimethylammonium adsorption onto clayey soil from aqueous solutions**

GÜRSES A., KARACA S., ACIKYILDIZ M., EJDER (KORUCU) M.

CHEMICAL ENGINEERING JOURNAL, vol.147, pp.194-201, 2009 (SCI-Expanded)

XLI. **Adsorption of cationic dye from aqueous solutions by activated carbon**

KARACA S., GÜRSES A., ACIKYILDIZ M., EJDER (KORUCU) M.

MICROPOROUS AND MESOPOROUS MATERIALS, vol.115, no.3, pp.376-382, 2008 (SCI-Expanded)

XLII. **An investigation on effects of various parameters on viscosities of coal-water mixture prepared with Erzurum-Askale lignite coal**

Gurses A., ACIKYILDIZ M., DOGAR C., Karaca S., Bayrak R.

FUEL PROCESSING TECHNOLOGY, vol.87, no.9, pp.821-827, 2006 (SCI-Expanded)

XLIII. **The adsorption kinetics of the cationic dye, methylene blue, onto clay**

Gurses A., DOGAR C., YALCIN M., ACIKYILDIZ M., Bayrak R., Karaca S.

JOURNAL OF HAZARDOUS MATERIALS, vol.131, pp.217-228, 2006 (SCI-Expanded)

XLIV. **Production of granular activated carbon from waste Rosa canina sp seeds and its adsorption characteristics for dye**

Gurses A., DOGAR C., Karaca S., ACIKYILDIZ M., Bayrak R.

JOURNAL OF HAZARDOUS MATERIALS, vol.131, pp.254-259, 2006 (SCI-Expanded)

XLV. **Adsorptive removal of phosphate from aqueous solutions using raw and calcinated dolomite**

Karaca S., Gurses A., EJDER M., ACIKYILDIZ M.

JOURNAL OF HAZARDOUS MATERIALS, vol.128, pp.273-279, 2006 (SCI-Expanded)

XLVI. **Investigation of applicability of the various adsorption models of methylene blue adsorption onto lignite/water interface**

Karaca S., Gurses A., Bayrak R.

- ENERGY CONVERSION AND MANAGEMENT, vol.46, no.1, pp.33-46, 2005 (SCI-Expanded)
- XLVII. **Kinetic modeling of liquid-phase adsorption of phosphate on dolomite**  
 Karaca S., Gurses A., EJDER M., ACIKYILDIZ M.  
 JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.277, no.2, pp.257-263, 2004 (SCI-Expanded)
- XLVIII. **Effect of some pre-treatments on the adsorption of methylene blue by Balkaya lignite**  
 Karaca S., Gurses A., Bayrak R.  
 ENERGY CONVERSION AND MANAGEMENT, vol.45, pp.1693-1704, 2004 (SCI-Expanded)
- XLIX. **Determination of adsorptive properties of clay/water system: methylene blue sorption**  
 Gurses A., Karaca S., DOGAR C., Bayrak R., ACIKYILDIZ M., YALCIN M.  
 JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.269, no.2, pp.310-314, 2004 (SCI-Expanded)
- L. **Desulfurization of a Turkish lignite at various gas atmospheres by pyrolysis. Effect of mineral matter**  
 Karaca S.  
 FUEL, vol.82, no.12, pp.1509-1516, 2003 (SCI-Expanded)
- LI. **Investigation of relation between both sulfur removal and adsorption capacity with surface morphology of a pyrolysed Turkish lignite**  
 Karaca S., Bayrak R., Gurses A.  
 FUEL, vol.82, no.8, pp.1013-1019, 2003 (SCI-Expanded)
- LII. **The removal of pyritic sulfur from Askale lignite in aqueous suspension by nitric acid**  
 Karaca S., AKYUREK M., Bayrakceken S.  
 FUEL PROCESSING TECHNOLOGY, vol.80, no.1, pp.1-8, 2003 (SCI-Expanded)
- LIII. **Dechlorination kinetics of a Turkish lignite**  
 Karaca S., Bayrakceken S., Gulaboglu M. Ş.  
 FUEL, vol.79, no.13, pp.1633-1636, 2000 (SCI-Expanded)
- LIV. **Chlorination of two Turkish lignites in water and water-carbon tetrachloride media**  
 Karaca S., Kadioglu Y., Bayrakceken S., Gulaboglu M. Ş.  
 TURKISH JOURNAL OF CHEMISTRY, vol.23, no.2, pp.231-241, 1999 (SCI-Expanded)
- LV. **The removal of organic sulfur from two Turkish lignites by chlorinolysis**  
 Kadioglu Y., Karaca S., Bayrakceken S., Gulaboglu M. Ş.  
 TURKISH JOURNAL OF CHEMISTRY, vol.22, no.2, pp.129-136, 1998 (SCI-Expanded)
- LVI. **Chlorination kinetics of pyrite mineral in two Turkish lignites**  
 Karaca S., Kadioglu Y., Bayrakceken S., Gulaboglu M. Ş.  
 FUEL PROCESSING TECHNOLOGY, vol.50, pp.225-234, 1997 (SCI-Expanded)
- LVII. **KINETICS OF PYRITE OXIDATION IN AQUEOUS SUSPENSION BY NITRIC-ACID**  
 KADIOGLU Y., KARACA S., BAYRAKCEKEN S.  
 FUEL PROCESSING TECHNOLOGY, vol.41, no.3, pp.273-287, 1995 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Response surface analysis of removal of a textile dye by a Turkish coal powder**  
 KHATAEE A. R., Alidokht L., Hassani A., KARACA S., KARACA S.  
 ADVANCES IN ENVIRONMENTAL RESEARCH-AN INTERNATIONAL JOURNAL, vol.2, no.4, pp.291-308, 2013 (ESCI)

## Books & Book Chapters

- I. **Clay-Organoclay and Organoclay/Polymer Nanocomposites**  
 GÜRSES A., KORUCU M. E., KARACA S.  
 in: Clay: Types, properties and uses, Humphrey, J.P, and Boyd, D.E., Editor, Nova Science Publishers, Inc., New York, pp.155-191, 2011
- II. **Clay-Organoclay and Organoclay/Polymer Nanocomposites**

GÜRSES A., KORUCU M. E., KARACA S.

in: Clay: Types, properties and uses, Humphrey, J.P, and Boyd,D.E. , Editor, Nova Science Publishers, Inc., New York, pp.155-191, 2011

## Refereed Congress / Symposium Publications in Proceedings

- I. **Enhanced sonocatalytic degradation of metronidazole over chitosan based carbon quantum dots decorated TiO<sub>2</sub> nanocomposite in aqueous solution**  
Ateş Y., Karaca C., Karaca M., Dulkadir H., Açışlı Ö., Karaca S., Dural T.  
10th Drug Chemistry Conference, Antalya, Turkey, 10 April 2022, pp.74
- II. **Evaluation of Photocatalytic Performance of the New Generation Catalyst, TiO<sub>2</sub> Supported Plant-Derived Carbon Quantum Dot in Tetracycline Removal in Water**  
Karaca M., Karaca S., Açışlı Ö.  
9. International Drug Chemistry Conference, Antalya, Turkey, 08 April 2021
- III. **Green synthesis of TiO<sub>2</sub> supported carbon quantum dots from Rheum Ribes L. (Işkın) plant as efficient photocatalysts for the degradation of sulfamethoxazole in water**  
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