

## Prof. Semra KARACA

### Personal Information

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### International Researcher IDs

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Yoksis Researcher ID: 3414

### 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

Bölüm Akademik Teşvik Değerlendirme Komisyonu Başkanı, Ataturk University, Fen Fakültesi, Kimya, 2019 - 2022  
Bölüm Kalite Komisyonu Başkanı, Ataturk University, Fen Fakültesi, Kimya, 2019 - 2022  
Head of Department, Ataturk University, Fen Fakültesi, Kimya, 2019 - 2022  
Fakülte Kurulu Üyesi, Ataturk University, Fen Fakültesi, Kimya, 2019 - 2022

## Courses

Genel Kimya Laboratuvarı II, Undergraduate, 2023 - 2024  
Fizikokimya-II, Undergraduate, 2023 - 2024  
Fizikokimya-I, Undergraduate, 2023 - 2024  
İleri Fizikokimya-I, Postgraduate, 2023 - 2024  
Fizikokimya-II, Undergraduate, 2022 - 2023  
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., Fotokatalitik ilaç giderimi için Rheum ribes (Işık) bitkisinden hazırlanmış azot katkılı karbon kuantum noktalar (N-CQDS) ile dekore edilmiş ZnO ve TiO<sub>2</sub> heteroeklemlerin tasarımı ve performans değerlendirmesi, Doctorate, C.KARACA(Student), 2023  
Karaca S., Mezogözenekli G-C<sub>3</sub>N<sub>4</sub> tabanlı kompozit malzemelerin atık sulardan bazı organik kirleticilerin gideriminde fotokatalitik aktivitesinin değerlendirilmesi, Doctorate, D.KILIÇ(Student), 2023  
Karaca S., FOTOKATALİTİK İLAÇ OKSİDASYONU İÇİN TiO<sub>2</sub> VE ZnO YARI İLETKENLERİNİN KİTOSAN POLİMERİNDEN HAZIRLANAN AZOT KATKILI KARBON KUANTUM NOKTALARLA (N-CQDS) DEKORE EDİLMESİ VE PERFORMANSININ DEĞERLENDİRİLMESİ, Doctorate, Y.ATEŞ(Student), 2023  
Karaca S., RUMEX CRISPUS L. (EVELİK) BİTKİSİNDEN HAZIRLANAN AZOT KATKILI KARBON KUANTUM NOKTALARLA

(N-CQDS) DEKORE EDİLEN TiO<sub>2</sub> VE ZnO HETEROEKLEMLERİNİN MOR ÖTESİ VE GÖRÜNÜR BÖLGEDE FOTOKATALİTİK İLAÇ OKSİDASYONUNDA PERFORMANSLARININ DEĞERLENDİRİLMESİ, Doctorate, M.KARACA(Student), 2023  
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, İ.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 kil/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., Pirolezle 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

Doctorate, Doctorate, Atatürk Üniversitesi, June, 2023  
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  
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  
Appointment to Academic Staff-Assistant Professorship, Appointment Academic Staff, Atatürk Üniversitesi, January, 2021

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

- Exploring the efficiency of nitrogenated carbon quantum dots/TiO<sub>2</sub> S-scheme heterojunction in the photodegradation of ciprofloxacin in aqueous environments**  
Ateş Y., Eroğlu Z., AÇIŞLI Ö., Metin Ö., KARACA S.  
Turkish Journal of Chemistry, vol.48, no.4, pp.550-567, 2024 (SCI-Expanded)
- Usage of MnFe<sub>2</sub>O<sub>4</sub>-rGO Nanocomposite as efficient Fenton catalyst for Tetracycline removal by heterogeneous sono Fenton process: Characterizations, catalytic performance assessment, and mechanism**  
Karaca M., Karaca C., Eroğlu Z., SEVİM M., KARACA S.  
Materials Chemistry and Physics, vol.309, 2023 (SCI-Expanded)

- III. **Comparison of the removal efficiencies of Basic red 46 from aqueous solutions using Askale lignite with and without ultrasound assisted processes**  
Karaca C., Karaca M., Kiransan M., Karaca S., Açıslı Ö., Gürses A.  
DESALINATION AND WATER TREATMENT, vol.315, pp.111-121, 2023 (SCI-Expanded)
- IV. **Comparative investigation of monomeric and micellar adsorption of cetyltrimethylammonium bromide and tetradecyltrimethylammonium bromide from their aqueous solutions**  
Açıslı Ö., Karaca S., Gürses A.  
Desalination and Water Treatment, vol.259, pp.170-185, 2022 (SCI-Expanded)
- V. **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., Kiranşan M., Karaca S.  
Desalination And Water Treatment, vol.242, pp.144-161, 2021 (SCI-Expanded)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **Enhanced removal of basic violet 10 by heterogeneous sono-Fenton process using magnetite nanoparticles**  
Hassani A., Karaca C., Karaca S., Khataee A., Açıslı Ö., Yılmaz B.  
Ultrasonics Sonochemistry, vol.42, pp.390-402, 2018 (SCI-Expanded)
- XI. **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)
- XII. **Investigation of the alkyl chain lengths of surfactants on their adsorption by montmorillonite (Mt) from aqueous solutions**  
Açıslı Ö., Karaca S., Gürses A.  
APPLIED CLAY SCIENCE, vol.142, pp.90-99, 2017 (SCI-Expanded)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **Adsorption of a cationic dye from aqueous solution using Turkish lignite: Kinetic, isotherm, thermodynamic studies and neural network modeling**  
HASSANI A., VAF AEI F., KARACA S., KHATAEE A. R.  
JOURNAL OF INDUSTRIAL AND ENGINEERING CHEMISTRY, vol.20, no.4, pp.2615-2624, 2014 (SCI-Expanded)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **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)

- XLII. **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)
- XLIII. **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)
- XLIV. **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)
- XLV. **An investigation on effects of various parameters on viscosities of coal-water mixture prepared with Erzurum-Askale lignite coal**  
Guerses A., ACIKYILDIZ M., DOGAR C., Karaca S., Bayrak R.  
FUEL PROCESSING TECHNOLOGY, vol.87, no.9, pp.821-827, 2006 (SCI-Expanded)
- XLVI. **The adsorption kinetics of the cationic dye, methylene blue, onto clay**  
Gurses A., Dogar C., Yalcın M., Acikyıldız M., Bayrak R., Karaca S.  
JOURNAL OF HAZARDOUS MATERIALS, vol.131, pp.217-228, 2006 (SCI-Expanded)
- XLVII. **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)
- XLVIII. **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)
- XLIX. **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)
- L. **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)
- LI. **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)
- LII. **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)
- LIII. **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)
- LIV. **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)
- LV. **The removal of pyritic sulfur from Askale lignite in aqueous suspension by nitric acid**  
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KARACA S., BAYRAKÇEKEN S., KADIOĞLU Y.  
Presentation, pp.52, 1991

## Supported Projects

KARACA S., KARACA M., Project Supported by Higher Education Institutions, Rumex Crispus L. (Evelik) Bitkisinden Hazırlanan Azot Katkılı Karbon Kuantum Noktalarla (N-CQDS) Dekore Edilen TiO<sub>2</sub> ve ZnO Heteroeklemlerinin Mor Ötesi ve Görünür Bölgede Fotokatalitik İlaç Oksidasyonunda Performanslarının Değerlendirilmesi, 2021 - 2024  
KARACA S., KARACA C., Project Supported by Higher Education Institutions, FOTOKATALİTİK İLAÇ GİDERİMİ İÇİN RHEUM RIBES (IŞKIN) BİTKİSİNDEN HAZIRLANMIŞ AZOT KATKILI KARBON KUANTUM NOKTALAR (N-CQDS) İLE DEKORE EDİLMİŞ ZnO VE TiO<sub>2</sub> HETEROEKLEMLERİN TASARIMI VE PERFORMANS DEĞERLENDİRMESİ, 2021 - 2023

KARACA S., KILIÇ D., Project Supported by Higher Education Institutions, mpgC3N4PANIZnO kompozitinin sentezi ve karakterizasyonu, 2018 - 2019

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KARACA S., Project Supported by Higher Education Institutions, ZNO/MMT NANOKOMPOZİTLERİNİN HAZIRLANMASI VE FOTOKATALİTİK OZONASYON YÖNTEMİYLE BAZI ORGANİK KİRLİTİCİLERİN GİDERİMİNDE KULLANIMI, 2015 - 2017

KARACA S., Project Supported by Higher Education Institutions, TİO<sub>2</sub>/MMT NANOKOMPOZİTİNİN HAZIRLANMASI VE İLAÇ VE TEKSTİL BOYALARIYLA KİRLENMİŞ SULARIN ARINDIRILMASI İÇİN HETEROJEN FOTOKATALİTİK-OZONASYON PROSESLERİNDE UYGULAMALARI, 2013 - 2015

KARACA S., Project Supported by Higher Education Institutions, TİO<sub>2</sub>/MONTMORİLLONİT NANOKOMPOZİTLERİNİN HAZIRLANMASI VE BAZI ORGANİK KİRLİTİCİLERİN GİDERİMİNDE KULLANIMI, 2013 - 2015

KARACA S., Project Supported by Higher Education Institutions, KUATERNER AMONYUM TUZLARININ MONOMERİK VE MİSELER ADSORPSİYONU, 2012 - 2014

KARACA S., Project Supported by Higher Education Institutions, MONTMORİLLONİT-SİLİKA VE SİLİKA POLİETİLONOKSİT MONTMORİLLONİT HİBRİT MATERYALLERİNİN HAZIRLANMASI VE KARAKTERİZASYONU, 2011 - 2012

KARACA S., Project Supported by Higher Education Institutions, POLİETİNELOKSİT-KİL NANOKOMPOZİTLERİNİN SENTEZİ TERMAL VE MEKANİK ÖZELLİKLERİNİN İNCELENMESİ, 2010 - 2011

KARACA S., TUBITAK Project, Bitkisel Atıklardan Aktif Karbon Üretimi: Proses Optimizasyonu Ve Aktif Karbon Karakterizasyonu, 2009 - 2009

## Activities in Scientific Journals

Journal of Ata-Chem, Assistant Editor/Section Editor, 2021 - Continues

## Scientific Refereeing

INORGANIC CHEMISTRY COMMUNICATION, SCI Journal, March 2024

OPTICAL MATERIALS, Journal Indexed in SCI-E, December 2023

TUBITAK Project, 1505 - University-Industry Cooperation Support Program, TÜBİTAK, Turkey, January 2023

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JOURNAL OF ENVIRONMENTAL MANAGEMENT, Journal Indexed in SCI-E, July 2022

ADVANCED POWDER TECHNOLOGY, Journal Indexed in SCI-E, June 2022

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JOURNAL OF HAZARDOUS MATERIALS, SCI Journal, September 2020

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International Journal of Industrial Chemistry, SCI Journal, March 2019

Ultrasonics Sonochemistry, SCI Journal, February 2019

## Metrics

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### **Non Academic Experience**

ATATÜRK ÜNİVERSİTESİ

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