

Assoc. Prof. MEHMET KAYA

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: A-2839-2016

Yoksis Researcher ID: 22310

Education Information

Doctorate, Ataturk University, Fen Bilimleri, Kimya/Fizikokimya, Turkey 2008 - 2014

Postgraduate, Ataturk University, Fen Bilimleri, Kimya/Fizikokimya, Turkey 2006 - 2008

Undergraduate, Ataturk University, Fen Edebiyat, Kimya, Turkey 2001 - 2005

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, RODAMİN B VE MEROSİYANİN 540 DYE BİLEŞİKLERİNİN KİL (ÜNYE BENTONİT) İÇEREN SÜSPANSİYONLARDA MOLEKÜLER ADSORPSİYONU, AGREGASYONU VE FOTOFİZİĞİ, Ataturk University, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, 2014

Postgraduate, KONJUGE ENON SİSTEMLERİ İÇEREN İKİ BOYARMADDENİN SENTEZİ VE FOTOFİZİKSEL ÖZELLİKLERİ, Ataturk University, Fen Bilimleri Enstitüsü, Kimya/Fizikokimya, 2008

Research Areas

Chemistry, Physical Chemistry, Natural Sciences

Academic Titles / Tasks

Associate Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2018 - Continues

Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2018 - 2019

Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2016 - 2018

Research Assistant PhD, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2014 - 2016

Research Assistant, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Kimya Bölümü, 2008 - 2014

Courses

Yüzey Aktif Maddeler, Undergraduate, 2020 - 2021
Uzmanlık Alan Dersi-I, Postgraduate, 2020 - 2021
İstatistiksel Termodinamik, Doctorate, 2019 - 2020
Kimyasal Kinetik, Undergraduate, 2019 - 2020
Dönem Projesi, Undergraduate, 2020 - 2021
Adsorpsiyon ve Kataliz, Undergraduate, 2020 - 2021
Bitirme Çalışması, Undergraduate, 2019 - 2020
Fizikokimya-II, Undergraduate, 2019 - 2020
Fotokimya, Postgraduate, 2015 - 2016
Adsorpsiyon ve Uygulamaları, Postgraduate, 2015 - 2016
Yüzey Analiz Tekniklerine Giriş, Postgraduate, 2015 - 2016

Jury Memberships

Post Graduate, Tez Savunma Jürisi, Recep Tayyip Erdoğan Üniversitesi, January, 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Cellulose Ester Based Aerogel: Lightweight and Highly Water-Absorbent**
Aksu K., Kaya M.
ACS OMEGA, vol.9, no.3, pp.3701-3708, 2024 (SCI-Expanded)
- II. **The determination of molecular dynamic properties of Novel 5-oxo-1,2,4-triazole phthalocyanines and investigation of their urease inhibition properties**
KAYA M., MENTEŞE E., Sokmen B. B., AKÇAY H. T.
JOURNAL OF MOLECULAR STRUCTURE, vol.1222, 2020 (SCI-Expanded)
- III. **Synthesis and solvent-dependent photophysics of a novel fluorescent triazole-coumarin-based dye**
Kaya M., Mentese E.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.57, no.4, pp.1714-1719, 2020 (SCI-Expanded)
- IV. **Preparation and characterization of a novel activated carbon component via chemical activation of tea woody stem**
Tabak A., SEVİMLİ K., Kaya M., Çağlar B.
JOURNAL OF THERMAL ANALYSIS AND CALORIMETRY, vol.138, no.6, pp.3885-3895, 2019 (SCI-Expanded)
- V. **A Novel Highly Porous Cellulosic Aerogel Regenerated by Solvent Exchange Mechanism**
Kaya M., Demir A., Akcay H. T.
JOURNAL OF POLYMERS AND THE ENVIRONMENT, vol.27, no.8, pp.1801-1806, 2019 (SCI-Expanded)
- VI. **INVESTIGATION OF A HYBRID MATERIAL AND PHOTOPHYSICAL PROPERTIES OF RHODAMINE B IN AQUEOUS SUSPENSIONS OF CELLULOSIC PARTICLES**
Kaya M.
REVUE ROUMAINE DE CHIMIE, vol.64, no.2, pp.163-171, 2019 (SCI-Expanded)
- VII. **Guaiacol Substituted AzaPCs: A Novel Synthesis Method and Investigation of Photophysical Properties**
Kantar G., Kaya M., Sahin O., Sasmaz S.
JOURNAL OF STRUCTURAL CHEMISTRY, vol.59, no.3, pp.571-583, 2018 (SCI-Expanded)
- VIII. **Super absorbent, light, and highly flame retardant cellulose-based aerogel crosslinked with citric acid**
Kaya M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.134, no.38, 2017 (SCI-Expanded)
- IX. **Photophysical and adsorption properties of pyronin B in natural bentonite clay dispersion**
Rostami M. R., Kaya M., Gur B., ONGANER Y., Meral K.

APPLIED SURFACE SCIENCE, vol.359, pp.897-904, 2015 (SCI-Expanded)

- X. **Molecular aggregates of Merocyanine 540 in aqueous suspensions containing natural and CTAB-modified bentonite**
Kaya M., Meral K., ONGANER Y.
JOURNAL OF MOLECULAR STRUCTURE, vol.1083, pp.101-105, 2015 (SCI-Expanded)
- XI. **Preparation and characterization of "green" hybrid clay-dye nanopigments**
Kaya M., ONGANER Y., TABAK A.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.78, pp.95-100, 2015 (SCI-Expanded)
- XII. **Pyronin Y (basic xanthene dye)-bentonite composite: A spectroscopic study**
TABAK A., KAYA M., Yilmaz N., MERAL K., ONGANER Y., ÇAĞLAR B., Sungur O.
JOURNAL OF MOLECULAR STRUCTURE, vol.1059, pp.271-279, 2014 (SCI-Expanded)
- XIII. **The molecular aggregation of pyronin Y in natural bentonite clay suspension**
Meral K., Yilmaz N., KAYA M., TABAK A., ONGANER Y.
JOURNAL OF LUMINESCENCE, vol.131, no.10, pp.2121-2127, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **Çeşitli Katyon Değiştirilmiş ve Sütunlanmış Artvin Bentonitlerinin Karakterizasyonu ve Seçilmiş Bir Organik Reaksiyonda Katalizör Olarak Kullanılmaları**
TABAK A., ÇAĞLAR B., KAYA M.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.1, pp.33-45, 2020 (Peer-Reviewed Journal)
- II. **Çay Çalısı Budama Atıkları Kullanılarak Eosin Y Boyarmaddesinin Sulu Çözeltiden Biyosorpsiyonu için İzoterm Verilerinin İncelenmesi**
KAYA M.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.1, pp.274-282, 2020 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Evaluation of a novel bio-waste obtained from sawdust as an adsorbent for removal of Pyronin B**
KAYA M.
7th International Conference on Engineering and Natural Sciences, Bosnia And Herzegovina, 23 June 2021
- II. **Synthesis and Characterization of a Natural Cellulose Product from Biowaste**
KAYA M.
7TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY, Bosnia And Herzegovina, 23 June 2021, pp.30-34
- III. **Characterization of Pure Tea Woody (Stem) Waste and Rhodamine B (Rh-B) Dye Compound Hybrid Composite: A Spectroscopic Study**
KAYA M., TABAK A., ÇAĞLAR B.
4th International Pure and Applied Sciences: Renewable Energy, İstanbul, Turkey, 23 - 25 November 2017
- IV. **Structural Characteristics of Activated Carbon Prepared by Chemical Activation of Tea Woody Stem**
TABAK A., SEVİMLİ K., KAYA M., ÇAĞLAR B.
4th International Pure and Applied Sciences: Renewable Energy, İstanbul, Turkey, 23 - 25 November 2017
- V. **Thermal Properties of Natural and Chemical Activated Agricultural Bio-Wastes from Tea Woody Stem**
TABAK A., KAYA M., SEVİMLİ K., ÇAĞLAR B.
4th International Pure and Applied Sciences: Renewable Energy, İstanbul, Turkey, 23 - 25 November 2017
- VI. **Structural Characterization of Cation Exchanged and Al/Fe Pillared Bentonites by XRD, FTIR and SEM Analyses**
TABAK A., ÇAĞLAR B., KAYA M.

4th International Pure and Applied Sciences: Renewable Energy, İstanbul, Turkey, 23 - 25 November 2017

- VII. **A SPECTROSCOPIC STUDY PREPARATION AND CHARACTERIZATION OF BIODEGRADABLE NON TOXIC CELLULOSE BASED AEROGEL CROSSLINKED WITH CITRIC ACID**
KAYA M., SUNGUR Ö., TABAK A.
International Conference on Environmental Science and Technology 2016 (ICOEST 2016), Belgrade, Serbia And Montenegro, 28 September - 02 October 2016
- VIII. **Atık Karayemiş Prunus Laurocerasus Çalışından İzole Edilen Selüloz Kaynaklı Aerojel Biyo polimer Malzemenin Sentezi ve Karakterizasyonu**
KAYA M., SUNGUR Ö., TABAK A.
6. Ulusal Polimer Bilim Kongresi, Ankara, Turkey, 4 - 07 September 2016
- IX. **Synthesis and Characterization of Cellulose Based Aerogel Compsite Bio Polymer Material Isolated from Wasteof Blueberry Tree Vaccinium Myrtillus-Sözlü Sunum**
Kaya M., Sungur Ö., Sevimli K., Özçifçi Z., Tabak A.
28. ULUSAL KİMYA KONGRESİ-MERSİN-2016, Mersin, Turkey, 15 - 21 August 2016, vol.3, pp.1-11
- X. **A Spectroscopic Approach Characterization of Acid Activated Tea Stem AATS and Merocyanine 540 MC 540 Dye Compound Hybrid Composite**
KAYA M., SUNGUR Ö., TABAK A., ONGANER Y.
AMWC 2013 (Advanced Materials World Congress 2013), 16 - 19 September 2013
- XI. **A Spectroscopic Comparison of Unye Bentonite UB Modified Some Metals Which Have Catalytic Properties**
SUNGUR Ö., KAYA M., TABAK A.
AMWC 2013 (Advanced Materials World Congress 2013), İzmir, Turkey, 16 - 19 September 2013
- XII. **Poly 2 hydroxyethyl Methacrylate Bentonite Unye Composites**
SUNGUR Ö., ÖZÇALIŞKAN E., KAYA M., TABAK A., AKGÖL S., GÖKTEKİN Ö.
PPM (Porous Powder Materials Symposium) 2013, 3 - 06 September 2013
- XIII. **A Comparative Adsorption Study Rice Husk against Acid Activated Rice Husk by Using Rhodamine B**
KAYA M., SUNGUR Ö., TABAK A., GÖKTEKİN Ö.
PPM (Porous Powder Materials Symposium) 2013, 3 - 06 September 2013
- XIV. **An Investigation of the Adsorption of Rhodamine B Dye Stuff Onto Various Modified Bentonites**
ÇAĞLAR B., ÇETİN E., TABAK A., ÇUBUK O., KAYA M., SUNGUR Ö.
PPM (Porous Powder Materials Symposium) 2013, 3 - 06 September 2013
- XV. **Characterization of a Novel Acid Activated StemTea Rhodamine B composite material AAST Rh B**
SUNGUR Ö., KAYA M., TABAK A.
IUPAC 2013 (World Chemistry Congress) 2013, 11 - 16 August 2013
- XVI. **Spectroscopic characterization of a clay based dye nano composite material**
KAYA M., SUNGUR Ö., TABAK A., ONGANER Y.
IUPAC 2013 (World Chemistry Congress) 2013, 11 - 16 August 2013
- XVII. **Synthesis and Characterization of Rhodamine B Rh B Unye Bentonite U BNT Nanocomposite**
KAYA M., ONGANER Y., SUNGUR Ö., TABAK A.
NanoTR9, Turkey, 24 - 28 June 2013
- XVIII. **Sulu ortamda Ünye Bentonitin Pyronin B adsorpsiyonu**
ULOCAK G., SİNEM U., KAYA M., SUNGUR Ö., TABAK A., ŞİNOFOROĞLU M.
III. FİZİKSEL KİMYA GÜNLERİ, Turkey, 12 - 15 July 2012
- XIX. **Ünye bentonit Poliakrilamid Kompozitlerinin Karakterizasyonu**
SUNGUR Ö., TAVLI E., KAYA M., TABAK A.
III. FİZİKSEL KİMYA GÜNLERİ, Turkey, 12 - 15 July 2012
- XX. **Photophysical Properties of Pyronin Y in Natural Bentonite Clay Suspension A Spectroscopic Study**
KAYA M., MERAL K., ONGANER Y., TABAK A., YILMAZ BARAN N.
Euroclay 2011, 26 June - 01 July 2011
- XXI. **Controlled Drug Release Study Unye Bentonite Doxorubicin and Mitomycin C Composites**
SUNGUR Ö., TABAK A., AKGÖL S., KAYA M., PELTEK H.

Euroclay 2011, 26 June - 01 July 2011

XXII. Molecular Adsorption Dynamics of Rhodamine B in Clay Bentonite Suspension

KAYA M., SUNGUR Ö., MERAL K., ONGANER Y., TABAK A.

Euroclay 2011, 26 June - 01 July 2011

XXIII. The Structural Analysis of Pyronin Y PyY Bentonite Composite Using Xrd FTIR and Thermal Analysis Techniques

YILMAZ BARAN N., TABAK A., MERAL K., KAYA M., ONGANER Y.

Euroclay 2011, 26 June - 01 July 2011

XXIV. Konjuge Enon Sistemleri İçeren Bir Boyarmaddenin Sentezi ve Fotofiziksel Özelliklerinin İncelenmesi

KAYA M., MERAL K., SEÇEN H., ONGANER Y.

XI. Ulusal Spektroskopik Kongresi, Turkey, 23 - 26 June 2009

Supported Projects

FAİZ Ö., SEKBAN R., KELEŞ T., MÜEZZİNOĞLU N., BAŞARAN B., DEMİR A., AKÇAY H. T., KAYA M., KALCIOĞLU Z., Project Supported by Higher Education Institutions, Çay Çiçeğinin Kimyasal Özellikleri, Sağlık ve Ekonomik Açından Potansiyelinin Değerlendirilmesi, 2021 - Continues

KAYA M., KANTAR C., KAYA KANTAR G., Project Supported by Higher Education Institutions, Çay Atıklarının (Fabrika ve Çay Çalısı) Ekonomiye Kazandırılması Amacıyla Katma Değeri Yüksek Selüloz ve Metil Selüloza Dönüştürülmesi, 2020 - 2023

FAİZ Ö., AKÇAY H. T., KAYA M., KELEŞ T., Project Supported by Higher Education Institutions, Rize İlinde Yetiştirilen Çay Ürünü Ekstraktlarından Kozmetik Ürünlerin Hazırlanması, 2020 - 2023

AKÇAY H. T., MENTEŞE E., KAYA M., Project Supported by Higher Education Institutions, 4(3-methyl-5-okso-4-(4phenoxyphenyl)-4,5-dihydro-1H-1,2,4 triazol-1-il ftalosiyanın komplekslerinin sentezi ve Fotofiziksel Özelliklerinin ve enzim inhibisyon aktivitelerinin araştırılması, 2019 - 2020

KAYA M., TABAK A., Project Supported by Higher Education Institutions, ATIK ÇAY ÇALISINDAN İZOLE EDİLEN SELÜLOZ KAYNAKLI BİYOPOLİMER AEROJEL KOMPOZİT MALZEMELERİN KARAKTERİZASYONU ALEV GECİKTİRİCİ ve ISI YALITIMI GİBİ ÖZELLİKLERİNİN İNCELENMESİ, 2016 - 2018

AKÇAY H. T., KAYA M., TOKÇALAR S., KARAOĞLU K., Project Supported by Higher Education Institutions, Çeşitli organik polimerlerin elektrospin yöntemi ile nanolif üretim koşullarının optimizasyonu, 2017 - 2017

Scientific Refereeing

JOURNAL OF POLYMERS AND THE ENVIRONMENT, Journal Indexed in SCI-E, October 2020

International Journal Pure and Applied Sciences, Other Indexed Journal, October 2020

MACROMOLECULAR MATERIALS AND ENGINEERING, SCI Journal, June 2020

Cellulose, SCI Journal, February 2020

Materials Research Express, SCI Journal, January 2020

Chemical Physics Letters, SCI Journal, November 2019

Materials & Design, SCI Journal, October 2019

Journal of Inorganic and Organometallic Polymers and Materials, SCI Journal, September 2019

TUBITAK Project, September 2019

Erzincan Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, May 2019

Chemical Engineering Journal, SCI Journal, April 2019

Chemical Engineering Journal, SCI Journal, January 2019

Chemical Engineering Journal, SCI Journal, December 2018

Journal of Inorganic and Organometallic Polymers and Materials, SCI Journal, December 2018

Chemical Engineering Journal, SCI Journal, October 2018

TUBITAK Project, May 2018

Project Supported by Higher Education Institutions, April 2018
Materials Research Express, SCI Journal, March 2018
ACS-Sustainable Chemistry, SCI Journal, March 2018
Journal of Inorganic and Organometallic Polymers and Materials, SCI Journal, March 2018
Journal of Inorganic and Organometallic Polymers and Materials, SCI Journal, January 2018
Journal of Inorganic and Organometallic Polymers and Materials, SCI Journal, December 2017
Bioresources, SCI Journal, December 2016
Sinop Fen Bilimleri Dergisi, National Scientific Refreed Journal, November 2016
Journal of the Turkish Chemical Society, Section A:Chemistry, National Scientific Refreed Journal, August 2016
Journal of the Turkish Chemical Society, Section A:Chemistry, National Scientific Refreed Journal, July 2016

Scientific Research / Working Group Memberships

Recep Tayip Erdoğan Üniversitesi Çay İhtisaslaşma Koordinatörlüğü, RECEP TAYYİP ERDOĞAN ÜNİVERSİTESİ, Turkey,
<http://cayihtisas.erdogan.edu.tr/tr>, 2018 - Continues

Metrics

Publication: 41
Citation (WoS): 178
Citation (Scopus): 191
H-Index (WoS): 9
H-Index (Scopus): 9

Congress and Symposium Activities

4th International Conference on Pure and Applied Sciences: Renewable Energy, Attendee, İstanbul, Turkey, 2017
International Conference on Environmental Science and Technology 2016, Attendee, Belgrade, Serbia And Montenegro, 2016
6. Ulusal Polimer Bilim Kongresi, Attendee, Turkey, 2016
28. Ulusal Kimya Kongresi, Attendee, Mersin, Turkey, 2016
Porous & Powder Materials Symposium 2013, Attendee, Turkey, 2013
Advanced Materials World Congress 2013, Attendee, İzmir, Turkey, 2013
IUPAC-World Chemistry Congress 2013, Attendee, İstanbul, Turkey, 2013
NanoTR9, Attendee, Erzurum, Turkey, 2013
II. FİZİKSEL KİMYA GÜNLERİ, Attendee, Balıkesir, Turkey, 2012
EUROCLAY 2011, Attendee, Antalya, Turkey, 2011
XI. Ulusal Spektroskopik Kongresi, Attendee, Ankara, Turkey, 2009

Awards

KAYA M., Atatürk Üniversitesi 2015 Fen Bilimleri Alanında En İyi Doktora Tezi Ödülü, Atatürk Üniversitesi Rektörlüğü
Bilimsel Teşvik ve Ödülleri, January 2015