

Asst. Prof. DİLA KAYA

Personal Information

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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizikokimya, Turkey 2012 - 2016

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Fizikokimya, Turkey 2009 - 2012

Undergraduate, Yildiz Technical University, Fen Edebiyat Fakültesi, Kimya, Turkey 2005 - 2009

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Sudaki Organik Boyar Maddelerin Polimerik Reçineler Üzerine Kesikli ve Sürekli Sistemden Adsorpsiyonunun İncelenmesi, Yıldız Teknik Üniversitesi, Kimya, Fizikokimya, 2016

Postgraduate, Salisilik Asit ile Yüzey Modifikasyonu Yapılmış TiO₂ Fotokatalizörü Kullanılarak 4-Nitrofenolün Heterojen Fotokatalitik Degrasyonu, Yıldız Teknik Üniversitesi, Kimya, Fizikokimya, 2012

Research Areas

Chemistry, Analytical Chemistry, Separation Methods, Electromagnetic Methods, Sensors, Physical Chemistry, Chemical Kinetics, Polymeric Adsorbents, Thermodynamics, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Chemistry , 2020 - Continues

Research Assistant PhD, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Chemistry , 2016 - 2020

Research Assistant, Yildiz Technical University, Fen Edebiyat Fakültesi, Kimya, 2011 - 2016

Academic and Administrative Experience

Deputy Head of Department, Istanbul Medeniyet University, Faculty Of Engineering And Natural Sciences , Chemistry , 2020 - Continues

Courses

Genel Kimya 2, Undergraduate, 2019 - 2020
Temel Kimya 2, Undergraduate, 2018 - 2019
Chemistry Laboratory 1, Undergraduate, 2017 - 2018
Temel Kimya Uygulaması, Undergraduate, 2018 - 2019
Kimya Laboratuvarı, Undergraduate, 2018 - 2019
Temel Kimya 1, Undergraduate, 2018 - 2019
Kimya 1, Undergraduate, 2018 - 2019

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

- I. **Review-Nanopipette Applications as Sensors, Electrodes, and Probes: A Study on Recent Developments**
KEÇECİ K., DİNLER A., KAYA D.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.169, no.2, 2022 (Journal Indexed in SCI)
- II. **Resistive-pulse Sensing of DNA with a Polymeric Nanopore Sensor and Characterization of DNA Translocation**
KEÇECİ K., KAYA D., Martin C. R.
CHEMNANOMAT, 2021 (Journal Indexed in SCI)
- III. **Role of Nanopore Geometry in Particle Resolution by Resistive-Pulse Sensing**
Yılmaz D., KAYA D., KEÇECİ K., DİNLER A.
CHEMISTRYSELECT, vol.6, no.1, pp.59-67, 2021 (Journal Indexed in SCI)
- IV. **Investigating the Effect of Charged Components on Translocation of DNA Molecules in Track-Etched Nanopores**
DİNLER A., KEÇECİ K., KAYA D., Yılmaz D.
IEEE SENSORS JOURNAL, vol.20, no.8, pp.4041-4046, 2020 (Journal Indexed in SCI)
- V. **Review-Track-Etched Nanoporous Polymer Membranes as Sensors: A Review**
KAYA D., KEÇECİ K.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.167, no.3, 2020 (Journal Indexed in SCI)
- VI. **Fabrication, modification and sensing behaviour of quartz micro/nanopipettes**
Kaya D., Keçeci K., Yılmaz D.
Journal Of The Indian Chemical Society, vol.96, pp.1149-1154, 2019 (Journal Indexed in SCI Expanded)
- VII. **Photocatalytic Activity of Titania/Polydicyclopentadiene PolyHIPE Composites**
Yuce E., Mert E. H. , Krajnc P., Parin F. N. , SAN N., Kaya D., Yildirim H.
MACROMOLECULAR MATERIALS AND ENGINEERING, vol.302, no.10, 2017 (Journal Indexed in SCI)
- VIII. **HETEROGENEOUS PHOTOCATALYTIC DEGRADATION OF 4-NITROPHENOL VIA TiO₂, SURFACE-MODIFIED WITH SALICYLIC ACID**
KAYA D., SAN N.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.8, pp.4953-4962, 2017 (Journal Indexed in SCI)
- IX. **Preparation of nanopores and their application for the detection of metals**
KAYA D., KEÇECİ K.
BULGARIAN CHEMICAL COMMUNICATIONS, vol.49, pp.37-42, 2017 (Journal Indexed in SCI)
- X. **Effect of Pore Geometry on Resistive-Pulse Sensing of DNA Using Track-Etched PET Nanopore Membrane**
Kaya D., DİNLER A., SAN N., KEÇECİ K.
ELECTROCHIMICA ACTA, vol.202, pp.157-165, 2016 (Journal Indexed in SCI)
- XI. **ADSORPTION CHARACTERISTICS, ISOTHERM AND KINETICS OF A NOVEL POLYHIPE/PULLULAN COMPOSITE FOR REMOVING CONGO RED DYE**
SAN N., Mert E. H. , Kaya D., Cira F.

FRESENIUS ENVIRONMENTAL BULLETIN, vol.25, no.9, pp.3635-3645, 2016 (Journal Indexed in SCI)

- XII. **Nanopore detection of double stranded DNA using a track-etched polycarbonate membrane**
KEÇECİ K., SAN N., Kaya D.
TALANTA, vol.144, pp.268-274, 2015 (Journal Indexed in SCI)
- XIII. **Investigation of thermodynamic and surface characterisation of 4-[4-(2-ethylhexyloxy)benzoyloxy] benzoic acid thermotropic liquid crystal by inverse gas chromatography**
ÇAKAR F., OCAK H., Ozturk E., Mutlu-Yanic S., Kaya D., SAN N., CANKURTARAN Ö., Bilgin-Eran B., KARAMAN F.
LIQUID CRYSTALS, vol.41, no.9, pp.1323-1331, 2014 (Journal Indexed in SCI)

Articles Published in Other Journals

- I. **Ionic Current Rectification in Track-Etched Single Conical Nanopores**
Yılmaz D., Kaya D., Keçeci K., Dinler A.
Hacettepe Journal of Biology and Chemistry, vol.47, no.3, pp.225-234, 2019 (National Refreed University Journal)
- II. **Effect of Surface Functionalization on the Transport Characteristics of Methyl Orange Through Track-Etched Membranes**
KAYA D., KEÇECİ K.
Hacettepe Journal of Biology and Chemistry, vol.47, no.1, pp.67-76, 2019 (National Refreed University Journal)
- III. **Transport Characteristics of Selected Dyes Through Track-Etched Multiporous PET Membranes**
KAYA D., KEÇECİ K.
Hacettepe Journal of Biology and Chemistry, vol.46, no.1, pp.1-11, 2018 (National Refreed University Journal)

Books & Book Chapters

- I. **Genel Kimya Laboratuvar Deneyleri Kitabı**
Soydan A. B. , San N., Aroğuz A. Z. , Uslu H., Mert E. H. , Akman S., Metinyurt D.
Alfa, İstanbul, 2012

Refereed Congress / Symposium Publications in Proceedings

- I. **Mass Transport of Eriochrome Black-T from Bare and Gold-Coated Polymer Nanopore Membrane**
Kaya D., Keçeci K.
4th International Eurasian Conference on Biological and Chemical Sciences, 24 - 26 November 2021, pp.93
- II. **Study of Thioflavin T (ThT) as a Fluorescence Probe and Amyloid Fibril Formation from Lysozyme**
Kaya D., Güzel P., Akbay N.
4th International Eurasian Conference on Biological and Chemical Sciences (EurasianBioChem 2021), Ankara, Turkey, 24 - 26 November 2021, pp.1
- III. **Adsorption Properties of XAD-16 Resin for the Removal of Different Classes of Dyes**
Kaya D., San N.
II. International Agricultural, Biological and Life Science Conference (AgBiol 2020), Edirne, Turkey, 1 - 03 September 2020, pp.691-700
- IV. **Enhanced Transport of Charged Analytes from Track-Etched Nanoporous Membranes**
Kaya D., Keçeci K.
The 4th International Porous and Powder Materials Symposium and Exhibition (PPM 2019), Muğla, Turkey, 9 - 11 October 2019, pp.16
- V. **Preparation of Doped TiO₂ Photocatalysts and Their Decolorization Efficiencies under Solar Light**
Kaya D., Türkten N.
2nd International Conference on Life and Engineering Sciences (ICOLES 2019), İstanbul, Turkey, 27 - 29 June

2019, pp.1

- VI. **New Paradigms in Molecular Sensing: Nanopore Based Sensors**
Keçeci K., Kaya D.
2nd International Conference on Life and Engineering Sciences (ICOLES 2019), İstanbul, Turkey, 27 - 29 June 2019, pp.173-185
- VII. **Investigation of Sensitivity Precision of Smaller Particles Through the Asymmetric Nanopores**
Yılmaz D., Kaya D., Keçeci K., Dinler A.
5th International Conference on New Trends in Chemistry (ICNTC 2019), Athens, Greece, 22 - 24 April 2019, pp.41
- VIII. **Fabrication, Modification and Sensing Behaviour of Quartz Micro/ Nanopipettes**
Kaya D., Keçeci K., Yılmaz D.
5th International Conference on New Trends in Chemistry, Athens, Greece, 22 - 24 April 2019, pp.33
- IX. **Simulation of Particle Translocation Through Nanopores**
Yılmaz D., Kaya D., Keçeci K., Dinler A.
International Conference on Applied Mathematics, Modeling and Life Sciences Problems (ICAMLS 18), İstanbul, Turkey, 3 - 05 October 2018, pp.1
- X. **FABRICATION AND APPLICATIONS OF NANOPOROUS MATERIALS**
KAYA D., KEÇECİ K.
25th Congress of the Society of Chemists and Technologists of Macedonia, Ohrid, Macedonia, 19 September 2018, pp.160
- XI. **Fabrication and Transport Properties of Nanoporous Polymer Membranes**
KAYA D., KEÇECİ K.
International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 26 April 2018, pp.120
- XII. **Su ortamından XAD-7 Adsorbanı ile İki Ayrı Bazik Boyarmaddenin Uzaklaştırılması İşlemine Ait Fizikokimyasal Parametrelerin Belirlenmesi**
KAYA D., San N.
6. Fiziksel Kimya Kongresi, Zonguldak, Turkey, 15 May 2017, pp.129
- XIII. **ADSORPTION-DESORPTION CHARACTERISTICS OF XAD-7 RESIN FOR THE REMOVAL OF 4-NITROPHENOL**
Yıldırım Ö., KAYA D., SAN N.
3rd International Conference on New Trends in Chemistry, Helsinki, Finland, 28 April 2017, pp.88-89
- XIV. **PREPARATION AND APPLICATION OF TRACK-ETCHED NANOPORE MEMBRANES AND THEIR SENSOR APPLICATIONS**
KAYA D., KEÇECİ K.
3rd International Conference on New Trends in Chemistry, Helsinki, Finland, 28 April 2017, pp.82-83
- XV. **The Design of Macroporous Nanocomposites as Heterogenous Photocatalysts**
Mert E. H., Kranjc P., Yüce E., San N., Parin F. N., KAYA D.
13th International Conference on Nanosciences & Nanotechnologies (NN16), Thessaloniki, Greece, 05 August 2016
- XVI. **Effect of Pore Geometry on Resistive-Pulse Sensing**
Saygı S., KAYA D., KEÇECİ K.
12th Nanoscience and Nanotechnology Conference (NanoTR12), İstanbul, Turkey, 03 June 2016
- XVII. **Batch and Continuous Adsorption of Methyl Violet Dye onto XAD-7 Resin**
San N., KAYA D.
Fundamentals of Adsorption (FOA 2016), Friedrichshafen, Germany, 29 May 2016
- XVIII. **Determination of Trace Metals in Milk Samples by Atomic Absorption Spectrophotometry after Preconcentration by Aspergillus Niger Immobilized on TiO₂ Nanoparticles**
Alpdoğan G., San N., KAYA D.
Fundamentals of Adsorption (FOA 2016), Friedrichshafen, Germany, 29 May 2016
- XIX. **Emulsion Templating as a Tool for Hierarchical Macroporous Photocatalyst Preparation**
Mert E. H., Kranjc P., Yüce E., Parin F. N., San N., KAYA D.
International Conference on Engineering and Natural Sciences (ICENS), Saraybosna, Bosnia And Herzegovina, 24

May 2016

- XX. **Poly-pickering HIPEs as Heterogeneous Photocatalysts**
Parın F. N. , Yüce E., MERT E. H. , Kranjc P., San N., KAYA D.
International Conference and Exhibition on Materials Chemistry, Valencia, Spain, 31 March 2016
- XXI. **Fabrication of Track-Etched Nanopore(s) and Effect of its Geometry on Sensing Molecules**
KAYA D., DİNLER A., KEÇECİ K.
International Porous and Powder Materials, İzmir, Turkey, 15 September 2015
- XXII. **Brilliant Cresyl Blue Boyar Maddesinin Sulu Ortamdan XAD-7 Reçine Üzerine Adsorpsiyonu**
Gökgöz N. E. , Saygı S., KAYA D., San N.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 August 2015
- XXIII. **Balık Türlerindeki Eser Metal İyonlarının Congo Red ile Amberlite XAD-7 Üzerinde Ayrılması ve Zenginleştirme Sonrası AAS ile Belirlenmesi**
Alpdoğan G., San N., KAYA D.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 August 2015
- XXIV. **Novel polyHIPE composites: Preparation, modification and application**
CIRA F., KAYA D., Mert E. H. , San N.
European Polymer Federation Congress 2015 (EPF 2015), Dresden, Germany, 21 June 2015
- XXV. **Yüzey Modifiye TiO₂ Nanotaneçikleri ile Toplayıcı-PoliHIPE Nanokompozitlerinin Sentezi**
CIRA F., Yüce E., Büyükpınar Ç., KAYA D., San N., MERT E. H.
5. Fiziksel Kimya Kongresi, Konya, Turkey, 16 May 2015
- XXVI. **Adsorption and Desorption Characteristics, Isotherm and Kinetics Parameters of XAD-16 Resin for Removing Malachite Green Oxalate**
Büyükpınar Ç., KAYA D., Özınanç G., San N.
All in One Conferences, Dubai, United Arab Emirates, 03 March 2015
- XXVII. **Adsorption Parameters of Different Organic Dyes on the Synthetic Resin XAD-7**
KAYA D., Büyükpınar Ç., San N.
International Symposium on Molecular Chemistry, İstanbul, Turkey, 19 December 2014
- XXVIII. **Adsorptive Removal of Rhodamine B Dye with XAD-7 Resin**
KAYA D., San N., Büyükpınar Ç.
International Conference on Green Chemistry and Sustainable Engineering, Barcelona, Spain, 28 July 2014
- XXIX. **Fabrication and Characterization of Single Nanopore Membranes for Molecular Sensing**
KAYA D., KEÇECİ K.
10th Nanoscience and Nanotechnology Conference (NanoTR10), İstanbul, Turkey, 17 June 2014
- XXX. **Preparation and Applications of Resistive-Pulse Sensors to Detect Biomolecules**
KEÇECİ K., KAYA D.
10th Nanoscience and Nanotechnology Conference (NanoTR10), İstanbul, Turkey, 17 June 2014
- XXXI. **Üç Farklı Amberlit Reçinesi Üzerinde Anilin Mavisi Boyar Maddesinin Adsorpsiyon Karakteristiğinin İncelenmesi**
San N., KAYA D., Yıldırım Ö., Büyükpınar Ç.
IV. Fiziksel Kimya Günleri, Denizli, Turkey, 05 June 2014
- XXXII. **Adsorption Isotherms and Kinetics Studies of Brilliant Green on Three Different Amberlite Resins**
KAYA D., Büyükpınar Ç., San N.
2nd International Conference on Recycling and Reuse, İstanbul, Turkey, 04 June 2014
- XXXIII. **Adsorptive Removal of Congo Red From Aqueous Solution By Using A Synthetic Resin**
San N., Yaşar Eynur S., METİNYURT D.
IUPAC 44th World Chemistry Congress, İstanbul, Turkey, 11 August 2013
- XXXIV. **Karboksilik Asitlerin Substitue Grup sayısının TiO₂ nin Yüzey Madifikasyonuna Etkisinin Deneysel Olarak İncelenmesi/ Effect of Functional Group Quantity of Carboxylic Acids on Surface Modification of TiO₂, an Experimental Analysis**
Büyükpınar Ç., METİNYURT D., San N.
26. Ulusal Kimya Kongresi (Uluslararası katılımlı), Antalya, Turkey, 01 October 2012

- XXXV. **TiO₂'nin Yüzey Modifikasyonuna Farklı Karboksilli Asitlerin Etkisi Ve Fotokatalitik Aktivitesinin İncelenmesi**
METİNYURT D., Büyükpınar Ç., San N., Büyükpınar Ç., San N.
Uluslararası Katılımlı 25. Ulusal Kimya Kongresi, Erzurum, Turkey, 27 June 2011
- XXXVI. **Surface Modification of TiO₂ with Malonic and Succinic Acids for Heterogenous Photocatalysis**
Metinyurt D., Özen M., Büyükpınar Ç., San N.
Chemical Physics Congress IX, İzmir, Turkey, 14 October 2010

Supported Projects

- KAYA D., KEÇECİ K., Project Supported by Higher Education Institutions, Polimerik Mikro/Nanogözenekli Malzemelerin Yüzeylerinin Kaplanması ve Madde Transferi/ Taşınımına Etkilerinin İncelenmesi, 2020 - Continues
- KAYA D., KEÇECİ K., Project Supported by Higher Education Institutions, İz Aşındırılmış Nanogözenekli Membranlardan Yüklü Analitlerin Taşınımının Geliştirilmesi, 2019 - 2020
- KAYA D., KEÇECİ K., Project Supported by Higher Education Institutions, Nanogözenekli Malzemelerin Hazırlanması ve Uygulamaları, 2018 - 2019
- KAYA D., Project Supported by Higher Education Institutions, İz-Aşındırılmış Membranların Hazırlanması ve Sensör Uygulamaları, 2017 - 2017
- Kaya D., San N., Project Supported by Higher Education Institutions, Sudaki Organik Boyar Maddelerin Polimerik Reçineler Üzerine Adsorpsiyonu ve Adsorpsiyon Kinetiğinin Belirlenmesi, 2014 - 2016
- San N., Kaya D., Büyükpınar Ç., Project Supported by Higher Education Institutions, Sentetik Reçinelerin Adsorpsiyon Özelliğinden Faydalanılarak Atık Sularda Bulunan Organik Boyar Maddelerin Giderilmesi ve Adsorpsiyon Parametrelerinin Belirlenmesi, 2013 - 2016

Scientific Refereeing

- HİTTİTE JOURNAL OF SCİENCE AND ENĞİNEERİNG, National Scientific Refreed Journal, March 2020
- Journal of the Turkish Chemical Society A: Chemistry, National Scientific Refreed Journal, March 2018

Edit Congress and Symposium Activities

- 25th Congress of Chemists and Technologists of Macedonia, Attendee, Ohrid, Macedonia, 2018
- INTERNATIONAL EURASIAN CONFERENCE ON BIOLOGICAL AND CHEMICAL SCIENCES, Attendee, Ankara, Turkey, 2018
- 3rd International Conference on New Trends in Chemistry, Attendee, Helsinki, Finland, 2017
- Fundamentals of Adsorption (FOA 2016), Attendee, Germany, 2016
27. Ulusal Kimya Kongresi, Attendee, Çanakkale, Turkey, 2015
- European Polymer Federation Congress 2015 (EPF 2015), Attendee, Dresden, Germany, 2015
- International Symposium on Molecular Chemistry, Attendee, İstanbul, Turkey, 2014
- International Conference on Green Chemistry and Sustainable Engineering, Attendee, Barcelona, Spain, 2014
- 10th Nanoscience and Nanotechnology Conference (NanoTR10), Attendee, İstanbul, Turkey, 2014
- 2nd International Conference on Recycling and Reuse, Attendee, İstanbul, Turkey, 2014
- IUPAC 44th World Chemistry Congress, Attendee, İstanbul, Turkey, 2013
26. Ulusal Kimya Kongresi (Uluslararası katılımlı), Attendee, Antalya, Turkey, 2012
- International Conference on Recycling and Reuse, Attendee, İstanbul, Turkey, 2012
- Uluslararası Katılımlı 25. Ulusal Kimya Kongresi, Attendee, Erzurum, Turkey, 2011
- Chemical Physics Congress IX, Attendee, İzmir, Turkey, 2010

Citations

Total Citations (WOS):70

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