



## Assoc. Prof. Dr. HAKAN KAYGUSUZ

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### EDUCATIONAL INFORMATION

Degree	University	Department	Year(s)
Doctoral Degree	Technical University of Berlin	Physical Chemistry	2014 - 2017
Master's Degree	Istanbul Technical University	Chemistry	2008 - 2011
Bachelor's Degree	Istanbul Technical University	Physics Engineering	2004 - 2009
Bachelor's Degree	Istanbul Technical University	Chemistry	2004 - 2008

### RESEARCH AREAS

Nanotechnology, Chemometrics, Biopolymers, Computational physics

### ACADEMIC DUTIES

Duty	University	Area	Year(s)
Associate Professor	Altınbaş University	Basic Sciences Department	2021 -
Assistant Professor	Istanbul University	Basic Sciences Department	2020 - 2022
Affiliated Researcher	Sabancı University	Nanotechnology Research and Application Center	2020 -
Assistant Professor	Altınbaş University	Basic Sciences Department	2017 - 2021
Lecturer	Kadir Has University	Molecular Biology and Genetics	2017 - 2017
Research Assistant	Istanbul Technical University	Chemistry Department	2010 - 2017

### ADMINISTRATIVE DUTIES

Duty	University	Year(s)
Dean of Research	Altınbaş University	2023 -
Head of Biomedical Sciences graduate program	Altınbaş University	2022 -
Head of Scientific Research and Projects Department	Altınbas University	2020 - 2023
Head of Department of Basic Sciences	Altınbas University	2019 -
Vice Dean of Faculty of Engineering and Architecture	Altınbaş University	2018 -

### ACADEMIC AND PROFESSIONAL MEMBERSHIPS

Organisation	Membership	Year(s)
Turkish Chemical Society		2019 -
German Physical Society		2015 -

### NON-UNIVERSITY EXPERIENCE

Country	Organisation	Duty	Year(s)
Turkey	Istanbulspor	Board Member	2023 -

## BOOKS

### General Chemistry Laboratory & Safety Rules a Basic Approach

KAYGUSUZ HAKAN

Ücretsiz Laboratuvar Ders Kitabı, Mevcut Değil (Ücretsiz-Serbest Erişim), 2019

Textbook All

### Frontier Developments in Optics and Spectroscopy

ERYÜREK GÖNÜL, KAYGUSUZ HAKAN, ÖVEÇOĞLU MUSTAFA LUTFİ

Google Books (Bedava Dağıtım), 978-1-936036-00-4, 2007

Scientific Book Chapter(s)

## ARTICLES

### COVID-19 modeling based on real geographic and population data

Baysazan Emir, BERKER AHMET NİHAT, MANDAL HASAN, KAYGUSUZ HAKAN

Turkish Journal of Medical Sciences, 2023

International DOI: 10.55730/1300-0144.5589

### Sustainable alginate-carboxymethyl cellulose superabsorbents prepared by a novel quasi-cryogelation method

ORHAN BURCU, KAYGUSUZ HAKAN, BERKER FATMA BEDİA

Journal of Polymer Research, 2022

International DOI: 10.1007/s10965-022-03185-1

### Novel approaches for COVID-19 diagnosis and treatment: a nonsystematic review

GARİP USTAOĞLU ŞEBNEM, KAYGUSUZ HAKAN, BİLGİN MEHMET DİNÇER, SEVERCAN FERİDE

Turkish Journal of Biology, 2021

International DOI: 10.3906/biy-2105-45

### Chemistry research in Europe: A publication analysis (2006-2016)

KAYGUSUZ HAKAN

Journal of Information Science, 2021

International DOI: 10.1177/0165551519865491

### Gain Characteristics of Short-Length Erbium-Doped Fiber Amplifiers at Extreme Temperatures

Alnuwab Mustafa Afif, KAYGUSUZ HAKAN

Journal of Applied Spectroscopy, 2021

International DOI: 10.1007/s10812-021-01148-w

### 5 GHz Wi-Fi effects on Escherichia coli, Caenorhabditis Elegans and human neuroblastoma cells

DİNÇ BİRCAN, İLYAS MUHAMMAD, KAYGUSUZ HAKAN, UÇAN OSMAN NURİ

Mugla Journal of Science and Technology, 2021

National DOI: 10.22531/muglajsci.820783

### The effect of weekend curfews on epidemics: a Monte Carlo simulation

KAYGUSUZ HAKAN, BERKER AHMET NİHAT

TURKISH JOURNAL OF BIOLOGY, 2021

International DOI: 10.3906/biy-2105-69

### Electric-field induced phase transitions in capillary electrophoretic systems

KAYGUSUZ HAKAN, BERKER FATMA BEDİA, BERKER AHMET NİHAT

PHYSICS OF FLUIDS, 2021

International DOI: 10.1063/5.0065824

### ХАРАКТЕРИСТИКИ ВОЛОКОННЫХ УСИЛИТЕЛЕЙ КОРОТКОЙ ДЛИНЫ НА ОСНОВЕ ЭРБИЯ ПРИ ЭКСТРЕМАЛЬНЫХ ТЕМПЕРАТУРАХ / GAIN CHARACTERISTICS OF SHORT-LENGTH ERBIUM DOPED FIBER AMPLIFIERS AT EXTREME TEMPERATURES

Al Nuwab Mustafa Afif, KAYGUSUZ HAKAN

Zhurnal Prikladnoii Spektroskopii, 2021

International

## ARTICLES

### **Mechanical, thermal and chemical properties of spent black tea doped concrete**

HANBAY SERAP, KAYGUSUZ HAKAN

Materials Testing, 2020

International DOI: 10.3139/120.111584

### **Antibacterial nano cerium oxide/chitosan/cellulose acetate composite films as potential wound dressing**

KALAYCIOĞLU ZEYNEP, KAHYA NİLAY, ADIMCILAR VESELİNA, KAYGUSUZ HAKAN, TORLAK EMRAH, AKIN EVİNGÜR GÜLŞEN, BERKER FATMA BEDİA

European Polymer Journal, 2020

International DOI: 10.1016/j.eurpolymj.2020.109777

### **Analysis of a Rare Honey Sample From Tuzluca/Iğdır Region**

KAYGUSUZ HAKAN

Journal of the Institute of Science and Technology, 2020

National DOI: 10.21597/jist.664048

### **Biopolymer-assisted green synthesis of functional cerium oxide nanoparticles**

KAYGUSUZ HAKAN, BERKER FATMA BEDİA

Chemical Papers, 2020

International DOI: 10.1007/s11696-020-01084-7

### **Evaluation of some Turkish Salvia species by principal component analysis based on their vitamin B2, mineral composition, and antioxidant properties**

Gezek Görkem, Hashemi Parya, KALAYCIOĞLU ZEYNEP, KAYGUSUZ HAKAN, Sarıoğlu Gözde, DÖKER SERHAT, DİRMENÇİ TUNCAY, BERKER FATMA BEDİA

LWT, 2019

International DOI: 10.1016/j.lwt.2018.10.066

### **Türkiye'ye Özgü Bitki ve Gıda Örneklerinin Temel Bileşenler Analiziyle Sınıflandırılması**

KAYGUSUZ HAKAN

AURUM Mühendislik Sistemleri ve Mimarlık Dergisi, 2018

National

### **Aqueous Removal of Sodium Dodecyl Benzene Sulfonate (SDBS) by Crosslinked Chitosan Films**

KAHYA NİLAY, KAYGUSUZ HAKAN, BERKER FATMA BEDİA

Journal of Polymers and the Environment, 2018

International DOI: 10.1007/s10924-017-1113-3

### **Graphene Oxide/Alginate Quasi-Cryogels for Removal of Methylene Blue**

Balkız Gizem, Pingo Evridiki, KAHYA NİLAY, KAYGUSUZ HAKAN, BERKER FATMA BEDİA

Water, Air, & Soil Pollution, 2018

International DOI: 10.1007/s11270-018-3790-5

### **Adsorptive removal kinetics of anionic dye onto chitosan films doped with graphene oxide: An in situ fluorescence monitoring**

KAHYA NİLAY, BENER SEMİRA, KAYGUSUZ HAKAN, AKIN EVİNGÜR GÜLŞEN, BERKER FATMA BEDİA

Chemical Engineering Communications, 2018

International DOI: 10.1080/00986445.2017.1423064

### **Antimicrobial cerium ion-chitosan crosslinked alginate biopolymer films: A novel and potential wound dressing**

KAYGUSUZ HAKAN, TORLAK EMRAH, AKIN EVİNGÜR GÜLŞEN, ÖZEN İLHAN, Regine von Klitzing, BERKER FATMA BEDİA

International Journal of Biological Macromolecules, 2017

International DOI: 10.1016/j.ijbiomac.2017.07.144

### **Effect of anionic surfactant on alginate-chitosan polyelectrolyte multilayer thickness**

KAYGUSUZ HAKAN, Micciulla Samantha, BERKER FATMA BEDİA, Regine von Klitzing

Journal of Polymer Science Part B: Polymer Physics, 2017

International DOI: 10.1002/polb.24429

**ARTICLES****Characterization of Turkish honeybee pollens by principal component analysis based on their individual organic acids, sugars, minerals, and antioxidant activities**

KALAYCIOĞLU ZEYNEP, KAYGUSUZ HAKAN, DÖKER SERHAT, KOLAYLI SEVGİ, BERKER FATMA BEDİA  
LWT, 2017

International DOI: 10.1016/j.lwt.2017.06.003

**Microstructural and optical properties of SiO<sub>2</sub> glasses doped with ZnSe quantum dots and Nd<sup>3+</sup> ions**

El Boukhari Thami, KAYGUSUZ HAKAN, BİLİR GÖKHAN, BERKER FATMA BEDİA, ERYÜREK GÖNÜL  
Physica B: Condensed Matter, 2017

International DOI: 10.1016/j.physb.2016.11.026

**Surfactant and metal ion effects on the mechanical properties of alginate hydrogels**

KAYGUSUZ HAKAN, AKIN EVİNGÜR GÜLŞEN, PEKCAN MEHMET ÖNDER, von Klitzing Regine, BERKER FATMA  
BEDİA

International Journal of Biological Macromolecules, 2016

International DOI: 10.1016/j.ijbiomac.2016.07.004

**Methylene blue removal by alginate-clay quasi-cryogel beads**

Uyar Güler, KAYGUSUZ HAKAN, BERKER FATMA BEDİA  
Reactive and Functional Polymers, 2016

International DOI: 10.1016/j.reactfunctpolym.2016.07.001

**Characterization of Anatolian honeys based on minerals, bioactive components and principal component analysis**

KAYGUSUZ HAKAN, TEZCAN TEKELİ FİLİZ, BERKER FATMA BEDİA, YILDIZ OKTAY, ŞAHİN HÜSEYİN, CAN  
ZEHRA, KOLAYLI SEVGİ

LWT - Food Science and Technology, 2016

International DOI: 10.1016/j.lwt.2015.12.005

**Removal of Fluoride from Aqueous Solution Using Aluminum Alginate Beads**

KAYGUSUZ HAKAN, UZAŞÇI SESİL, BERKER FATMA BEDİA  
CLEAN - Soil, Air, Water, 2015

International DOI: 10.1002/clen.201300632

**Aluminum Alginate-Montmorillonite Composite Beads for Defluoridation of Water**

KAYGUSUZ HAKAN, Çoşkunırmak Meryem Hilal, KAHYA NİLAY, BERKER FATMA BEDİA  
Water, Air, & Soil Pollution, 2015

International DOI: 10.1007/s11270-014-2257-6

**Natural alginate biopolymer montmorillonite clay composites for vitamin B<sub>2</sub> delivery**

KAYGUSUZ HAKAN, Uysal Mutlu, ADIMCILAR VESELİNA, BERKER FATMA BEDİA  
Journal of Bioactive and Compatible Polymers, 2015

International DOI: 10.1177/0883911514557014

**Gelation of PAAm PVP composites A fluorescence study**

AKIN EVİNGÜR GÜLŞEN, KAYGUSUZ HAKAN, BERKER FATMA BEDİA, PEKCAN MEHMET ÖNDER  
International Journal of Modern Physics B, 2014

International DOI: 10.1142/S0217979214501227

**Effect of Calcium Ion Concentration on Small Molecule Desorption from Alginate Beads**

AKIN EVİNGÜR GÜLŞEN, KAYGUSUZ HAKAN, BERKER FATMA BEDİA, PEKCAN MEHMET ÖNDER  
Journal of Macromolecular Science, Part B, 2014

International DOI: 10.1080/00222348.2014.895625

**Biopolymer-assisted synthesis of yttrium oxide nanoparticles**

KAYGUSUZ HAKAN, BİLİR GÖKHAN, TEZCAN TEKELİ FİLİZ, BERKER FATMA BEDİA, ERYÜREK GÖNÜL  
Particuology, 2014

International DOI: 10.1016/j.partic.2013.02.006

## ARTICLES

### **Cation Effect on Slow Release from Alginate Beads: A Fluorescence Study**

KAYGUSUZ HAKAN, BERKER FATMA BEDİA, PEKCAN MEHMET ÖNDER, AKIN EVİNGÜR GÜLŞEN

Journal of Fluorescence, 2014

International DOI: 10.1007/s10895-013-1282-y

### **Alginate/BSA/montmorillonite composites with enhanced protein entrapment and controlled release efficiency**

KAYGUSUZ HAKAN, BERKER FATMA BEDİA

Reactive and Functional Polymers, 2013

International DOI: 10.1016/j.reactfunctpolym.2013.07.014

## PROCEEDINGS

### **Preparation of Copper Crosslinked Alginate Quasi-Cryogel Beads and Investigation of Their Swelling Characteristics**

Belhi Ali Taissir, ORHAN BURCU, KAYGUSUZ HAKAN

4th International Conference on Physical Chemistry & Functional Materials, 2021

International

### **Pandemi Sürecinde Kimya Araştırma Grubu Yönetmek**

KAYGUSUZ HAKAN

Yönetim Araştırmaları / Mühendislik Uygulamaları Sempozyumu, 2021

National

### **Novel Applications of the Biopolymer Based Green Synthesis: Iron(III) Oxide Nanoparticles**

KAYGUSUZ HAKAN

International Eurasian Conference on Biotechnology and Biochemistry (BioTechBioChem 2020), 2020

International

### **Analysis of the thermal degradation mechanism of alginate hydrogels**

KAYGUSUZ HAKAN

International Marmara Sciences Congress (Imascon 2020 – Autumn), 2020

International

### **Aljinat-Karboksümetil Selüloz Biyopolimer Kompozitlerinin Fiziksel Özelliklerinin İncelenmesi**

ORHAN BURCU, KAYGUSUZ HAKAN, BERKER FATMA BEDİA

9. Ulusal Moleküler Biyoloji ve Biyoteknoloji Kongresi, 2020

National

### **Avrupa'da Kimya Yayınları ve Atıfları**

KAYGUSUZ HAKAN

13. Traditional Mirror Conference, 2019

National

### **Monte Carlo Capillary Electrophoresis**

KAYGUSUZ HAKAN, BERKER FATMA BEDİA, BERKER AHMET NİHAT

12. Traditional Mirror Conference, 2018

National

### **Effect of temperature on short-length erbium-doped fiber amplifiers**

Al-Nuwab Mustafa Afif, KAYGUSUZ HAKAN

22. Sıvı Hal Sempozyumu, 2018

National

### **Chemistry research output of Turkey in the last decade**

KAYGUSUZ HAKAN

22. Sıvı Hal Sempozyumu, 2018

National

## PROCEEDINGS

### **Biopolymer-assisted synthesis of cerium oxide nanoparticles**

KAYGUSUZ HAKAN, BERKER FATMA BEDİA

3rd International Porous Powder Materials PPM 2017, 2017

International

### **Removal Of Sodium Dodecyl Benzene Sulfonate (SDBS) From Water By Chitosan Films**

KAHYA NİLAY, KAYGUSUZ HAKAN, BERKER FATMA BEDİA

2nd IWA Regional Symposium on Water, Wastewater and Environment (IWA-PPFW 2017), 2017

International

### **Seryum oksit nanoparçacıklarının yeşil eldesi**

KAYGUSUZ HAKAN, BERKER FATMA BEDİA

21. Sıvı Hal Sempozyumu, 2017

National

### **Bioactive Components, Antioxidant Activities, and Principal Component Analysis of Two Health Benefit Food Groups From Anatolia: Monofloral Honeys And Honey-Bee Pollens**

BERKER FATMA BEDİA, KALAYCIOĞLU ZEYNEP, KAYGUSUZ HAKAN, DÖKER SERHAT, TEZCAN TEKELİ FİLİZ, YILDIZ OKTAY, ŞAHİN HÜSEYİN, CAN ZEHRA, KOLAYLI SEVGİ

IMEKOFOODS (TC23) 3rd International Conference, 2017

International

### **Sensitive micronutrient analysis in spices and monofloral honeys by capillary electrophoresis coupled with LIF detector**

Hashemi Parya, Gezek Görkem, KAYGUSUZ HAKAN, TEZCAN TEKELİ FİLİZ, BERKER FATMA BEDİA

ISC 2016 31st International Symposium on Chromatography, 2016

International

### **Principal Component Analysis of Anatolian Honeys Based on Minerals and Bioactive Components**

KAYGUSUZ HAKAN, Tezcan Filiz, BERKER FATMA BEDİA, YILDIZ OKTAY, ŞAHİN HÜSEYİN, CAN ZEHRA, KOLAYLI SEVGİ

3rd International Conference on New Trends in Chemometrics and Applications, 2016

International

### **Optical Properties and Characterization of Graphene Oxide Chitosan Composites through Tensile Testing TGA FTIR Analysis**

KAHYA NİLAY, AKIN EVİNGÜR GÜLŞEN, Bener Semira, KAYGUSUZ HAKAN, BERKER FATMA BEDİA

Trends in Nanotechnology 2016, 2016

International

### **Kitosan Filmlerin Boyar Madde Adsorpsiyon Kinetiğine İyonik Çapraz Bağlayıcı Türü ve Seçilen Bir Katkı Maddesinin Etkileri**

KAHYA NİLAY, KAYGUSUZ HAKAN, AKIN EVİNGÜR GÜLŞEN, BERKER FATMA BEDİA

23. İstatistiksel Fizik Günleri, 2016

National

### **Kitosan Filmlere Boyar Madde Adsorpsiyonunun Kinetik Modellemesi**

KAHYA NİLAY, KAYGUSUZ HAKAN, AKIN EVİNGÜR GÜLŞEN, BERKER FATMA BEDİA

8. Ulusal Analitik Kimya Kongresi, 2016

National

### **Kinetic Study of Dye Adsorption on Graphene Oxide Chitosan Composite Films**

KAHYA NİLAY, KAYGUSUZ HAKAN, AKIN EVİNGÜR GÜLŞEN, BERKER FATMA BEDİA

28. Ulusal Kimya Kongresi, 2016

National

## PROCEEDINGS

### **Adsorptive Removal of Methylene Blue From Aqueous Solutions Using Graphene Oxide Doped Alginate Beads Prepared by a Novel Method**

KAHYA NİLAY, KAYGUSUZ HAKAN, BERKER FATMA BEDİA, Balkız Gizem, Pingo Evridiki

1st International Black Sea Congress on Environmental Sciences, 2016

International

### **Alginate - Chitosan Multilayer Films and Their Properties**

KAYGUSUZ HAKAN, BERKER FATMA BEDİA, von Klitzing Regine

79. Jahrestagung der DPG und DPG-Frühjahrstagung, 2015

International

### **Aljinat Kitosan Çoklu Tabaka Filmleri ve Özellikleri**

KAYGUSUZ HAKAN, BERKER FATMA BEDİA, Regine von Klitzing

19. Ulusal Sıvihal Sempozyumu, 2015

National

### **Slow release kinetics of alginate beads**

KAYGUSUZ HAKAN, BERKER FATMA BEDİA, PEKCAN MEHMET ÖNDER, AKIN EVİNGÜR GÜLŞEN

Frontiers in Polymer Science, 2015

International

### **Slow Release Kinetics of Alginate Beads**

AKIN EVİNGÜR GÜLŞEN, KAYGUSUZ HAKAN, BERKER FATMA BEDİA, PEKCAN MEHMET ÖNDER

22. İstatistiksel Fizik Günleri, 2015

National

### **Killi Alüminyum Aljinat Kompozit Küreleri ile Sulardan Florür Giderilmesinin Termodinamik Modellenmesi ve Ortak İyon Etkisinin İncelenmesi**

KAHYA NİLAY, Çoşkunırmak Meryem Hilal, KAYGUSUZ HAKAN, BERKER FATMA BEDİA

7. Ulusal Analitik Kimya Kongresi, 2014

National

### **Calcium Ion Effect on Slow Release from Alginate Beads**

AKIN EVİNGÜR GÜLŞEN, KAYGUSUZ HAKAN, BERKER FATMA BEDİA, PEKCAN MEHMET ÖNDER

11. Kimyasal Fizik Kongresi, 2014

National

### **A Fluorescence Study on Slow Release kinetics of Alginate Beads**

AKIN EVİNGÜR GÜLŞEN, KAYGUSUZ HAKAN, BERKER FATMA BEDİA, PEKCAN MEHMET ÖNDER

18. Ulusal Sıvihal Sempozyumu, 2014

National

### **Microstructure of SiO<sub>2</sub> Glasses Doped With ZnSe Quantum Dots and Nd<sup>3+</sup> Ions**

Elboukhari Thami, KAYGUSUZ HAKAN, ERDEM MURAT, ERYÜREK GÖNÜL

International Porous and Powder Materials Symposium and Exhibition 2013, 2013

International

### **Effect of Nd<sup>3+</sup> Ions on the Crystallite Size Distribution of ZnSe Quantum Dots in SiO<sub>2</sub> Glasses**

Thami Elboukhari, KAYGUSUZ HAKAN, ERDEM MURAT, ERYÜREK GÖNÜL

2013 MRS Fall Meeting & Exhibit, 2013

International

### **Comparison of Aluminum Alginate and Aluminum Alginate - Montmorillonite Composite Beads on Defluoridation of Water**

KAYGUSUZ HAKAN, Çoşkunırmak Meryem Hilal, BERKER FATMA BEDİA

6th Black Sea Basin Conference on Analytical Chemistry, 2013

International

## PROCEEDINGS

### **Alginate Montmorillonite Composite Beads for in vitro Release of Riboflavin**

KAYGUSUZ HAKAN, Uysal Mutlu, Adımcılar Veselina, BERKER FATMA BEDİA

International Porous and Powder Materials Symposium and Exhibition 2013, 2013

International

### **Alüminyum aljinat küreleri ile sulu çözeltilerden florür uzaklaştırması**

KAYGUSUZ HAKAN, Uzaşçı Sesil, BERKER FATMA BEDİA

6. Ulusal Analitik Kimya Kongresi, 2012

National

### **Modifiye aljinat jellerinden protein salımı**

KAYGUSUZ HAKAN, BERKER FATMA BEDİA

15. Ulusal Sıvıhal Fiziği Sempozyumu, 2011

National

### **Vanilin ve kafeinin kalsiyum aljinat jellerinden kontrollü salımı**

Uyar Güler, KAYGUSUZ HAKAN, BERKER FATMA BEDİA

24. Ulusal Kimya Kongresi, 2010

National

### **Katkılı aljinat hidrojel kürelerinden kontrollü protein salımı**

KAYGUSUZ HAKAN, BERKER FATMA BEDİA

24. Ulusal Kimya Kongresi, 2010

National

### **Controlled release of proteins from doped alginate hydrogels**

KAYGUSUZ HAKAN, BERKER FATMA BEDİA

Particles 2010, 2010

International

### **Y2O3, Y2O3: Nd3+ ve Y2O3: Tm3+ Nanofosforlarının Yanma ve Termal Bozunma Teknikleriyle Sentezlenmesi ve Karakterizasyonu**

BİLİR GÖKHAN, ERDEM MURAT, Serdar Yasemin, ÇELİK BOZDOĞAN AYŞEGÜL, Tatar Demet, KAYGUSUZ HAKAN, TEZCAN TEKELİ FİLİZ, ERYÜREK GÖNÜL, DEMİRBİLEK RIZA, BERKER FATMA BEDİA, ÖVEÇOĞLU MUSTAFA LUTFİ

İTÜ Nano-Bilim ve Nano-Teknoloji Çalıştayı, 2009

National

### **Biyo-Nano Kompozit Malzemeler, Kontrollü İlaç, Protein ve Antioksidan Salımı ve Nano Ölçekli bir Ayırma Yöntemi**

BERKER FATMA BEDİA, ERYÜREK GÖNÜL, TEZCAN TEKELİ FİLİZ, KAYGUSUZ HAKAN

İTÜ Nano-Bilim ve Nano-Teknoloji Çalıştayı, 2009

National

### **Y2O3 Nanophosphors Synthized by Combustion and Thermal Decomposition Techniques**

Tatar Demet, KAYGUSUZ HAKAN, TEZCAN TEKELİ FİLİZ, BERKER FATMA BEDİA, ÖVEÇOĞLU MUSTAFA LUTFİ, ERYÜREK GÖNÜL

Nanotechnology Conference and Trade Show NSTI-Nanotech 2008, 2008

International

### **Y2O3 Nanophosphors Synthized by Thermal Decomposition Technique**

Tezcan Filiz, KAYGUSUZ HAKAN, Tatar Demet, BERKER FATMA BEDİA, ÖVEÇOĞLU MUSTAFA LUTFİ, ERYÜREK GÖNÜL

4. Ulusal Nanobilim ve Nanoteknoloji Konferansı, 2008

National

## PROCEEDINGS

### Y2O3 Nanophosphors Synthesized by Combustion Technique

KAYGUSUZ HAKAN, TEZCAN TEKELİ FİLİZ, Tatar Demet, BERKER FATMA BEDİA, ÖVEÇOĞLU MUSTAFA LUTFİ, ERYÜREK GÖNÜL

4. Ulusal Nanobilim ve Nanoteknoloji Konferansı, 2008

National

### Bazı AMX3 A Alkali M Metal H Halojen kristallerinin Bridgeman yöntemi ile büyütülmesi ve karakterizasyonu

ÇELİK BOZDOĞAN AYŞEGÜL, KAYGUSUZ HAKAN, ÇALIŞKAN MURAT, Asan Gökhan, Keleş V, DEMİRBİLEK RIZA

Türk Fizik Derneği 25. Uluslararası Fizik Kongresi, 2008

International

### Structural analysis of TeO2 WO3 glasses by Raman spectroscopy

KAYGUSUZ HAKAN, Karaduman Günkut, ERYÜREK GÖNÜL, BERKER FATMA BEDİA, ÖVEÇOĞLU MUSTAFA LUTFİ

TPS 24th International Physics Congress, 2007

International

### Bridgman yöntemi ile kristal büyütme ve bu yöntemle büyütülmüş CsCdBr3 kristalinde örgü enerji seviyeleri ve yüksek enerjiye dönüşüm olayları

DEMİRBİLEK RIZA, Johann Heber, Polat Necdet, KAYGUSUZ HAKAN, ERYÜREK GÖNÜL

8. Ulusal Fotonik Çalıştayı, 2006

National

### Bridgman yöntemi ile kristal büyütme ve bu yöntemle büyütülebilecek bazı lazer kristalleri

Polat Necdet, KAYGUSUZ HAKAN, DEMİRBİLEK RIZA, BERKER FATMA BEDİA, ERYÜREK GÖNÜL

8. Ulusal Fotonik Çalıştayı, 2006

National

## PROJECTS

### Biyopolimer küre ve tabakalı filmlerin hazırlanması ve fiziksel özelliklerinin incelenmesi (Researcher)

Scientific research project supported by Higher Education Institutions, 29.03.2016 - 07.12.2017

National Completed

### Bağcılar İlçesindeki Öğretmenler İçin Akademisyen - Öğretmen İşbirliği Platformu Kurulması (Executive)

Scientific research project supported by Higher Education Institutions, 21.01.2021 - 17.12.2021

National Completed

### Metal Oksit Nanoparçacıklarının Aljinat Yöntemiyle Sentezi ve Karakterizasyonu (Executive)

Scientific research project supported by Higher Education Institutions, 21.01.2021 - 05.10.2022

National Completed

### TeknoGenç Bağcılar (Project Coordinator)

Ministry of Development, 01.03.2024 - 31.08.2024

National Continues

### Polimer Nanokompozitlerin Geri Dönüşümü (Advisor)

TÜBİTAK Project, 19.04.2023 -

National Continues

### Mimarlık Yayınlarının İstatistiksel ve Ülkesel Analizi (Advisor)

TÜBİTAK Project, 16.05.2022 - 09.06.2023

National Completed

### Biyonanokompozit malzemelerden kontrollü protein salımının incelenmesi (Researcher)

Scientific research project supported by Higher Education Institutions, 14.04.2010 - 14.06.2011

National Completed

## PROJECTS

**Seryum iyonu ve nano seryum oksit içerikli yeni yara kapatıcı çitosan bazlı hidrojel filmlerin hazırlanması: Antibakteriyel ve fiziksel özelliklerinin incelenmesi (Researcher)**

Scientific research project supported by Higher Education Institutions, 13.11.2017 - 24.02.2020

National Completed

**Altınbaş Üniversitesi Merkezi Araştırma Laboratuvarına Bağlı Hücre Kültürü ve Kromatografi Laboratuvarlarının Kurulumu (Researcher)**

Scientific research project supported by Higher Education Institutions, 03.05.2021 - 14.12.2021

National Completed

**2214 - B Yurt Dışı Müşterek Doktora Burs Programı (Scholar)**

TÜBİTAK Project, 01.06.2014 - 31.05.2015

National Completed

## THESIS SUPERVISION

**Detection of chemometric markers in liver tissue using infrared spectroscopy**

ARWA DAHHAM ABDULHADI QADAWEE

2023 Master's Degree

**Fatigue analysis and modeling of a high-pressure cylinder used in water jet cutting machine**

MOHAMAD MOURAD

2022 Master's Degree

**An analysis of mechanical engineering publications published in Iran (2010-2021)**

SAEID SUFY MOGHADDAM KOKANEH

2022 Master's Degree

**Synthesis and characterization of copper oxide nanoparticles via biopolymer method**

ALAA HASAN NASER AL-MUSAWI

2022 Master's Degree

**Preparation of zinc crosslinked alginate and carboxymethyl cellulose wound dressings**

ZAHED KOCHAI

2022 Master's Degree

**Preparation of cerium cross-linked alginate and carboxymethyl cellulose wound dressings**

SEYEDEHGOLNAR ABTAHI

2022 Master's Degree

**Biopolymer assisted green synthesis of functional cobalt oxide nanoparticles**

TITILAYOMI ROSELINE ADETORO

2022 Master's Degree

**Swelling properties of calcium alginate-cerium oxide nanocomposites**

WAEEL WISAM FALIH AL HAJJAJ

2021 Master's Degree

**Aljinat-karboksümetil selüloz kürelerinin hazırlanması ve fiziksel özelliklerin incelenmesi**

BURCU ORHAN

2021 Master's Degree

**Synthesis and characterization of copper alginate quasi-cryogel beads**

ALI TAISSIR BELHI

2021 Master's Degree

**Designing new model of flat plate solar water heating systems for greenhouses in Erbil, Iraq**

DALSHAD MAJEED RASHID RASHID

2021 Master's Degree

## THESIS SUPERVISION

**Investigation of mechanical properties of unsaturated polyester – glass fiber composites used for boat structure**

ANMAR ABDULAZEEZ OWAIID

2021 Master's Degree

**Annealing effect on green synthesized cerium oxide nanoparticles**

FAROUK ABDULHAMID

2021 Master's Degree

**Synthesis of iron oxide nanoparticles via biopolymer method**

OMAR AMER ABDULKAREEM

2021 Master's Degree

**Gain characteristics of short-length erbium doped fiber amplifiers at extreme temperatures**

MUSTAFA AFIF ABDULAZEEZ AL NUWAB

2020 Master's Degree

**A model for the distribution of temperature on the aluminum alloy when using friction welding**

SEWARA MOHSIN MAHEALDEEN SHEKHAN

2020 Master's Degree

**Simulation of the intercooler and regenerative cycle on the gas turbine performance**

ALI MOHAMMED HUSSEIN HUSSEIN

2020 Master's Degree

**Effects of  $SiO_2$  and  $Al_2O_3$  nanoparticles on the filtration, rheological and physicochemical properties of drilling fluid**

HAYDER KHUDHAIR ABBAS ABBAS

2020 Master's Degree

## COURSES

Course Type	Course Code	Course Name
Bachelor's Degree	CHEM123	GENERAL CHEMISTRY
Master's Degree	BMSE511	BIOPOLYMERS
Master's Degree	BMSE540	INSTRUMENTAL ANALYTICAL METHODS
Bachelor's Degree	CHEM124	GENERAL CHEMISTRY II
Master's Degree	BMSE544	PHYSICAL CHEMISTRY FOR BIOMEDICAL SCIENCES

## PERSONAL INFORMATION

### CONTACT INFORMATION

Interview Hours: Pazartesi - 13:00 - 14:00

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