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Kişisel Bilgiler

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Eğitim Bilgileri

Doktora, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2011 - 2017
Yüksek Lisans, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Türkiye 2009 - 2011
Lisans, İstanbul Teknik Üniversitesi, Türkiye 2004 - 2009

Yabancı Diller

İngilizce

Yaptığı Tezler

Doktora, Hedefli kanser tedavisine yönelik kil katkılı nanopartikül üretimi ve modellenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2017
Yüksek Lisans, Sepiyolit kiline kuvaterner amin surfaktanlarının adsorpsiyonunun deneysel ve teorik olarak incelenmesi, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, 2011

Araştırma Alanları

Avesis Araştırma Alanları: Sağlık Bilimleri, Biyokimya, Biyoinformatik, Moleküler Biyoloji ve Genetik, Kimya, Mühendislik ve Teknoloji
WoS Araştırma Alanları: Biyokimya ve Moleküler Biyoloji, Biyoloji ve Biyokimya, Mühendislik Bilişim ve Teknoloji (Eng), Bilgisayar Bilimi, Mühendislik, Malzeme Bilimi, Doğa Bilimleri Genel, Kimya, Çok Disiplinli Bilimler
Scopus Araştırma Alanları: Genel Biyokimya, Genetik ve Moleküler Biyoloji, Biyokimya (tıbbi), Genel Bilgisayar Bilimi, Genel Mühendislik, Genel Malzeme Bilimi, Genel Kimya, Multidisipliner

Akademik Ünvanlar / Görevler

Dr. Öğr. Üyesi, Manisa Celal Bayar Üniversitesi, 2020 - Devam Ediyor

Akademik İdari Deneyim

Manisa Celal Bayar Üniversitesi, 2024 - Devam Ediyor

Verdiği Dersler

Lisans
Computer Aided Technical Drawing, Lisans, 2023-2024
Bioinformatics, Lisans, 2023-2024
Molecular Modeling, Lisans, 2023-2024
Engineering Management and Ethics, Lisans, 2023-2024
Basic Computer Programming, Lisans, 2022-2023
Statistics, Lisans, 2022-2023
Engineering Economy, Lisans, 2021-2022
Thermodynamics, Lisans, 2020-2021
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Engineering Mathematics, Lisans Çift Anadal, 2023-2024
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Yönetilen Tezler

KARATAŞ D., Evaluation of new drug ingredients affecting prostate specific antigen (PSA) protein concentration in prostate cancer treatment using molecular modeling methods, Yüksek Lisans, B.KARALAR(Öğrenci), 2024
KARATAŞ D., Investigation of the Type 2 Diabetes Mellitus Treatment Potential of Astaxanthin Produced from Microalgae through Molecular Modeling, Yüksek Lisans, N.SAZLI(Öğrenci), 2024
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Makaleler

I. **Biallelic *SLC20A2* loss-of-function in severe early-onset neurodevelopmental disorder with brain calcification**
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III. **Flotation of a Copper Oxide-Sulfide Ore Using NaHS-Assisted Sulfidization and 2,5-Dimercapto-1,3,4-Thiadiazole (DMTD) as a Collector: Experimental and DFT Insights**
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IV. **Multifaceted Elucidation of the BARD1-Targeting Mechanism of Natural Ginsenosides Through Molecular Docking, Molecular Dynamics Simulations, DFT Calculations, and MM/PBSA Analyses**

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V. **Experimental and DFT investigations on multifunctional $Ti_3C_2T_x$ MXenes/ PDAAQ free standing interlayer for enhancing the cycle life and high-rate performance of Na-S batteries**
Kiai M. S., Aslfattahi N., KARATAŞ D., Baydoğan N., Samylingam L., Kadirgama K., Kok C. K.
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VI. **In silico Assessment of the Interaction of the Natural Compound Zeaxanthin with Insulin, Glucocorticoid, and GLP-1 Receptors Associated with Type 2 Diabetes**
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VII. **Hydrogen storage in transition metal-loaded MCM-41: an integrated density functional theory and Monte Carlo simulation investigation**
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VIII. **Simulation, DFT calculation, and experimental investigation of graphene nanoplates@MoS2@CoS2 for electrochemically stable Li-S batteries**
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X. **In Silico Design and Computational Elucidation of Hypothetical Resveratrol–Curcumin Hybrids as Potential Cancer Pathway Modulators**
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XV. **Experimental and DFT calculations for C/ZnO@S cathode and prelithiation Si anode for advanced sulfur-based batteries**
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XVI. **Moleküler Modelleme ile Kolorektal Kanser Tedavisinde Doğal Ajanların Potansiyelinin Araştırılması**
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XVII. **Investigation of a Stable Interaction of Levothyroxine with AFP Through Molecular Modelling**

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Genel Tıp Dergisi, cilt.35, sa.1, ss.52-69, 2025 (TRDizin)

XX. **A Review on the Antidiabetic Potential of Saffron in the Treatment of Type 2 Diabetes Mellitus and Its Research Methodologies**
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XXI. **Prebiotic Chemistry and Sepiolite: A Density Functional Theory Approach**
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XXII. **Prebiotic Chemistry and Sepiolite: A DFT Approach**
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XXIII. **Reviewing the Optimal Conditions for Efficiently Harnessing the Phytotherapeutic Potential of the Invasive Carpobrotus edulis (L.) N.E. Br Plant Threatening Plant Diversity**
Sazlı N., KARATAŞ D.
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XXIV. **Demonstration of Interaction between Carbapenem Group Antibiotics and Different Immunosuppressant Drugs by Molecular Docking**
KARATAŞ D., Gonel A., Koyuncu I., Temiz E., Egi K., Durgun M., Akmese S., Caglayan M.
Letters in Drug Design and Discovery, cilt.21, sa.5, ss.880-887, 2024 (SCI-Expanded, Scopus)

XXV. **Adsorption mechanism of HTAB-octanol mixture onto silica sensor by QCM-D and MD simulation**
KARATAŞ D., Can M. F., Karaguzel C., Çelik M. S., Xu Z.
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XXVI. **Phytochemicals of Hibiscus sabdariffa with Therapeutic Potential against SARS-CoV-2: A Molecular Docking Study**
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XXVII. **Investigation of The Binding Potential of Gadobutrol, Iohexol and Fluorescein Radiocontrast Agents to the TSH Receptor**
KARATAŞ D., GÖNEL A.
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XXVIII. **Investigation of the interactions of arsenic with gangue minerals in colemanite calcination**
Karaagaclioglu I. E., KARATAŞ D., Özyıldırım Ö., Çelik M. S.
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XXIX. **Enhancing the Kinetic Stability of Polymeric Nanomicelles (PLGA) Using Nano-Montmorillonite for Effective Targeting of Cancer Tumors**
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XXX. **Morphological analysis of organo-montmorillonites via MD simulations**
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XXXI. **Modeling of molecular interaction between catechol and tyrosinase by DFT**
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XXXII. **Coating Mechanism of AuNPs onto Sepiolite by Experimental Research and MD Simulation**
KARATAŞ D., Senol Arslan D., KURŞUN ÜNVER İ., Özdemir O.
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XXXIII. **EXPERIMENTAL AND ATOMIC MODELING OF THE ADSORPTION OF ACID AZO DYE 57 TO SEPIOLITE**
KARATAŞ D., Senol-Arslan D., Özdemir O.
CLAYS AND CLAY MINERALS, sa.5, ss.426-437, 2018 (SCI-Expanded, Scopus)

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KARATAŞ D., Tekin A., BAHADORI F., Çelik M. S.
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XXXV. **DENSITY FUNCTIONAL THEORY COMPUTATION OF ORGANIC COMPOUND PENETRATION INTO SEPIOLITE TUNNELS**
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XXXVI. **Adsorption of quaternary amine surfactants and their penetration into the intracrystalline cavities of sepiolite**
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Hakemli Bilimsel Toplantılarda Yayımlanmış Bildiriler

I. **EVALUATION OF THE BINDING BEHAVIOR OF GINSENOSIDE-BASED STRUCTURAL ANALOGS ON THE ANK DOMAIN USING IN SILICO TECHNIQUES IN THE SEARCH FOR ALTERNATIVE SOLUTIONS FOR BREAST CANCER TREATMENT**
Sazlı N., KARATAŞ D.
14th International Azerbaijan Congress on Life, Engineering, Mathematical, and Applied Sciences |, Baku, Azerbaycan, 26 Mart 2026, (Tam Metin Bildiri)

II. **Assessment Of The Multi-Target Modulator Potential Of Microalgae-Derived Zeaxanthin On The Stabilization Of P53- Related Receptor Structures And Mdm2 Inhibition Via In Silico Analyses: Molecular Docking And Admet Evaluation**
Sazlı N., KARATAŞ D.
9th INTERNATIONAL SELÇUK SCIENTIFIC RESEARCH CONGRESS, Konya, Türkiye, 14 - 15 Mart 2026, (Tam Metin Bildiri)

III. **Discovery Of Natural Stabilizers For The Undruggable Bard1- Ard Receptor: Molecular Docking And Pharmacokinetic Analysis Of Ginsenoside Analogues And The Chemotherapy Drug Docetaxel**
Sazlı N., KARATAŞ D.
7th INTERNATIONAL BLACK SEA SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Trabzon, Türkiye, 22 - 23 Şubat 2026, (Tam Metin Bildiri)

IV. **PROMISING CANDIDATES FOR TYPE 2 DIABETES TREATMENT: BINDING AND ADMET PROFILES OF MICROALGAL ZEAXANTHIN ANALOGS AS INSULIN RECEPTOR KINASE MODULATORS**
Sazlı N., KARATAŞ D.
24TH INTERNATIONAL ISTANBUL SCIENTIFIC RESEARCH CONGRESS ON LIFE, ENGINEERING, ARCHITECTURE AND MATHEMATICAL SCIENCES |, İstanbul, Türkiye, 20 - 22 Şubat 2026, (Tam Metin Bildiri)

V. **COMPARATIVE ANALYSIS OF THE BINDING INTERACTIONS AND PHARMACOKINETIC SUITABILITY OF MICROALGAL ASTAXANTHIN PIGMENT WITH INSULIN, GLUCAGON, AND GLP-1 RECEPTORS ASSOCIATED WITH T2DM**
Sazlı N., KARATAŞ D.
13th INTERNATIONAL GÖBEKLİTEPE SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Şanlıurfa, Türkiye, 24 - 25 Ocak 2026, (Tam Metin Bildiri)

VI. **EVALUATION OF ASTAXANTHIN'S EFFECTS ON INSULIN, GLUCAGON, AND GLP-1 RECEPTORS, WHICH PLAY A KEY ROLE IN THE PATHOPHYSIOLOGY OF TYPE 2 DIABETES MELLITUS, USING PAN-MODULATOR MOLECULAR DOCKING AND ADMET-BASED ANALYSES**
Sazlı N., KARATAŞ D.
6TH INTERNATIONAL THALES CONGRESS ON LIFE, ENGINEERING, ARCHITECTURE AND MATHEMATICS, Kahire, Mısır, 20 - 22 Ocak 2026, (Tam Metin Bildiri)

VII. **MOLECULAR DOCKING AND ADMET APPROACHES FOR TARGETING CURCUMIN AND ITS ANALOGS AGAINST THE GTP-BOUND ACTIVE FORM OF KRAS IN NSCLC**
Sazlı N., KARATAŞ D.
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VIII. **In Silico Evaluation of Multi-Target Natural Compounds for Type 2 Diabetes Treatment: Molecular Docking and Pharmacokinetic Profiling**
Sazlı N., KARATAŞ D.
19. Uluslararası Tıp ve Sağlık Bilimleri Araştırmaları Kongresi, Ankara, Türkiye, 12 Temmuz 2025, (Tam Metin Bildiri)

IX. **IN SILICO EVALUATION OF RESVERATROL AND ITS ANALOGS TARGETING THE HGF/C-MET RECEPTOR FOR THE TREATMENT OF PANCREATIC CANCER**
Sazlı N., KARATAŞ D.
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X. **EVALUATING THE DRUG POTENTIAL OF THE NATURAL AGENT GINSENOSIDES FOR THE TREATMENT OF BARD1-RELATED BREAST CANCER USING A MOLECULAR MODELING APPROACH**
Sazlı N., KARATAŞ D.
6TH INTERNATIONAL BLACK SEA MODERN SCIENTIFIC RESEARCH CONGRESS, Trabzon, Türkiye, 23 - 25 Ağustos 2024, (Tam Metin Bildiri)

XI. **INVESTIGATION OF THE POTENTIAL OF THE NATURAL AGENT CROCIN AS AN ALTERNATIVE TO CHEMICAL DRUGS IN THE TREATMENT OF PIK3CA-RELATED BREAST CANCER USING A MOLECULAR MODELING APPROACH**
Sazlı N., KARATAŞ D.
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XII. **INVESTIGATION OF A NATURAL AGENT SOLUTION ON BREAST CANCER BY MOLECULAR MODELING**
Sazlı N., KARATAŞ D.
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XIII. **IN SILICO STUDIES OF EMODIN TARGETING CMET, FGFR1 AND FGFR3 IN THE MANAGEMENT OF BLADDER CANCER**
AKBABA E., KARATAŞ D.
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XIV. **Interaction of Wild Type and V804l and V804m-Mutated Ret Protein Kinase with Emodin: In Silico Approach**
AKBABA E., KARATAŞ D.
3rd International Conference on General Health Sciences (ICGeHeS), marmaris, Türkiye, 27 - 30 Nisan 2023, cilt.9, ss.14-20, (Tam Metin Bildiri)

XV. **Interaction of Povidone Iodine with Estrogen and Progesterone Receptors by Molecular Docking**
KARATAŞ D., GÖNEL A.
The Proceedings of the 26th International Biomedical Science and Technology Symposium, Ankara, Türkiye, 25 - 27 Kasım 2022, (Özet Bildiri)

XVI. **Nikotinin Klotho Proteinine Afinitesinin Moleküler Docking ile Demonstrasyonu**

KARATAŞ D., GÖNEL A., ÇAĞLAYAN M.
33. ULUSAL KİMYA KONGRESİ, Tekirdağ, Türkiye, 7 - 09 Ekim 2021, ss.166, (Özet Bildiri)

XVII. **FLOTATION CHEMISTRY OF A RARE EARTH MINERAL: BASTNASITE**
KARATAŞ D., KARAAĞAÇLIOĞLU İ. E., EYGİ M. S., ÇELİK M. S.
XVII. BALKAN MINERAL PROCESSING CONGRESS, 01 Kasım 2017, (Tam Metin Bildiri)

XVIII. **HOW GANGUE MINERALS IN COLEMANITE ORE AFFECT ARSENIC REMOVAL DURING ITS CALCINATION**
KARAAĞAÇLIOĞLU İ. E., ÖZYILDIRIM Ö., KARATAŞ D., ÖZDEMİR O., KARAKAŞ F., BOYLU F., ÇELİK M. S.
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XIX. **"Upgrading The Montmorillonite Suspensions Through Addition Of Calcined Magnesite**
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Desteklenen Projeler

KARATAŞ D., ERDEM M. G., Mikroalglerden Üretilen Astaksantinin Tip 2 Diabetes mellitus Tedavisinde Antidiyabetik Potansiyelinin Klasik Moleküler Modelleme ve Yapay Zeka Yaklaşımları ile Karşılaştırılmalı Olarak İncelenmesi, 2024 - Devam Ediyor
ÇELİK M. S., TEKİN A., BAHADORI F., HEDEFLİ KANSER TEDAVİSİNE YÖNELİK PLGA-MMT NANO KOMPOZİTİNİN ÜRETİMİ VE MOLEKÜLER DİNAMİK SİMÜLASYON İLE İNCELENMESİ, 2015 - 2016

Metrikler

Yayın: 55
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Atıf (Scopus): 36
H-İndeks (WoS): 8
H-İndeks (Scopus): 3

Akademi Dışı Deneyim

University of Alberta, Akademik Ziyaretçi