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International Researcher IDs

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Education Information

Doctorate, Inonu University, Fen-Edebiyat Fakültesi, Kimya, Turkey 2016 - 2021

Postgraduate, Aksaray University, Faculty of Science and Arts, Department of Chemistry, Turkey 2014 - 2016

Research Areas

Biochemistry

Academic Titles / Tasks

Assistant Professor, Bursa Uludağ University, FEN-EDEBİYAT FAKÜLTESİ, KİMYA, 2021 - Continues

Courses

BIOCHEMISTRY LABORATORY , Undergraduate, 2021 - 2022

BİYOLOJİK ZARLARDA TAŞINMA VE VE BİYOSİNYAL İLETİMİ, Postgraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **A New Design to Enhance the Enzyme Activities: Investigation of L-Asparaginase Catalytic Performance by IMAC Effect on g-C₃N₄ Nanolayers**
Sert B., Acet Ö., NOMA S. A. A., OSMAN B., Odabaşı M., Ocakoglu K.
Catalysis Letters, vol.154, no.4, pp.1547-1557, 2024 (SCI-Expanded)
- II. **Enhancement of enzyme activity by laser-induced energy propulsion of upconverting nanoparticles under near-infrared light: A comprehensive methodology for in vitro and in vivo applications**
ATEŞ B., ULU A., Asiltürk M., Noma S. A. A., Topel S. D., Dik G., ÖZHAN O., Bakar B., YILDIZ A., VARDI N., et al.
International Journal of Biological Macromolecules, vol.260, 2024 (SCI-Expanded)
- III. **Decolorization of Congo Red and Reactive Black 5 Dyes with Horseradish Peroxidase-Immobilized Cross-Linked Polymeric Microbeads**
Zhumabekova A., NOMA S. A. A., TÜMAY ÖZER E., OSMAN B.
ARABIAN JOURNAL FOR SCIENCE AND ENGINEERING, 2024 (SCI-Expanded)
- IV. **Thioether-substituted Benzimidazolium Salts: Synthesis, Characterization, Crystal Structure, and**

Their Inhibitory Properties Against Acetylcholinesterase and Xanthine Oxidase

Yavuz K., Noma S. A. A., ŞEN YÜKSEL B., Taskin-Tok T., AKTAŞ A., ATEŞ B., OSMAN B., AYGÜN M., GÖK Y.
Journal of Molecular Structure, vol.1287, 2023 (SCI-Expanded)

- V. **Investigation of improved uricase release and kinetic parameters through dual affected responsive nanopolymers**
NOMA S. A. A.
Process Biochemistry, vol.131, pp.52-58, 2023 (SCI-Expanded)
- VI. **A rational approach for 3D recognition and removal of L-asparagine via molecularly imprinted membranes**
Acet Ö., Noma S. A. A., Acet B. Ö., Dikici E., OSMAN B., Odabaşı M.
Journal of Pharmaceutical and Biomedical Analysis, vol.226, 2023 (SCI-Expanded)
- VII. **Synthesis, characterization and inhibitor properties of benzimidazolium salts bearing 4-(methylsulfonyl)benzyl side arms**
GÜZEL A., Noma S. A. A., ŞEN YÜKSEL B., Kazancı A., Taskin-Tok T., KOLAÇ T., AKTAŞ A., ATEŞ B., AYGÜN M., GÖK Y.
Journal of Molecular Structure, vol.1273, 2023 (SCI-Expanded)
- VIII. **The Cytotoxicity, DNA Fragmentation, and Decreasing Velocity Induced By Chromium(III) Oxide on Rainbow Trout Spermatozoa.**
Özgür M. E., Ulu A., Gürses C., Özcan İ., Noma S. A. A., Köytepe S., Ateş B.
Biological trace element research, vol.201, no.2, pp.968-983, 2023 (SCI-Expanded)
- IX. **Design, synthesis, spectroscopic characterizations, single crystal X-ray analysis, in vitro xanthine oxidase and acetylcholinesterase inhibitory evaluation as well as in silico evaluation of selenium-based N-heterocyclic carbene compounds.**
Kaya G., Noma S. A. A., Barut Celepci D., Bayıl İ., Taskin-Tok T., Gök Y., Ateş B., Aktaş A., Aygün M., Tezcan B.
Journal of biomolecular structure & dynamics, vol.41, no.21, pp.11728-11747, 2023 (SCI-Expanded)
- X. **Effects of taurine and apocynin on the zone of stasis.**
Öcük Ö., Fırat C., Yıldız A., Vardı N., Ulu A., Abbas Ali Noma S. A. A., Parlakpınar H., Özhan O.
Burns : journal of the International Society for Burn Injuries, vol.48, pp.1850-1862, 2022 (SCI-Expanded)
- XI. **Fast Curing Multifunctional Tissue Adhesives of Sericin-Based Polyurethane-Acrylates for Sternal Closure.**
Balcioglu S., Noma S. A. A., Ulu A., Karaaslan-Tunc M. G., Ozhan O., Koytepe S., Parlakpınar H., Vardi N., Colak M. C., Ates B.
ACS applied materials & interfaces, vol.14, pp.41819-41833, 2022 (SCI-Expanded)
- XII. **Synthesis and biological evaluation of Au-NHC complexes**
Ekinci O., Akkoc M., Khan S., YAŞAR S., GÜRSES C., Noma S. A. A., Balcioglu S., Sen B., AYGÜN M., YILMAZ İ.
APPLIED ORGANOMETALLIC CHEMISTRY, vol.36, no.9, 2022 (SCI-Expanded)
- XIII. **Novel hybrid isoindole-1,3(2H)-dione compounds containing a 1H-tetrazole moiety: Synthesis, biological evaluation, and molecular docking studies.**
Tan A., Kizilkaya S., Noma S. A. A., Ates B., Kara Y.
Journal of biochemical and molecular toxicology, vol.36, 2022 (SCI-Expanded)
- XIV. **Design of laccase-metal-organic framework hybrid constructs for biocatalytic removal of textile dyes**
BİRHANLI E., Noma S. A. A., BORAN F., Ulu A., YEŞİLADA Ö., ATEŞ B.
Chemosphere, vol.292, 2022 (SCI-Expanded)
- XV. **Characterization of the antioxidant activity, total phenolic content, enzyme inhibition, and anticancer properties of Achillea millefolium L. (yarrow)**
Karaaslan Ayhan N., Karaaslan Tunc M. G., Noma S. A. A., Kurucay A., ATEŞ B.
INSTRUMENTATION SCIENCE & TECHNOLOGY, vol.50, no.6, pp.654-667, 2022 (SCI-Expanded)
- XVI. **A study about excellent xanthine oxidase inhibitory effects of new pyridine salts**
Yilmaz U., Noma S. A. A., Tok T. T., Sen B., GÖK Y., AKTAŞ A., ATEŞ B., AYGÜN M.
MONATSFESTE FÜR CHEMIE, vol.152, no.10, pp.1251-1260, 2021 (SCI-Expanded)
- XVII. **Development of L-asparaginase@hybrid Nanoflowers (ASNase@HNFs) Reactor System with**

Enhanced Enzymatic Reusability and Stability

Noma S. A. A., Yilmaz B. S., Ulu A., ÖZDEMİR N., ATEŞ B.

CATALYSIS LETTERS, vol.151, no.4, pp.1191-1201, 2021 (SCI-Expanded)

- XVIII. Synthesis, inhibition properties against xanthine oxidase and molecular docking studies of dimethyl N-benzyl-1H-1,2,3-triazole-4,5-dicarboxylate and (N-benzyl-1H-1,2,3-triazole-4,5-diyl)dimethanol derivatives**
Yagiz G., Noma S. A. A., ALTUNDAŞ A., Al-khafaji K., Taskin-Tok T., ATEŞ B.
BIOORGANIC CHEMISTRY, vol.108, 2021 (SCI-Expanded)
- XIX. L-asparaginase immobilized p(HEMA-GMA) cryogels: A recent study for biochemical, thermodynamic and kinetic parameters**
Noma S. A. A., Acet O., Ulu A., Onal B., Odabasi M., ATEŞ B.
POLYMER TESTING, vol.93, 2021 (SCI-Expanded)
- XX. The (NHC)PdBr₂(2-aminopyridine) complexes: synthesis, characterization, molecular docking study, and inhibitor effects on the human serum carbonic anhydrase and serum bovine xanthine oxidase**
Turker F., Noma S. A. A., AKTAŞ A., Al-Khafaji K., Tok T. T., ATEŞ B., GÖK Y.
MONATSHFÜR CHEMIE, vol.151, no.10, pp.1557-1567, 2020 (SCI-Expanded)
- XXI. Water Soluble Coumarin Quaternary Ammonium Chlorides: Synthesis and Biological Evaluation**
KARATAŞ M. O., Noma S. A. A., GÜRSES C., Balcioglu S., ATEŞ B., ALICI B., Cakir U.
CHEMISTRY & BIODIVERSITY, vol.17, no.9, 2020 (SCI-Expanded)
- XXII. Preparation and characterization of amino and carboxyl functionalized core-shell Fe₃O₄/SiO₂ for L-asparaginase immobilization: A comparison study**
Noma S. A. A., Ulu A., KÖYTEPE S., ATEŞ B.
BIOCATALYSIS AND BIOTRANSFORMATION, vol.38, no.5, pp.392-404, 2020 (SCI-Expanded)
- XXIII. Melatonin protects sperm cells of Capoeta trutta from toxicity of titanium dioxide nanoparticles**
Ozgur M. E., Ulu A., Noma S. A. A., Ozcan I., Balcioglu S., ATEŞ B., KÖYTEPE S.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.27, no.15, pp.17843-17853, 2020 (SCI-Expanded)
- XXIV. Synthesis, characterization and biological assessment of a novel hydrazone as potential anticancer agent and enzyme inhibitor**
Noma S. A. A., Erzen M., Tunc T., Balcioglu S.
JOURNAL OF MOLECULAR STRUCTURE, vol.1205, 2020 (SCI-Expanded)
- XXV. Comparative study of ASNase immobilization on tannic acid-modified magnetic Fe₃O₄/SBA-15 nanoparticles to enhance stability and reusability**
Noma S. A. A., Ulu A., Acet O., Sanz R., Sanz-Perez E. S., Odabasi M., ATEŞ B.
NEW JOURNAL OF CHEMISTRY, vol.44, no.11, pp.4440-4451, 2020 (SCI-Expanded)
- XXVI. Evaluation of xanthine oxidase inhibitor properties on isoindoline-1,3-dione derivatives and calculation of interaction mechanism**
Gundugdu O., Noma S. A. A., Taskin-Tok T., ATEŞ B., KİSHALI N.
JOURNAL OF MOLECULAR STRUCTURE, vol.1204, 2020 (SCI-Expanded)
- XXVII. Synthesis, biological evaluation and molecular docking studies of bis-chalcone derivatives as xanthine oxidase inhibitors and anticancer agents**
Burmaoglu S., Ozcan S., Balcioglu S., Gencel M., Noma S. A. A., Essiz S., ATEŞ B., ALGÜL Ö.
BIOORGANIC CHEMISTRY, vol.91, 2019 (SCI-Expanded)
- XXVIII. New 2-hydroxyethyl substituted N-Heterocyclic carbene precursors: Synthesis, characterization, crystal structure and inhibitory properties against carbonic anhydrase and xanthine oxidase**
AKTAŞ A., Noma S. A. A., BARUT CELEPCI D., Erdemir F., GÖK Y., ATEŞ B.
JOURNAL OF MOLECULAR STRUCTURE, vol.1184, pp.487-494, 2019 (SCI-Expanded)
- XXIX. Chloro-Modified Magnetic Fe₃O₄@MCM-41 Core-Shell Nanoparticles for L-Asparaginase Immobilization with Improved Catalytic Activity, Reusability, and Storage Stability**
Ulu A., Noma S. A. A., KÖYTEPE S., ATEŞ B.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, vol.187, no.3, pp.938-956, 2019 (SCI-Expanded)
- XXX. Chitosan/Polyvinylpyrrolidone/MCM-41 Composite Hydrogel Films: Structural, Thermal, Surface,**

and Antibacterial Properties

Ulu A., Noma S. A. A., GÜRSER C., KÖYTEPE S., ATEŞ B.

STARCH-STARKE, vol.70, no.11-12, 2018 (SCI-Expanded)

XXXI. Xanthine oxidase inhibitory activity of new pyrrole carboxamide derivatives: In vitro and in silico studies

KIBRIZ İ. E., SAÇMACI M., YILDIRIM İ., Noma S. A. A., Tok T. T., ATEŞ B.

ARCHIV DER PHARMAZIE, vol.351, no.10, 2018 (SCI-Expanded)

XXXII. Magnetic-propelled Fe₃O₄-chitosan carriers enhance l-asparaginase catalytic activity: a promising strategy for enzyme immobilization

ATEŞ B., Ulu A., KÖYTEPE S., Ali Noma S. A. A., KOLAT V. S., İZGİ T.

RSC ADVANCES, vol.8, no.63, pp.36063-36075, 2018 (SCI-Expanded)

XXXIII. Magnetic Fe₃O₄@MCM-41 core-shell nanoparticles functionalized with thiol silane for efficient l-asparaginase immobilization

Ulu A., Noma S. A. A., KÖYTEPE S., ATEŞ B.

ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.46, pp.1035-1045, 2018 (SCI-Expanded)

Articles Published in Other Journals

I. Synthesis of 1,4-disubstituted-1,2,3-Triazole derivatives for investigation of inhibition and molecular docking studies against Xanthine Oxidase

Mirdan M. N. M., YAĞIZ ERDEMİR G., Noma S. A. A., Taskin Tok T., ATEŞ B., ALTUNDAŞ A.

Chemical Biology Letters, vol.10, no.4, 2023 (ESCI)

II. Immobilization of xylanase enzyme on poly-(HEMA-co-GMA) cryogel

Noma S. A. A.

MANAS Journal of Engineering, vol.10, no.2, pp.129-137, 2022 (Peer-Reviewed Journal)

Supported Projects

OSMAN B., TÜMAY ÖZER E., Noma S. A. A., ZHUMABEKOVA A., KAYA K., Project Supported by Higher Education Institutions, Peroksidaz enziminin polimerik mikrokürelere immobilizasyonu ve boya renk giderimindeki etkinliğinin araştırılması, 2022 - Continues

OSMAN B., KARACA E., Noma S. A. A., TÜMAY ÖZER E., DEMİR E. S., BOZKURT GÜZEL Ç., TAMAHKAR IRMAK E., ALJAYYOUSI N. Y. A., AKGÜN O., Project Supported by Higher Education Institutions, Katyonik steroid antibiyotik yüklü üç katmanlı sentetik deri ikamesinin geliştirilmesi, 2022 - Continues

Aktaş A., Noma S. A. A., Project Supported by Higher Education Institutions, Tiyo Grubu İçeren Benzimidazol Fonksiyonlu N-heterosiklik Karben (NHC) Öncülleri ile Gümüş ve Rutenyum Metal Komplekslerinin Sentezi Karakterizasyonu ve Biyolojik Aktivitelerinin İncelenmesi, 2020 - 2022

Noma S. A. A., Ateş B., Project Supported by Higher Education Institutions, Ürikaz İmmobilizasyonu için Upconverting Nanopartiküllerin Hazırlanması Karakterizasyonu ve Yakın kızıl ötesi NIR Kullanılarak Enzim Aktivitesinin Kontrollü Manipülasyonu, 2020 - 2021

Noma S. A. A., Gök Y., Project Supported by Higher Education Institutions, İlaç Etken Maddesi Olarak N-Heterosiklik Karben (NHC-M, M:Ag, Ru, Pd) Komplekslerinin Sentezi: Antikanser, Enzim İnhibisyonu, DNA Bağlanma Özellikleri ve Moleküler Modelleme, 2018 - 2020

Noma S. A. A., Ateş B., Project Supported by Other Private Institutions, Zein Proteini İçeren UV Kirlenebilir ve Antibakteriyel Özellikte Poliüretan-Akrilat Biyoyapıştırıcıların Hazırlanması, 2018 - 2020

Noma S. A. A., Ateş B., Project Supported by Higher Education Institutions, Elektrospinning İle Siklodekstrin Temelli Konak-konuk (Host-Guest) Etkileşimi İçeren Poliüretan Yara Örtü Malzemelerinin Hazırlanması ve Uygulanması, 2017 - 2020

Erzengin M., Noma S. A. A., Project Supported by Higher Education Institutions, Bazı Hidrazon schiff Bazılarının

Sentezlenmesi Yapılarının Spektroskopik veX Işınları Kırınım Yöntemi ile Aydınlatılarak Antioksidan Aktivitelerinin Araştırılması, 2015 - 2016

Patent

Ateş B., Asiltürk Ersoy M., Parlakpınar H., Vardı N., Topel S. D., Ulu A., Dik G., Noma S. A. A., YAKIN KIZILÖTESİ IŞIK (NIR) İLE AKTİVİTESİ TETİKLENEN ENZİM TAŞIYICI SİSTEMLERİN GELİŞTİRİLMESİ, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2021/011319 , Standard Registration, 2021

Metrics

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