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Yoksis Araştırmacı ID: 52055

Eğitim Bilgileri

Doktora, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, Türkiye 1984 - 1990

Yüksek Lisans, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, Kimya, Türkiye 1981 - 1984

Lisans, Hacettepe Üniversitesi, Fen Fakültesi, Kimya, Türkiye 1977 - 1981

Yabancı Diller

İngilizce, C1 İleri

Almanca, B1 Orta

Araştırma Alanları

Kimya, Analitik Kimya, Atomik Kütle Spektrometrisi, Atomik ve Moleküler Spektroskopisi, Emisyon Spektroskopisi, Kromatografi, Kütle Spektroskopisi, Moleküler Kütle Spektrometrisi, Termal Analiz Yöntemleri, Fizikokimya, Biyopolimerler ve uygulamaları, Polimerik Adsorbentler, Polimerik Kompleksler, Polimerik Malzemeler, Polimerlerin Tıbbi Uygulamaları, Spektroskopisi, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2011 - Devam Ediyor

Akademik İdari Deneyim

Hacettepe Üniversitesi, Fen Fakültesi, 2013 - Devam Ediyor

Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2013 - Devam Ediyor

Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2010 - 2013

Yönetilen Tezler

- SALİH B., SORKUN K., Azerbaycan Gence Kazak bölgesi ballarının mikroskopik, HPLC ve GC-MS analizleri ile içeriklerinin belirlenmesi, Doktora, D.NUR(Öğrenci), 2017
- SALİH B., Aptamer bağlı yüzeylerde vegf ve interferon- γ proteinlerinin zenginleştirilmesi ve MALDI-MS ile tayinleri, Yüksek Lisans, C.HÖÇÜK(Öğrenci), 2017
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- SALİH B., Yeni nesil platin komplekslerinin kütle spektrometrik yöntemlerle incelenmesi ve antikanser aktivitelerinin in vitro olarak araştırılması, Doktora, A.ÇAL(Öğrenci), 2014
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- SALİH B., Siyalik asit içeren glikopeptitlerin hızlı ve etkin kütle spektrometrik analizleri için geçiş metal oksitleri kullanılarak seçimli olarak zenginleştirilmesi, Yüksek Lisans, B.TAVŞANLI(Öğrenci), 2014
- SALİH B., Dezenfektan amaçlı kullanılan NaDCC ve kalsiyum hipoklorit içerikli efervesan tabletlerin üretim prosesinin geliştirilmesi, Yüksek Lisans, S.GERİŞLİOĞLU(Öğrenci), 2013
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- SALİH B., Kovalent olmayan komplekslerin stokiometri ve kararlılıklarının kütle spektrometresi ile incelenmesi, Yüksek Lisans, A.ÖZGEN(Öğrenci), 2012
- SALİH B., Development of versatile and reusable target surfaces for matrix-assisted laser desorption/ionization-mass spectrometry, Doktora, Ö.ÇELİKBIÇAK(Öğrenci), 2011
- SALİH B., MALDI-MS ile etkin fosfopeptit analizleri için sol-jel yüzeylerin geliştirilmesi, Yüksek Lisans, M.ATAKAY(Öğrenci), 2010
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- SALİH B., Kovalent olmayan boya-protein etkileşimlerinin kapiler elektroforez ve MALDI-MS ile incelenmesi, Yüksek Lisans, C.TUNCER(Öğrenci), 2009
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SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **The new metal-free, zinc, magnesium, indium ball-type phthalocyanines and their hybrids with graphene oxide: Synthesis, investigation of photophysical, photochemical properties and theoretical studies**
Zeki K., Asrak S., Yabas F. N., Cevik N., YABAŞ E., Khene S., SALİH B., CANLICA M.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, cilt.461, 2025 (SCI-Expanded)
- II. **Enhancing proteasome activity by NMDAR antagonists explains their therapeutic effect in neurodegenerative and mental diseases**
ŞAHİN F., GÜNEL A., Atasoy B. T., GÜLER Ü., SALİH B., KUZU I., Taspınar M., ÇINAR Ö., Kahveci S.
SCIENTIFIC REPORTS, sa.1, 2025 (SCI-Expanded)
- III. **Identification and comparison of N-glycome profiles from common dietary protein sources**
Bolino M., Avci I., Kayili H. M., DUMAN H., SALİH B., KARAV S., Frese S. A.
FOOD CHEMISTRY-X, cilt.25, 2025 (SCI-Expanded)
- IV. **Enhancing preventive and therapeutic cancer vaccine efficacy through biotherapeutic ligand-associated extracellular vesicles**
Kahraman T., Akpınar G. G., Yildirim M., Larssen P., Bayyurt-Kocabas B., Yagci F. C., Gursel A., Horuluoglu B. H., Yazar V., AYANOĞLU İ. C., et al.
JOURNAL OF CONTROLLED RELEASE, cilt.376, ss.618-631, 2024 (SCI-Expanded)
- V. **Exploring the structural heterogeneity of IgG1s: A comprehensive analysis of glycosylated and deglycosylated forms using TIMS-TOF-MS technique**
Ozturk S., ATAKAY M., Avci I., Baltaci S., YAMAN M. E., Seckin A. I., SALİH B.
MICROCHEMICAL JOURNAL, cilt.207, 2024 (SCI-Expanded)
- VI. **Co-exposure effect of different colour of LED lights and increasing temperature on zebrafish larvae (*Danio rerio*): Immunohistochemical, metabolomics, molecular and behaviour approaches**
Pir R., SULUKAN E., ŞENOL O., ATAKAY M., BARAN A., Kankaynar M., Yildiz E., SALİH B., CEYHUN S. B.
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- VII. **Lu, Sm, and Y-based double-decker phthalocyanines with enhanced photodynamic therapy performance**
Zeki K., YABAŞ E., Erden F., SALİH B., CANLICA M.
POLYHEDRON, cilt.261, 2024 (SCI-Expanded)
- VIII. **Exploring metabolic alterations in PYCR2 deficiency: Unveiling pathways and clinical presentations of hypomyelinating leukodystrophy 10**
Gurbuz B. B., GÜLBAKAN B., ÖZGÜL R. K., YALNIZOĞLU D., Yılmaz D. Y., GÖÇMEN R., KOŞUKCU C., KANDEMİR N., Acar N. V., SALİH B., et al.
AMERICAN JOURNAL OF MEDICAL GENETICS PART A, cilt.194, sa.9, 2024 (SCI-Expanded)
- IX. **Dynamics of peptides released from cow milk fermented by kefir microorganisms during fermentation and storage periods**
Aksoy S., Kayili H. M., ATAKAY M., Kirmaci H. A., SALİH B.
INTERNATIONAL DAIRY JOURNAL, cilt.155, 2024 (SCI-Expanded)
- X. **Characterization of Monoclonal Antibody N-Glycan Conformations by Novel Hydrophilic Interaction Liquid Chromatography (HILIC) with Trapped Ion Mobility Mass Spectrometry (TIMS) and Fluorescence Detection (FLD)**
Avci I., ATAKAY M., Kayili H. M., SALİH B.
ANALYTICAL LETTERS, 2024 (SCI-Expanded)
- XI. **Novel electrospun-based extractive probes for rapid determination of clinically important compounds in human plasma**
Temel E. R., Eroglu A. E., SALİH B., BOYACI E.
ANALYTICA CHIMICA ACTA, cilt.1312, 2024 (SCI-Expanded)
- XII. **Distinguishing Turkish pine honey from multi-floral honey through MALDI-MS-based *N*-**

glycomics and machine learning

Masri S., Aksoy S., DUMAN H., KARAV S., Kayili H. M., SALİH B.

JOURNAL OF FOOD MEASUREMENT AND CHARACTERIZATION, cilt.18, sa.7, ss.5673-5682, 2024 (SCI-Expanded)

- XIII. **Development and functionalization of electrospun fiber coated thin film microextraction devices for rapid mass spectrometric determination of biologically important polar molecules**
ÖZTÜRK M., SALİH B., Eroğlu A. E., BOYACI E.
Journal of Pharmaceutical and Biomedical Analysis, cilt.243, 2024 (SCI-Expanded)
- XIV. **In vitro study on the competitive reactions between arsenite and selenite with glutathione**
Ozkan C. H., ATAKAY M., SALİH B., ERTAŞ G.
JOURNAL OF MASS SPECTROMETRY, cilt.59, sa.5, 2024 (SCI-Expanded)
- XV. **Manipulating macrophage polarization with nanoparticles to control metastatic behavior in heterotypic breast cancer micro-tissues via exosome signaling**
Sungu M., Isik M., GÜLER Ü., EYLEM C. C., ESKİZENGİN H., NEMUTLU E., SALİH B., DERKUŞ B.
Nanoscale, cilt.16, sa.1, ss.394-410, 2023 (SCI-Expanded)
- XVI. **Composition characterization of various viperidae snake venoms using MS-based proteomics N-glycoproteomics and N-glycomics**
Abu Aisheh M., Kayili H. M., Numanoglu Cevik Y., Kanat M. A., SALİH B.
Toxicicon, cilt.235, 2023 (SCI-Expanded)
- XVII. **Ocular pharmacokinetics and toxicity of nanoparticulate acetazolamide: In vivo distribution and safety of PHBV-ACZ nanoparticle**
ERDAL E., BAKICI C., Arslan A., BATUR B., YAMAN M. E., Alçıgır M. E., AKYOL M., EKİM O., SALİH B., UĞURLU N.
International Journal of Pharmaceutics, cilt.645, 2023 (SCI-Expanded)
- XVIII. **ESI-IM-MS characterization of cyclodextrin complexes and their chemically cross-linked alpha (α -), beta (β -) and gamma (γ -) cyclodextrin particles as promising drug delivery materials with improved bioavailability**
YILMAZ S., Ozturk S., SALİH B., Ayyala R. S., ŞAHİNER N.
Colloids and Surfaces B: Biointerfaces, cilt.230, 2023 (SCI-Expanded)
- XIX. **Utilizing linkage-specific ethyl-esterification approach to perform in-depth analysis of sialylated N-glycans present on milk whey glycoproteins**
Kayili H. M., Barlas N., Demirhan D. B., YAMAN M. E., ATAKAY M., GÜLER Ü., KARA M., TEKGÜNDÜZ K. Ş., SALİH B.
Food Chemistry, cilt.421, 2023 (SCI-Expanded)
- XX. **Tetrahydroxyphthalocyanine as a potential nonlinear optical material**
Işık Büyükeksi S., ORMAN E. B., KARATAY A., Selçuki N. A., ÖZKAYA A. R., ELMALI A., SALİH B., Şengül A.
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- XXI. **Prediction of gastric cancer by machine learning integrated with mass spectrometry-based N-glycomics**
Demirhan D. B., Yılmaz H., Erol H., Kayili H. M., SALİH B.
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- XXII. **Isolation and Characterization of Rare Flavone Tetraglycosides from the Seeds of the Bioactive Plant: Peganum harmala L.**
TAŞTEKİN N. H., ATAKAY M., SALİH B., Basaran A. A.
ANALYTICAL LETTERS, cilt.56, sa.9, ss.1502-1513, 2023 (SCI-Expanded)
- XXIII. **An integrated stage-tip-based glycomic and glycoproteomic approach for simple and rapid N-glycosylation profiling of glycoproteins**
Kayili H. M., Ragoubi Z. M. E., SALİH B.
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- XXIV. **Site-specific N-glycosylation analysis of human thyroid thyroglobulin by mass spectrometry-based Glyco-analytical strategies**
Kayili M., SALİH B.
JOURNAL OF PROTEOMICS, cilt.267, 2022 (SCI-Expanded)
- XXV. **Superporous poly(γ -Cyclodextrin) cryogels as promising materials for simultaneous delivery of both**

hydrophilic and hydrophobic drugs

Ari B., Demirci S., Ayyala R. S., SALİH B., ŞAHİNER N.

EUROPEAN POLYMER JOURNAL, cilt.176, 2022 (SCI-Expanded)

- XXVI. **Immobilization of a Bifidobacterial Endo-ss-N-Acetylglucosaminidase to Generate Bioactive Compounds for Food Industry**
Pekdemir B., Duman H., Arslan A., KAPLAN M., Karyelioglu M., ozer T., Kayili H. M., SALİH B., Henrick B. M., Duar R. M., et al.
FRONTIERS IN BIOENGINEERING AND BIOTECHNOLOGY, cilt.10, 2022 (SCI-Expanded)
- XXVII. **Biofortified Whey/Deglycosylated Whey and Chickpea Protein Matrices: Functional Enrichment by Black Mulberry Polyphenols**
Ozleyen A., Cinar Z. O., KARAV S., Bayraktar A., Arslan A., Kayili H. M., SALİH B., TÜMER T.
PLANT FOODS FOR HUMAN NUTRITION, cilt.77, sa.1, ss.51-61, 2022 (SCI-Expanded)
- XXVIII. **Novel ABA-type Block Copolymers from Telechelic PEG-initiated Hydrogen-transfer Polymerization**
ÇATIKER E., ATAKAY M., SALİH B.
SOFT MATERIALS, cilt.20, sa.2, ss.232-239, 2022 (SCI-Expanded)
- XXIX. **Comparison of denaturing agent effects in enzymatic N-glycan release for human plasma N-glycan analysis**
Kayili H. M., Sakhta R., SALİH B.
TURKISH JOURNAL OF CHEMISTRY, cilt.46, sa.5, ss.1524-1533, 2022 (SCI-Expanded)
- XXX. **Chemometrics assisted untargeted metabolomic analysis to explore metabolic alterations in chronic urticaria via LC/Q-TOF/MS/MS**
KOÇAK Ö. F., ATAKAY M., YAMAN M. E., ŞENOL O., ERKAYMAN M. H., SOLAK ESEN B., SALİH B.
SCANDINAVIAN JOURNAL OF CLINICAL & LABORATORY INVESTIGATION, cilt.82, ss.533-540, 2022 (SCI-Expanded)
- XXXI. **Novel (-)-carvone derivatives as potential anticonvulsant and analgesic agents**
Nesterkina M., Barbalat D., Konovalova I., Shishkina S., ATAKAY M., SALİH B., Kravchenko I.
NATURAL PRODUCT RESEARCH, cilt.35, sa.23, ss.4978-4987, 2021 (SCI-Expanded)
- XXXII. **Circulating extracellular vesicles of patients with steroid-sensitive nephrotic syndrome have higher RAC1 and induce recapitulation of nephrotic syndrome phenotype in podocytes**
Eroglu F. K., Yazar V., GÜLER Ü., Yildirim M., Yildirim T., Gungor T., Celikkaya E., Karakaya D., Turay N., Dede E. C., et al.
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- XXXIII. **N-glycan Profiling of Glycoproteins by Hydrophilic Interaction Liquid Chromatography with Fluorescence and Mass Spectrometric Detection**
Kayili H. M., SALİH B.
JOVE-JOURNAL OF VISUALIZED EXPERIMENTS, cilt.2021, sa.175, 2021 (SCI-Expanded)
- XXXIV. **Preparation, characterization and electrical behaviors of greenish single-chain polymeric molecule-via intramolecular ball type cobalt phthalocyanines/ graphite oxide composites**
DEMİRELLİ K., Abubakar A. M., TUNCER H., SALİH B.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1235, 2021 (SCI-Expanded)
- XXXV. **Recombinant Production of Bifidobacterial Endoglycosidases for N-glycan Release**
Sucu B., Bayraktar A., Duman H., Arslan A., KAPLAN M., Karyelioglu M., Ntelitze E., Tastekin T., Yetkin S., Erturk M., et al.
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- XXXVI. **Differential N-glycosylation profiling of formalin-fixed paraffin-embedded (FFPE) invasive ductal carcinoma tissues using MALDI-TOF-MS**
YAMAN M. E., Kayili H. M., ALBAYRAK M., KADIOĞLU Y., SALİH B.
MOLECULAR OMICS, cilt.17, sa.3, ss.394-404, 2021 (SCI-Expanded)
- XXXVII. **Characterization and preparation of green colored intramolecular novel ball type cobalt phthalocyanine complexes with single-chain polymer structure**
Abubakar A. M., DEMİRELLİ K., TUNCER H., SALİH B.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1227, 2021 (SCI-Expanded)

- XXXVIII. **Characterization of serum N-glycome alterations in seasonal allergic rhinitis using MALDI-TOF-MS: A pilot study**
YAMAN M. E., Avci I., Atila N. E., ATILA A., Kayili H. M., SALIH B.
JOURNAL OF CARBOHYDRATE CHEMISTRY, cilt.40, ss.269-282, 2021 (SCI-Expanded)
- XXXIX. **Comparative Transcriptome, Metabolome, and Ionome Analysis of Two Contrasting Common Bean Genotypes in Saline Conditions**
Niron H., Barlas N., SALIH B., TÜRET M.
FRONTIERS IN PLANT SCIENCE, 2020 (SCI-Expanded)
- XL. **Human Gut Commensal Membrane Vesicles Modulate Inflammation by Generating M2-like Macrophages and Myeloid-Derived Suppressor Cells**
Bulut E., Kocabas B. B., Yazar V., Aykut G., Güler Ü., Salih B., Yilmaz N. S., Ayanoğlu İ. C., Polat M. M., Akçalı K. C., et al.
JOURNAL OF IMMUNOLOGY, cilt.205, sa.10, ss.2707-2718, 2020 (SCI-Expanded)
- XLI. **A novel AB(3)-type trimeric zinc(II)-phthalocyanine as an electrochromic and optical limiting material**
Buyukeksi S. I., KARATAY A., ORMAN E. B., AÇAR SELÇUKİ N., ÖZKAYA A. R., SALIH B., ELMALI A., ŞENGÜL A.
DALTON TRANSACTIONS, cilt.49, sa.40, ss.14068-14080, 2020 (SCI-Expanded)
- XLII. **Synthesis and characterization of the ABA-type poly(ester-ether-ester) block copolymers**
Catiker E., Ozturk T., ATAKAY M., SALIH B.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, cilt.57, sa.8, ss.600-609, 2020 (SCI-Expanded)
- XLIII. **Following hybridization on sensor/array platforms by using SPR, elipsometer and MALDI-MS**
ÇELİKBIÇAK Ö., HAMALOĞLU K. Ö., SALIH B., Piskin E.
NUCLEOSIDES NUCLEOTIDES & NUCLEIC ACIDS, cilt.39, sa.7, ss.1057-1072, 2020 (SCI-Expanded)
- XLIV. **Cytotoxic naphthoquinones from *Arnebia densiflora* (Nordm.) Ledeb and determining new apoptosis inducers**
Baran M. Y., GÜVENALP Z., SARAÇOĞLU İ., KAZAZ C., SALIH B., DEMİREZER L. Ö., Kuruuzum-Uz A.
NATURAL PRODUCT RESEARCH, cilt.34, sa.12, ss.1669-1677, 2020 (SCI-Expanded)
- XLV. **Synthesis, characterization, DFT study, conductivity and effects of humidity on CO₂ sensing properties of the novel tetrakis- [2-(dibenzylamino)ethoxy] substituted metallophthalocyanines**
Senoglu S., ÖZER M., DUMLUDAĞ F., AÇAR SELÇUKİ N., SALIH B., Bekaroglu O.
SENSORS AND ACTUATORS B-CHEMICAL, cilt.310, 2020 (SCI-Expanded)
- XLVI. **Synthesis, characterization, OFET, and DFT study of the novel ball-type metallophthalocyanines bridged with four diaminopyrimidine-dithiol**
Molla F., Yazici A., Salcuki N. A., ALTINDAL A., SALIH B., Bekaroglu O.
JOURNAL OF PORPHYRINS AND PHTHALOCYANINES, cilt.24, ss.662-674, 2020 (SCI-Expanded)
- XLVII. **Catalytic Activity of Immobilized Chymotrypsin on Hybrid Silica-Magnetic Biocompatible Particles and Its Application in Peptide Synthesis**
BAYRAMOĞLU G., SALIH B., ARICA M. Y.
APPLIED BIOCHEMISTRY AND BIOTECHNOLOGY, cilt.190, sa.4, ss.1224-1241, 2020 (SCI-Expanded)
- XLVIII. **Conformational Characterization of Polyelectrolyte Oligomers and Their Noncovalent Complexes Using Ion Mobility-Mass Spectrometry**
ATAKAY M., Aksakal F., BOZKAYA U., SALIH B., Wesdemiotis C.
JOURNAL OF THE AMERICAN SOCIETY FOR MASS SPECTROMETRY, cilt.31, sa.2, ss.441-449, 2020 (SCI-Expanded)
- XLIX. **Hydrophilic spacer-arm containing magnetic nanoparticles for immobilization of proteinase K: Employment for speciation of proteins for mass spectrometry-based analysis**
BAYRAMOĞLU G., KAYILI H. M., Oztekin M., SALIH B., ARICA M. Y.
TALANTA, cilt.206, 2020 (SCI-Expanded)
- L. **Site-Specific characterization of peptide-polymer conjugates in various stoichiometries by MALDI-Tandem mass spectrometry**
Ulku O., ATAKAY M., Kohneshahri M. Y., UZUN C., SALIH B.
MICROCHEMICAL JOURNAL, cilt.152, 2020 (SCI-Expanded)

- LI. **Performances of protein array platforms prepared by soft lithography and self-assembling monolayers-approach by using SPR, ellipsometry and MALDI-MS**
HAMALOĞLU K. Ö., ÇELİKBIÇAK Ö., SALİH B., Piskin E.
JOURNAL OF MOLECULAR STRUCTURE, cilt.1198, 2019 (SCI-Expanded)
- LII. **N-glycan profiling of papillary thyroid carcinoma tissues by MALDI-TOF-MS**
KOÇAK Ö. F., KAYILI H. M., ALBAYRAK M., YAMAN M. E., KADIOĞLU Y., SALİH B.
ANALYTICAL BIOCHEMISTRY, cilt.584, 2019 (SCI-Expanded)
- LIII. **Poly(amidoamine) dendrimer-coated magnetic nanoparticles for the fast purification and selective enrichment of glycopeptides and glycans**
KAYILI H. M., Erturk A. S., ELMACI G., SALİH B.
JOURNAL OF SEPARATION SCIENCE, cilt.42, sa.20, ss.3209-3216, 2019 (SCI-Expanded)
- LIV. **A New titania glyco-purification tip for the fast enrichment and efficient analysis of glycopeptides and glycans by MALDI-TOF-MS**
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- LV. **Spectroscopic, electrochemical and electrocolorimetric properties of novel 2-(2'-pyridyl)-1H-benzimidazole appended bay-substituted perylene diimide triads**
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Metrikler

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