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Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya, Turkey 1999 - 2003

Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, Kimya, Turkey 1997 - 1999

Undergraduate, Hacettepe University, Fen Fakültesi, Kimya Bölümü, Turkey 1992 - 1997

Foreign Languages

English, C1 Advanced

Research Areas

Chemistry, Biochemistry, Protein Chemistry, Natural Sciences

Academic Titles / Tasks

Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2013 - Continues

Associate Professor, Hacettepe University, Fen Fakültesi, Kimya Bölümü, 2008 - 2013

Academic and Administrative Experience

Hacettepe Üniversitesi, Fen Fakültesi, 2016 - Continues

Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2008 - Continues

Hacettepe Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2008 - 2011

Advising Theses

YAVUZ ALAGÖZ H., MOLEKÜLER BASKILAMA YÖNTEMİ İLE CEC (KAPILAR ELEKTROKROMATOĞRAFİ) SİSTEMİNDE HİDROFOBİK AMİNO ASİT ENANTİYOMERLERİNİN AYRILMASI, Doctorate, K.ŞARKAYA(Student), 2018

YAVUZ ALAGÖZ H., Prednisolon tayini için yüzey tanıma bölgelerine sahip moleküler baskılanmış sensörlerin

geliştirilmesi, Doctorate, E.SARİ(Student), 2017

YAVUZ ALAGÖZ H., Detection of DNA hybridization and dehybridization with surface enhanced raman spectroscopy (SERS) by using gold nanovoids electrodes, Postgraduate, N.ÇINAR(Student), 2017

YAVUZ ALAGÖZ H., Protein C tayinine yönelik yüzey plazmon rezonans sensörlerin hazırlanması, Postgraduate, S.KOYUN(Student), 2017

YAVUZ ALAGÖZ H., MOLECULAR IMPRINTED CRYOGELS FOR CONTROLLED DELIVERY OF ANTI-CANCER DRUGS, Doctorate, M.BAKHSHPOUR(Student), 2016

YAVUZ ALAGÖZ H., Invasiv meme kanseri hücresi tayini için kuvars kristal mikroterazi sensörlerin hazırlanması, Postgraduate, S.ATAY(Student), 2014

GÜMÜŞDERELİOĞLU M., YAVUZ ALAGÖZ H., PHEMA-Jelatin kriyojel kemik doku iskelelerinin sentezi, karakterizasyonu ve biyolojik aktivite kazandırılması, Postgraduate, D.PERVER(Student), 2014

YAVUZ ALAGÖZ H., Bilirubin tayini için moleküler baskılanmış sensörlerin hazırlanması, Postgraduate, Ç.ÇİÇEK(Student), 2014

YAVUZ ALAGÖZ H., L-FENİLALANİN'İN TANINMASINA YÖNELİK AFİNİTE KARTUŞLARININ HAZIRLANMASI, Postgraduate, S.AKGÖNÜLLÜ(Student), 2013

YAVUZ ALAGÖZ H., Kuartz kristal mikroterazi (QCM) temelli histidin sensörler, Postgraduate, M.SÖNMEZLER(Student), 2011

YAVUZ ALAGÖZ H., Yüzey plazmon rezonans temelli antibadi sensörlerin hazırlanması, Postgraduate, A.TÜRKOĞLU(Student), 2010

YAVUZ ALAGÖZ H., Kolesterol baskılanmış eş-boyutlu Poli(GMA-MAT) mikroküre-poli(HEMA) kriyojel kompozit sistemlerinin hazırlanması, Postgraduate, K.ÇAKTÜ(Student), 2009

YAVUZ ALAGÖZ H., İnsan plazmasından demir(III) iyonları uzaklaştırılması için demir(III) baskılanmış poli(GMA-MAC) mikroküre - kriyojel kompozit sisteminin hazırlanması, Postgraduate, B.ERGÜN(Student), 2009

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Cibacron Blue F3GA ligand dye-based magnetic silica particles for the albumin purification**
Tatar N., AKGÖNÜLLÜ S., Yavuz H., DENİZLİ A.
Turkish Journal of Chemistry, vol.47, no.5, pp.1125-1137, 2023 (SCI-Expanded)
- II. **Protein chromatography by molecular imprinted cryogels**
BERELİ N., Yavuz H., DENİZLİ A.
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, vol.43, pp.657-670, 2020 (SCI-Expanded)
- III. **Electrochromatographic separation of hydrophobic amino acid enantiomers by molecularly imprinted capillary columns**
Sarkaya K., Asir S., GÖKTÜRK BAŞAL I., YILMAZ F., Yavuz H., DENİZLİ A.
PROCESS BIOCHEMISTRY, vol.92, pp.69-77, 2020 (SCI-Expanded)
- IV. **HbA1c detection via high-sensitive boronate based surface plasmon resonance sensor**
Calisir M., Bakhshpour M., Yavuz H., DENİZLİ A.
Sensors and Actuators, B: Chemical, vol.306, 2020 (SCI-Expanded)
- V. **Surface-imprinted silica particles for Concanavalin A purification from Canavalia ensiformis**
Razym G., Bakhshpour M., Yavuz H., Kip C., Tuncel A., DENİZLİ A.
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.1136, 2020 (SCI-Expanded)
- VI. **Quartz crystal microbalance biosensor for label-free MDA MB 231 cancer cell detection via notch-4 receptor**
Bakhshpour M., Piskin A. K., Yavuz H., DENİZLİ A.
TALANTA, vol.204, pp.840-845, 2019 (SCI-Expanded)
- VII. **Evaluation of hydrochar efficiency for simultaneous removal of diclofenac and ibuprofen from aqueous system using surface response methodology**
Qureshi T., Memon N., Memon S. Q., Yavuz H., Lachgar A., DENİZLİ A.

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.26, no.10, pp.9796-9804, 2019 (SCI-Expanded)

- VIII. **Introduction to Nanoscience, Nanomaterials, Nanocomposite, Nanopolymer, and Engineering Smart Materials**
SAYLAN Y., YAVUZ H., ÜLGER C., DENİZLİ A., SAĞLAM N.
MICROBIAL NANOBIONICS: VOL 2, BASIC RESEARCH AND APPLICATIONS, pp.1-12, 2019 (SCI-Expanded)
- IX. **Quartz crystal microbalance based histidine sensor**
Sonmezler M., ÖZGÜR E., YAVUZ H., DENİZLİ A.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.47, no.1, pp.221-227, 2019 (SCI-Expanded)
- X. **Controlled release of mitomycin C from PHEMAH-Cu(II) cryogel membranes**
Bakhshpour M., YAVUZ H., DENİZLİ A.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.46, 2018 (SCI-Expanded)
- XI. **Molecularly imprinted cryogel membranes for mitomycin C delivery**
Oncel P., ÇETİN K., TOPÇU A. A., YAVUZ H., DENİZLİ A.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.28, no.6, pp.519-531, 2017 (SCI-Expanded)
- XII. **Molecularly Imprinted Quartz Crystal Microbalance Sensor (QCM) for Bilirubin Detection**
ÇİÇEK Ç., YILMAZ F., ÖZGÜR E., YAVUZ H., DENİZLİ A.
CHEMOSENSORS, vol.4, no.4, 2016 (SCI-Expanded)
- XIII. **Purification of transferrin by magnetic immunoaffinity beads**
Sacligil D., ŞENEL S., YAVUZ H., DENİZLİ A.
JOURNAL OF SEPARATION SCIENCE, vol.38, no.15, pp.2729-2736, 2015 (SCI-Expanded)
- XIV. **Cryogels for Affinity Chromatography**
BERELİ N., TÜRKMEN D., YAVUZ H., GALAEV I. Y., DENİZLİ A.
ADVANCED SEPARATIONS BY SPECIALIZED SORBENTS, vol.108, pp.39-67, 2015 (SCI-Expanded)
- XV. **Molecularly Imprinted Cryogels for Human Serum Albumin Depletion**
ANDAC M., GALAEV I. Y., YAVUZ H., DENİZLİ A.
AFFINITY CHROMATOGRAPHY: METHODS AND PROTOCOLS, 3RD EDITION, vol.1286, pp.233-237, 2015 (SCI-Expanded)
- XVI. **Cholesterol removal from various samples by cholesterol-imprinted monosize microsphere-embedded cryogels**
CAKTU K., BAYDEMİR G., ERGUN B., YAVUZ H.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.42, no.6, pp.365-375, 2014 (SCI-Expanded)
- XVII. **The fabrication of nanosensor-based surface plasmon resonance for IgG detection**
Turkoglu E. A., YAVUZ H., UZUN L., AKGÖL S., DENİZLİ A.
ARTIFICIAL CELLS NANOMEDICINE AND BIOTECHNOLOGY, vol.41, no.3, pp.213-221, 2013 (SCI-Expanded)
- XVIII. **Molecularly imprinted composite cryogel for albumin depletion from human serum**
ANDAC M., BAYDEMİR G., YAVUZ H., DENİZLİ A.
JOURNAL OF MOLECULAR RECOGNITION, vol.25, no.11, pp.555-563, 2012 (SCI-Expanded)
- XIX. **Purification of urease from jack bean (Canavalia ensiformis) with copper (II) chelated poly(hydroxyethyl methacrylate-N-methacryloyl-(L)-histidine methyl ester) cryogels**
Tekiner P., Percin I., Ergun B., Yavuz H., Aksoz E.
JOURNAL OF MOLECULAR RECOGNITION, vol.25, no.11, pp.549-554, 2012 (SCI-Expanded)
- XX. **Concanavalin a immobilized magnetic poly(glycidyl methacrylate) beads for antibody purification**
AKKAYA B., YAVUZ H., CANDAN F., DENİZLİ A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.125, no.3, pp.1867-1874, 2012 (SCI-Expanded)
- XXI. **Ion imprinted beads embedded cryogels for in vitro removal of iron from beta-thalassemic human plasma**
ERGUN B., BAYDEMİR G., ANDAC M., YAVUZ H., DENİZLİ A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.125, no.1, pp.254-262, 2012 (SCI-Expanded)
- XXII. **Mannose-specific lectin isolation from Canavalia ensiformis seeds by PHEMA-based cryogel**
Percin I., YAVUZ H., AKSOZ E., DENİZLİ A.
BIOTECHNOLOGY PROGRESS, vol.28, no.3, pp.756-761, 2012 (SCI-Expanded)

- XXIII. **Antibody Purification from Human Plasma by Metal-Chelated Affinity Membranes**
Yavuz H., BERELİ N., Armutcu C., Yilmaz F., DENİZLİ A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.123, no.6, pp.3476-3484, 2012 (SCI-Expanded)
- XXIV. **Selective removal of 17 beta-estradiol with particle-embedded cryogel systems**
KOC I., BAYDEMİR G., BAYRAM E., Yavuz H., DENİZLİ A.
JOURNAL OF HAZARDOUS MATERIALS, vol.192, no.3, pp.1819-1826, 2011 (SCI-Expanded)
- XXV. **Oriented immobilized anti-LDL antibody carrying poly(hydroxyethyl methacrylate) cryogel for cholesterol removal from human plasma**
BERELİ N., Sener G., Yavuz H., DENİZLİ A.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.31, no.5, pp.1078-1083, 2011 (SCI-Expanded)
- XXVI. **Poly(hydroxyethyl methacrylate) based affinity cryogel for plasmid DNA purification**
Percin I., Saglar E., Yavuz H., Aksoz E., DENİZLİ A.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.48, no.4, pp.577-582, 2011 (SCI-Expanded)
- XXVII. **Performance of Protein-A-Based Affinity Membranes for Antibody Purification**
UZUN L., TÜRKMEN D., KARAKOC V., Yavuz H., DENİZLİ A.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.22, no.17, pp.2325-2341, 2011 (SCI-Expanded)
- XXVIII. **Poly(hydroxyethyl methacrylate) based affinity membranes for in vitro removal of anti-dsDNA antibodies from SLE plasma**
UZUN L., Yavuz H., Osman B., CELİK H., DENİZLİ A.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.47, no.1, pp.44-49, 2010 (SCI-Expanded)
- XXIX. **Preparation and Characterization of Metal-Chelated Poly(HEMA-MAH) Monolithic Cryogels and Their Use for DNA Adsorption**
ODABAŞI M., Baydemir G., Karatas M., Derazshamshir A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.116, no.3, pp.1306-1312, 2010 (SCI-Expanded)
- XXX. **Poly(glycidyl methacrylate) beads embedded cryogels for pseudo-specific affinity depletion of albumin and immunoglobulin G**
BERELİ N., SENER G., ALTINTAS E. B., Yavuz H., DENİZLİ A.
MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS, vol.30, no.2, pp.323-329, 2010 (SCI-Expanded)
- XXXI. **Supermacroporous hydrophobic affinity cryogels for protein chromatography**
YILMAZ F., BERELİ N., Yavuz H., DENİZLİ A.
BIOCHEMICAL ENGINEERING JOURNAL, vol.43, no.3, pp.272-279, 2009 (SCI-Expanded)
- XXXII. **N-Acetyl-D-galactosamine-Specific Lectin Isolation from Soyflour with Poly(HPMA-GMA) Beads**
Percin I., Yavuz H., Aksoz E., DENİZLİ A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.111, no.1, pp.148-154, 2009 (SCI-Expanded)
- XXXIII. **Concanavalin A Binding on PHEMA Beads and Their Interactions with Myeloma Cells**
YAVUZ H., Ozden K., KIN E. P., DENİZLİ A.
JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY, vol.46, no.2, pp.163-169, 2009 (SCI-Expanded)
- XXXIV. **Synthesis of cholesterol imprinted polymeric particles**
Yavuz H., KARAKOC V., Turkmen D., SAY R., Denizli A.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.41, no.1, pp.8-15, 2007 (SCI-Expanded)
- XXXV. **Immunoglobulin G depletion from human serum with metal-chelated beads under magnetic field**
KARATAS M., AKGOL S., Yavuz H., SAY R., Denizli A.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.40, no.3, pp.254-260, 2007 (SCI-Expanded)
- XXXVI. **Biosorption of mercury on magnetically modified yeast cells**
Yavuz H., Denizli A., GUNGUNES H., SAFARIKOVA M., SAFARIK I.
SEPARATION AND PURIFICATION TECHNOLOGY, vol.52, no.2, pp.253-260, 2006 (SCI-Expanded)
- XXXVII. **Affinity separation of immunoglobulin G subclasses on dye attached poly (hydroxypropyl methacrylate) beads**

- Yavuz H., AKGOL S., SAY R., Denizli A.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.39, pp.303-309, 2006 (SCI-Expanded)
- XXXVIII. **Synthesis and characterization of pseudo-affinity ligand for penicillin acylase purification**
KECILI R., SAY R., YAVUZ H.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.39, pp.250-255, 2006 (SCI-Expanded)
- XXXIX. **Binding of antibodies to concanavalin A-modified monolithic cryogel**
BABAC C., YAVUZ H., GALAEV I. Y., PISKIN E., DENIZLI A.
REACTIVE & FUNCTIONAL POLYMERS, vol.66, no.11, pp.1263-1271, 2006 (SCI-Expanded)
- XL. **Molecular recognition based iron removal from human plasma with imprinted membranes**
YAVUZ H., ANDAC M., UZUN L., SAY R., DENIZLI A.
INTERNATIONAL JOURNAL OF ARTIFICIAL ORGANS, vol.29, no.9, pp.900-911, 2006 (SCI-Expanded)
- XLI. **Antibody purification using porous metal-chelated monolithic columns**
BERELI N., UZUN L., YAVUZ H., ELKAK A., DENIZLI A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.101, no.1, pp.395-404, 2006 (SCI-Expanded)
- XLII. **Synthesis of tentacle type magnetic beads as immobilized metal chelate affinity support for cytochrome c adsorption**
TURKMEN D., YAVUZ H., DENIZLI A.
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.38, no.2, pp.126-133, 2006 (SCI-Expanded)
- XLIII. **Methacryloylamidoglutamic acid having porous magnetic beads as a stationary phase in metal chelate affinity chromatography**
ALTINTAS E., YAVUZ H., SAY R., DENIZLI A.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.17, pp.213-226, 2006 (SCI-Expanded)
- XLIV. **Antibody purification by concanavalin a affinity chromatography**
BERELI N., AKGOL S., YAVUZ H., DENIZLI A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.97, no.3, pp.1202-1208, 2005 (SCI-Expanded)
- XLV. **Iron removal from human plasma based on molecular recognition using imprinted beads**
YAVUZ H., SAY R., DENIZLI A.
MATERIALS SCIENCE & ENGINEERING C-BIOMIMETIC AND SUPRAMOLECULAR SYSTEMS, vol.25, no.4, pp.521-528, 2005 (SCI-Expanded)
- XLVI. **Immunoadsorption of cholesterol on protein A oriented beads**
YAVUZ H., DENIZLI A.
MACROMOLECULAR BIOSCIENCE, vol.5, no.1, pp.39-48, 2005 (SCI-Expanded)
- XLVII. **Immobilized metal affinity beads for ferritin adsorption**
YAVUZ H., ODABASI M., AKGOL S., DENIZLI A.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.16, no.5, pp.673-684, 2005 (SCI-Expanded)
- XLVIII. **Immobilization of alpha-amylase on Cu²⁺ chelated poly(ethylene glycol dimethacrylate-n-vinyl imidazole) matrix via adsorption**
KARA A., OSMAN B., YAVUZ H., BESIRLI N., DENIZLI A.
REACTIVE & FUNCTIONAL POLYMERS, vol.62, no.1, pp.61-68, 2005 (SCI-Expanded)
- XLIX. **Poly(ethylene dimethacrylate-glycidyl methacrylate) monolith as a stationary phase in dye-affinity chromatography**
UZUN L., YAVUZ H., SAY R., ERSOZ A., DENIZLI A.
INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol.43, no.20, pp.6507-6513, 2004 (SCI-Expanded)
- L. **Concanavalin a immobilized affinity adsorbents for reversible use in yeast invertase adsorption**
YAVUZ H., AKGOL S., ARICA Y., DENIZLI A.
MACROMOLECULAR BIOSCIENCE, vol.4, no.7, pp.674-679, 2004 (SCI-Expanded)
- LI. **A novel magnetic adsorbent for immunoglobulin-G purification in a magnetically stabilized fluidized bed**
OZKARA S., AKGOL S., CANAK Y., DENIZLI A.
BIOTECHNOLOGY PROGRESS, vol.20, no.4, pp.1169-1175, 2004 (SCI-Expanded)
- LII. **Affinity adsorption of recombinant human interferon-alpha on a porous dye-affinity adsorbent**

Karakoc V., Yavuz H., Denizli A.

COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS, vol.240, pp.93-99, 2004 (SCI-Expanded)

- LIII. **Biosorption of Hg²⁺, Cd²⁺, and Zn²⁺ by Ca-alginate and immobilized wood-rotting fungus *Funalia trogii***
Arica M., Bayramoglu G., Yilmaz M., Bektas S., Genc O.
JOURNAL OF HAZARDOUS MATERIALS, vol.109, pp.191-199, 2004 (SCI-Expanded)
- LIV. **Novel metal-chelate affinity sorbents for reversible use in catalase adsorption**
Akgol S., Denizli A.
JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, vol.28, no.1, pp.7-14, 2004 (SCI-Expanded)
- LV. **Dye affinity hollow fibers for albumin purification**
Yavuz H., DENIZLI A.
MACROMOLECULAR BIOSCIENCE, vol.4, no.2, pp.84-91, 2004 (SCI-Expanded)
- LVI. **Comparison of the heavy metal biosorption capacity of active, heat-inactivated and NaOH-treated *phanerochaete chrysosporium* biosorbents**
Guridik E., Arica M., Bektas S., Genc O.
ENGINEERING IN LIFE SCIENCES, vol.4, no.1, pp.86-89, 2004 (SCI-Expanded)
- LVII. **A new metal chelate affinity adsorbent for Cytochrome c**
EMIR S., SAY R., Yavuz H., DENIZLI A.
BIOTECHNOLOGY PROGRESS, vol.20, no.1, pp.223-228, 2004 (SCI-Expanded)
- LVIII. **Dye-ligand immobilized IPNs membrane for removal heavy metal ions**
Bayramoglu G., Yalcin E., Genc O., Arica M.
MACROMOLECULAR SYMPOSIA, vol.203, pp.219-224, 2003 (SCI-Expanded)
- LIX. **Bilirubin removal from human plasma with albumin immobilised magnetic poly (2-hydroxyethyl methacrylate) beads**
RAD A., Yavuz H., KOCAKULAK M., DENIZLI A.
MACROMOLECULAR BIOSCIENCE, vol.3, no.9, pp.471-476, 2003 (SCI-Expanded)
- LX. **Cibacron Blue F3GA incorporated poly(methylmethacrylate) beads for albumin adsorption in batch system**
Yavuz H., DURU E., GENÇ O., DENIZLI A.
COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS, vol.223, pp.185-193, 2003 (SCI-Expanded)
- LXI. **Purification of immunoglobulin G from human plasma by metal-chelate affinity chromatography**
OZKARA S., Yavuz H., DENIZLI A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.89, no.6, pp.1567-1572, 2003 (SCI-Expanded)
- LXII. **Biosorption of heavy metal ions on immobilized white-rot fungus *Trametes versicolor***
Bayramoglu G., Bektas S., Arica M.
JOURNAL OF HAZARDOUS MATERIALS, vol.101, no.3, pp.285-300, 2003 (SCI-Expanded)
- LXIII. **DNA adsorption on a poly-L-lysine-immobilized poly(2-hydroxyethyl methacrylate) membrane**
Senel S., Bayramoglu G., Arica M.
POLYMER INTERNATIONAL, vol.52, no.7, pp.1169-1174, 2003 (SCI-Expanded)
- LXIV. **Covalent immobilisation of invertase onto a reactive film composed of 2-hydroxyethyl methacrylate and glycidyl methacrylate: properties and application in a continuous flow system**
Bayramoglu G., Akgol S., Bulut A., Denizli A., Arica M.
BIOCHEMICAL ENGINEERING JOURNAL, vol.14, no.2, pp.117-126, 2003 (SCI-Expanded)
- LXV. **Polyhydroxyethylmethacrylate/polyhydroxybutyrate composite membranes for fluoride release**
Yildirmaz G., Akgol S., Arica M., Sonmez H., Denizli A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.87, no.6, pp.976-981, 2003 (SCI-Expanded)
- LXVI. **Procion Green H-4G immobilized poly(hydroxyethylmethacrylate/chitosan) composite membranes for heavy metal removal**
Genc O., Soysal L., Bayramoglu G., Arica M., Bektas S.

- JOURNAL OF HAZARDOUS MATERIALS, vol.97, pp.111-125, 2003 (SCI-Expanded)
- LXVII. **Uranium recovery by immobilized and dried powdered biomass: characterization and comparison**
Genc O, Yalcinkaya Y, Buyuktuncel E, Denizli A, Arica M, Bektas S.
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.68, pp.93-107, 2003 (SCI-Expanded)
- LXVIII. **Glucose oxidase and catalase adsorption onto Cibacron Blue F3GA-attached microporous polyamide hollow-fibres**
AKGOL S, Yavuz H, SENEL S, DENIZLI A.
REACTIVE & FUNCTIONAL POLYMERS, vol.55, no.1, pp.45-51, 2003 (SCI-Expanded)
- LXIX. **Immunoaffinity beads for selective removal of cholesterol from human plasma**
Yavuz H., DENIZLI A.
JOURNAL OF BIOMATERIALS SCIENCE-POLYMER EDITION, vol.14, no.5, pp.395-409, 2003 (SCI-Expanded)
- LXX. **Cysteinylhexapeptide attached poly(2-hydroxyethyl methacrylate) beads for Cd(II) removal from human plasma in a packed-bed column**
DENIZLI A, Yavuz H, ARPA Ç., BEKTAS S., GENÇ O.
SEPARATION SCIENCE AND TECHNOLOGY, vol.38, no.8, pp.1869-1881, 2003 (SCI-Expanded)
- LXXI. **Fluoride release from microporous poly(2-hydroxyethyl methacrylate) membranes**
Yildirmaz G., Akgol S., Arica M., Sonmez H., Denizli A.
REACTIVE & FUNCTIONAL POLYMERS, vol.56, no.2, pp.103-110, 2003 (SCI-Expanded)
- LXXII. **Reversible immobilization of urease onto Procion Brown MX-5BR-Ni(II) attached polyamide hollow-fibre membranes**
Akgol S, Yalcinkaya Y, Bayramoglu G, Denizli A, Arica M.
PROCESS BIOCHEMISTRY, vol.38, no.5, pp.675-683, 2002 (SCI-Expanded)
- LXXIII. **Poly(hydroxyethyl methacrylate-co-glycidyl methacrylate) reactive membrane utilised for cholesterol oxidase immobilisation**
Akgol S., Bayramoglu G., Kacar Y., Denizli A., Arica M.
POLYMER INTERNATIONAL, vol.51, no.12, pp.1316-1322, 2002 (SCI-Expanded)
- LXXIV. **Membrane with incorporated hydrophobic ligand for hydrophobic interaction with proteins: application to lipase adsorption**
Bayramoglu G., Denizli A., Arica M.
POLYMER INTERNATIONAL, vol.51, no.10, pp.966-972, 2002 (SCI-Expanded)
- LXXV. **Application of NaOH treated Polyporus versicolor for removal of divalent ions of Group IIB elements from synthetic wastewater**
ŞATIROĞLU N., Yalcinkaya Y., Denizli A., Arica M., Bektas S., Genc O.
PROCESS BIOCHEMISTRY, vol.38, no.1, pp.65-72, 2002 (SCI-Expanded)
- LXXVI. **Entrapment of Lentinus sajor-caju into Ca-alginate gel beads for removal of Cd(II) ions from aqueous solution: preparation and biosorption kinetics analysis**
Bayramoglu G., Denizli A., Bektas S., Arica M.
MICROCHEMICAL JOURNAL, vol.72, no.1, pp.63-76, 2002 (SCI-Expanded)
- LXXVII. **Covalent immobilization of lipase onto hydrophobic group incorporated poly(2-hydroxyethyl methacrylate) based hydrophilic membrane matrix**
Bayramoglu G., Kacar Y., Denizli A., Arica M.
JOURNAL OF FOOD ENGINEERING, vol.52, no.4, pp.367-374, 2002 (SCI-Expanded)
- LXXVIII. **Congo Red attached monosize poly(HEMA-co-MMA) microspheres for use in reversible enzyme immobilisation**
Yavuz H., BAYRAMOĞLU G., KACAR Y., DENIZLI A., ARICA M.
BIOCHEMICAL ENGINEERING JOURNAL, vol.10, no.1, pp.1-8, 2002 (SCI-Expanded)
- LXXIX. **Separation of human-immunoglobulin-G from human plasma with L-histidine immobilized pseudo-specific bioaffinity adsorbents**
OZKARA S., Yavuz H., PATIR S., ARICA M., DENIZLI A.
SEPARATION SCIENCE AND TECHNOLOGY, vol.37, no.3, pp.717-731, 2002 (SCI-Expanded)
- LXXX. **Biosorption of cadmium from aquatic systems by carboxymethylcellulose and immobilized Trametes**

versicolor

Yalcinkaya Y., Soysal L., Denizli A., Arica M., Bektas S., Genc O.

HYDROMETALLURGY, vol.63, no.1, pp.31-40, 2002 (SCI-Expanded)

- LXXXI. **Cadmium and mercury uptake by immobilized *Pleurotus sapidus***
Yalcinkaya Y., Arica M., Soysal L., Denizli A., Genc O., Bektas S.
TURKISH JOURNAL OF CHEMISTRY, vol.26, no.3, pp.441-452, 2002 (SCI-Expanded)
- LXXXII. **Bilirubin removal from human plasma by dye affinity microporous hollow fibers**
SENEL S., DENIZLI F., YAVUZ H., DENIZLI A.
SEPARATION SCIENCE AND TECHNOLOGY, vol.37, no.8, pp.1989-2006, 2002 (SCI-Expanded)
- LXXXIII. **Immobilization of catalase via adsorption onto L-histidine grafted functional PHEMA based membrane**
AKGOL S., KACAR Y., OZKARA S., YAVUZ H., DENIZLI A., ARICA M.
JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, vol.15, pp.197-206, 2001 (SCI-Expanded)
- LXXXIV. **Therapeutic affinity adsorption of iron(III) with dye- and ferritin-immobilized PHEMA adsorbent**
YAVUZ H., ARICA Y., DENIZLI A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.82, no.1, pp.186-194, 2001 (SCI-Expanded)
- LXXXV. **Immobilization of glucoamylase on the plain and on the spacer arm-attached poly(HEMA-EGDMA) microspheres**
ARICA M., YAVUZ H., DENIZLI A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.81, no.11, pp.2702-2710, 2001 (SCI-Expanded)
- LXXXVI. **Immobilization of glucoamylase onto spacer-arm attached magnetic poly(methylmethacrylate) microspheres: characterization and application to a continuous flow reactor**
ARICA M., YAVUZ H., PATIR S., DENIZLI A.
JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, vol.11, pp.127-138, 2000 (SCI-Expanded)
- LXXXVII. **Monosize and non-porous p(HEMA-co-MMA) microparticles designed as dye- and metal-chelate affinity sorbents**
DENIZLI A., YAVUZ H., ARICA Y.
COLLOIDS AND SURFACES A-PHYSICOCHEMICAL AND ENGINEERING ASPECTS, vol.174, no.3, pp.307-317, 2000 (SCI-Expanded)
- LXXXVIII. **Preparation and characterization of magnetic polymethylmethacrylate microbeads carrying ethylene diamine for removal of Cu(II), Cd(II), Pb(II), and Hg(II) from aqueous solutions**
DENIZLI A., OZKAN G., ARICA M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.78, no.1, pp.81-89, 2000 (SCI-Expanded)
- LXXXIX. **Human serum albumin chromatography by Cibacron Blue F3GA-derived microporous polyamide hollow-fiber affinity membranes**
KASSAB A., YAVUZ H., ODABASI M., DENIZLI A.
JOURNAL OF CHROMATOGRAPHY B, vol.746, no.2, pp.123-132, 2000 (SCI-Expanded)
- XC. **Nonporous monosize polymeric sorbents: Dye and metal chelate affinity separation of lysozyme**
DENIZLI A., YAVUZ H., GARIPCAN B., ARICA M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.76, no.2, pp.115-124, 2000 (SCI-Expanded)
- XCI. **Invertase immobilized on spacer-arm attached poly(hydroxyethyl methacrylate) membrane: Preparation and properties**
ARICA M., SENEL S., ALAEDDINOGLU N., PATIR S., DENIZLI A.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.75, no.14, pp.1685-1692, 2000 (SCI-Expanded)
- XCII. **In vitro cadmium removal from human serum by Cibacron Blue F3GA-thionein-complex conjugated affinity membranes**
DENIZLI F., DENIZLI A., ARICA M.
POLYMER INTERNATIONAL, vol.49, no.3, pp.302-308, 2000 (SCI-Expanded)
- XCIII. **Performance of different metal-dye chelated affinity adsorbents of poly(2-hydroxyethyl methacrylate) in lysozyme separation**
ARICA M., DENIZLI A.

SEPARATION SCIENCE AND TECHNOLOGY, vol.35, no.14, pp.2243-2257, 2000 (SCI-Expanded)

- XCV. **Dye-ligand column chromatography: Albumin adsorption from aqueous media and human plasma with dye-affinity microbeads**

DENİZLİ A., KOKTURK G., YAVUZ H., PISKIN E.

JOURNAL OF APPLIED POLYMER SCIENCE, vol.74, no.12, pp.2803-2810, 1999 (SCI-Expanded)

- XCV. **Albumin adsorption from aqueous solutions and human plasma in a packed-bed column with Cibacron Blue F3GA-Zn(II) attached poly(EGDMA-HEMA) microbeads**

DENİZLİ A., KOKTURK G., YAVUZ H., PISKIN E.

REACTIVE & FUNCTIONAL POLYMERS, vol.40, no.3, pp.195-203, 1999 (SCI-Expanded)

Articles Published in Other Journals

I. **Molecular Imprinting Technology for Biomimetic Assemblies**

BERELİ N., AKGÖNÜLLÜ S., ASLIYÜCE ÇOBAN S., ÇİMEN D., GÖKTÜRK BAŞAL I., TÜRKMEN D., YAVUZ ALAGÖZ H., DENİZLİ A.

Hacettepe Journal of Biology and Chemistry, vol.48, no.5, pp.575-601, 2020 (Peer-Reviewed Journal)

II. **Separation of histidine enantiomers by capillary electrochromatography with molecularly imprinted monolithic columns**

Sarkaya K., Asir S., GÖKTÜRK BAŞAL I., Ektirici S., YILMAZ F., YAVUZ H., DENİZLİ A.

SEPARATION SCIENCE PLUS, vol.3, no.6, pp.235-245, 2020 (ESCI)

III. **Versatile polymeric cryogels and their biomedical applications Yazarlar**

AKGÖNÜLLÜ S., Bakhshpour M., İDİL N., ANDAÇ A. M., YAVUZ ALAGÖZ H., DENİZLİ A.

Hacettepe Journal of Biology and Chemistry, vol.48, no.2, pp.99-118, 2020 (Peer-Reviewed Journal)

IV. **Magnetic Nanoparticles and Their Biomedical Applications**

ÇETİN K., Fatma D., YAVUZ ALAGÖZ H., Qureshi T., TÜRKMEN D., DENİZLİ A.

Hacettepe Journal of Biology and Chemistry, vol.47, no.2, pp.143-152, 2019 (Peer-Reviewed Journal)

V. **Oral Chelation Therapy for Cadmium Poisoning with Cd(II)- MAC Imprinted pHEMAC Nanoparticles**

Jalilzadeh M., ÇİMEN D., YAVUZ ALAGÖZ H., DENİZLİ A.

Hacettepe Jour, no.46, pp.505-514, 2018 (Peer-Reviewed Journal)

VI. **Performance of dye affinity beads for aluminium removal in magnetically stabilized fluidized bed**

YAVUZ ALAGÖZ H., SAY R., ANDAÇ ÖZDİL A. M., Bayraktar N., DENİZLİ A.

BioMagnetic Research and Technology, vol.2, no.1, pp.5, 2004 (Scopus)

Books & Book Chapters

I. **Scaling up of biosensors for clinical applications and commercialization**

SAYLAN İNCİ Y., AKGÖNÜLLÜ S., BERELİ N., YAVUZ ALAGÖZ H., DENİZLİ A.

in: Advanced Biosensors for Virus Detection Smart Diagnostics to Combat SARS-CoV-2, , Editor, Academic Press , pp.407-421, 2022

II. **Plasmonic Sensors for Detection of Chemical and Biological Warfare Agents**

AKGÖNÜLLÜ S., SAYLAN Y., BERELİ N., TÜRKMEN D., YAVUZ ALAGÖZ H., DENİZLİ A.

in: Plasmonic Sensors and their Applications, Adil Denizli, Editor, Wiley, Weinheim, pp.71-85, 2021

III. **SENSORS APPLICATIONS OF METAL NANOPARTICLES**

AKGÖNÜLLÜ S., YAVUZ ALAGÖZ H., DENİZLİ A.

in: PARTICULATE TECHNOLOGY AND APPLICATIONS, TUNCEL A., YAVUZ H., Editor, PALME DİZGİ GRAFİK BİRİMİ, Ankara, pp.205-215, 2019

IV. **SURFACE PLASMON RESONANCE BASED SENSORS FOR ALLERGENS DETECTION**

AKGÖNÜLLÜ S., YAVUZ ALAGÖZ H., DENİZLİ A.

in: AFFINITY SENSORS, DENİZLİ A., Editor, PALME DİZGİ GRAFİK BİRİMİ, Ankara, pp.151-162, 2019

- V. **Surface plasmon resonance sensors for medical diagnosis**
SAYLAN Y., YILMAZ F., ÖZGÜR E., DERAZSHAMSHIR A., BERELİ N., YAVUZ ALAGÖZ H., DENİZLİ A.
in: Nanotechnology Characterization Tools for Biosensing and Medical Diagnosis, Kumar, C.S.S.R., Editor, Springer Berlin Heidelberg, pp.425-458, 2018
- VI. **SENSORS FOR THE QUALITY DETECTION OF BEVERAGES**
BERELİ N., ÇİMEN D., TÜRKMEN D., YAVUZ ALAGÖZ H., DENİZLİ A.
in: AFFINITY SENSORS, Adil Denizli, Editor, Kukla Kirtasiye Bilgisayar ve Malzeme Tic. Ltd. Şti, Beytepe, Ankara, Ankara, pp.203-225, 2017
- VII. **Cryogels: Applications in Extracorporeal Affinity Therapy**
YAVUZ ALAGÖZ H., BERELİ N., BAYDEMİR PEŞİNT G., ANDAÇ A. M., TÜRKMEN D., DENİZLİ A.
in: Supermacroporous Cryogels: Biomedical and Biotechnological Applications, Ashok Kumar, Editor, Taylor and Francis, Indianapolis, pp.387-416, 2016
- VIII. **Antibody Purification from Human Plasma by Metal-Chelated Affinity Membranes**
YAVUZ ALAGÖZ H., BERELİ N., YILMAZ F., ARMUTCU C., DENİZLİ A.
in: Affinity Chromatography Methods and Protocols, Senta Reichelt, Editor, Humana Press, Leipzig, pp.43-46, 2015
- IX. **Cryogels for Affinity Chromatography**
BERELİ N., TÜRKMEN D., YAVUZ ALAGÖZ H., IGOR YURİ G., DENİZLİ A.
in: Advanced Separations by Specialized Sorbents, Ecaterina Stela Dragan, Editor, CRC Press, 2015

Refereed Congress / Symposium Publications in Proceedings

- I. **SÜPERMAKROGÖZENEKLI KRIYOJELLER ILE KOLESTEROL UZAKLAŞTIRILMASI,**
GÖKTÜRK BAŞAL I., SAYLAN Y., ÖZSEVGİÇ M., YILMAZ F., YAVUZ ALAGÖZ H., DENİZLİ A.
13.ULUSAL AFİNİTE TEKNİKLERİ KONGRESİ, Turkey, 4 - 06 September 2019
- II. **DETECTION OF AFLATOXIN B1 USING AV MOLECULARLY IMPRINTED POLYMER-COATED OPTIC SENSOR**
AKGÖNÜLLÜ S., YAVUZ ALAGÖZ H., DENİZLİ A.
8th Graduate Student Symposium on Molecular Imprinting, 28 - 30 August 2019
- III. **Investigation of lectin and serum-PSA interaction using magnetic poly(glycidyl methacrylate) microspheres**
İDİL N., PERÇİN DEMİRÇELİK I., YAVUZ H., AKSÖZ N., DENİZLİ A.
European Biotechnology Congress, Lecce, Italy, 15 - 18 May 2014, vol.185
- IV. **Cholesterol removal from intestinal mimicking solution by MIP technology**
Caktu K., Turkoglu E. A., Baydemir G., Yavuz H.
European Biotechnology Congress, İstanbul, Turkey, 28 September - 01 October 2011, vol.22
- V. **Surface plasmon resonance nanobiosensors for IgG detection**
Turkoglu E. A., Caktu K., UZUN L., Yavuz H.
European Biotechnology Congress, İstanbul, Turkey, 28 September - 01 October 2011, vol.22

Supported Projects

YAVUZ ALAGÖZ H., ÇELEBİER İ., DENKBAŞ E. B., Malekghasemi S., KESKİN N., Project Supported by Higher Education Institutions, Tanı Amaçlı Yeni Nesil Kolorimetrik Biyosensörler, 2018 - 2021

DENİZLİ A., YAVUZ ALAGÖZ H., BERELİ N., TÜRKMEN D., Project Supported by Higher Education Institutions, Diklofenak Baskılanmış Sensörlerin Hazırlanması ve Diklofenak Tayininde Kullanımının Araştırılması, 2017 - 2019

YAVUZ ALAGÖZ H., ÖZDEN A. K., Project Supported by Higher Education Institutions, Kanser hücreleri ve tümör belirteçleri için etkin biyosensör sistemlerinin geliştirilmesi, 2015 - 2018

YAVUZ ALAGÖZ H., Project Supported by Higher Education Institutions, Bilirubin Tayini İçin Moleküler Baskılanmış Sensörlerin Hazırlanması, 2014 - 2015

Metrics

Publication: 123

Citation (WoS): 3231

Citation (Scopus): 2035

H-Index (WoS): 33

H-Index (Scopus): 28

Non Academic Experience

Hacettepe Üniversitesi