

# Prof. HANDAN YAVUZ ALAGÖZ

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## Education Information

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

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

Undergraduate, Hacettepe Üniversitesi, 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 Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2013 - Continues

Associate Professor, Hacettepe Üniversitesi, 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 ELEKTROKROMATOĞRAFI) 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 hücreleri 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 antibiyotik 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

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Protein chromatography by molecular imprinted cryogels**  
BERELİ N., Yavuz H., DENİZLİ A.  
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, vol.43, pp.657-670, 2020 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **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 (Journal Indexed in SCI)
- V. **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 (Journal Indexed in SCI)
- VI. **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 (Journal Indexed in SCI)
- VII. **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 (Journal Indexed in SCI)
- VIII. **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 (Journal Indexed in SCI)

- IX. **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 (Journal Indexed in SCI)
- X. **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 (Journal Indexed in SCI)
- XI. **Purification of transferrin by magnetic immunoaffinity beads**  
Saçlıgil D., ŞENEL S., Yavuz H., DENİZLİ A.  
JOURNAL OF SEPARATION SCIENCE, vol.38, no.15, pp.2729-2736, 2015 (Journal Indexed in SCI)
- XII. **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 (Journal Indexed in SCI)
- XIII. **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 (Journal Indexed in SCI)
- XIV. **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 (Journal Indexed in SCI)
- XV. **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 (Journal Indexed in SCI)
- XVI. **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 (Journal Indexed in SCI)
- XVII. **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 (Journal Indexed in SCI)
- XVIII. **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 (Journal Indexed in SCI)
- XIX. **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 (Journal Indexed in SCI)
- XX. **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 (Journal Indexed in SCI)
- XXI. **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 (Journal Indexed in SCI)
- XXII. **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 (Journal Indexed in SCI)

- XXIII. **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 (Journal Indexed in SCI)
- XXIV. **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 (Journal Indexed in SCI)
- XXV. **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 (Journal Indexed in SCI)
- XXVI. **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 (Journal Indexed in SCI)
- XXVII. **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 (Journal Indexed in SCI)
- XXVIII. **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 (Journal Indexed in SCI)
- XXIX. **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 (Journal Indexed in SCI)
- XXX. **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 (Journal Indexed in SCI)
- XXXI. **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 (Journal Indexed in SCI)
- XXXII. **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 (Journal Indexed in SCI)
- XXXIII. **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 (Journal Indexed in SCI)
- XXXIV. **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 (Journal Indexed in SCI)
- XXXV. **Synthesis and characterization of pseudo-affinity ligand for penicillin acylase purification**  
KECİLİ R., SAY R., Yavuz H.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.39, pp.250-255, 2006 (Journal Indexed in

SCI)

- XXXVI. **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 (Journal Indexed in SCI)
- XXXVII. **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 (Journal Indexed in SCI)
- XXXVIII. **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 (Journal Indexed in SCI)
- XXXIX. **Antibody purification using porous metal-chelated monolithic columns**  
Berehi N., Uzun L., Yavuz H., Elkak A., Denizli A.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.101, no.1, pp.395-404, 2006 (Journal Indexed in SCI)
- XL. **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 (Journal Indexed in SCI)
- XLI. **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 (Journal Indexed in SCI)
- XLII. **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 (Journal Indexed in SCI)
- XLIII. **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 (Journal Indexed in SCI)
- XLIV. **Immunoadsorption of cholesterol on protein A oriented beads**  
Yavuz H., DENIZLI A.  
MACROMOLECULAR BIOSCIENCE, vol.5, no.1, pp.39-48, 2005 (Journal Indexed in SCI)
- XLV. **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 (Journal Indexed in SCI)
- XLVI. **Immobilization of alpha-amylase on Cu<sup>2+</sup> 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 (Journal Indexed in SCI)
- XLVII. **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 (Journal Indexed in SCI)
- XLVIII. **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 (Journal Indexed in SCI)
- XLIX. **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 (Journal Indexed in SCI)

- L. **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 (Journal Indexed in SCI)
- LI. **Biosorption of Hg<sup>2+</sup>, Cd<sup>2+</sup>, and Zn<sup>2+</sup> 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 (Journal Indexed in SCI)
- LII. **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 (Journal Indexed in SCI)
- LIII. **Dye affinity hollow fibers for albumin purification**  
Yavuz H., DENIZLI A.  
MACROMOLECULAR BIOSCIENCE, vol.4, no.2, pp.84-91, 2004 (Journal Indexed in SCI)
- LIV. **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 (Journal Indexed in SCI)
- LV. **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 (Journal Indexed in SCI)
- LVI. **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 (Journal Indexed in SCI)
- LVII. **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 (Journal Indexed in SCI)
- LVIII. **Cibacron Blue F3GA incorporated poly(methylmethacrylate) beads for albumin adsorption in batch system**  
Yavuz H., DURU E., GENC O., DENIZLI A.  
COLLOIDS AND SURFACES A-PHYSICO-CHEMICAL AND ENGINEERING ASPECTS, vol.223, pp.185-193, 2003 (Journal Indexed in SCI)
- LIX. **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 (Journal Indexed in SCI)
- LX. **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 (Journal Indexed in SCI)
- LXI. **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 (Journal Indexed in SCI)
- LXII. **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 (Journal Indexed in SCI)
- LXIII. **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 (Journal Indexed in SCI)
- LXIV. **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 (Journal Indexed in SCI)

- LXV. **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 (Journal Indexed in SCI)
- LXVI. **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 (Journal Indexed in SCI)
- LXVII. **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 (Journal Indexed in SCI)
- LXVIII. **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 (Journal Indexed in SCI)
- LXIX. **Uranium recovery by immobilized and dried powdered biomass: characterization and comparison**  
GENÇ O., YALCINKAYA Y., BUYUKTUNCEL E., DENIZLI A., ARICA M., BEKTAS S.  
INTERNATIONAL JOURNAL OF MINERAL PROCESSING, vol.68, pp.93-107, 2003 (Journal Indexed in SCI)
- LXX. **Poly(hydroxyethyl methacrylate-co-glycidyl methacrylate) reactive membrane utilised for cholesterol oxidase immobilisation**  
AKGOL S., BAYRAMOĞLU G., KACAR Y., DENIZLI A., ARICA M.  
POLYMER INTERNATIONAL, vol.51, no.12, pp.1316-1322, 2002 (Journal Indexed in SCI)
- LXXI. **Reversible immobilization of urease onto Procion Brown MX-5BR-Ni(II) attached polyamide hollow-fibre membranes**  
AKGOL S., YALCINKAYA Y., BAYRAMOĞLU G., DENIZLI A., ARICA M.  
PROCESS BIOCHEMISTRY, vol.38, no.5, pp.675-683, 2002 (Journal Indexed in SCI)
- LXXII. **Membrane with incorporated hydrophobic ligand for hydrophobic interaction with proteins: application to lipase adsorption**  
BAYRAMOĞLU G., DENIZLI A., ARICA M.  
POLYMER INTERNATIONAL, vol.51, no.10, pp.966-972, 2002 (Journal Indexed in SCI)
- LXXIII. **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., GENÇ O.  
PROCESS BIOCHEMISTRY, vol.38, no.1, pp.65-72, 2002 (Journal Indexed in SCI)
- LXXIV. **Entrapment of Lentinus sajor-caju into Ca-alginate gel beads for removal of Cd(II) ions from aqueous solution: preparation and biosorption kinetics analysis**  
BAYRAMOĞLU G., DENIZLI A., BEKTAS S., ARICA M.  
MICROCHEMICAL JOURNAL, vol.72, no.1, pp.63-76, 2002 (Journal Indexed in SCI)
- LXXV. **Covalent immobilization of lipase onto hydrophobic group incorporated poly(2-hydroxyethyl methacrylate) based hydrophilic membrane matrix**  
BAYRAMOĞLU G., KACAR Y., DENIZLI A., ARICA M.  
JOURNAL OF FOOD ENGINEERING, vol.52, no.4, pp.367-374, 2002 (Journal Indexed in SCI)
- LXXVI. **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 (Journal Indexed in SCI)
- LXXVII. **Cadmium and mercury uptake by immobilized Pleurotus sapidus**  
YALCINKAYA Y., ARICA M., SOYSAL L., DENIZLI A., GENÇ O., BEKTAS S.  
TURKISH JOURNAL OF CHEMISTRY, vol.26, no.3, pp.441-452, 2002 (Journal Indexed in SCI)

- LXXVIII. **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 (Journal Indexed in SCI)
- 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 (Journal Indexed in SCI)
- LXXX. **Biosorption of cadmium from aquatic systems by carboxymethylcellulose and immobilized *Trametes versicolor***  
 YALCINKAYA Y., SOYSAL L., DENIZLI A., ARICA M., BEKTAS S., GENÇ O.  
 HYDROMETALLURGY, vol.63, no.1, pp.31-40, 2002 (Journal Indexed in SCI)
- LXXXI. **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 (Journal Indexed in SCI)
- LXXXII. **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 (Journal Indexed in SCI)
- LXXXIII. **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 (Journal Indexed in SCI)
- LXXXIV. **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 (Journal Indexed in SCI)
- LXXXV. **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 (Journal Indexed in SCI)
- LXXXVI. **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 (Journal Indexed in SCI)
- LXXXVII. **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 (Journal Indexed in SCI)
- LXXXVIII. **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 (Journal Indexed in SCI)
- LXXXIX. **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 (Journal Indexed in SCI)
- XC. **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 (Journal Indexed in SCI)
- XCI. **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 (Journal Indexed in SCI)

### **XCII. 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 (Journal Indexed in SCI)

### **XCIII. 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 (Journal Indexed in SCI)

## **Articles Published in Other Journals**

### **I. 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 (Journal Indexed in ESCI)

### **II. Magnetic Nanoparticles and Their Biomedical Applications**

Çetin K., Denizli F., Yavuz Alagöz H., Qureshi T., Türkmen D., Denizli A.

Hacettepe Journal of Biology and Chemistry, vol.47, no.2, pp.143-152, 2019 (National Refreed University Journal)

### **III. 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 (National Refreed University Journal)

### **IV. 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 (Journal Indexed in ESCI)

## **Books & Book Chapters**

### **I. 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

### **II. 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

### **III. 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

### **IV. 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

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

## Citations

Total Citations (WOS):3139

h-index (WOS):33