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Education Information

Doctorate, University of Ottawa, Faculty Of Science, Chemistry, Canada 1977 - 1982

Postgraduate, Middle East Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1974 - 1976

Undergraduate, Middle East Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1969 - 1974

Dissertations

Doctorate, Size and configurational factors in ionic hydration and ionization, University of Ottawa, Science, Chemistry, 1982

Postgraduate, Contact angle measurements on calcite and colomanite systems in sodium dodecyl benzene sulphonate, Middle East Technical University, Fen-Edebiyat Fakültesi, Kimya Bölümü, 1976

Research Areas

Chemistry, Analytical Chemistry, Electromagnetic Methods, Physical Chemistry, Solution Properties, Polymeric Solutions, Thermodynamics, Natural Sciences

Academic Titles / Tasks

Professor, Akdeniz University, Faculty of Science, Department of Chemistry, 1993 - Continues

Advising Theses

AYRANCI E., Daphne Sericea ve Daphne Gnidioides bitki ekstraktlarının bileşimlerinin ve antioksidan aktivitelerinin incelenmesi, Postgraduate, T.Tongur(Student), 2014

AYRANCI E., Etanol-metanol karışımının tayini için yüzey baskılı elektrotların modifiye edilmesiyle amperometrik alkol biyosensörünün geliştirilmesi, Doctorate, M.Şahin(Student), 2013

AYRANCI E., Yüzey aktif maddeler ve metal iyonlarının sulu çözeltilerinden yüksek özgül yüzeyli karbon kumaşı üzerine adsorpsiyon yolu ile uzaklaştırılması, Doctorate, O.Duman(Student), 2007

AYRANCI E., Atık sulardeki pestisit ve organokalay bileşiklerinin karbon kumaşı üzerine adsorpsiyon yolu ile uzaklaştırılmasının incelenmesi, Doctorate, N.Hoda(Student), 2005

AYRANCI E., Atık sularda kirletici olarak bulunabilen bazı ftalik asit esterlerinin adsorpsiyon yoluyla uzaklaştırılmasının incelenmesi, Postgraduate, E.Bayram(Student), 2004

AYRANCI E., Halojenürlerin bovin serum albumin ile etkileşiminin iyon seçici elektrotlarla incelenmesi, Postgraduate, O.Duman(Student), 2001

AYRANCI E., Laurik, palmitik ve searik asidin 2-Butanol'de görünür molar hacim ve viskozitelerinin incelenmesi, Postgraduate, G.Akgül(Student), 2001

AYRANCI E., Yenebilir filmlerin oksijen ve karbondioksit geçirgenliği ölçümleri ve film uygulanan gıdalarda meydana gelen değişimlerin analizi, Doctorate, S.Tunç(Student), 2001

AYRANCI E., Ftir spektroskopisinin avokado (Persea Americana Mill.) analizinde kullanımı, Postgraduate, N.Hoda(Student), 1999

AYRANCI E., Yenilebilir filmlerin su buharı geçirgenliğinin sıcaklıkla değişiminin incelenmesi, Postgraduate, A.Etçi(Student), 1997

AYRANCI E., Yenebilir filmlerin gıdalar üzerine uygulamaları, Postgraduate, S.Tunç(Student), 1996

AYRANCI E., Yenebilir gıda filmlerinin nem transfer özellikleri, Postgraduate, E.Emel(Student), 1995

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Investigation of the performance of activated carbon cloth to remove glyphosate, glufosinate, aminomethylphosphonic acid and bialaphos from aqueous solutions by adsorption/electrosorption**
TONGUR T., Ayranci E.
Environmental Monitoring and Assessment, vol.195, no.7, 2023 (SCI-Expanded)
- II. **Adsorption and electrosorption of paraquat, diquat and difenzoquat from aqueous solutions onto activated carbon cloth as monitored by in-situ uv-visible spectroscopy**
TONGUR T., Ayranci E.
JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, vol.9, no.4, 2021 (SCI-Expanded)
- III. **Removal of azo dyes from aqueous solutions by adsorption and electrosorption as monitored with in-situ UV-visible spectroscopy**
Sahin E. M., TONGUR T., Ayranci E.
SEPARATION SCIENCE AND TECHNOLOGY, vol.55, no.18, pp.3287-3298, 2020 (SCI-Expanded)
- IV. **Comparison of Solution Behaviors of Two Structurally Related Ionic Liquids in Water and in Acetonitrile as Studied by Volumetric and Acoustic Properties**
Sahin E. M., Ayranci E.
JOURNAL OF SOLUTION CHEMISTRY, vol.48, no.11-12, pp.1503-1518, 2019 (SCI-Expanded)
- V. **Development of amperometric biosensors using screen-printed carbon electrodes modified with conducting polymer and nanomaterials for the analysis of ethanol, methanol and their mixtures**
BİLGİ M., Ayranci E.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.823, pp.588-592, 2018 (SCI-Expanded)
- VI. **Investigation of the composition and antioxidant activity of acetone and methanol extracts of Daphne sericea L. and Daphne gnidioides L.**
TONGUR T., ERKAN N., Ayranci E.
JOURNAL OF FOOD SCIENCE AND TECHNOLOGY-MYSORE, vol.55, no.4, pp.1396-1406, 2018 (SCI-Expanded)
- VII. **Sensor and biosensor application of a new redox mediator: Rosmarinic acid modified screen-printed carbon electrode for electrochemical determination of NADH and ethanol**
BİLGİ M., ŞAHİN E. M., Ayranci E.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.813, pp.67-74, 2018 (SCI-Expanded)
- VIII. **Interactions of Imidazolium Based Ionic Liquids with Water Studied by Density and Speed of Sound Measurements: Effect of the Chain Length of an Alkyl Substituent on the Imidazolium Ion**
Ayranci E., ŞAHİN E. M.
JOURNAL OF SOLUTION CHEMISTRY, vol.47, no.2, pp.246-261, 2018 (SCI-Expanded)
- IX. **Flow-through electrosorption process for removal of 2,4-D pesticide from aqueous solutions onto activated carbon cloth fixed-bed electrodes**
BAYRAM E., KIZIL C., Ayranci E.

WATER SCIENCE AND TECHNOLOGY, vol.77, no.3, pp.848-854, 2018 (SCI-Expanded)

- X. **Densimetric and ultraacoustic study of LiCl in 1-butyl-3-methylimidazolium tetrafluoroborate and in water: A comparative interaction analysis**
ŞAHİN E., Lal B., Ayranci E.
JOURNAL OF CHEMICAL THERMODYNAMICS, vol.110, pp.51-56, 2017 (SCI-Expanded)
- XI. **Biosensor application of screen-printed carbon electrodes modified with nanomaterials and a conducting polymer: Ethanol biosensors based on alcohol dehydrogenase**
Bilgi M., Ayranci E.
SENSORS AND ACTUATORS B-CHEMICAL, vol.237, pp.849-855, 2016 (SCI-Expanded)
- XII. **Solution Behavior of p-Coumaric, Caffeic and Ferulic Acids in Methanol as Determined from Volumetric Properties: Attempts to Explore a Correlation with Antioxidant Activities**
Sahin M., ERKAN N., Ayranci E.
JOURNAL OF SOLUTION CHEMISTRY, vol.45, no.1, pp.52-66, 2016 (SCI-Expanded)
- XIII. **Electrooxidation of NADH on Modified Screen-Printed Electrodes: Effects of Conducting Polymer and Nanomaterials**
Sahin M., Ayranci E.
ELECTROCHIMICA ACTA, vol.166, pp.261-270, 2015 (SCI-Expanded)
- XIV. **Studies on the interactions of diglycine and triglycine with polyethylene glycol 400 in aqueous solutions by density and ultrasound speed measurements**
ŞAHİN M., Ayranci E.
JOURNAL OF CHEMICAL THERMODYNAMICS, vol.58, pp.70-82, 2013 (SCI-Expanded)
- XV. **Radical Scavenging Capacity of Methanolic Phillyrea latifolia L. Extract: Anthocyanin and Phenolic Acids Composition of Fruits**
Ayranci E., ERKAN N.
MOLECULES, vol.18, no.2, pp.1798-1810, 2013 (SCI-Expanded)
- XVI. **Volumetric studies to examine the interactions of imidazolium based ionic liquids with water by means of density and speed of sound measurements**
Lal B., Sahin M., Ayranci E.
JOURNAL OF CHEMICAL THERMODYNAMICS, vol.54, pp.142-147, 2012 (SCI-Expanded)
- XVII. **Structural effects on electrosorptive behavior of aromatic organic acids from aqueous solutions onto activated carbon cloth electrode of a flow-through electrolytic cell**
BAYRAM E., Ayranci E.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.683, pp.14-20, 2012 (SCI-Expanded)
- XVIII. **Electrosorption based waste water treatment system using activated carbon cloth electrode: Electrosorption of benzoic acid from a flow-through electrolytic cell**
BAYRAM E., Ayranci E.
SEPARATION AND PURIFICATION TECHNOLOGY, vol.86, pp.113-118, 2012 (SCI-Expanded)
- XIX. **Lipid oxidation inhibiting capacities of blackseed essential oil and rosemary extract**
ERKAN N., Ayranci G., Ayranci E.
EUROPEAN JOURNAL OF LIPID SCIENCE AND TECHNOLOGY, vol.114, no.2, pp.175-184, 2012 (SCI-Expanded)
- XX. **Phenolic compounds profile and antioxidant activity of Dorystoechas hastata L. Boiss et Heldr**
ERKAN N., AKGONEN S., OVAT S., GOKSEL G., Ayranci E.
FOOD RESEARCH INTERNATIONAL, vol.44, no.9, pp.3013-3020, 2011 (SCI-Expanded)
- XXI. **A systematic study on the changes in properties of an activated carbon cloth upon polarization**
BAYRAM E., Ayranci E.
ELECTROCHIMICA ACTA, vol.56, no.5, pp.2184-2189, 2011 (SCI-Expanded)
- XXII. **Volumetric properties of (ascorbic acid plus polyethylene glycol 3350+water) systems at T = (288.15, 298.15, and 308.15) K**
Sahin M., Ayranci E.
JOURNAL OF CHEMICAL THERMODYNAMICS, vol.43, no.2, pp.177-185, 2011 (SCI-Expanded)
- XXIII. **Antioxidant activities of Sideritis congesta Davis et Huber-Morath and Sideritis arguta Boiss et**

Heldr: Identification of free flavonoids and cinnamic acid derivatives

ERKAN N., ÇETİN H., Ayrancı E.

FOOD RESEARCH INTERNATIONAL, vol.44, no.1, pp.297-303, 2011 (SCI-Expanded)

- XXIV. **Interactions of glycine with polyethylene glycol studied by measurements of density and ultrasound speed in aqueous solutions at various temperatures**
Sahin M., Yesil Z., Gunel M., Tahiroglu S., Ayrancı E.
FLUID PHASE EQUILIBRIA, vol.300, no.1-2, pp.155-161, 2011 (SCI-Expanded)
- XXV. **Effects of structural isomerism on solution behaviour of solutes: Apparent molar volumes and isentropic compression of catechol, resorcinol, and hydroquinone in aqueous solution at T = (283.15, 293.15, 298.15, 303.15, and 313.15) K**
BAYRAM E., Ayrancı E.
JOURNAL OF CHEMICAL THERMODYNAMICS, vol.42, no.9, pp.1168-1172, 2010 (SCI-Expanded)
- XXVI. **Electrochemically Enhanced Removal of Polycyclic Aromatic Basic Dyes from Dilute Aqueous Solutions by Activated Carbon Cloth Electrodes**
BAYRAM E., Ayrancı E.
ENVIRONMENTAL SCIENCE & TECHNOLOGY, vol.44, no.16, pp.6331-6336, 2010 (SCI-Expanded)
- XXVII. **Investigation of changes in properties of activated carbon cloth upon polarization and of electrosorption of the dye basic blue-7**
BAYRAM E., Ayrancı E.
CARBON, vol.48, no.6, pp.1718-1730, 2010 (SCI-Expanded)
- XXVIII. **Attachment of benzo-crown ethers onto activated carbon cloth to enhance the removal of chromium, cobalt and nickel ions from aqueous solutions by adsorption**
DUMAN O., Ayrancı E.
JOURNAL OF HAZARDOUS MATERIALS, vol.176, no.1-3, pp.231-238, 2010 (SCI-Expanded)
- XXIX. **Apparent Molar Volumes and Isentropic Compressibilities of Benzene Sulfonates and Naphthalene Sulfonates in Aqueous Solutions at (293.15, 303.15, 313.15, 323.15, and 333.15) K**
Ayrancı E., DUMAN O.
JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.55, no.2, pp.947-952, 2010 (SCI-Expanded)
- XXX. **Adsorptive removal of cationic surfactants from aqueous solutions onto high-area activated carbon cloth monitored by in situ UV spectroscopy**
DUMAN O., Ayrancı E.
JOURNAL OF HAZARDOUS MATERIALS, vol.174, no.1-3, pp.359-367, 2010 (SCI-Expanded)
- XXXI. **Structural effects on the interactions of benzene and naphthalene sulfonates with activated carbon cloth during adsorption from aqueous solutions**
Ayrancı E., DUMAN O.
CHEMICAL ENGINEERING JOURNAL, vol.156, no.1, pp.70-76, 2010 (SCI-Expanded)
- XXXII. **A kinetic study of oxidation development in sunflower oil under microwave heating: Effect of natural antioxidants**
ERKAN N., Ayrancı G., Ayrancı E.
FOOD RESEARCH INTERNATIONAL, vol.42, no.8, pp.1171-1177, 2009 (SCI-Expanded)
- XXXIII. **Adsorption/electrosorption of catechol and resorcinol onto high area activated carbon cloth**
BAYRAM E., HODA N., Ayrancı E.
JOURNAL OF HAZARDOUS MATERIALS, vol.168, no.2-3, pp.1459-1466, 2009 (SCI-Expanded)
- XXXIV. **Apparent molar volumes and isentropic compressibilities of benzyltrialkylammonium chlorides in water at (293.15, 303.15, 313.15, 323.15, and 333.15) K**
DUMAN O., Ayrancı E.
JOURNAL OF CHEMICAL THERMODYNAMICS, vol.41, no.8, pp.911-915, 2009 (SCI-Expanded)
- XXXV. **Density, sound velocity and viscosity properties of aqueous sodium metatungstate solutions and an application of these solutions in heavy mineral separations**
Sahin M., Ayrancı K., KOŞUN E., Ayrancı E.
CHEMICAL GEOLOGY, vol.264, no.1-4, pp.96-100, 2009 (SCI-Expanded)

- XXXVI. **In-Situ UV-Visible Spectroscopic Study on the Adsorption of some Dyes onto Activated Carbon Cloth**
Ayranci E., DUMAN O.
SEPARATION SCIENCE AND TECHNOLOGY, vol.44, no.15, pp.3735-3752, 2009 (SCI-Expanded)
- XXXVII. **Antioxidant activities of rosemary (*Rosmarinus Officinalis* L.) extract, blackseed (*Nigella sativa* L.) essential oil, carnosic acid, rosmarinic acid and sesamol**
ERKAN N., Ayranci G., Ayranci E.
FOOD CHEMISTRY, vol.110, no.1, pp.76-82, 2008 (SCI-Expanded)
- XXXVIII. **Interactions of polyethylene glycols with water studied by measurements of density and sound velocity**
Ayranci E., Sahin M.
JOURNAL OF CHEMICAL THERMODYNAMICS, vol.40, no.8, pp.1200-1207, 2008 (SCI-Expanded)
- XXXIX. **Volumetric properties of ascorbic acid (vitamin C) and thiamine hydrochloride (vitamin B-1) in dilute HCl and in aqueous NaCl solutions at (283.15, 293.15, 298.15, 303.15, 308.15, and 313.15) K**
Ayranci G., Sahin M., Ayranci E.
JOURNAL OF CHEMICAL THERMODYNAMICS, vol.39, no.12, pp.1620-1631, 2007 (SCI-Expanded)
- XL. **Removal of anionic surfactants from aqueous solutions by adsorption onto high area activated carbon cloth studied by in situ UV spectroscopy**
Ayranci E., Duman O.
JOURNAL OF HAZARDOUS MATERIALS, vol.148, no.1-2, pp.75-82, 2007 (SCI-Expanded)
- XLI. **Viscosities, apparent molar volumes, expansivities and isentropic compressibilities of some fatty acids and their triglycerides in benzene at (20, 30, 40 and 60) degrees C**
Akgül G., Bayram E., Ayranci E.
JOURNAL OF SOLUTION CHEMISTRY, vol.35, no.12, pp.1655-1671, 2006 (SCI-Expanded)
- XLII. **Kinetic and equilibrium studies on the removal of acid dyes from aqueous solutions by adsorption onto activated carbon cloth**
Hoda N., Bayram E., Ayranci E.
JOURNAL OF HAZARDOUS MATERIALS, vol.137, no.1, pp.344-351, 2006 (SCI-Expanded)
- XLIII. **Adsorption of aromatic organic acids onto high area activated carbon cloth in relation to wastewater purification**
Ayranci E., Duman O.
JOURNAL OF HAZARDOUS MATERIALS, vol.136, no.3, pp.542-552, 2006 (SCI-Expanded)
- XLIV. **Adsorption characteristics of benzaldehyde, sulphanilic acid, and p-phenolsulfonate from water, acid, or base solutions onto activated carbon cloth**
Duman O., Ayranci E.
SEPARATION SCIENCE AND TECHNOLOGY, vol.41, no.16, pp.3673-3692, 2006 (SCI-Expanded)
- XLV. **Adsorption kinetics and isotherms of pesticides onto activated carbon-cloth**
Ayranci E., Hoda N.
CHEMOSPHERE, vol.60, no.11, pp.1600-1607, 2005 (SCI-Expanded)
- XLVI. **Moisture sorption isotherms of cowpea (*Vigna unguiculata* L. Walp) and its protein isolate at 10, 20 and 30 degrees C**
AYRANCI E., Duman O.
JOURNAL OF FOOD ENGINEERING, vol.70, no.1, pp.83-91, 2005 (SCI-Expanded)
- XLVII. **Adsorption behaviors of some phenolic compounds onto high specific area activated carbon cloth**
AYRANCI E., Duman O.
JOURNAL OF HAZARDOUS MATERIALS, vol.124, no.1-3, pp.125-132, 2005 (SCI-Expanded)
- XLVIII. **Adsorption of phthalic acid and its esters onto high-area activated carbon-cloth studied by in situ UV-spectroscopy**
Ayranci E., Bayram E.
JOURNAL OF HAZARDOUS MATERIALS, vol.122, no.1-2, pp.147-153, 2005 (SCI-Expanded)
- XLIX. **Structural and ionization effects on the adsorption behaviors of some anilinic compounds from aqueous solution onto high-area carbon-cloth**

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JOURNAL OF HAZARDOUS MATERIALS, vol.120, no.1-3, pp.173-181, 2005 (SCI-Expanded)

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Ayranci E., Hoda N., Bayram E.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.284, no.1, pp.83-88, 2005 (SCI-Expanded)
- LI. **Adsorption of bentazon and propanil from aqueous solutions at the high area activated carbon-cloth**
Ayranci E., Hoda N.
CHEMOSPHERE, vol.57, no.8, pp.755-762, 2004 (SCI-Expanded)
- LII. **The effect of edible coatings on water and vitamin C loss of apricots (*Armeniaca vulgaris* Lam.) and green peppers (*Capsicum annuum* L.)**
Ayranci E., Tunc S.
FOOD CHEMISTRY, vol.87, no.3, pp.339-342, 2004 (SCI-Expanded)
- LIII. **Binding of lead ion to bovine serum albumin studied by ion selective electrode**
AYRANCI E., Duman O.
PROTEIN AND PEPTIDE LETTERS, vol.11, no.4, pp.331-337, 2004 (SCI-Expanded)
- LIV. **Studies on removal of metribuzin, bromacil, 2,4-D and atrazine from water by adsorption on high area carbon cloth**
Ayranci E., Hoda N.
JOURNAL OF HAZARDOUS MATERIALS, vol.112, no.1-2, pp.163-168, 2004 (SCI-Expanded)
- LV. **Binding of fluoride, bromide and iodide to bovine serum albumin, studied with ion-selective electrodes**
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- LVI. **A method for the measurement of the oxygen permeability and the development of edible films to reduce the rate of oxidative reactions in fresh foods**
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- LVII. **Molecular structure effects in the adsorption behaviour of some aromatic heterocyclic compounds at high-area carbon-cloth in relation to waste-water purification**
Conway B., Ayranci G., Ayranci E.
ZEITSCHRIFT FÜR PHYSIKALISCHE CHEMIE-INTERNATIONAL JOURNAL OF RESEARCH IN PHYSICAL CHEMISTRY & CHEMICAL PHYSICS, vol.217, no.4, pp.315-331, 2003 (SCI-Expanded)
- LVIII. **method for the measurement of the oxygen permeability and the development of edible films to reduce the rate of oxidative reactions in fresh foods**
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- LIX. **Apparent molar volumes and viscosities of lauric, palmitic, and stearic acids in 2-butanol at (20, 30, 40, and 60) degrees C**
Ayranci E., AKGÜL G.
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- LX. **Use of quasi-3-dimensional porous electrodes for adsorption and electrocatalytic removal of impurities from waste-waters**
Conway B., Ayranci E., Al-Maznai H.
ELECTROCHIMICA ACTA, vol.47, no.5, pp.705-718, 2001 (SCI-Expanded)
- LXI. **Removal of phenol, phenoxide and chlorophenols from waste-waters by adsorption and electrosorption at high-area carbon felt electrodes**
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- LXII. **Adsorption and electrosorption at high-area carbon-felt electrodes for waste-water purification: Systems evaluation with inorganic, S-containing anions**
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- JOURNAL OF APPLIED ELECTROCHEMISTRY, vol.31, no.3, pp.257-266, 2001 (SCI-Expanded)
- LXIII. **Adsorption and electrosorption of ethyl xanthate and thiocyanate anions at high-area carbon-cloth electrodes studied by in situ UV spectroscopy: Development of procedures for wastewater purification**
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ANALYTICAL CHEMISTRY, vol.73, no.6, pp.1181-1189, 2001 (SCI-Expanded)
- LXIV. **The effect of fatty acid content on water vapour and carbon dioxide transmissions of cellulose-based edible films**
Ayranci E., Tunc S.
FOOD CHEMISTRY, vol.72, no.2, pp.231-236, 2001 (SCI-Expanded)
- LXV. **The measurement of carbon dioxide transmission of edible films by a static method**
Ayranci E., Tunc S., etçi a.
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.79, no.7, pp.1033-1037, 1999 (SCI-Expanded)
- LXVI. **Effective ionic radii and hydration volumes for evaluation of solution properties and ionic adsorption**
Conway B., Ayranci E.
JOURNAL OF SOLUTION CHEMISTRY, vol.28, no.3, pp.163-192, 1999 (SCI-Expanded)
- LXVII. **Examination of the additivity of moisture contents of components in simple model food systems**
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NAHRUNG-FOOD, vol.42, no.2, pp.106-108, 1998 (SCI-Expanded)
- LXVIII. **Apparent molar volume and viscosity of compounds with asymmetric carbon atoms**
Ayranci E.
JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.42, no.5, pp.934-937, 1997 (SCI-Expanded)
- LXIX. **The effect of molecular weight of constituents on properties of cellulose-based edible films**
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- LXXI. **Moisture sorption of cellulose based edible films**
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NAHRUNG-FOOD, vol.40, no.5, pp.274-276, 1996 (SCI-Expanded)
- LXXII. **BINDING OF IODIDE TO BOVINE SERUM-ALBUMIN AND PROTAMINE STUDIED WITH AN ION-SELECTIVE ELECTRODE**
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FOOD CHEMISTRY, vol.54, no.2, pp.173-175, 1995 (SCI-Expanded)
- LXXIII. **EQUILIBRIUM MOISTURE CHARACTERISTICS OF DRIED EGGPLANT AND OKRA**
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NAHRUNG-FOOD, vol.39, no.3, pp.228-233, 1995 (SCI-Expanded)
- LXXIV. **THE EFFECT OF PROTEIN ISOLATE OF PISTACIA-TEREBINTHUS L ON MOISTURE TRANSFER PROPERTIES OF CELLULOSE-BASED EDIBLE FILMS**
AYRANCI E., Cetin E.
FOOD SCIENCE AND TECHNOLOGY-LEBENSMITTEL-WISSENSCHAFT & TECHNOLOGIE, vol.28, no.2, pp.241-244, 1995 (SCI-Expanded)
- LXXV. **A METHOD TO STUDY PROTEIN DENATURATION BY MEASUREMENTS OF APPARENT MOLAR VOLUMES**
AYRANCI E.
THERMOCHIMICA ACTA, vol.232, no.2, pp.297-302, 1994 (SCI-Expanded)
- LXXVI. **DETERMINATION OF CHLORIDE AND NITRATE IN BUTTER, MARGARINE, CHEESE AND MEAT-**

PRODUCTS USING ION-SELECTIVE ELECTRODES

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LXXVII. PREPARATION OF PROTEIN ISOLATES FROM PISTACIA-TEREBINTHUS L AND EXAMINATION OF SOME FUNCTIONAL-PROPERTIES

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FOOD SCIENCE AND TECHNOLOGY-LEBENSMITTEL-WISSENSCHAFT & TECHNOLOGIE, vol.25, no.5, pp.442-444, 1992 (SCI-Expanded)

LXXVIII. MOISTURE SORPTION ISOTHERMS OF PISTACIA-TEREBINTHUS L AND ITS PROTEIN ISOLATE

AYRANCI E., Dalgic A.

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LXXIX. MOISTURE SORPTION ISOTHERMS OF DRIED APRICOT, FIG AND RAISIN AT 20-DEGREE-C AND 36-DEGREE-C

AYRANCI E., AYRANCI G., DOGANTAN Z.

JOURNAL OF FOOD SCIENCE, vol.55, no.6, pp.1591-1590, 1990 (SCI-Expanded)

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- XVII. **Sulu çözeltilerden metil oranjin uzaklaştırılabilmesi için aktiflenmiş karbon kumaşının kullanılabilirliğinin incelenmesi**
DUMAN O., AYRANCI E.
XVIII. Ulusal Kimya Kongresi, Kars, Turkey, 5 - 09 July 2004, pp.117
- XVIII. **Cr(VI) ve Mn(VII) oksi-iyonlarının tekli ve eşmolar karışımlarının aktiflenmiş karbon kumaşı üzerine adsorpsiyonu**
DUMAN O., AYRANCI E.
XVIII. Ulusal Kimya Kongresi, Kars, Turkey, 5 - 09 July 2004, pp.118
- XIX. **Isıyla denatüre edilmiş bovin serum albumine kurşun iyonunun bağlanması"**
DUMAN O., AYRANCI E.
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- XX. **Yenebilir filmlerin oksijen ve su buharı geçirgenliği ölçümleri ve film uygulanan gıdalarda meydana gelen değişimlerin analizi**
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