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Research Areas

Chemistry, Analytical Chemistry, Adsorption Spectroscopy, Atomic Mass Spectrometry, Atomic and Molecular Spectroscopy, Separation Methods, Emission Spectroscopy, Food Analysis, Micro and Semimicro Methods, Spectroscopical Methods, Natural Sciences

Academic Titles / Tasks

Professor, Karadeniz Technical University, Maçka Myo , Gıda İşleme, 2020 - Continues

Research Assistant, Karadeniz Technical University, 2002 - 2010

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Characterization of the Adsorption Mechanism of Cadmium(II) and Methylene Blue upon Corncobs Activated Carbon**
GÜNDOĞDU A., Bozbeyoglu P., Imamoglu M., Baltaci C., DURAN C., BULUT V. N.
ANALYTICAL LETTERS, vol.56, no.3, pp.433-448, 2023 (SCI-Expanded)
- II. **Application of cherry laurel seeds activated carbon as a new adsorbent for Cr(VI) removal**
ÖZTÜRK N., YAZAR M., GÜNDOĞDU A., DURAN C., Senturk H. B., SOYLAK M.
MEMBRANE AND WATER TREATMENT, vol.12, no.1, pp.11-21, 2021 (SCI-Expanded)
- III. **The biogenic amine and mineral contents of different milling fractions of bread and durum wheat (Triticum L.) cultivars**
Karayigit B., ÇOLAK N., ÖZOĞUL F., GÜNDOĞDU A., İNCEER H., Bilgicli N., AYAZ F. A.
FOOD BIOSCIENCE, vol.37, 2020 (SCI-Expanded)
- IV. **Effect of antimonite mineralization area on heavy metal contents and geochemical fractions of agricultural soils in Gumushane Province, Turkey**
SUNGUR A., Vural A., Gundogdu A., SOYLAK M.
CATENA, vol.184, 2020 (SCI-Expanded)

- V. **Quality Properties of Wheat Breads Incorporated with Dried Sourdoughs Produced with Different Fermentation and Drying Methods**
 Ertop M. H., Ilter S. M., Yilmaz F., Baltaci C., Gundogdu A.
 FOOD SCIENCE AND TECHNOLOGY RESEARCH, vol.24, no.6, pp.971-980, 2018 (SCI-Expanded)
- VI. **Modeling of Co(II) adsorption by artificial bee colony and genetic algorithm**
 ÖZTÜRK N., Senturk H. B., GÜNDOĞDU A., Durang C.
 MEMBRANE AND WATER TREATMENT, vol.9, no.5, pp.363-371, 2018 (SCI-Expanded)
- VII. **Adsorption of Cu(II) ions from aqueous solution by hazelnut husk activated carbon prepared with potassium acetate**
 Imamoglu M., Ozturk A., Aydin S., Manzak A., Gundogdu A., DURAN C.
 JOURNAL OF DISPERSION SCIENCE AND TECHNOLOGY, vol.39, no.8, pp.1144-1148, 2018 (SCI-Expanded)
- VIII. **Environmental impact of Gumushane City, Turkey, waste area in terms of heavy metal pollution**
 Vural A., Gundogdu A., Akpınar I., Baltaci C.
 NATURAL HAZARDS, vol.88, no.2, pp.867-890, 2017 (SCI-Expanded)
- IX. **Investigation of Hydroxymethylfurfural Formation in Herle**
 Baltaci C., Ilyasoglu H., Gundogdu A., Ucuncu O.
 International Journal of Food Properties, vol.19, no.12, pp.2761-2768, 2016 (SCI-Expanded)
- X. **A Novel Carrier Element-free Co-precipitation Method for Separation/Preconcentration of Lead and Cadmium Ions from Environmental Matrices**
 BULUT V. N., Demirci H., ÖZDEŞ D., GÜNDOĞDU A., BEKİRCAN O., SOYLAK M., DURAN C.
 ENVIRONMENTAL PROGRESS & SUSTAINABLE ENERGY, vol.35, no.6, pp.1709-1715, 2016 (SCI-Expanded)
- XI. **SELECTIVE SEPARATION, PRECONCENTRATION AND DETERMINATION OF Pd(II) IONS IN ENVIRONMENTAL SAMPLES BY COPRECIPITATION WITH A 1,2,4-TRIAZOLE DERIVATIVE**
 ÖZDEŞ D., DURAN C., SERENCAM H., Sahin D., GÜNDOĞDU A., SOYLAK M.
 BULLETIN OF THE CHEMICAL SOCIETY OF ETHIOPIA, vol.29, no.1, pp.1-10, 2015 (SCI-Expanded)
- XII. **ASSESSMENT OF KINETICS, THERMODYNAMICS AND EQUILIBRIUM PARAMETERS OF CR(VI) BIOSORPTION ONTO Pinus brutia TEN**
 Ozdes D., Gundogdu A., Kemer B., DURAN C., KÜÇÜK M., SOYLAK M.
 CANADIAN JOURNAL OF CHEMICAL ENGINEERING, vol.92, no.1, pp.139-147, 2014 (SCI-Expanded)
- XIII. **Separation and pre-concentration of palladium(II) from environmental and industrial samples by formation of a derivative of 1,2,4-triazole complex on Amberlite XAD-2010 resin**
 Serencam H., BULUT V. N., Tufekci M., Gundogdu A., DURAN C., Hamza S., SOYLAK M.
 INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.93, no.14, pp.1484-1499, 2013 (SCI-Expanded)
- XIV. **Physicochemical characteristics of a novel activated carbon produced from tea industry waste**
 Gundogdu A., DURAN C., Senturk H. B., SOYLAK M., Imamoglu M., ÖNAL Y.
 JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.104, pp.249-259, 2013 (SCI-Expanded)
- XV. **HEAVY METAL ANALYSIS BY MOSS SPECIES IN THE BLACK SEA REGION OF TURKEY**
 Koz B., ÇEVİK U., BULUT V. N., Kaya S., Gundogdu A., Celik N.
 FRESERIUS ENVIRONMENTAL BULLETIN, vol.22, pp.1287-1295, 2013 (SCI-Expanded)
- XVI. **Adsorption of Phenol from Aqueous Solution on a Low-Cost Activated Carbon Produced from Tea Industry Waste: Equilibrium, Kinetic, and Thermodynamic Study**
 Gundogdu A., DURAN C., Senturk H. B., SOYLAK M., Ozdes D., Serencam H., Imamoglu M.
 JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.57, no.10, pp.2733-2743, 2012 (SCI-Expanded)
- XVII. **Dehydrated hazelnut husk carbon: a novel sorbent for removal of Ni(II) ions from aqueous solution**
 Sivrikaya S., Albayrak S., Imamoglu M., Gundogdu A., DURAN C., Yildiz H.
 DESALINATION AND WATER TREATMENT, vol.50, pp.2-13, 2012 (SCI-Expanded)
- XVIII. **Preconcentration of Cd(II) and Cu(II) ions by coprecipitation without any carrier element in some food and water samples**
 DURAN C., Ozdes D., Sahin D., BULUT V. N., Gundogdu A., SOYLAK M.
 MICROCHEMICAL JOURNAL, vol.98, no.2, pp.317-322, 2011 (SCI-Expanded)

- XIX. **Kinetics and Isotherm Analysis of Basic Dyes Adsorption onto Almond Shell (*Prunus dulcis*) as a Low Cost Adsorbent**
DURAN C., Ozdes D., Gundogdu A., Senturk H. B.
JOURNAL OF CHEMICAL AND ENGINEERING DATA, vol.56, no.5, pp.2136-2147, 2011 (SCI-Expanded)
- XX. **Tea-industry waste activated carbon, as a novel adsorbent, for separation, preconcentration and speciation of chromium**
DURAN C., Ozdes D., Gundogdu A., Imamoglu M., Senturk H. B.
ANALYTICA CHIMICA ACTA, vol.688, no.1, pp.75-83, 2011 (SCI-Expanded)
- XXI. **Assessment of water quality parameters in the stream Galyan, Trabzon, Turkey**
BULUT V. N., BAYRAM A., GUNDOĞDU A., SOYLAK M., Tufekci M.
ENVIRONMENTAL MONITORING AND ASSESSMENT, vol.165, no.1-4, pp.1-13, 2010 (SCI-Expanded)
- XXII. **Determination of Some Elements in Moss Samples from North Eastern Anatolia, Turkey**
ÖZDEMİR T., Apaydin G., Mendil D., BULUT V. N., Cengiz E., GÜNDOĞDU A., Aylikci V.
ASIAN JOURNAL OF CHEMISTRY, vol.22, no.1, pp.346-352, 2010 (SCI-Expanded)
- XXIII. **A TRIAZOLE DERIVATIVE AS A NEW ACID-BASE INDICATOR**
BULUT V. N., DURAN C., GÜNDOĞDU A., SOYLAK M., YILDIRIM N., Tufekci M.
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- XXIV. **Evaluation of Adsorption Characteristics of Malachite Green onto Almond Shell (*Prunus dulcis*)**
Ozdes D., GÜNDOĞDU A., DURAN C., Senturk H. B.
SEPARATION SCIENCE AND TECHNOLOGY, vol.45, no.14, pp.2076-2085, 2010 (SCI-Expanded)
- XXV. **Removal of phenol from aqueous solutions by adsorption onto organomodified Tirebolu bentonite: Equilibrium, kinetic and thermodynamic study**
Senturk H. B., Ozdes D., GÜNDOĞDU A., DURAN C., SOYLAK M.
JOURNAL OF HAZARDOUS MATERIALS, vol.172, no.1, pp.353-362, 2009 (SCI-Expanded)
- XXVI. **Biosorption of Pb(II) ions from aqueous solution by pine bark (*Pinus brutia* Ten.)**
GÜNDOĞDU A., Ozdes D., DURAN C., BULUT V. N., SOYLAK M., Senturk H. B.
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- XXVII. **Removal of fluoride ions from aqueous solution by waste mud**
Kemer B., Ozdes D., GÜNDOĞDU A., BULUT V. N., DURAN C., SOYLAK M.
JOURNAL OF HAZARDOUS MATERIALS, vol.168, pp.888-894, 2009 (SCI-Expanded)
- XXVIII. **Carrier element-free coprecipitation with 3-phenyl-4-o-hydroxybenzylidenamino-4,5-dihydro-1,2,4-triazole-5-one for separation/preconcentration of Cr(III), Fe(III), Pb(II) and Zn(II) from aqueous solutions**
DURAN C., BULUT V. N., GÜNDOĞDU A., Ozdes D., YILDIRIM N., SOYLAK M., Senturk H. B., Elci L.
JOURNAL OF HAZARDOUS MATERIALS, vol.167, pp.294-299, 2009 (SCI-Expanded)
- XXIX. **Removal of Pb(II) ions from aqueous solution by a waste mud from copper mine industry: Equilibrium, kinetic and thermodynamic study**
Ozdes D., GÜNDOĞDU A., Kemer B., DURAN C., Senturk H. B., SOYLAK M.
JOURNAL OF HAZARDOUS MATERIALS, vol.166, pp.1480-1487, 2009 (SCI-Expanded)
- XXX. **Carrier element-free coprecipitation (CEFC) method for the separation, preconcentration and speciation of chromium using an isatin derivative**
BULUT V. N., Ozdes D., Bekircan C., GÜNDOĞDU A., DURAN C., SOYLAK M.
ANALYTICA CHIMICA ACTA, vol.632, no.1, pp.35-41, 2009 (SCI-Expanded)
- XXXI. **A Novel Method for Speciation of Chromium: Coprecipitation Without Carrier Element by Using a Triazole Derivative**
DURAN C., BULUT V. N., Ozdes D., GÜNDOĞDU A., SOYLAK M.
JOURNAL OF AOAC INTERNATIONAL, vol.92, no.1, pp.257-262, 2009 (SCI-Expanded)
- XXXII. **Biosorption of Heavy Metals by *Anoxybacillus gonensis* Immobilized on Diaion HP-2MG**
DURAN C., Bulut V. N., Gundogdu A., SOYLAK M., BELDÜZ A. O., Beris F. S.
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- XXXIII. **A new approach to separation and pre-concentration of some trace metals with co-precipitation**

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BULUT V. N., DURAN C., GÜNDOĞDU A., SOYLAK M., YILDIRIM N., Elci L.
TALANTA, vol.76, no.2, pp.469-474, 2008 (SCI-Expanded)

- XXXIV. **Analysis of mosses along Sarp-Samsun highway in Turkey**
Koz B., ÇEVİK U., Ozdemir T., DURAN C., KAYA S., GÜNDOĞDU A., Celik N.
JOURNAL OF HAZARDOUS MATERIALS, vol.153, pp.646-654, 2008 (SCI-Expanded)
- XXXV. **Removal of cadmium from aqueous solution by Nordmann fir (*Abies nordmanniana* (Stev.) Spach. Subsp *nordmanniana*) leaves**
Serencam H., GÜNDOĞDU A., Uygur Y., Kemer B., Bulut V. N., DURAN C., SOYLAK M., Tufekci M.
BIORESOURCE TECHNOLOGY, vol.99, no.6, pp.1992-2000, 2008 (SCI-Expanded)
- XXXVI. **Mineral composition of selected honeys from Turkey**
KOLAYLI S., Kongur N., GÜNDOĞDU A., Kemer B., DURAN C., ALİYAZICIOĞLU R.
ASIAN JOURNAL OF CHEMISTRY, vol.20, no.3, pp.2421-2425, 2008 (SCI-Expanded)
- XXXVII. **A new pH indicator based on 2,5-diaryl-1-salicylideneamino-1,3,4-triazole derivative**
Gündoğdu A., Bulut V. N., Duran C., Kemer B., Bekircan O., Soylak M.
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- XXXVIII. **Separation and enrichment of gold(III) from environmental samples prior to its flame atomic absorption spectrometric determination**
Senturk H. B., Gundogdu A., Bulut V. N., Duran C., Soylak M., Elci L., Tufekci M.
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- XXXIX. **A multi-element solid-phase extraction method for trace metals determination in environmental samples on Amberlite XAD-2000**
Bulut V. N., Gundogdu A., Duran C., Senturk H. B., Soylak M., Elci L., Tufekci M.
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- XL. **Solid-phase extraction of Mn(II), Co(II), Ni(II), Cu(II), Cd(II) and Pb(II) ions from environmental samples by flame atomic absorption spectrometry (FAAS)**
Duran C., Gundogdu A., Bulut V. N., Soylak M., Elci L., Senturk H. B., Tufekci M.
JOURNAL OF HAZARDOUS MATERIALS, vol.146, pp.347-355, 2007 (SCI-Expanded)
- XLI. **Speciation of Cr(III) and Cr(VI) in environmental samples after solid phase extraction on amberlite XAD-2000**
Duran C., Soylak M., Bulut V. N., Gundogdu A., Tufekci M., Elcid L., Senturk H. B.
JOURNAL OF THE CHINESE CHEMICAL SOCIETY, vol.54, pp.625-634, 2007 (SCI-Expanded)
- XLII. **Determination of some trace metals in environmental samples by flame AAS following solid phase extraction with amberlite XAD-2000 resin after complexing with 8-hydroxyquinoline**
Duran C., Senturk H. B., Gundogdu A., Bulut V. N., Elci L., Soylak M., Tufekci M., Uygur Y.
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- XLIII. **Simultaneous preconcentration of trace metals in environmental samples using amberlite XAD-2010/8-hydroxyquinoline system**
Gundogdu A., Duran C., Senturk H. B., Elci L., Soylak M.
ACTA CHIMICA SLOVENICA, vol.54, no.2, pp.308-316, 2007 (SCI-Expanded)
- XLIV. **Heavy metals in compostable wastes: A case study in Gumushane, Turkey**
NAS S. S., Bayram A., BULUT V. N., GUENDOĞDU A.
FRESENIUS ENVIRONMENTAL BULLETIN, vol.16, no.9A, pp.1069-1075, 2007 (SCI-Expanded)

Articles Published in Other Journals

- I. **Adsorption Of Methylene Blue from Aqueous Solution with Sulfuric Acid Activated Corn Cobs: Equilibrium, Kinetics, and Thermodynamics Assessment**
BOZBEYOĞLU P., DURAN C., BALTACI C., GÜNDOĞDU A.
Hittite Journal of Science and Engineering, vol.7, no.3, pp.239-256, 2020 (Peer-Reviewed Journal)

II. İÇME SUYU ARITMA TESİSİ ATIK ÇAMURU ÜZERİNE METİLEN MAVİSİ ADSORPSİYONU VE YAPAY SİNİR AĞLARI İLE MODELLENMESİ

ÖZTÜRK N., ŞENTÜRK H. B., GÜNDOĞDU A., DURAN C.

Uludağ Üniversitesi Mühendislik Fakültesi Dergisi, vol.25, no.2, pp.1083-1104, 2020 (Peer-Reviewed Journal)

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Non Academic Experience

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Zafer Ticaret