

Prof. MÜRRET VOLKAN

Personal Information

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Education Information

Doctorate, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, Turkey 1980 - 1985

Dissertations

Doctorate, "Preparation and Evaluation of a New Surface Modified Silica Resin for Preconcentration of Trace Elements in Sea Water, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1985

Academic Titles / Tasks

Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Chemistry, 1979 - Continues

Advising Theses

VOLKAN M., The synthesis and characterization of thioglycolic acid and thiourea capped fluorescent zinc sulfide nanoparticles, Postgraduate, C.MERTOĞLU(Student), 2021

VOLKAN M., Determination of sapropterin dihydrochloride in solid dosage forms by visible spectroscopy, Postgraduate, B.Arabacı(Student), 2019

VOLKAN M., Spreparation of multifunctional materials for photocatalytic applications, Doctorate, C.Uzun(Student), 2019

VOLKAN M., A Plasmonic method for the determination of serotonin, Postgraduate, B.Avcı(Student), 2019

GÜRAY N. T., VOLKAN M., Investigation of in vitro cytotoxic effects of heparin coated iron oxide nanoparticles combined with TPP-DCA on human hepatocellular carcinoma cell line HEPG2, Postgraduate, B.EZGİ(Student), 2018

ÖNAL A. M., VOLKAN M., Electrochemical detection of dopamine in the presence of excess ascorbic acid using glassy carbon electrodes modified with conducting polymers, Postgraduate, S.ŞANLI(Student), 2018

VOLKAN M., GÜRAY N. T., Heparin coated and 2-deoxy-D-glucose conjugated iron oxide nanoparticles for biologic applications, Doctorate, Y.AKPINAR(Student), 2017

VOLKAN M., Langmuir and langmuir blodgett studies of cadmium selenide (CdSe) quantum dots, Postgraduate, Z.SELVİ(Student), 2017

VOLKAN M., Synthesis and characterization of ultra-small gadolinium oxide nanoparticles, Postgraduate, P.TASMAN(Student), 2017

VOLKAN M., Stabilization of Langmuir and Langmuir Blodgett cetyltrimethylammonium bromide monolayers by gluing with polystyrene sulfonate, Postgraduate, N.NEHİR(Student), 2015

VOLKAN M., GÜRAY N. T., Applications of the multifunctional magnetic nanoparticles for development of molecular therapies for the breast cancer, Doctorate, E.AŞIK(Student), 2015

VOLKAN M., Ferritin nanocage as a magnetic carrier /, Doctorate, T.NUR(Student), 2015

VOLKAN M., Synthesis of dopamine functionalized silver nanoparticles together with possible interactions between silver and dopamine having different oxidation forms, Postgraduate, E.KANBERTAY(Student), 2013

VOLKAN M., Raman-dye-labeled nanoparticle probes for DNA studies, Postgraduate, C.UZUN(Student), 2012

VOLKAN M., ÖZKAN N., Silica coating of monodisperse hydrophobic magnetite nanoparticles through reverse microemulsion techniques, Postgraduate, Z.ERGÜL(Student), 2012

VOLKAN M., Raman dye-labeled nanoparticles probes for DNA studies, Postgraduate, C.Uzun(Student), 2012

VOLKAN M., The effect of strontium-containing silicon-doped hydroxyapatite ceramics on bone defect healing, Doctorate, G.KERMAN(Student), 2011

VOLKAN M., Preparation and surface modification of noble metal nanoparticles with tunable optical properties for SERS applications, Doctorate, M.KAYA(Student), 2011

VOLKAN M., Preparation and characterization of surface enhanced raman scattering substrate through electro deposition of silver-PEDOT film on ITO glass surface, Postgraduate, Ü.DOĞAN(Student), 2011

VOLKAN M., KOCABIYIK S., Application of surface-enhanced raman scattering (SERS) method for genetic analyses, Doctorate, S.KARABIÇAK(Student), 2011

VOLKAN M., ÖZKAN N., Preparation of silica coated cobalt ferrite magnetic nanoparticles for the purification of histidine-tagged proteins, Postgraduate, G.AYGAR(Student), 2011

VOLKAN M., Sensitive and quantitative determination of cysteine by surface enhanced Raman spectrometry based on their induced aggregates of gold and silver nanostructures, Postgraduate, R.YÜKSEL(Student), 2011

VOLKAN M., Preparation and surface modification of noble metal nanoparticles with tunable optical properties for SERS applications, Doctorate, M.Kaya(Student), 2011

VOLKAN M., Preparation and characterization of silica coated magnetite nanoparticles and labeling with nonradioactive Re as a surrogate of Tc-99m for magnetically targeted imaging, Postgraduate, Ü.Zengin(Student), 2010

VOLKAN M., Spectrofluorimetric determination of organic and inorganic selenium in vitamin supplements after cloud point extraction, Postgraduate, M.MADEN(Student), 2010

VOLKAN M., Production and characterization of maghemite nanoparticles, Doctorate, Ö.ACARBAŞ(Student), 2010

VOLKAN M., Preparation and characterization of magnetite nanoparticles by thermal decomposition method for their potential use in tumor imaging, Postgraduate, Z.TATLICI(Student), 2010

VOLKAN M., Preparation and characterization of silica coated magnetite nanoparticles and labeling nonradioactive Re as a surrogate of Tc-99m for magnetically targeted imaging, Postgraduate, Ü.ZENGİN(Student), 2010

VOLKAN M., Preparation and characterization of silver sers nanotags, Postgraduate, S.KİBAR(Student), 2010

VOLKAN M., The use of gold and silver nanoparticles for surface enhanced fluorescence (SEF) of dyes, Postgraduate, T.ÖZTÜRK(Student), 2010

VOLKAN M., Preparation of gold decorated cobalt-silica core-shell nanoparticles for surface enhanced raman scattering applications, Postgraduate, L.SEZEN(Student), 2010

VOLKAN M., ATAMAN O. Y., Speciation studies using HPLC-ICP-MS and HPLC-ES-MS, Doctorate, S.BAKIRDERE(Student), 2009

VOLKAN M., Synthesis of colloidal silver particles with different sizes by seeding approach for surface enhanced raman scattering (SERS) studies, Postgraduate, R.SANCI(Student), 2009

VOLKAN M., The use of n-polyethereal polypyrroles in preconcentration and surface enhanced raman scattering studies, Postgraduate, B.KÖKSEL(Student), 2009

VOLKAN M., Preparation and characterization of magnetic nanoparticles, Postgraduate, B.KÜÇÜK(Student), 2009

KARAKAŞ G., VOLKAN M., Preparation and characterization of titania-silica-gold thin films over its substrates for laccase immobilization, Postgraduate, Z.EKER(Student), 2009

VOLKAN M., Spectrofluorimetric determination of selenium after cloud point extraction, Postgraduate, N.GÜLER(Student), 2008

VOLKAN M., Immobilization studies utilizing solid supports for the determination of fructose by dansylaminophenylboronic acid(dapb acid) and chromate by diphenylcarbazide(dpc), Postgraduate, M.BULUT(Student), 2006

VOLKAN M., Fluorescence determination of monosaccharides and catecholamines by using dansylaminophenyl boronic acid, Postgraduate, E.SEÇKİN(Student), 2004

VOLKAN M., On-line preconcentration, speciation and determination of chromium by flame atomic absorption spectrometry(faas) and chemiluminescence, Postgraduate, S.Sürdem(Student), 2004

VOLKAN M., On-line preconcentration, speciation and determination of chromium by flame atomic absorption

spectrometry (FAAS) and chemiluminescence (CL), Postgraduate, S.SÜRDEM(Student), 2004

VOLKAN M., Determination of germanium at trace levels by chloride generation atomic absorption spectrometry, Postgraduate, M.KAYA(Student), 2004

VOLKAN M., Preconcentration and speciation of iron by using renewable surface flow injection analysis system (RS-FIA), Postgraduate, S.TEKİN(Student), 2003

VOLKAN M., Preconcentration and speciation of iron by using renewable surface flow injection system (RS-FIA), Postgraduate, S.Tekin(Student), 2003

VOLKAN M., Preconcentration of germanium by surfactant (Cloud point extraction) and determination by HGAAS, Postgraduate, A.ELİF(Student), 1999

VOLKAN M., Use of sol-gel beads in preconcentration, Postgraduate, T.Eroğlu(Student), 1999

VOLKAN M., Preconcentration of germanium with mercapto resin and determination by HGAAS, Postgraduate, G.GÖKTÜRK(Student), 1999

VOLKAN M., Preconcentration of germanium with mercapto resin and determination by hydride generation atomic absorption spectrometry, Postgraduate, G.Göktürk(Student), 1999

VOLKAN M., Use of sol-gel beads in preconcentration, Postgraduate, T.EROĞLU(Student), 1999

VOLKAN M., Sample preparation methods for the determination of arsenic, copper, iron and lead in white sugar by atomic absorption spectroscopy, Postgraduate, J.LEBLEBİCİ(Student), 1994

VOLKAN M., Sample preparation methods for the determination of arsenic, copper, iron and lead in white sugar by atomic absorption spectroscopy, Postgraduate, J.Leblebici(Student), 1994

VOLKAN M., Determination of germanium in çinkur zinc plant residue, Postgraduate, H.USAMA(Student), 1992

VOLKAN M., Selective preconcentration and determination of Sb (III) in natural waters using mercapto-resin, Postgraduate, A.EMİN(Student), 1988

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Sialic Acid-Functionalized Gold Nanoparticles for Sensitive and Selective Colorimetric Determination of Serotonin**
AVCI B., Akpınar Y., ERTAŞ G., VOLKAN M.
ACS Omega, vol.9, no.22, pp.23832-23842, 2024 (SCI-Expanded)
- II. **The potential application of gold-apoferritin nanocages conjugated with 2-amino-2-deoxy-glucose for imaging of breast cancer cells**
Aslan T. N., Asik E., Güray N. T., Volkan M.
JOURNAL OF BIOLOGICAL INORGANIC CHEMISTRY, vol.25, no.8, pp.1139-1152, 2020 (SCI-Expanded)
- III. **Development of a solid-phase microextraction LC-MS/MS method for determination of oxidative stress biomarkers in biofluids**
Kahremanoglu K., Temel E. R., Korkut T. E., Nalbant A. A., BAŞTUĞ AZER B., DURUCAN C., VOLKAN M., BOYACI E.
JOURNAL OF SEPARATION SCIENCE, vol.43, pp.1925-1933, 2020 (SCI-Expanded)
- IV. **EF2-kinase targeted cobalt-ferrite siRNA-nanotherapy suppresses BRCA1-mutated breast cancer**
Asik E., Akpınar Y., Caner A., Kahraman N., GÜRAY N. T., Volkan M., Albarracins C., Pataer A., Arun B., Ozpolat B.
NANOMEDICINE, vol.14, no.17, pp.2315-2338, 2019 (SCI-Expanded)
- V. **Gold-assembled silica-coated cobalt nanoparticles as efficient magnetic separation units and surface-enhanced Raman scattering substrate**
YILDIRIM L. S., KAYA M., VOLKAN M.
TURKISH JOURNAL OF CHEMISTRY, vol.43, no.1, pp.307-318, 2019 (SCI-Expanded)
- VI. **Cellular uptake and apoptotic potential of rhenium labeled magnetic protein cages in MDA-MB-231 cells**
Asik E., Aslan T. N., GÜRAY N. T., VOLKAN M.
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.63, pp.127-134, 2018 (SCI-Expanded)
- VII. **Selenium speciation in chicken breast samples from inorganic and organic selenium fed chickens using high performance liquid chromatography-inductively coupled plasma-mass spectrometry**

BAKIRDERE S., VOLKAN M., ATAMAN O. Y.

JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.71, pp.28-35, 2018 (SCI-Expanded)

- VIII. **A Novel Acetylcholinesterase Biosensor: Core-Shell Magnetic Nanoparticles Incorporating a Conjugated Polymer for the Detection of Organophosphorus Pesticides**
Cancar H. D., SÖYLEMEZ S., AKPINAR Y., KESİK M., Goker S., Gunbas G., VOLKAN M., Toppare L.
ACS APPLIED MATERIALS & INTERFACES, vol.8, no.12, pp.8058-8067, 2016 (SCI-Expanded)
- IX. **Cellular uptake, genotoxicity and cytotoxicity of cobalt ferrite magnetic nanoparticles in human breast cells**
Asik E., Akpinar Y., Guray T., Iscan M., ÇAKMAK DEMİRCİGİL G., VOLKAN M.
TOXICOLOGY RESEARCH, vol.5, no.6, pp.1649-1662, 2016 (SCI-Expanded)
- X. **Preparation and labeling of surface-modified magnetoferritin protein cages with a rhenium(I) carbonyl complex for magnetically targeted radiotherapy**
Aslan T. N., Asik E., VOLKAN M.
RSC ADVANCES, vol.6, no.11, pp.8860-8869, 2016 (SCI-Expanded)
- XI. **2-Amino-2-deoxy-glucose conjugated cobalt ferrite magnetic nanoparticle (2DG-MNP) as a targeting agent for breast cancer cells**
Asik E., Aslan T. N., VOLKAN M., GÜRAY N. T.
ENVIRONMENTAL TOXICOLOGY AND PHARMACOLOGY, vol.41, pp.272-278, 2016 (SCI-Expanded)
- XII. **Preparation of silica coated cobalt ferrite magnetic nanoparticles for the purification of histidine-tagged proteins**
Aygır G., Kaya M., Özkan N., Kocabıyık S., Volkan M.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.87, pp.64-71, 2015 (SCI-Expanded)
- XIII. **Speciation of Selenium in Supplements by High Performance Liquid Chromatography-Inductively Coupled Plasma-Mass Spectrometry**
BAKIRDERE S., Volkan M., ATAMAN O. Y.
ANALYTICAL LETTERS, vol.48, no.9, pp.1511-1523, 2015 (SCI-Expanded)
- XIV. **Ruthenium(0) nanoparticles supported on magnetic silica coated cobalt ferrite: Reusable catalyst in hydrogen generation from the hydrolysis of ammonia-borane**
Akbarak S., KAYA M., VOLKAN M., ÖZKAR S.
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, vol.394, pp.253-261, 2014 (SCI-Expanded)
- XV. **Palladium(0) nanoparticles supported on silica-coated cobalt ferrite: A highly active, magnetically isolable and reusable catalyst for hydrolytic dehydrogenation of ammonia borane**
Akbarak S., KAYA M., VOLKAN M., ÖZKAR S.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.147, pp.387-393, 2014 (SCI-Expanded)
- XVI. **Influence of ultrasonically assisted synthesis on particle size of magnetic nanoparticles**
KÜÇÜK B., ÖZKAN N., VOLKAN M.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.74, no.10, pp.1426-1432, 2013 (SCI-Expanded)
- XVII. **Ag nanostructures on a poly(3,4-ethylenedioxythiophene) film prepared with electrochemical route: A controllable roughened SERS substrate with high repeatability and stability**
Dogan U., KAYA M., CİHANER A., VOLKAN M.
ELECTROCHIMICA ACTA, vol.85, pp.220-227, 2012 (SCI-Expanded)
- XVIII. **New Approach for the Surface Enhanced Resonance Raman Scattering (SERRS) Detection of Dopamine at Picomolar (pM) Levels in the Presence of Ascorbic Acid**
Kayat M., VOLKAN M.
ANALYTICAL CHEMISTRY, vol.84, no.18, pp.7729-7735, 2012 (SCI-Expanded)
- XIX. **Copper(0) Nanoparticles Supported on Silica-Coated Cobalt Ferrite Magnetic Particles: Cost Effective Catalyst in the Hydrolysis of Ammonia-Borane with an Exceptional Reusability Performance**
KAYA M., Zahmakıran M., ÖZKAR S., VOLKAN M.
ACS APPLIED MATERIALS & INTERFACES, vol.4, no.8, pp.3866-3873, 2012 (SCI-Expanded)
- XX. **Speciation of selenium in vitamin tablets using spectrofluorometry following cloud point extraction**
Guler N., Maden M., Bakirdere S., ATAMAN O. Y., VOLKAN M.

- FOOD CHEMISTRY, vol.129, no.4, pp.1793-1799, 2011 (SCI-Expanded)
- XXI. **Preparation and characterization of surface modified gamma-Fe₂O₃ (maghemite)-silica nanocomposites used for the purification of benzaldehyde lyase**
TURAL B., Sopaci S. B., ÖZKAN N., DEMİR A. G., Volkan M.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.72, no.8, pp.968-973, 2011 (SCI-Expanded)
- XXII. **Germanium determination by flame atomic absorption spectrometry: An increased vapor pressure-chloride generation system**
Kaya M., VOLKAN M.
TALANTA, vol.84, no.1, pp.122-126, 2011 (SCI-Expanded)
- XXIII. **Surface-enhanced Raman scattering (SERS) studies on silver nanorod substrates**
Sanci R., Volkan M.
SENSORS AND ACTUATORS B-CHEMICAL, vol.139, no.1, pp.150-155, 2009 (SCI-Expanded)
- XXIV. **Preparation and characterization of polymer coated superparamagnetic magnetite nanoparticle agglomerates**
TURAL B., ÖZKAN N., VOLKAN M.
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.70, no.5, pp.860-866, 2009 (SCI-Expanded)
- XXV. **Carboligation reactions with benzaldehyde lyase immobilized on superparamagnetic solid support**
Sopaci S. B., Turan I. S., Tural B., Volkan M., DEMİR A. G.
ORGANIC & BIOMOLECULAR CHEMISTRY, vol.7, no.8, pp.1658-1664, 2009 (SCI-Expanded)
- XXVI. **Synthesis of N-polyethereal polypyrroles and their application for the preconcentration of rare earth ions**
Koksel B., CİHANER A., Kaya M., Volkan M., ÖNAL A. M.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.108, no.4, pp.2707-2711, 2008 (SCI-Expanded)
- XXVII. **Preparation and characterization of ni-nitrilotriacetic acid bearing Poly(Methacrylic acid) coated superparamagnetic magnetite nanoparticles**
TURAL B., KAYA M., Oezkan N., Volkan M.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.8, no.2, pp.695-701, 2008 (SCI-Expanded)
- XXVIII. **Silver nanoparticle-doped polyvinyl alcohol coating as a medium for surface-enhanced Raman scattering analysis**
Karabicak S., Kaya M., Vo-Dinh T., Volkan M.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.8, no.2, pp.955-960, 2008 (SCI-Expanded)
- XXIX. **Rapid synthesis and characterization of maghemite nanoparticles**
Tural B., Oezenbas M., ATALAY S., Volkan M.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.8, no.2, pp.861-866, 2008 (SCI-Expanded)
- XXX. **Flow injection fluorescence determination of dopamine using a photo induced electron transfer (PET) boronic acid derivative**
Seckin Z., Volkan M.
ANALYTICA CHIMICA ACTA, vol.547, no.1, pp.104-108, 2005 (SCI-Expanded)
- XXXI. **Effect of nitric acid for equal stabilization and sensitivity of different selenium species in electrothermal atomic absorption spectrometry**
Sahin F., Volkan M., Ataman O.
ANALYTICA CHIMICA ACTA, vol.547, no.1, pp.126-131, 2005 (SCI-Expanded)
- XXXII. **Investigation of acetyl ferrocene migration from hydroxyl-terminated polybutadiene based elastomers by means of ultraviolet-visible and atomic absorption spectroscopic techniques**
Unver A., Dilsiz N., Volkan M., Akovali G.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.96, no.5, pp.1654-1661, 2005 (SCI-Expanded)
- XXXIII. **A sol-gel derived AgCl photochromic coating on glass for SERS chemical sensor application**
Volkan M., Stokes D., Vo-Dinh T.
SENSORS AND ACTUATORS B-CHEMICAL, vol.106, no.2, pp.660-667, 2005 (SCI-Expanded)
- XXXIV. **Selective pre-concentration of selenite from aqueous samples using mercapto-silica**
Sahin F., Volkan M., Howard A., Ataman O.

- TALANTA, vol.60, no.5, pp.1003-1009, 2003 (SCI-Expanded)
- XXXV. **Evaluation of dissolution methods in the presence of high chloride content for the determination of germanium in geological matrices by hydride generation atomic absorption spectrometry**
Abbasi H., Eroglu A., Anwari M., Volkan M.
ANALYTICAL SCIENCES, vol.17, no.4, pp.559-560, 2001 (SCI-Expanded)
- XXXVI. **Speciation and preconcentration of inorganic tellurium from waters using a mercaptosilica microcolumn and determination by hydride generation atomic absorption spectrometry**
Korez A., Eroglu A., Volkan M., Ataman O.
JOURNAL OF ANALYTICAL ATOMIC SPECTROMETRY, vol.15, no.12, pp.1599-1605, 2000 (SCI-Expanded)
- XXXVII. **Surface-enhanced Raman of dopamine and neurotransmitters using sol-gel substrates and polymer-coated fiber-optic probes**
Volkan M., Stokes D., Vo-Dinh T.
APPLIED SPECTROSCOPY, vol.54, no.12, pp.1842-1848, 2000 (SCI-Expanded)
- XXXVIII. **Fiber optic sensors using novel substrates for hydrogen sulfide determination by solid surface fluorescence**
Eroglu A., Volkan M., Ataman O.
TALANTA, vol.53, no.1, pp.89-101, 2000 (SCI-Expanded)
- XXXIX. **Preconcentration of germanium on mercapto-modified silica gel**
Gokturk G., Delzende M., Volkan M.
SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.55, no.7, pp.1063-1071, 2000 (SCI-Expanded)
- XL. **Cloud point preconcentration of germanium and determination by hydride generation atomic absorption spectrometry**
Boyukbayram A., Volkan M.
SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.55, no.7, pp.1073-1080, 2000 (SCI-Expanded)
- XLI. **A new surface-enhanced Raman scattering substrate based on silver nanoparticles in sol-gel**
Volkan M., Stokes D., Vo-Dinh T.
JOURNAL OF RAMAN SPECTROSCOPY, vol.30, no.12, pp.1057-1065, 1999 (SCI-Expanded)
- XLII. **Sample preparation for arsenic, copper, iron, and lead determination in sugar**
Leblebici J., Volkan M.
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.46, no.1, pp.173-177, 1998 (SCI-Expanded)
- XLIII. **Hydrogen sulfide determination by solid surface luminescence**
Eroglu A., Volkan M., Bayramh E., Ataman O., Mark H.
FRESENIUS JOURNAL OF ANALYTICAL CHEMISTRY, vol.355, pp.667-671, 1996 (SCI-Expanded)
- XLIV. **Determination of germanium by AAS in chloride-containing matrices**
Anwari M., Abbasi H., Volkan M., Ataman O.
FRESENIUS JOURNAL OF ANALYTICAL CHEMISTRY, vol.355, pp.284-288, 1996 (SCI-Expanded)
- XLV. **DETERMINATION OF SELENIUM IN DIET BY ZEEMAN EFFECT GRAPHITE-FURNACE ATOMIC-ABSORPTION SPECTROMETRY FOR CALCULATION OF DAILY DIETARY INTAKES**
ARI U., VOLKAN M., ARAS N.
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.39, no.12, pp.2180-2183, 1991 (SCI-Expanded)
- XLVI. **PRECONCENTRATION OF SOME TRACE-METALS FROM SEA-WATER ON A MERCAPTO-MODIFIED SILICA-GEL**
VOLKAN M., ATAMAN O., HOWARD A.
ANALYST, vol.112, no.10, pp.1409-1412, 1987 (SCI-Expanded)
- XLVII. **SELECTIVE PRECONCENTRATION OF ARSENITE ON MERCAPTO-MODIFIED SILICA-GEL**
HOWARD A., VOLKAN M., ATAMAN O.
ANALYST, vol.112, no.2, pp.159-162, 1987 (SCI-Expanded)

- I. **Yüzeyde Güçlendirilmiş Raman Saçılması (YGRS) Metodu ile Proteazom DNA'sının Tanınması**
UZUN C., KARABIÇAK S., KOCABIYIK S., VOLKAN M.
29. Ulusal Kimya Kongresi, Turkey, 10 - 14 September 2017
- II. **Manyetik Hipertermi Tedavisinde Kullanıma Uygun Manyetik Nano Parçacıklarının Hazırlanması**
AKPINAR Y., ÖZTÜRK S., VOLKAN M.
29. Ulusal Kimya Kongresi, Turkey, 10 - 14 September 2017
- III. **Eucaryotic elongation factor 2kinaze is a novel therapeutic target in BRCA1 mutated breast cancer**
VOLKAN M., GÜRAY N. T., Asik E., Lopez-Berestein G., Ozpolat B., Kahraman N.
AACR, 1 - 05 April 2017, vol.77, pp.1125
- IV. **Application of SERS nanotag labeled probes for DNA studies**
UZUN C. N., KOCABIYIK S., VOLKAN M.
22nd IUBMB Congress/37th FEBS Congress, Sevilla, Spain, 4 - 09 September 2012, vol.279, pp.350-351
- V. **Usage of silica coated magnetic nanoparticles and SERS nanotags for gene detection**
Akpınar Y., KAYA M. Ç., VOLKAN M.
22nd IUBMB Congress/37th FEBS Congress, Sevilla, Spain, 4 - 09 September 2012, vol.279, pp.350
- VI. **Determination of proteasome activity using surface enhanced raman scattering (SERS) spectroscopy**
VOLKAN M., KOCABIYIK S., Akpınar Y., UZUN C. N.
22nd IUBMB Congress/37th FEBS Congress, Sevilla, Spain, 4 - 09 September 2012, vol.279, pp.351
- VII. **SULFATION MECHANISM OF TRAVERTINES - EFFECT OF SO2 CONCENTRATION, RELATIVE-HUMIDITY AND TEMPERATURE**
GOTURK H., VOLKAN M., KAHVECI S.
International RILEM/UNESCO Congress on Conservation of Stone and Other Materials: Research - Industry - Media, Paris, France, 29 June - 01 July 1993, pp.83-90

Supported Projects

- TUNCEL S., GÖKMEN A., VOLKAN M., GÖKMEN G. İ., Project Supported by Higher Education Institutions, GC-MS ile Ankara-Ayaş Bölgesindeki Toprak, Su ve Bitki Örneklerinde Organoklorlu Pestisitlerin Türlendirilmesi, 2013 - Continues
- VOLKAN M., GÖKMEN A., ERTAŞ G., GÖKMEN G. İ., Project Supported by Higher Education Institutions, Langmuir Metodu Kullanılarak CdSe Kuantum Noktalarının İnce Filmlerinin Hazırlanması, 2018 - 2019
- VOLKAN M., Project Supported by Higher Education Institutions, Manyetik Olarak Hedefe Yönlendirilmiş Radyoaktif Görüntüleme İçin Re-188 İle İşaretlenmiş Silika Kaplı Magnetit Nanoparçacıkların Hazırlanması Ve Karakterize Edilmesi, 2012 - 2019
- VOLKAN M., Project Supported by Higher Education Institutions, Manyetik Kobalt Ferrit Ve Demiroksit Nanoparçacıkları İle Farklı Hücre Kültürlerinde Toksikite Çalışmaları, 2011 - 2019
- VOLKAN M., Project Supported by Higher Education Institutions, ÇOK KÜÇÜK GADOLİNYUM OKSİT NANOPARTİKÜLLERİNİN SENTEZLENMESİ VE KARAKTERİZASYONU, 2017 - 2017
- VOLKAN M., Project Supported by Higher Education Institutions, DUAL YÖNTEMLİ PET/MRI GÖRÜNTÜLEME SONDALARININ HAZIRLANMASI, 2017 - 2017
- VOLKAN M., Project Supported by Higher Education Institutions, CdSe KUANTUM NOKTALARIN LANGMUIR VE LANGMUIR BLODGETT FİMLERİNİN HAZIRLANMASI, 2017 - 2017
- VOLKAN M., Project Supported by Higher Education Institutions, CVE E VİTAMİNLERİNİN ANTİOKSİDAN KAPASİTESİNİN TAYİNİ İÇİN YENİ BİR YÖNTEM GELİŞTİRME, 2017 - 2017
- ERTAŞ G., TUNCEL S., GÖKMEN A., VOLKAN M., GÖKMEN G. İ., Project Supported by Higher Education Institutions, Maya Hücrelerinde Bor ve Arsenik Elementlerinin Sinerjik ve Antagonistik Etkileri, 2017 - 2017
- TUNCEL S., GÖKMEN A., ERTAŞ G., VOLKAN M., ÖZÇUBUKÇU S., TANYELİ C., GÖKMEN G. İ., Project Supported by Higher Education Institutions, Solid faz mikro ayırma yönteminin çevre ve gıda örneklerinde uygulanarak optimizasyonu ve validasyonu, 2016 - 2016
- VOLKAN M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

VOLKAN M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

VOLKAN M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2016

TUNCEL S., GÖKMEN A., ERTAŞ G., VOLKAN M., GÖKMEN G. İ., Project Supported by Higher Education Institutions, PERSISTENT ORGANICS IN THE AEROSOLS, 2015 - 2015

VOLKAN M., KALAY Y. E., Project Supported by Higher Education Institutions, Fotovoltaik Güneş Gözelerinin Üretimine Yönelik Pirit Nanokristal Sentezi ve Karakterizasyonu, 2015 - 2015

VOLKAN M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

VOLKAN M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

VOLKAN M., Project Supported by Higher Education Institutions, FEN BİLİMLERİ ENSTİTÜSÜ/LİSANSÜSTÜ TEZ PROJESİ, 2014 - 2014

TUNCEL S., GÖKMEN A., ERTAŞ G., VOLKAN M., ÇORUH N., GÖKMEN G. İ., Project Supported by Higher Education Institutions, Kuzey Kıbrıstaki Aerosollerin Fiziksel ve Kimyasal Çalışması, 2014 - 2014

VOLKAN M., Project Supported by Higher Education Institutions, Kobalt silika ve demir oksit nanoparçacıkları ile farklı hücre kültürlerindetoksiste çalışmaları, 2010 - 2010

VOLKAN M., Project Supported by Higher Education Institutions, Yüzejde-Güçlendirilmiş Raman Saçılması Methodu (sers) İle Genomik Analizlerde Sers Nanoetiketlerin Kullanılması, 2010 - 2010

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