

# **Prof. MÜRVET 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.Arabaci(Student), 2019

VOLKAN M., Preparation 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 nanoaparticles 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., Preperation 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 polypyrrroles 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 ito 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. **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., Volkman M.  
JOURNAL OF BIOLOGICAL INORGANIC CHEMISTRY, vol.25, no.8, pp.1139-1152, 2020 (SCI-Expanded)
- II. **Development of a solid-phase microextraction LC-MS/MS method for determination of oxidative stress biomarkers in biofluids**  
Kahremanoğlu 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)
- III. **EF2-kinase targeted cobalt-ferrite siRNA-nanotherapy suppresses BRCA1-mutated breast cancer**  
Asik E., Akpinar Y., Caner A., Kahraman N., GÜRAY N. T., Volkman M., Albarracins C., Pataer A., Arun B., Ozpolat B.  
NANOMEDICINE, vol.14, no.17, pp.2315-2338, 2019 (SCI-Expanded)
- IV. **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)
- V. **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)
- VI. **Selenium speciation in chicken breast samples from inorganic and organic selenium fed chickens using high performance liquid chromatography-inductively coupled plasma-mass spectrometry**  
BAKİRDERE S., VOLKAN M., ATAMAN O. Y.  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, vol.71, pp.28-35, 2018 (SCI-Expanded)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **Cellular uptake, genotoxicity and cytotoxicity of cobalt ferrite magnetic nanoparticles in human breast cells**  
Asik E., Akpinar Y., Guray T., Iscan M., ÇAKMAK DEMİRCİĞİL G., VOLKAN M.  
TOXICOLOGY RESEARCH, vol.5, no.6, pp.1649-1662, 2016 (SCI-Expanded)
- XI. **Preparation of silica coated cobalt ferrite magnetic nanoparticles for the purification of histidine-tagged proteins**  
Aygar G., Kaya M., Özkan N., Kocabiyik S., Volkman M.  
JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.87, pp.64-71, 2015 (SCI-Expanded)
- XII. **Speciation of Selenium in Supplements by High Performance Liquid Chromatography-Inductively Coupled Plasma-Mass Spectrometry**  
BAKIRDERE S., Volkman M., ATAMAN O. Y.  
ANALYTICAL LETTERS, vol.48, no.9, pp.1511-1523, 2015 (SCI-Expanded)
- XIII. **Ruthenium(0) nanoparticles supported on magnetic silica coated cobalt ferrite: Reusable catalyst in hydrogen generation from the hydrolysis of ammonia-borane**  
Akbayrak S., KAYA M., VOLKAN M., ÖZKAR S.  
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, vol.394, pp.253-261, 2014 (SCI-Expanded)
- XIV. **Palladium(0) nanoparticles supported on silica-coated cobalt ferrite: A highly active, magnetically isolable and reusable catalyst for hydrolytic dehydrogenation of ammonia borane**  
Akbayrak S., KAYA M., VOLKAN M., ÖZKAR S.  
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.147, pp.387-393, 2014 (SCI-Expanded)
- XV. **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)
- XVI. **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)
- XVII. **New Approach for the Surface Enhanced 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)
- XVIII. **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., Zahmakiran M., ÖZKAR S., VOLKAN M.  
ACS APPLIED MATERIALS & INTERFACES, vol.4, no.8, pp.3866-3873, 2012 (SCI-Expanded)
- XIX. **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)
- XX. **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., Volkman M.

- JOURNAL OF PHYSICS AND CHEMISTRY OF SOLIDS, vol.72, no.8, pp.968-973, 2011 (SCI-Expanded)
- XXI. 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)
- XXII. Surface-enhanced Raman scattering (SERS) studies on silver nanorod substrates  
Sancı R., Volkam M.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.139, no.1, pp.150-155, 2009 (SCI-Expanded)
- XXIII. 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)
- XXIV. Carboligation reactions with benzaldehyde lyase immobilized on superparamagnetic solid support  
Sopaci S. B., Turan I. S., Tural B., Volkam M., DEMİR A. G.  
ORGANIC & BIOMOLECULAR CHEMISTRY, vol.7, no.8, pp.1658-1664, 2009 (SCI-Expanded)
- XXV. Synthesis of N-polyethereal polypyrroles and their application for the preconcentration of rare earth ions  
Koksel B., CİHANER A., Kaya M., Volkam M., ÖNAL A. M.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.108, no.4, pp.2707-2711, 2008 (SCI-Expanded)
- XXVI. Preparation and characterization of ni-nitrilotriacetic acid bearing Poly(Methacrylic acid) coated superparamagnetic magnetite nanoparticles  
TURAL B., KAYA M., Oezkan N., Volkam M.  
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.8, no.2, pp.695-701, 2008 (SCI-Expanded)
- XXVII. Rapid synthesis and characterization of maghemite nanoparticles  
Tural B., Oezenbas M., ATALAY S., Volkam M.  
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.8, no.2, pp.861-866, 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., Volkam M.  
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.8, no.2, pp.955-960, 2008 (SCI-Expanded)
- XXIX. Effect of nitric acid for equal stabilization and sensitivity of different selenium species in electrothermal atomic absorption spectrometry  
Sahin F., Volkam M., Ataman O.  
ANALYTICA CHIMICA ACTA, vol.547, no.1, pp.126-131, 2005 (SCI-Expanded)
- XXX. Flow injection fluorescence determination of dopamine using a photo induced electron transfer (PET) boronic acid derivative  
Seckin Z., Volkam M.  
ANALYTICA CHIMICA ACTA, vol.547, no.1, pp.104-108, 2005 (SCI-Expanded)
- XXXI. 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., Volkam M., Akovali G.  
JOURNAL OF APPLIED POLYMER SCIENCE, vol.96, no.5, pp.1654-1661, 2005 (SCI-Expanded)
- XXXII. A sol-gel derived AgCl photochromic coating on glass for SERS chemical sensor application  
Volkam M., Stokes D., Vo-Dinh T.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.106, no.2, pp.660-667, 2005 (SCI-Expanded)
- XXXIII. Selective pre-concentration of selenite from aqueous samples using mercapto-silica  
Sahin F., Volkam M., Howard A., Ataman O.  
TALANTA, vol.60, no.5, pp.1003-1009, 2003 (SCI-Expanded)
- XXXIV. 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., Volkam M.

- ANALYTICAL SCIENCES, vol.17, no.4, pp.559-560, 2001 (SCI-Expanded)
- XXXV. 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)
- 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. 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)
- XXXVIII. Preconcentration of germanium on mercapto-modified silica gel  
Gokturk G., Delzendeh M., Volkan M.  
SPECTROCHIMICA ACTA PART B-ATOMIC SPECTROSCOPY, vol.55, no.7, pp.1063-1071, 2000 (SCI-Expanded)
- XXXIX. 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)
- XL. 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)
- XLI. 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)
- XLII. 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)
- XLIII. 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)
- XLIV. 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)
- XLV. 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)
- XLVI. 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)

## Refereed Congress / Symposium Publications in Proceedings

- 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 Hipermagnetik Tedavisinde Kullanımı Uygun Manyetik Nano Parçacıklarının Hazırlanması

- AKPINAR Y., ÖZTÜRK S., VOLKAN M.  
 29.Uluslararası Kimya Kongresi, Turkey, 10 - 14 September 2017
- III. Eucaryotic elongation factor 2 kinase 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**  
 Akpinar 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., Akpinar 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 SO<sub>2</sub> 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 Toksisite 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 LANGMUİR VE LANGMUİR BLODGETT FİMLERİNİN HAZIRLANMASI, 2017 - 2017
- VOLKAN M., Project Supported by Higher Education Institutions, CVE E VİTAMİNLERİNİN ANTİOKSİDAN KAPASİTESİNİN TAYINI 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
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## Non Academic Experience

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