

## Prof. Dr. SEVGİ BAYARI

### Kişisel Bilgiler

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### Eğitim Bilgileri

Doktora, Gazi Üniversitesi, Fen Fakültesi/Fen Bilimleri, Fizik/Atom Molekül, Türkiye 1983 - 1989

Yüksek Lisans, Ankara Üniversitesi, Fen Fakültesi/Fen Bilimleri, Astrofizik, Türkiye 1981 - 1983

Lisans, Ankara Üniversitesi, Fen Fakültesi, Fizik-Astronomi, Türkiye 1978 - 1981

### Yabancı Diller

İngilizce, B2 Orta Üstü

### Araştırma Alanları

Fizik, Atom ve Molekül Fiziği, Temel Bilimler

### Akademik İdari Deneyim

Hacettepe Üniversitesi, Eğitim Fakültesi, Matematik ve Fen Bilimleri Eğitimi Bölümü, 2009 - 2009

### Verdiği Dersler

#### Lisans

FİZİK LABORATUVARI IV, Lisans, 2021 - 2022

Akustik (Acoustics), Lisans, 2021 - 2022

GENEL FİZİK I VE II, Lisans, 2021 - 2022

FİZİK LABORATUVARI V (Kuantum Fiziği lab), Lisans, 2021 - 2022

SPEKTRAL ANALİZ YÖNTEMLERİ, Lisans, 2021 - 2022

Kuantum Fiziği I, Lisans, 2021 - 2022

### Yönetilen Tezler

Bayarı S., Grafen Takviyeli Epoksi Kompozitler , Yüksek Lisans, İ.MELİK(Öğrenci), Devam Ediyor  
BAYARI S., Omega-6 Yağ Asitlerinin Moleküler Yapılarının ve Titreşim Spektrumlarının Deneysel ve Teorik Olarak İncelenmesi, Doktora, T.GÖCEN(Öğrenci), 2018  
BAYARI S., Rasajilin ve tuzlarının moleküler yapıları ve titreşimsel spektrumlarının teorik olarak incelenmesi, Yüksek Lisans, Ü.CEREN(Öğrenci), 2011  
BAYARI S., Antidepresan ilaç etken maddesi olan maprotilinin moleküler özelliklerinin ve diğer ilaçlarla etkileşimlerinin spektroskopik ve kuantum mekaniksel hesaplama yöntemi ile incelenmesi, Yüksek Lisans, A.EVREN(Öğrenci), 2009  
BAYARI S., Metilfenidat molekülünün moleküler yapısının ve titreşimsel spektrumunun teorik olarak incelenmesi, Yüksek Lisans, B.SEYMEN(Öğrenci), 2008  
BAYARI S., Histamin ve serotonin (5-HT) moleküllerinin titreşim spektrumlarının deneysel ve teorik olarak incelenmesi, Yüksek Lisans, H.FEHMİ(Öğrenci), 2005  
BAYARI S., Ofloksasin komplekslerinin ve ofloksasin-famotidin ilaç etken maddelerinin etkileşiminin infrared spektroskopisi ve teorik hesaplama yöntemleri ile incelenmesi, Doktora, S.GÜNEŞDOĞDU(Öğrenci), 2004

### SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **In vitro comparison of nanofibrillar and macroporous-spongy composite tissue scaffolds for periodontal tissue engineering**  
ŞAHBAZOĞLU K. B., DEMİRBILEK M., BAYARI S., BÜBER E., Toklucu S., TÜRK M., KARABULUT E., AKALIN F. A.  
CONNECTIVE TISSUE RESEARCH, cilt.63, sa.2, ss.183-197, 2022 (SCI-Expanded)
- II. **Evaluation of the protective effect on enamel demineralization of CPP-ACP paste and ROCS by vibrational spectroscopy and SAXS: An in vitro study**  
Akgun O. M., Bayarı S., İDE S., Polat G. G., Yildirim C., Orujalipoor I.  
MICROSCOPY RESEARCH AND TECHNIQUE, cilt.84, sa.12, ss.2977-2987, 2021 (SCI-Expanded)
- III. **Auxiliary differential diagnosis of schizophrenia and phases of bipolar disorder based on the blood serum Raman spectra**  
İldiz G. O., BAYARI S., Aksoy U. M., YORGUNER N., Bulut H., Yilmaz S. S., Halimoğlu G., Kabuk H. N., Yavuz G., Fausto R.  
JOURNAL OF RAMAN SPECTROSCOPY, cilt.51, sa.11, ss.2233-2244, 2020 (SCI-Expanded)
- IV. **Application of ATR-FTIR spectroscopy and chemometrics for the discrimination of human bone remains from different archaeological sites in Turkey**  
Bayarı S., ÖZDEMİR K., Sen E. H., Araujo-Andrade C., ERDAL Y. S.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.237, 2020 (SCI-Expanded)
- V. **Fourier Transform Infrared Spectroscopy Based Complementary Diagnosis Tool for Autism Spectrum Disorder in Children and Adolescents**  
İldiz G. O., BAYARI S., Karadag A., Kaygisiz E., Fausto R.  
MOLECULES, cilt.25, sa.9, 2020 (SCI-Expanded)
- VI. **Effects of chemical structures of omega-6 fatty acids on the molecular parameters and quantum chemical descriptors**  
Gocen T., Bayarı S. H., Guven M. H.  
Journal of Molecular Structure, cilt.1174, ss.142-150, 2018 (SCI-Expanded)
- VII. **Conformational and vibrational studies of arachidonic acid, light and temperature effects on ATR-FTIR spectra**  
Gocen T., Bayarı S. H., Guven M. H.  
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, cilt.203, ss.263-272, 2018 (SCI-Expanded)
- VIII. **Structural studies on Demospongiae sponges from Gokceada Island in the Northern Aegean Sea**  
Bayarı S., Şen E. H., İde S., Topaloglu B.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.192, ss.368-377, 2018 (SCI-Expanded)
- IX. **Linoleic acid and its potassium and sodium salts: A combined experimental and theoretical study**

Gocen T., Bayari S. H., Guven M. H.

JOURNAL OF MOLECULAR STRUCTURE, cilt.1150, ss.68-81, 2017 (SCI-Expanded)

- X. **Micro- and nano-structural characterization of six marine sponges of the class Demospongiae**  
Sen E. H., İDE S., Bayari S., Hill M.  
EUROPEAN BIOPHYSICS JOURNAL WITH BIOPHYSICS LETTERS, cilt.45, sa.8, ss.831-842, 2016 (SCI-Expanded)
- XI. **The effect of monolithic zirconia thickness on the degree of conversion of dental resin cements: ATR-FTIR spectroscopic analysis**  
Bayindir B. C., Nemli S. K., Bayari S. H., Bal B. T.  
VIBRATIONAL SPECTROSCOPY, cilt.86, ss.212-217, 2016 (SCI-Expanded)
- XII. **Structural effects of simvastatin on liver rate tissue: Fourier transform infrared and Raman microspectroscopic studies**  
Garip S., Bayari S. H., Severcan M., Abbas S., Lednev I. K., SEVERCAN F.  
JOURNAL OF BIOMEDICAL OPTICS, cilt.21, sa.2, 2016 (SCI-Expanded)
- XIII. **Micro- and Nanoscale Structures of Mesiodens Dentin: Combined Study of FTIR and SAXS/WAXS Techniques**  
Akgun O. M., Bayari S. H., İDE S., Polat G. G., Orujalipoor (Kalkhoran) I.  
MICROSCOPY RESEARCH AND TECHNIQUE, cilt.78, sa.1, ss.52-58, 2015 (SCI-Expanded)
- XIV. **Methylparaben Isolated in Solid Argon: Structural Characterization and UV-Induced Conversion into Methylparaben Radical and Isomeric Ketenes**  
Kus N., BAYARI S., Fausto R.  
JOURNAL OF PHYSICAL CHEMISTRY B, cilt.117, sa.43, ss.13543-13555, 2013 (SCI-Expanded)
- XV. **Structural investigation of boron undoped and doped indium stabilized bismuth oxide nanoceramic powders**  
Kocyigit S., Gokmen O., Temel S., Aytimur A., Uslu I., Bayari S. H.  
CERAMICS INTERNATIONAL, cilt.39, sa.7, ss.7767-7772, 2013 (SCI-Expanded)
- XVI. **Density functional investigation of the molecular structures, vibrational spectra and molecular properties of sulfonated pyridyl imine ligands and their palladium complexes**  
Eryurek M., BAYARI S. H., YÜKSEL D., Hanhan M. E.  
COMPUTATIONAL AND THEORETICAL CHEMISTRY, cilt.1013, ss.109-115, 2013 (SCI-Expanded)
- XVII. **Structural alterations in rat liver proteins due to streptozotocin-induced diabetes and the recovery effect of selenium: Fourier transform infrared microspectroscopy and neural network study**  
Bozkurt O., Bayari S., Severcan M., Krafft C., Popp J., Severcan F.  
JOURNAL OF BIOMEDICAL OPTICS, cilt.17, sa.7, 2012 (SCI-Expanded)
- XVIII. **Theoretical investigation of the Anti-Parkinson drug rasagiline and its salts: Conformations and infrared spectra**  
Baköse U., Bayar S. H., Sağlam S., Özsk H.  
Central European Journal of Chemistry, cilt.10, sa.2, ss.395-406, 2012 (SCI-Expanded)
- XIX. **In situ photoproduction of dichlorodibenzo-p-dioxin from non-ionic triclosan isolated in solid argon**  
Kus N., Reva I., BAYARI S., Fausto R.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.1007, ss.88-94, 2012 (SCI-Expanded)
- XX. **Investigation of adhesive-dentin interfaces using Raman microspectroscopy and small angle X-ray scattering**  
Bayari S. H., Krafft C., İDE S., Popp J., Guven G., ÇEHRELİ Z. C., Soylu E. H.  
Journal of Raman Spectroscopy, cilt.43, sa.1, ss.6-15, 2012 (SCI-Expanded)
- XXI. **EXPERIMENTAL AND QUANTUM CHEMICAL STUDIES OF 5-FLUOROISATIN-3-(N-CYCLOHEXYLTHIOSEMICARBAZONE) AND ITS METAL COMPLEXES**  
Sagdinc S. G., KANDEMİRLİ F., Oksoy B. K., BAYARI S.  
PHOSPHORUS SULFUR AND SILICON AND THE RELATED ELEMENTS, cilt.187, sa.10, ss.1243-1260, 2012 (SCI-Expanded)
- XXII. **Structural characterization of a variety of spider silks from Turkey using different biophysical techniques**

- DE S., Haman Bayari S., TÜRKEŞ T., MERGEN Y. O., Çelik Ö., Bütün V., SARGON M. F., KOCATEPE N., KRIECHBAUM M. SPECTROSCOPY-BIOMEDICAL APPLICATIONS, cilt.25, ss.155-167, 2011 (SCI-Expanded)
- XXIII. **A Study on Marble Dust Nanocomposites.**  
Soylu E. H., İDE S., BAYARI S., Trasoglu E., Aksoy H.  
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, cilt.66, 2010 (SCI-Expanded)
- XXIV. **Thermal decomposition of allantoin as probed by matrix isolation FTIR spectroscopy**  
Kuş N., BAYARI S., Fausto R.  
Tetrahedron, cilt.65, sa.47, ss.9719-9727, 2009 (SCI-Expanded)
- XXV. **Structural and vibrational study of maprotiline**  
YAVUZ A. E., Haman Bayari S., KAZANCI N.  
Journal of Molecular Structure, ss.313-321, 2009 (SCI-Expanded)
- XXVI. **Theoretical and spectroscopic studies of 5-fluoro-isatin-3-(N-benzylthiosemicarbazone) and its zinc(II) complex**  
Sagdinc S., Koksoy B., Kandemirli F., Bayari S.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.917, ss.63-70, 2009 (SCI-Expanded)
- XXVII. **Theoretical study on gas-phase conformations and vibrational assignment of methylphenidate**  
Bayari S., Seymen B., Ozisik H., Saglam S.  
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, cilt.893, ss.17-25, 2009 (SCI-Expanded)
- XXVIII. **Novel Bone Nanocomposites: Preparation, FTIR and SWAXS Analysis**  
BAYARI S., İDE S., Soylu E. H., Rodoplu D., Vargi T., Yoldas A.  
ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, cilt.65, 2009 (SCI-Expanded)
- XXIX. **Structural and vibrational investigation of 1, 2-bis(3, 4-dimethoxyphenyl) ethane-1, 2-dione (Veratril): Experimental and theoretical studies**  
Sengul A., Arslan H., BAYARI S., BUYUKGUNGOR O.  
Structural Chemistry, cilt.19, sa.3, ss.467-476, 2008 (SCI-Expanded)
- XXX. **Molecular structure and vibrational spectra of  $\gamma$ -oxo [1,1'-biphenyl]-4-butanoic acid (fenbufen) and its interaction with ofloxacin**  
Haman Bayari S., Sagdinc S.  
Structural Chemistry, cilt.19, sa.3, ss.381-390, 2008 (SCI-Expanded)
- XXXI. **Molecular structure and vibrational spectra of 4-, 5-, 6-chloroindole**  
Ozisik H., Saglam S., Bayari S.  
STRUCTURAL CHEMISTRY, cilt.19, sa.1, ss.41-50, 2008 (SCI-Expanded)
- XXXII. **Mucopolysaccharidosis type I (Hurler syndrome): oral and radiographic findings and ultrastructural/chemical features of enamel and dentin**  
GUVEN G., ÇEHRELİ Z. C., ALTUN C., ŞENÇİMEN M., İDE S., BAYARI S., KARAÇAY Ş.  
Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology and Endodontology, cilt.105, sa.1, ss.72-78, 2008 (SCI-Expanded)
- XXXIII. **Infrared spectrum, molecular structure and theoretical calculation of 2-pyridone-6-carboxylic acid**  
Arslan H., Şengül A., Aygün S., Karadayi N., BAYARI S.  
Journal of Molecular Structure, cilt.839, ss.76-83, 2007 (SCI-Expanded)
- XXXIV. **Ab initio and density functional computations of the vibrational spectrum, molecular geometry and some molecular properties of the antidepressant drug sertraline (Zoloft) hydrochloride**  
Sagdinc S., Kandemirli F., Bayari S. H.  
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, cilt.66, sa.2, ss.405-412, 2007 (SCI-Expanded)
- XXXV. **Synchrotron FT-IR microspectroscopic analysis of necrotic bone**  
Bayari S. H., UTKU H., IKEMOTO Y., Celasun B., Koemuercue M., ATIK A.  
SPECTROSCOPY-AN INTERNATIONAL JOURNAL, cilt.21, sa.4, ss.227-234, 2007 (SCI-Expanded)
- XXXVI. **Investigation of different substituents's affects to the crystal and molecular structures in some anesthetic compounds**  
Ozcan Y., Malkas H., Ayerden T., BAYARI S., İDE S.

- ACTA CRYSTALLOGRAPHICA A-FOUNDATION AND ADVANCES, cilt.62, 2006 (SCI-Expanded)
- XXXVII. **Experimental and theoretical studies of the vibrational spectrum of 5-hydroxytryptamine**  
Bayari S., Saglam S., Ustundag H.  
JOURNAL OF MOLECULAR STRUCTURE-THEOCHEM, cilt.726, ss.225-232, 2005 (SCI-Expanded)
- XXXVIII. **FTIR study of biodegradable biopolymers: P(3HB), P(3HB-co-4HB) and P(3HB-co-3HV)**  
Bayari S., Severcan F.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.744, ss.529-534, 2005 (SCI-Expanded)
- XXXIX. **Experimental and theoretical infrared spectra of famotidine and its interaction with ofloxacin**  
SAGDINC S., Bayari S.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.744, ss.369-376, 2005 (SCI-Expanded)
- XL. **Spectroscopic studies on the interaction of ofloxacin with metals**  
Sagdinc S., Bayari S.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.691, ss.107-113, 2004 (SCI-Expanded)
- XLI. **Theoretical study of ofloxacin: Geometrical parameters and vibrational wavenumbers**  
Sagdinc S., BAYARI S.  
Journal of Molecular Structure: THEOCHEM, cilt.668, ss.93-99, 2004 (SCI-Expanded)
- XLII. **Coordination behaviour of nicotinamide: An infrared spectroscopic study**  
BAYARI S., Ataç A., Yurdakul Ş.  
Journal of Molecular Structure, cilt.655, sa.1, ss.163-170, 2003 (SCI-Expanded)
- XLIII. **Fourier transform infrared spectra and molecular structure of 5-methoxytryptamine, N-acetyl-5-methoxytryptamine and N-phenylsulfonamide-5-methoxytryptamine**  
BAYARI S., İDE S.  
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, cilt.59, sa.6, ss.1255-1263, 2003 (SCI-Expanded)
- XLIV. **Infrared spectra and AM1 calculations of N-benzylideneanilines**  
GÜNER V., BAYARI S.  
Spectroscopy Letters, cilt.35, sa.1, ss.83-98, 2002 (SCI-Expanded)
- XLV. **Normal coordinate analysis of 4-aminopyridine. Effect of substituent on pyridine ring in metal complexes of 4-substituted pyridines**  
Topaçlı A., Bayari S.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, cilt.57, sa.7, ss.1385-1391, 2001 (SCI-Expanded)
- XLVI. **Spectroscopic and structural studies on metal halide complexes of 4-vinylpyridine**  
BAYARI S., İDE S., Yurdakul Ş.  
Journal of Molecular Structure, cilt.560, ss.95-103, 2001 (SCI-Expanded)
- XLVII. **The force field of 4-vinylpyridine and 4-vinylpyridine metal complexes**  
Topaçlı A., BAYARI S.  
Journal of Molecular Structure, cilt.595, ss.93-99, 2001 (SCI-Expanded)
- XLVIII. **Vibrational spectroscopic studies on the T-d-type adeninemetal(II)tetracyanometallate(II) benzene clathrates: M(ad)(2)M'(CN)(4).C6H6 (M = Mn or Cd, M' = Cd or Hg)**  
Bayari S., Bayrak C., Kantarci Z.  
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- XLIX. **A biomechanical and spectroscopic study of bone from rats with selenium deficiency and toxicity**  
Turan B., Bayari S., Balcık C., Severcan F., Akkas N.  
BIOMETALS, cilt.13, sa.2, ss.113-121, 2000 (SCI-Expanded)
- L. **Fourier transform infrared and Raman spectra of 4-vinylpyridine and its transition metal(II) tetracyanonickelate complexes**  
Bayari S., Yurdakul S.  
SPECTROSCOPY LETTERS, cilt.33, sa.4, ss.475-483, 2000 (SCI-Expanded)
- LI. **The infrared spectra of (dimen) and dimen-T(d)-type M(dimen)M'(CN)4 (M = Cd or Mn; M' = Zn, Cd or Hg) complexes**

- BAYRAK C., BAYARI S.  
Journal of Molecular Structure, ss.159-163, 1999 (SCI-Expanded)
- LII. **Structural information on transition metal(II) complexes of 4,4'-bipyridyl and 4-phenylpyridine from their infrared spectra**  
Bayari S., Topaçlı A., Salih B.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.482, ss.165-169, 1999 (SCI-Expanded)
- LIII. **FTIR and turbidity studies of fish oil-dipalmitoylphosphatidylcholine model membrane interactions**  
Severcan F., Bayari S., Karahan D.  
JOURNAL OF MOLECULAR STRUCTURE, cilt.481, ss.413-416, 1999 (SCI-Expanded)
- LIV. **Urey-Bradley force field of 4-ethylpyridine**  
Topaçlı A., BAYARI S.  
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, cilt.55, ss.1389-1394, 1999 (SCI-Expanded)
- LV. **An infrared and Raman spectroscopic study on the Hofmann-T(d)-type complexes:  $ML_2M'(CN)_4$ ,  $M = Mn$  or  $Zn$ ,  $M' = Zn, Cd$  or  $Hg$ ,  $L = pyridine, \alpha-, \beta-$  or  $\gamma$ -picoline**  
Kantarci Z., Bayrak C., Bayar S.  
Journal of Molecular Structure, cilt.407, ss.155-163, 1997 (SCI-Expanded)
- LVI. **Molecular force field of 4-cyanopyridine and its application to 4-cyanopyridine metal complexes**  
TOPAÇLI A., BAYARI S.  
Spectroscopy Letters, cilt.29, sa.2, ss.277-291, 1996 (SCI-Expanded)
- LVII. **The crystal and molecular structure of an antidepressant drug (isocarboxazid)**  
İDE S., TOPAÇLI A., BAYARI S.  
Crystal Research and Technology, cilt.31, sa.2, ss.187-195, 1996 (SCI-Expanded)
- LVIII. **An infrared spectroscopic study on Hofmann-type complexes of dimethyl sulfoxide**  
BAYARI S., Kantarci Z., Akyüz S.  
Journal of Molecular Structure, cilt.351, ss.19-24, 1995 (SCI-Expanded)
- LIX. **The infrared and raman spectra of 4-phenylpyridine and its hofmann type complexes.**  
BAYARI S., Topaçlı A., Aydınli A.  
Spectroscopy Letters, cilt.27, sa.9, ss.1083-1096, 1994 (SCI-Expanded)
- LX. **AN INFRARED AND RAMAN-SPECTROSCOPIC STUDY OF TD-TYPE 4,4'-BIPYRIDYLCADMIUM(II) TETRACYANOMETALLATE(II) BENZENE(1/2) CLATHRATES -  $CD(C_{10}H_8N_2)CD(CN)_4 \cdot 2C_6H_6$  AND  $CD(C_{10}H_8N_2)HG(CN)_4 \cdot 2C_6H_6$**   
BAYARI S., KANTARCI Z., AKYUZ S.  
JOURNAL OF INCLUSION PHENOMENA AND MOLECULAR RECOGNITION IN CHEMISTRY, cilt.17, sa.3, ss.291-302, 1994 (SCI-Expanded)

## **Diğer Dergilerde Yayınlanan Makaleler**

- I. **Bilgisayarlı Tomografi, Pozitron Emisyon Tomografisi ve Nükleer Manyetik Rezonans Görüntülemeye Temel Kavram ve İlkeler.**  
BAYARI S. H., AKIN S., TUNCEL M.  
Batu Karadeniz Tıp Dergisi, cilt.7, sa.3, ss.269-278, 2023 (Hakemli Dergi)
- II. **INVESTIGATION OF REGULAR AND HYPOALLERGENIC INFANT MILK FORMULAS BY ATR-FTIR SPECTROSCOPY COMBINED WITH MULTIVARIATE ANALYSIS METHODS**  
Yonar D., Bayarı S.  
GIDA, cilt.48, sa.1, ss.174-184, 2023 (Hakemli Dergi)
- III. **Understanding heat-induced changes in human bone remains using ATR-FTIR combined with chemometrics**  
Özdemir K., Bayarı S., Şen E. H., Araujo-Andrade C., Erdal Y. S.  
Eurasian Journal of Anthropology, cilt.12, sa.2, ss.67-82, 2022 (Hakemli Dergi)

- IV. **ATR-FTIR, SAXS and UV-Vis Studies of Silicone Hydrogel and Bio-Hydrogel Soft Contact Lenses**  
Bayarı S., Göcen T., Bacioğlu A., İde S.  
Asian Journal of Applied Chemistry Research, cilt.12, sa.1, ss.1-16, 2022 (Hakemli Dergi)
- V. **The Effect of Polymethylsilsequioxane Concentration on the Liquid Foundation: Characterization of Nanostructure and Biophysical Properties**  
Kaya P., Su C. J., Bacioğlu A., Gür S. D., Bayarı S., Lian B. J., Jeng U., İde S.  
Asian Journal of Physical and Chemical Sciences, ss.32-45, 2021 (Scopus)
- VI. **A Structural Investigation on Polystyrene with Cyclohexene Mid-Chain Group: Thermal Stability and Self-Assembly Kinetics in Nonpolar and Polar Aprotic Solutions**  
Orujalipour I., İde S., Bayarı S., Değirmenci M., Çelik Ö.  
Asian Journal of Applied Chemistry Research , cilt.8, sa.1, ss.1-12, 2021 (Hakemli Dergi)
- VII. **Vibrational and DFT Studies of Creatinine and Its Metal Complexes**  
BAYRAK C., BAYARI S.  
Hacettepe Journal of Biology and Chemistry, cilt.38, ss.107-118, 2010 (Hakemli Dergi)

## Kitaplar

- I. **Optisyonluk Tarihi İle İlgili Giriş**  
Bayarı S.  
Optisyonluğun Temelleri, Mümin Mehmet Koç, Editör, Akademisyen Yayınevi Kitabevi, Ankara, ss.3-20, 2024
- II. **Blood serum–infrared spectra-based chemometric models for auxiliary diagnosis of autism spectrum disorder**  
Öğrüş İldız G., Bayarı S., Yorguner N., Fausto R.  
Neural Engineering Techniques for Autism Spectrum Disorder Volume 1: Imaging and Signal Analysis, Ayman S. El-Baz, Jasjit S. Suri, Editör, Academic Press , Massachusetts, ss.185-213, 2021
- III. **Applications of Vibrational Spectroscopy in Diagnosis and Screening of Dental Tissues**  
Bayarı S.  
Vibrational Spectroscopy in Diagnosis and Screening, Feride Severcan, Parvez I. Haris, Editör, IOS Press , Amsterdam, ss.304-320, 2012
- IV. **The FTIR studies of the poly(3-hydroxybutyrate) and poly(3-hydroxybutyrate-co-3-hydroxyvalerate)**  
BAYARI S.  
New Biomedical materials Basic And Applied Studies, Parvez I Haris and Denis Chapman, Editör, IOS Press, ss.58-64, 1998

## Hakemli Bilimsel Toplantılarda Yayımlanmış Bildiriler

- I. **Polymethylsilsequioxane Concentration Effects on the Nanostructures and the Biophysical Properties of some Foundations and BB Creams**  
kaya p., Karaarslan D., Su C. J., BACIOĞLU A., DİKEN GÜR S., BAYARI S., Jeng U., İDE S.  
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- II. **Spectroscopic and Optical Properties of Silicone Hydrogel Contact Lenses**  
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## Burslar

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Araştırma bursu -Institut für Photonische Technologien- Jena Almanya, Özel Kurum ve Organizasyonlar, 2010 - 2010

TÜBİTAK NATO bursu-De Monfort Üni. İngiltere, TÜBİTAK, 1997 - 1997

Lisans üstü (YL ve Doktora bursu), TÜBİTAK, 1982 - 1985

## Akademi Dışı Deneyim

Hacettepe Üniversitesi, Öğretim Üyesi