

## Asst. Prof. Gülşah Saydan Kanberođlu

### Personal Information

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### Education Information

Doctorate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2004 - 2011

Post Graduate, Van Yüzüncü Yıl University, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 2000 - 2004

Under Graduate, Ondokuz Mayıs University, Faculty Of Science And Letters, Department Of Chemistry, Turkey 1996 - 2000

### Certificates, Courses and Trainings

Education Management and Planning, Yüksek Performans Sıvı Kromatografisi, Mühendislik Fakültesi, 2001

### Dissertations

Doctorate, Karboksilik Asitlerin Sıvı Kromatografik Elektrokimyasal Hibrit Sistemleriyle Eş Zamanlı Analizi İçin Yöntem Geliştirilmesi ve Uygulamaları, Van Yüzüncü Yıl University, Fen Fakültesi, Kimya Bölümü, 2011

Post Graduate, Antiinflamatuvar -Analjezik İlaçlardan Asetamin'in Akış-Enjeksiyon Analiz Yöntemi İle Miktar Tayini, Van Yüzüncü Yıl University, Fen Fakültesi, Kimya Bölümü, 2004

### Research Areas

Chemistry, Analytical Chemistry, Atomic and Molecular Spectroscopy, Separation Methods, Electromagnetic Methods, Pharmaceutical Analysis, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Van Yüzüncü Yıl University, Fen Fakültesi, Kimya, 2018 - Continues

Assistant Professor, Van Yüzüncü Yıl University, Fen Fakültesi, Kimya, 2012 - 2018

### Courses

Akış Enjeksiyon Analiz Teknikleri, Post Graduate, 2015 - 2016

Analitik Kimya, Under Graduate, 2013 - 2014, 2014 - 2015, 2015 - 2016

Analitik Kimya, Under Graduate, 2015 - 2016

Analitik Kimya, Under Graduate, 2013 - 2014, 2014 - 2015

Enstrümental Analiz-II, Under Graduate, 2013 - 2014

## Advising Theses

Kanberoğlu G. S. , Potansiyometrik izoprenalin-seçici elektrot geliştirilmesi ve uygulamaları, Post Graduate, o.ozarslan(Student), 2019

Kanberoğlu G. S. , POTANSİYOMETRİK SUNSET YELLOW SEÇİCİ ELEKTROT GELİŞTİRİLMESİ VE UYGULAMALARI, Post Graduate, m.aydın(Student), 2019

Kanberoğlu G. S. , POTANSİYOMETRİK MAPROTİLİN-SEÇİCİ ELEKTROT GELİŞTİRİLMESİ VE FARMASÖTİK NUMUNELERİNDE UYGULAMALARI, Post Graduate, İ.Çavuş(Student), 2015

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **Ruthenium(0) nanoparticles stabilized by metalorganic framework as an efficient electrocatalyst for borohydride oxidation reaction**  
Kanberoğlu G. S. , Zahmakran M.  
International Journal Of Hydrogen Energy, pp.1-11, 2020 (Journal Indexed in SCI Expanded)
- **Chromium based metal–organic framework MIL-101 decorated palladium nanoparticles for the methanolysis of ammonia-borane†**  
Kanberoğlu G. S. , Zahmakran M.  
NEW JOURNAL OF CHEMISTRY, vol.1, pp.1-13, 2020 (Journal Indexed in SCI Expanded)
- **Fabrication and characterization of SiO<sub>2</sub>@Fe<sub>3</sub>O<sub>4</sub>@nanodiamonds for vortex-assisted magnetic solid-phase extraction of lead in cigarette samples prior to FAAS detection**  
Saydan Kanberoglu G. S. , YILMAZ E., SOYLAK M.  
JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, vol.17, pp.1627-1634, 2020 (Journal Indexed in SCI)
- **Ruthenium Nanoparticles Supported on Reduced Graphene Oxide: Efficient Catalyst for the Catalytic Reduction of Cr(VI) in the Presence of Amine-Boranes**  
Yurderi M., Bulut A., Kanberoğlu G. S. , Kaya M., KANBUR Y., Zahmakran M.  
CHEMISTRYSELECT, vol.5, pp.6961-6970, 2020 (Journal Indexed in SCI)
- **Inhibition effects of isoproterenol, chlorpromazine, carbamazepine, tamoxifen drugs on glutathione S-transferase, cholinesterases enzymes and molecular docking studies**  
Turkan F., Calimli M. H. , Kanberoğlu G. S. , Karaman M.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, 2020 (Journal Indexed in SCI)
- **A Novel Potentiometric PVC-membrane Cysteamine-Selective Electrode Based on Cysteamine-Phosphomolybdate Ion-Pair**  
Tumur M., Kanberoğlu G. S. , ÇOLDUR F.  
CURRENT PHARMACEUTICAL ANALYSIS, vol.16, pp.168-175, 2020 (Journal Indexed in SCI)
- **Hydrotalcite framework stabilized ruthenium nanoparticles (Ru/HTaL): efficient heterogeneous catalyst for the methanolysis of ammonia-borane**  
Bağcı I. B. , Yurderi M., Kanberoğlu G. S. , Bulut A.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, pp.364-379, 2020 (Journal Indexed in SCI)
- **Electrochemiluminescence methods using CdS quantum dots in aptamer-based thrombin biosensors: a comparative study**  
İŞILDAK İ., Navaeipour F., Afsharan H., Kanberoğlu G. S. , AĞIR İ., ÖZER T., Annabi N., Totu E. E. , Khalilzadeh B.  
MICROCHIMICA ACTA, vol.187, 2020 (Journal Indexed in SCI)
- **Complete Dehydrogenation of Hydrazine Borane on Manganese Oxide Nanorod-Supported Ni@Ir Core-Shell Nanoparticles**  
Yurderi M., Top T., Bulut A., Kanberoğlu G. S. , Kaya M., Zahmakran M.  
Inorganic Chemistry, 2020 (Journal Indexed in SCI Expanded)
- **Cobalt nanoparticles supported on alumina nanofibers (Co/Al<sub>2</sub>O<sub>3</sub>): Cost effective catalytic system for the hydrolysis of methylamine borane**  
Bağcı I. B. , Yurderi M., Bulut A., Çelebi M., Kanberoğlu G. S. , Zahmakran M., Kaya M., Aydemir M., Durap F., Baysal A.

- INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, pp.28441-28450, 2019 (Journal Indexed in SCI)  
**Development of a reliable microRNA based electrochemical genosensor for monitoring of miR-146a, as key regulatory agent of neurodegenerative disease**  
Khalilzadeh B., Rashidi M., Soleimani A., Tajalli H., Kanberoğlu G. S. , Baradaran B., Rashidi M.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.134, pp.695-703, 2019 (Journal Indexed in SCI)
- **Development of a potentiometric maprotiline-selective electrode and its application in pharmaceutical samples**  
Cavus I., Kanberoğlu G. S.
- MICROCHEMICAL JOURNAL, vol.148, pp.57-65, 2019 (Journal Indexed in SCI)  
**Application of deep eutectic solvent in ultrasound-assisted emulsification microextraction of quercetin from some fruits and vegetables**  
Kanberoğlu G. S. , YILMAZ E., SOYLAK M.
- JOURNAL OF MOLECULAR LIQUIDS, vol.279, pp.571-577, 2019 (Journal Indexed in SCI)  
**Developing a new and simple ultrasound-assisted emulsification liquid phase microextraction method built upon deep eutectic solvents for Patent Blue V in syrup and water samples**  
Kanberoğlu G. S. , YILMAZ E., SOYLAK M.
- MICROCHEMICAL JOURNAL, vol.145, pp.813-818, 2019 (Journal Indexed in SCI)  
**Usage of deep eutectic solvents for the digestion and ultrasound-assisted liquid phase microextraction of copper in liver samples**  
Kanberoğlu G. S. , YILMAZ E., SOYLAK M.
- JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, vol.15, pp.2307-2314, 2018 (Journal Indexed in SCI)  
**Advances in nanomaterial based optical biosensing and bioimaging of apoptosis via caspase-3 activity: a review**  
Khalilzadeh B., Shadjou N., Kanberoğlu G. S. , Afsharan H., de la Guardia M., Charoudeh H. N. , Ostadrahimi A., Rashidi M.
- MICROCHIMICA ACTA, vol.185, 2018 (Journal Indexed in SCI)  
**Flow Injection Potentiometric Determination of Silver(I) in Photographic Film Developing Solution Samples by Polyvinylchloride Membrane Silver(I) Selective Electrode**  
Topcu C., ÇOLDUR F., ANDAÇ M., ÇUBUK O., Kanberoğlu G. S. , ÇAĞLAR B., İŞILDAK İ.
- JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.38, pp.882-888, 2016 (Journal Indexed in SCI)  
**A Novel Flow-Injection Potentiometric Detector for Determination of Tamoxifen in Anticancer Drug Formulations**  
Kanberoğlu G. S. , ÇOLDUR F., ÇUBUK O., Topcu C., ÇAĞLAR B.
- Sensor Letters, vol.14, pp.59-64, 2016 (Journal Indexed in SCI Expanded)  
**PVC-Membrane Potentiometric Sensor for the Determination of Tamoxifen in Pharmaceutical Formulations**  
Kanberoğlu G. S. , ÇOLDUR F., Topcu C., ÇUBUK O.
- IEEE SENSORS JOURNAL, vol.15, pp.6199-6207, 2015 (Journal Indexed in SCI)

### Articles Published in Other Journals

- **Developing a potentiometric sunset yellow selective electrode and its applications**  
Kanberoğlu G. S. , Aydın M.
- Cumhuriyet Science Journal, vol.41, pp.260-268, 2020 (International Refereed University Journal)  
**Development of Potentiometric Sensor for Determination of Isoprenaline in Pharmaceutical Drug**  
Kanberoğlu G. S. , Ozarslan O.
- El-Cezerî Journal of Science and Engineering, vol.7, pp.211-222, 2020 (International Refereed University Journal)  
**Determination of Asemetacin in Drugs by Flow-Injection Analysis Technique Using UV Detector**  
Kanberoğlu G. S. , Şener E., Tunçel M., Şentürk Z.

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, pp.1008-1017, 2019 (National Refreed University Journal)

● **CHEMICAL ANALYSIS AND FATTY ACID COMPOSITION OF THE CHICORY PLANTS (CICHORIUM INTYBUS L.) BY GC-MS**

kam n., Kanberoğlu G. S.

Journal of Engineering Technology and Applied Sciences, no.2, pp.51-62, 2019 (Refereed Journals of Other Institutions)

● **Developing a Potentiometric Ractopamine-Selective Electrode and Its Application**

Kanberoğlu G. S.

AVRUPA BİLİM VE TEKNOLOJİ DERGİSİ, vol.16, pp.776-784, 2019 (Refereed Journals of Other Institutions)

● **Electronic and Gamma Shielding Properties of BxAl1-xAs**

Erden Gülebağlan S., KAYA E., Kanberoğlu G. S. , Oto B.

International Journal of Modern Engineering Research, vol.7, pp.1-6, 2017 (Refereed Journals of Other Institutions)

● **Structural, Electronic and Gamma Shielding Properties of BxAl1-xAs**

Erden Gülebağlan S., KAYA E., Kanberoğlu G. S. , Oto B.

International Journal Of Modern Engineering Research, vol.1, pp.1-6, 2017 (Refereed Journals of Other Institutions)

● **Fonksiyonel Gıdalar**

Kanberoğlu G. S. , Meral R.

Dicle Üniversitesi Fen Bilimleri Enstitüsü Dergisi (DUFED), vol.2, pp.28-35, 2013 (National Refreed University Journal)

● **Tahıllardan Etanol Üretimi**

Meral R., Kanberoğlu G. S.

IĞDIR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, vol.2, pp.61-68, 2012 (National Refreed University Journal)

● **Fonksiyonel Gıda Bileşeni Olarak Antioksidanlar**

Meral R., Doğan İ. S. , Kanberoğlu G. S.

Iğdır Üniversitesi Fen Bilimleri Dergisi, vol.2, pp.45-50, 2012 (National Refreed University Journal)

## **Refereed Congress / Symposium Publications in Proceedings**

● **Development of PVC membrane potentiometric sensor based on MOF in the determination of Imipramine hydrochloride**

Subaşı Y., Kanberoğlu G. S.

Balkan 2. zirvesi uluslararası uygulamalı bilimler kongresi, Ankara, Turkey, 10 May 2020, pp.1

● **STRUCTURAL ELECTRONIC AND SHIELDING PROPERTIES OF TIXIn1 XAs**

Erden Gülebağlan S., Kanberoğlu G. S. , Oto B.

32.Fizik Kongresi, Muğla, Turkey, pp.347

● **Development, Characterization and Photocatalytic Activities of Graphene Oxide Supported ZnO Nanoclusters**

Kanberoğlu G. S. , Zahmakran M.

International Engineering and Science Symposium, Siirt, Turkey, 20 - 22 June 2019, pp.568-580

● **The Catalytic Performance of Metal-Organic Framework Supported Nickel Nanoclusters in the Methanolysis of Ammonia-Borane**

Kanberoğlu G. S. , Zahmakran M.

International Engineering and Science Symposium, Siirt, Turkey, 20 June - 22 August 2019, pp.838-849

● **Sulfonic Acid Functionalized Nanocrystalline MIL-101 Metal-Organic Framework Stabilized Ag(0) Nanoparticles: Synthesis, Characterization and Antibacterial Properties**

Zahmakran M., Özdemir S., Yalçın S., Kanberoğlu G. S.

International Engineering and Natural Sciences Conference, Diyarbakır, Turkey, 14 - 17 November 2018, pp.408-416

● **Some applications of deep eutectic solvents for the microextraction of trace inorganic and organic species**

Kanberoğlu G. S. , Yılmaz E., soylak m.

1st International Conference on Innovation in Natural Science and Engineering, Famagusta, Cyprus (Kkctc), 3 - 06 January 2018, pp.88

● **The Calculation of Some Gamma Shielding Parameters For Semiconductor CsPbBr<sub>3</sub>**

Oto B., Erden Gülebağlan S., Kanberoğlu G. S.

32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 09 September 2016, vol.1815

● **GAMMA SHIELDING PROPERTIES OF TAMOXIFEN DRUG**

Kanberoğlu G. S. , Oto B., Erden Gülebağlan S.

32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 09 September 2016, vol.1815

● **Spectrophotometric Detection of Quercetin after Preconcentration by Deep Eutectic Solvent Based Liquid Phase Microextraction**

Kanberoğlu G. S. , YILMAZ E., SOYLAK M.

The 7 th International Conference on Optical Spectroscopy, Laser and their Applications, Kahire, Egypt, 18 - 20 October 2016, pp.88

● **THE CALCULATIONS OF EFFECTIVE ATOMIC NUMBER AND ELECTRON DENSITY OF MAPROTILINE HYDROCHLORIDE**

Kanberoğlu G. S. , Oto B., Erden Gülebağlan S.

32. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2016, pp.435

● **GAMMA SHIELDING PROPERTIES OF TAMOXIFEN**

Kanberoğlu G. S. , Oto B., Erden Gülebağlan S.

32. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2016, pp.435

● **THE CALCULATIONS OF EFFECTIVE ATOMIC NUMBER AND ELECTRON DENSITY OF TLN, TLP AND TLAS COMPOUNDS**

Oto B., Erden Gülebağlan S., Kanberoğlu G. S.

32. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2016, pp.403

● **STRUCTURAL, ELECTRONIC AND SHIELDING PROPERTIES OF BXAL1-XAS**

KAYA E., Erden Gülebağlan S., Kanberoğlu G. S. , Oto B.

32. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2016

● **STRUCTURAL, ELECTRONIC AND SHIELDING PROPERTIES OF TIXIn1-XAs**

Erden Gülebağlan S., Kanberoğlu G. S. , Oto B.

32. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2016, pp.347

● **THE CALCULATIONS OF SOME GAMMA SHIELDING PARAMETERS FOR SEMICONDUCTOR CSPBBR<sub>3</sub>**

Oto B., Erden Gülebağlan S., Kanberoğlu G. S.

32. Uluslararası Fizik Kongresi, Muğla, Turkey, 6 - 09 September 2016, pp.403

● **DEEP EUTECTIC SOLVENTS A GREEN SOLVENT SYSTEM FOR DIGESTION AND ULTRASOUND ASSISTED LIQUID PHASE MICROEXTRACTION OF COPPER IN LIVER SAMPLES**

Kanberoğlu G. S. , YILMAZ E., SOYLAK M.

1st INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES (IBCESS), Giresun, Turkey, 31 August - 03 September 2016, pp.243

● **Patent Blue V Boyar Maddesinin Derin Ötektik Çözücü Temelli Mikroekstraksiyon Yöntemi ile Zenginleştirilmesi Sonrası Spektrofotometrik Tayini**

SOYLAK M., YILMAZ E., Kanberoğlu G. S.

8. Ulusal Analitik Kimya Kongresi, Isparta, Turkey, 30 May - 03 June 2016, pp.95

● **NANO Fe<sub>3</sub>O<sub>4</sub>/NANODIAMOND/SiO<sub>2</sub> NANOKOMPOZİTİNİN SENTEZİ, KARAKTERİZASYONU VE Pb(II) İYONLARININ MANYETİK KATI FAZ EKSTRAKSİYONUNDA KULLANIMI**

Kanberoğlu G. S. , YILMAZ E., SOYLAK M.

IV. Eser Analiz Kongresi, Sakarya, Turkey, 19 - 22 May 2016, pp.75

● **47 th Meeting of the Continental European Division of the International Association for Dental Research**

TÜRK G. I. , KARA E., Kanberoğlu G. S.

Effects of Laser and Preventive Treatments on Root Carriers Prevention, Antalya, Turkey, 15 - 17 October 2015, pp.85-89

● **Rheum ribes: A plant Belonging to Van Region**

Meral R., Kanberoğlu G. S.

3rd International Symposium on 'Traditional Foods from Adriatic to Caucasus', Saraybosna, Bosnia And Herzegovina, 1 - 05 October 2015, pp.235

● **Antioxidant Activity and Total Phenolic Contents of Teucrium orientale L. var puberulens**

Kanberoğlu G. S. , Meral R.

3rd International Symposium on 'Traditional Foods from Adriatic to Caucasus', Saraybosna, Bosnia And Herzegovina, 1 - 05 October 2015, pp.240

● **PVC-Membrane Potentiometric Sensor for the determination of isoproterenol**

Kanberoğlu G. S. , Ekin S., Çoldur F., Çubuk O., Topcu C., IŞILDAK İ.

Black Sea Basin Conference on Analytical Chemistry, Sofia, Bulgaria, 10 - 15 September 2015, pp.96

● **Gümüş-Seçici Sensör ve Durgun Ortamdaki Potansiyometrik Performans Özellikleri**

Ağırtaş M. S. , Sodan Kanberoğlu G., Çoldur F., Işıldak İ., Kanberoğlu G. S.

27. Ulusal Kimya Kongresi, A-AN110, P-270, Çanakale, 23-28 Ağustos 2015., Çanakkale, Turkey, 23 - 28 August 2015, pp.270

● **Karboksilik Asitlerin Sıvı Kromatografik Elektrokimyasal Hibrit Sistemleriyle Eş Zamanlı Analizi**

Kanberoğlu G. S. , Dumanlı R., Işıldak İ.

Kimya Kongresi, Sivas, Turkey, 16 - 20 June 2009, pp.39

● **Antiinflamatuvar–Analjezik İlaçlardan Asetematin'in Akış-Enjeksiyon Analiz Yöntemi ile Miktar Tayini**

Kanberoğlu G. S. , Şener E., Tunçel M., Şentürk Z.

II. Ulusal Analitik Kimya Kongresi, Malatya, Turkey, 2 - 04 September 2004, pp.98

## Supported Projects

Zahmakıran M., Kanberoğlu G. S. , YURDERİ M., BULUT A., Çelebi M., Rakap M., BAĞUÇ İ. B. , Project Supported by Higher Education Institutions, Amin-Boranların Katalitik Dehidroketenlenme Tepkimeleri; Yakıt Hücresi Uygulamaları ve Yüksek Moleküler Ağırlıklı [BNHx]y Endüstriyel Polimerlerin Geliştirilmesi, 2019 - 2020

## Scientific Refereeing

International journal of hydrogen energy, SCI Journal, May 2019

Turkish Journal of Chemistry, SCI Journal, July 2016

## Citations

Total Citations (WOS):67

h-index (WOS):5

## Awards

Kanberoğlu G. S. , Nano Fe<sub>3</sub>O<sub>4</sub> /Nanodiamond/SiO<sub>2</sub> Nanokompozitinin Sentezi, Karakterizasyonu ve Pb(II) İyonlarının

Manyetik Katı Faz Ekstraksiyonunda Kullanımı", Esan -2016İv. Eser Analiz Kongresi, May 2016

Kanberođlu G. S. , ANTIİNFLAMATUVAR -ANALJEZİK İLAÇLARDAN ASEMETASİN'İN AKIŞ-ENJEKSİYON ANALİZ YÖNTEMİ İLE MİKTAR TAYİNİ BAŞLIKLİ POSTERİ İLE EN İYİ POSTER ÖDÜLÜ, İNÖNÜ ÜNİVERSİTESİ, September 2014

Kanberođlu G. S. , Şentürk Z., En iyi poster ödülü, İ. Ulusal Analitik Kimya Kongresi, September 2004