

## Assoc. Prof. Gülşah Saydan Kanberođlu

### Personal Information

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Address: Yüzüncü Yıl Üniversitesi Fen Fakültesi Kimya Bölümü VAN

### Education Information

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

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

Undergraduate, Ondokuz Mayıs University, Faculty Of Arts And Sciences, Department Of Chemistry, Turkey 1996 - 2000

### Foreign Languages

English, C1 Advanced

### 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

Postgraduate, Antiinflatuvar -Analjezik İlaçlardan Asetematin'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

Associate Professor, Van Yüzüncü Yıl University, Fen Fakültesi, Kimya Bölümü, 2021 - Continues

Assistant Professor, Van Yüzüncü Yıl University, Fen Fakültesi, Kimya, 2018 - 2021

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

### Courses

Kimyasal Sensörler ve Uygulama Alanları, Postgraduate, 2020 - 2021  
Akış Enjeksiyon Analiz Teknikleri, Postgraduate, 2015 - 2016  
Analitik Kimya, Undergraduate, 2013 - 2014, 2014 - 2015, 2015 - 2016  
Analitik Kimya, Undergraduate, 2015 - 2016  
Analitik Kimya, Undergraduate, 2013 - 2014, 2014 - 2015  
Enstrümental Analiz-II, Undergraduate, 2013 - 2014

## Advising Theses

Kanberoğlu G. S. , Potansiyometrik izoprenalin-seçici elektrot geliştirilmesi ve uygulamaları, Postgraduate, o.ozarslan(Student), 2019  
Kanberoğlu G. S. , POTANSİYOMETRİK SUNSET YELLOW SEÇİCİ ELEKTROT GELİŞTİRİLMESİ VE UYGULAMALARI, Postgraduate, m.aydın(Student), 2019  
Kanberoğlu G. S. , Potansiyometrik sisteamin-seçici elektrot geliştirilmesi ve farmasötik numunelerinde uygulamaları, Postgraduate, M.TÜMÜR(Student), 2017  
Kanberoğlu G. S. , Beyaz hindiba (Cichorium intybus L.) bitkisinin kimyasal analizi ve elde edilen yağın GC-MS ile analizi ve karakterizasyonu, Postgraduate, N.KAM(Student), 2017  
Kanberoğlu G. S. , POTANSİYOMETRİK MAPROTİLİN-SEÇİCİ ELEKTROT GELİŞTİRİLMESİ VE FARMASÖTİK NUMUNELERİNDE UYGULAMALARI, Postgraduate, İ.Çavuş(Student), 2015

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Development of MOF-based PVC membrane potentiometric sensor for determination of imipramine hydrochloride**  
Subasi Y., Kanberoğlu G. S. , ÇOLDUR F., Cubuk O., Zahmakiran M.  
CHEMICAL PAPERS, 2022 (Journal Indexed in SCI)
- II. **Development of a PVC Membrane Potentiometric Sensor with Low Detection Limit and Wide Linear Range for the Determination of Maprotiline in Pharmaceutical Formulations**  
Tekce S., Subasi Y., ÇOLDUR F., Kanberoğlu G. S. , Zahmakiran M.  
CHEMISTRYSELECT, vol.7, no.2, 2022 (Journal Indexed in SCI)
- III. **Electrodeposition of Cerium Oxide Nanoparticles on the Graphenized Carbon Ceramic Electrode (GCCE) for the Sensitive Determination of Isoprenaline in Human Serum by Differential Pulse Voltammetry (DPV)**  
Shafaei S., Akbari Nakhjavani S., Kanberoğlu G. S. , Khalilzadeh B., Mohammad-Rezaei R.  
ANALYTICAL LETTERS, vol.55, pp.2418-2435, 2022 (Journal Indexed in SCI)
- IV. **Preparation of cerium oxide-MWCNTs nanocomposite bulk modified carbon ceramic electrode: a sensitive sensor for tamoxifen determination in human serum samples**  
Shafaei S., Hosseinzadeh E., Kanberoğlu G. S. , Khalilzadeh B., Mohammad-Rezaei R.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, 2021 (Journal Indexed in SCI)
- V. **Ruthenium(0) nanoparticles stabilized by metal-organic framework as an efficient electrocatalyst for borohydride oxidation reaction**  
Backovic G., Sljukic B., Kanberoğlu G. S. , Yurderi M., Bulut A., Zahmakiran M., Santos D. M. F.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.45, pp.27056-27066, 2020 (Journal Indexed in SCI)
- VI. **Chromium based metal-organic framework MIL-101 decorated palladium nanoparticles for the methanolysis of ammonia-borane**  
Caner N., Yurderi M., Bulut A., Kanberoğlu G. S. , Kaya M., Zahmakiran M.  
NEW JOURNAL OF CHEMISTRY, vol.44, pp.12435-12439, 2020 (Journal Indexed in SCI)
- VII. **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)

- VIII. **Complete Dehydrogenation of Hydrazine Borane on Manganese Oxide Nanorod-Supported Ni@Ir Core-Shell Nanoparticles**  
Yurderi M., Top T., Bulut A., Kanberoglu G. S. , Kaya M., Zahmakran M.  
Inorganic Chemistry, vol.59, pp.9728-9738, 2020 (Journal Indexed in SCI)
- IX. **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., Kanberoglu G. S. , Kaya M., Kanbur Y., Zahmakran M.  
CHEMISTRYSELECT, vol.5, pp.6961-6970, 2020 (Journal Indexed in SCI)
- X. **Inhibition effects of isoproterenol, chlorpromazine, carbamazepine, tamoxifen drugs on glutathione S-transferase, cholinesterases enzymes and molecular docking studies**  
Turkan F., Calimli M. H. , Kanberoglu G. S. , Karaman M.  
JOURNAL OF BIOMOLECULAR STRUCTURE & DYNAMICS, 2020 (Journal Indexed in SCI)
- XI. **Electrochemiluminescence methods using CdS quantum dots in aptamer-based thrombin biosensors: a comparative study**  
Işıldak İ., Navaeipour F., Afsharan H., Kanberoglu G. S. , Ağır İ., Özer T., Annabi N., Totu E. E. , Khalilzadeh B.  
MICROCHIMICA ACTA, vol.187, 2020 (Journal Indexed in SCI)
- XII. **Hydrotalcite framework stabilized ruthenium nanoparticles (Ru/HTaL): efficient heterogeneous catalyst for the methanolysis of ammonia-borane**  
Baguc I. B. , Yurderi M., Kanberoglu G. S. , Bulut A.  
TURKISH JOURNAL OF CHEMISTRY, vol.44, pp.364-379, 2020 (Journal Indexed in SCI)
- XIII. **A Novel Potentiometric PVC-membrane Cysteamine-Selective Electrode Based on Cysteamine-Phosphomolybdate Ion-Pair**  
Tumur M., Kanberoglu G. S. , Çoldur F.  
CURRENT PHARMACEUTICAL ANALYSIS, vol.16, pp.168-175, 2020 (Journal Indexed in SCI)
- XIV. **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., Kanberoglu G. S. , Baradaran B., Rashidi M.  
INTERNATIONAL JOURNAL OF BIOLOGICAL MACROMOLECULES, vol.134, pp.695-703, 2019 (Journal Indexed in SCI)
- XV. **Development of a potentiometric maprotiline-selective electrode and its application in pharmaceutical samples**  
Cavus I., Kanberoglu G. S.  
MICROCHEMICAL JOURNAL, vol.148, pp.57-65, 2019 (Journal Indexed in SCI)
- XVI. **Application of deep eutectic solvent in ultrasound-assisted emulsification microextraction of quercetin from some fruits and vegetables**  
Kanberoglu G. S. , Yilmaz E., Soylak M.  
JOURNAL OF MOLECULAR LIQUIDS, vol.279, pp.571-577, 2019 (Journal Indexed in SCI)
- XVII. **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**  
Kanberoglu G. S. , Yilmaz E., Soylak M.  
MICROCHEMICAL JOURNAL, vol.145, pp.813-818, 2019 (Journal Indexed in SCI)
- XVIII. **Usage of deep eutectic solvents for the digestion and ultrasound-assisted liquid phase microextraction of copper in liver samples**  
Kanberoglu G. S. , Yilmaz E., Soylak M.  
JOURNAL OF THE IRANIAN CHEMICAL SOCIETY, vol.15, pp.2307-2314, 2018 (Journal Indexed in SCI)
- XIX. **Advances in nanomaterial based optical biosensing and bioimaging of apoptosis via caspase-3 activity: a review**  
Khalilzadeh B., Shadjou N., Kanberoglu G. S. , Afsharan H., De La Guardia M., Charoudeh H. N. , Ostadrahimi A., Rashidi M.

MICROCHIMICA ACTA, vol.185, 2018 (Journal Indexed in SCI)

- XX. **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., Işıldak İ.

JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.38, pp.882-888, 2016 (Journal Indexed in SCI)

- XXI. **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)

- XXII. **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

- I. **Developing a potentiometric sunset yellow selective electrode and its applications**  
Kanberoğlu G. S. , Aydın M.  
Cumhuriyet Science Journal, vol.41, no.1, pp.260-268, 2020 (International Refereed University Journal)
- II. **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, no.1, pp.211-222, 2020 (International Refereed University Journal)
- III. **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, pp.51-62, 2019 (Refereed Journals of Other Institutions)
- IV. **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)
- V. **Fonksiyonel Gıdalar**  
Kanberoğlu G. S. , Meral R.  
Dicle Üniversitesi Fen Bilimleri Enstitüsü Dergisi (DUFED), vol.2, no.1, pp.28-35, 2013 (National Refereed University Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **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
- III. **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

- IV. **Some applications of deep eutectic solvents for the microextraction of trace inorganic and organic species**  
Kanberođlu 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
- V. **GAMMA SHIELDING PROPERTIES OF TAMOXIFEN DRUG**  
Kanberođlu G. S. , Oto B., Erden Gülebađlan S.  
32nd International Physics Congress of Turkish-Physical-Society (TPS), Bodrum, Turkey, 6 - 09 September 2016, vol.1815
- VI. **Spectrophotometric Detection of Quercetin after Preconcentration by Deep Eutectic Solvent Based Liquid Phase Microextraction**  
Kanberođlu 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
- VII. **DEEP EUTECTIC SOLVENTS A GREEN SOLVENT SYSTEM FOR DIGESTION AND ULTRASOUND ASSISTED LIQUID PHASE MICROEXTRACTION OF COPPER IN LIVER SAMPLES**  
Kanberođlu G. S. , YILMAZ E., SOYLAK M.  
1st INTERNATIONAL BLACK SEA CONGRESS ON ENVIRONMENTAL SCIENCES(IBCCESS), Giresun, Turkey, 31 August - 03 September 2016, pp.243
- VIII. **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**  
Kanberođlu G. S. , YILMAZ E., SOYLAK M.  
IV. Eser Analiz Kongresi, Sakarya, Turkey, 19 - 22 May 2016, pp.75
- IX. **Antioxidant Activity and Total Phenolic Contents of Teucrium orientale L. var puberulens**  
Kanberođlu G. S. , Meral R.  
3rd International Symposium on 'Traditional Foods from Adriatic to Caucasus', Saraybosna, Bosnia And Herzegovina, 1 - 05 October 2015, pp.240
- X. **Karboksilik Asitlerin Sıvı Kromatografik Elektrokimyasal Hibrit Sistemleriyle Eş Zamanlı Analizi**  
Kanberođlu G. S. , Dumanlı R., Işıldak İ.  
Kimya Kongresi, Sivas, Turkey, 16 - 20 June 2009, pp.39

## Supported Projects

- Kanberođlu G. S. , ÖZDEMİR S., Project Supported by Higher Education Institutions, KOMS2 Destekli Gümüş Nanoparçacıklarının Geliştirilmesi Tanımlanması ve Antibakteriyel Malzeme Olarak Uygulamaları, 2019 - 2020
- Zahmakıran M., Kanberođlu 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 Hücreli Uygulamaları ve Yüksek Moleküler Ağırlıklı [BNHx]y Endüstriyel Polimerlerin Geliştirilmesi, 2019 - 2020
- Kanberođlu G. S. , AYDIN M., Project Supported by Higher Education Institutions, Potansiyometrik Sunset Yellow-Seçici Elektrot Geliştirilmesi ve Uygulamaları, 2018 - 2019
- Kanberođlu G. S. , Project Supported by Higher Education Institutions, Potansiyometrik Raktopamin Seçici Elektrot Geliştirilmesi ve Uygulamaları, 2018 - 2019
- Kanberođlu G. S. , OZARSLAN O., Project Supported by Higher Education Institutions, Potansiyometrik İzoprenalin-Seçici Elektrot Geliştirilmesi ve Uygulamaları, 2018 - 2019
- Kanberođlu G. S. , SOYLAK M., YILMAZ E., Project Supported by Higher Education Institutions, Spectrophotometric Detection of Quercetin after Preconcentration By Deep Eutectic Solvent Based Liquid Phase Microextraction, 2016 - 2017
- Kanberođlu G. S. , Project Supported by Higher Education Institutions, 2-İzopropil-5- Metilfenoksi Ftalosiyanın Bileşiklerinin Potansiyometrik Kimyasal Sensörlerde Aktif Bileşen Olarak Kullanımının Araştırılması, 2015 - 2017
- Kanberođlu G. S. , TÜRÜM M., Project Supported by Higher Education Institutions, Potansiyometrik Sisteamin-Seçici

Elektrot Geliştirilmesi ve Farmasötik Numunelerinde Uygulanmaları, 2015 - 2017

Kanberoğlu G. S. , Project Supported by Higher Education Institutions, Potansiyometrik Maprotilin-Seçici Elektrot Geliştirilmesi ve Farmasötik Numunelerinde Uygulamaları, 2015 - 2015

Kanberoğlu G. S. , Project Supported by Higher Education Institutions, Potansiyometrik Tamoksifen-Seçici Elektrot geliştirilmesi ve Farmasötik Numunelerinde Uygulamaları, 2013 - 2015

## Scientific Refereeing

International journal of hydrogen energy, SCI Journal, May 2019

Turkish Journal of Chemistry, SCI Journal, July 2016

## Citations

Total Citations (WOS):73

h-index (WOS):6

## 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

Kanberoğlu G. S. , Şentürk Z., ANTIİNFLAMATUVAR -ANALJEZİK İLAÇLARDAN ASEMETASİN'İN AKIŞ-ENJEKSİYON ANALİZ YÖNTEMİ İLE MİKTAR TAYİNİ BAŞLIKLİ POSTERİ İLE EN İYİ POSTER ÖDÜLÜ, 1ı. Ulusal Analitik Kimya Kongresi, September 2004