

## Assoc. Prof. NUKET KARTAL TEMEL

### Personal Information

**Email:** nkartal@cumhuriyet.edu.tr

**Web:** <https://avesis.cumhuriyet.edu.tr/nkartal>

### Education Information

Doctorate, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, Turkey 2003 - 2008

Post Graduate, Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), Turkey 2000 - 2002

Under Graduate, Sivas Cumhuriyet University, Fen Fakültesi, Kimya Bölümü, Turkey 1996 - 2000

### Dissertations

Doctorate, Klorofenollerin ileri yükseltgeme yöntemleri ile giderimi, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2008

Post Graduate, Farklı işlemlerle izole edilen bitki özütlerinin antioksidan özelliği ve kromatografik analizleri, Sivas Cumhuriyet Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (YI) (Tezli), 2002

### Academic Titles / Tasks

Associate Professor, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2018 - Continues

### Professional Experience

Deputy Head of Department, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2018 - Continues

Deputy Head of Department, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Kimya Bölümü, 2012 - 2015

### Courses

Kimyasal Analizde İstatistik, Post Graduate, 2018 - 2019

Bitirme Ödevi/Tezi, Under Graduate, 2019 - 2020

Çevre Kimyasına Giriş, Under Graduate, 2019 - 2020

Genel Kimya I, Under Graduate, 2019 - 2020

Analitik Kimya - II, Under Graduate, 2018 - 2019

Genel Kimya Lab.I, Under Graduate, 2019 - 2020

Genel Kimya Lab. - II, Under Graduate, 2018 - 2019

Uzmanlık Alan Dersi, Doctorate, 2019 - 2020

Analitik Kimya - I, Under Graduate, 2019 - 2020

Su Kimyası, Under Graduate, 2017 - 2018

ANALİTİK KİMYA 2, Under Graduate, 2017 - 2018

Bitirme Ödevi/Tezi, Under Graduate, 2018 - 2019

Uzmanlık Alan Dersi, Post Graduate, 2017 - 2018

ANALİTİK KİMYA 1, Under Graduate, 2017 - 2018

SEMİNER DERSİ, Post Graduate, 2017 - 2018  
İLERİ OKSİDASYON YÖNTEMLERİ VE TEKNOLOJİK UYGULAMALARI, Doctorate, 2017 - 2018  
FOTOKATALİTİK BOZUNDURMA YÖNTEMLERİ, Doctorate, 2017 - 2018  
İNCE TABAKA KROMATOĞRAFİSİ (TLC) VE UYGULAMALARI, Doctorate, 2017 - 2018  
İnce Tabaka Kromatografisi (TCL) ve Uygulamaları, Post Graduate, 2017 - 2018  
Su Kimyası, Under Graduate, 2017 - 2018  
Tez Çalışması, Post Graduate, 2017 - 2018  
1031 GENEL KİMYA 1, Under Graduate, 2017 - 2018  
UZMANLIK ALAN DERSİ, Post Graduate, 2017 - 2018  
Seminer Dersi, Doctorate, 2017 - 2018  
İNCE TABAKA KROMATOĞRAFİSİ (TLC) VE UYGULAMALARI, Post Graduate, 2016 - 2017  
Fotokatalitik Bozundurma Yöntemleri, Post Graduate, 2017 - 2018  
1041 GENEL KİMYA, Under Graduate, 2016 - 2017  
1032 GENEL KİMYA 2, Under Graduate, 2016 - 2017  
ANALİTİK KİMYA 2, Under Graduate, 2016 - 2017  
FOTOKATALİTİK BOZUNDURMA YÖNTEMLERİ, Post Graduate, 2016 - 2017  
SEMİNER DERSİ, Post Graduate, 2016 - 2017  
İLERİ OKSİDASYON YÖNTEMLERİ VE TEKNOLOJİK UYGULAMALARI, Post Graduate, 2016 - 2017  
1031 GENEL KİMYA 1, Under Graduate, 2016 - 2017  
ANALİTİK KİMYA 1, Under Graduate, 2016 - 2017  
UZMANLIK ALAN DERSİ, Post Graduate, 2016 - 2017  
Genel Kimya II, Under Graduate, 2015 - 2016  
Genel Kimya II, Under Graduate, 2015 - 2016  
Genel Kimya, Under Graduate, 2015 - 2016  
İnorganik Eser Analizleri, Post Graduate, 2014 - 2015  
Seminer Dersi, Post Graduate, 2015 - 2016  
Genel Kimya I, Under Graduate, 2015 - 2016  
Genel Kimya, Under Graduate, 2015 - 2016  
Genel Kimya Lab.I, Under Graduate, 2014 - 2015  
Genel Kimya Laboratuvarı II, Under Graduate, 2013 - 2014  
Genel Kimya - II, Under Graduate, 2012 - 2013  
Su Kimyası, Under Graduate, 2012 - 2013  
Genel Kimya - II, Under Graduate, 2012 - 2013  
Su Kimyası, Under Graduate, 2012 - 2013  
Genel Kimya Laboratuvarı I, Under Graduate, 2013 - 2014  
Genel Kimya Laboratuvarı II, Under Graduate, 2011 - 2012  
Genel Kimya - I, Under Graduate, 2012 - 2013  
Analitik Kimya, Under Graduate, 2012 - 2013  
Genel Kimya - I, Under Graduate, 2012 - 2013  
Temel Kimya, Associate Degree, 2012 - 2013  
Analitik Kimya, Under Graduate, 2012 - 2013  
Genel Kimya Laboratuvarı I, Under Graduate, 2011 - 2012

## Advising Theses

Kartal Temel N., Bentonit, zeolit ve grafen oksit kullanılarak sulu çözeltilerden bromofenol mavisinin uzaklaştırılması, Post Graduate, İ.GÖKÇE(Student), 2018  
KARTAL TEMEL N., Kaplıca sularında bulunan mangan'ın hızlı sinerjik bulutlanma noktası ekstraksiyonu sonrası spektrometrik tayini, Post Graduate, H.PINAR(Student), 2017  
KARTAL TEMEL N., Çeşitli karbon tabanlı nanomalzemeler kullanılarak atıksulardaki Cu(II) iyonunun giderimi, Post

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

- I. **Manganese sensitised-indirect determination of melamine in milk-based samples by flame atomic absorption spectrometry coupled with ultrasound assisted-cloud point extraction**  
Gürkan R., Kartal Temel N.  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL ANALYTICAL CHEMISTRY, vol.100, pp.152-174, 2020 (Journal Indexed in SCI)
- II. **Application of Ultrasound-Assisted Cloud-Point Extraction and Spectrophotometry for Preconcentration and Determination of Trace Amounts of Copper(II) in Beverages**  
Temel N. K., GÜRKAN R.  
JOURNAL OF ANALYTICAL CHEMISTRY, vol.74, no.2, pp.1174-1183, 2019 (Journal Indexed in SCI)
- III. **A new ion-pair ultrasound assisted-cloud point extraction approach for determination of trace V(V) and V(IV) in edible vegetal oils and vinegar by spectrophotometry**  
Temel N., Kus B., GÜRKAN R.  
MICROCHEMICAL JOURNAL, vol.150, 2019 (Journal Indexed in SCI)
- IV. **Preconcentration and Determination of Trace Nickel and Cobalt in Milk-Based Samples by Ultrasound-Assisted Cloud Point Extraction Coupled with Flame Atomic Absorption Spectrometry**  
Temel N., Sertakan K., GÜRKAN R.  
BIOLOGICAL TRACE ELEMENT RESEARCH, vol.186, pp.597-607, 2018 (Journal Indexed in SCI)
- V. **Combination of Ultrasound-Assisted Cloud-Point Extraction with Spectrophotometry for Extraction, Preconcentration, and Determination of Low Levels of Free Formaldehyde from Cosmetic Products**  
Temel N., GÜRKAN R.  
JOURNAL OF AOAC INTERNATIONAL, vol.101, pp.1763-1772, 2018 (Journal Indexed in SCI)
- VI. **Preconcentration and Determination of Trace Vanadium(V) in Beverages by Combination of Ultrasound Assisted-cloud Point Extraction with Spectrophotometry**  
Temel N., GÜRKAN R.  
ACTA CHIMICA SLOVENICA, vol.65, pp.138-149, 2018 (Journal Indexed in SCI)
- VII. **Using Safranin T as a Charge Transfer-Sensitive Ion-Pairing Reagent in Ultrasound-Assisted Cloud Point Extraction: Determination of Bisphenol A in Selected Beverages**  
Temel N., GÜRKAN R.  
JOURNAL OF AOAC INTERNATIONAL, vol.101, pp.277-287, 2018 (Journal Indexed in SCI)
- VIII. **Extraction, Preconcentration, and Quantification of Low Levels of Free Formaldehyde from Some Beverage Matrices by Combination of Ultrasound-Assisted-Cloud Point Extraction with Spectrophotometry**  
Temel N., GÜRKAN R.  
FOOD ANALYTICAL METHODS, vol.10, pp.4024-4037, 2017 (Journal Indexed in SCI)
- IX. **A micellar sensitized kinetic method for quantification of low levels of bisphenol A in foodstuffs by spectrophotometry**  
Temel N., GÜRKAN R.  
ANALYTICAL METHODS, vol.9, pp.1190-1200, 2017 (Journal Indexed in SCI)
- X. **Photocatalytic TiO<sub>2</sub>-catalyzed degradation of bromophenol blue-mediated Mo(VI)-peroxo complexes in the presence of SDS**  
KARTAL TEMEL N., GÜRKAN R., Ayan F.  
DESALINATION AND WATER TREATMENT, vol.57, pp.21083-21090, 2016 (Journal Indexed in SCI)
- XI. **Catalytic spectrophotometric determination of trace Mo(VI) in milk-based beverages in the presence of bromophenol blue and H<sub>2</sub>O<sub>2</sub> using SDS as a sensitizer**  
Temel N., GÜRKAN R.  
ANALYTICAL METHODS, vol.8, pp.6284-6292, 2016 (Journal Indexed in SCI)

- XII. **New catalyst systems for the degradation of chlorophenols**  
KARTAL TEMEL N., Sokmen M.  
DESALINATION, vol.281, pp.209-214, 2011 (Journal Indexed in SCI)
- XIII. **Investigation of the antioxidant properties of Ferula orientalis L. using a suitable extraction procedure**  
Kartal N., Sokmen M., Tepe B., Daferera D., Polissiou M., Sokmen A.  
FOOD CHEMISTRY, vol.100, pp.584-589, 2007 (Journal Indexed in SCI)
- XIV. **In vitro antibacterial, antifungal, and antioxidant activities of the essential oil and methanol extracts of herbal parts and callus cultures of Satureja hortensis L.**  
Gulluce M., Sokmen M., Daferera D., Agar G., Ozkan H., Kartal N., Polissiou M., Sokmen A., Sahin F.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.51, pp.3958-3965, 2003 (Journal Indexed in SCI)
- XV. **Photo-degradation of some dyes using Ag-loaded titaniumdioxide**  
Sokmen M., Allen D., Akkas F., Kartal N., Acar F.  
WATER AIR AND SOIL POLLUTION, vol.132, pp.153-163, 2001 (Journal Indexed in SCI)

### Articles Published in Other Journals

- I. **Improvement of Affecting Parameters to Synthesis Grafene Oxide by Hummer Method**  
KARTAL TEMEL N., SERTAKAN K., TEMEL Ü. N.  
Cumhuriyet Science Journal, vol.38, pp.674-680, 2017 (Other Refereed National Journals)
- II. **Determination of Trace Amounts of Total Fe as Fe(II) in Environmental Samples by Catalytic Kinetic Spectrophotometry**  
KARTAL TEMEL N., GÜRKAN R.  
Cumhuriyet Science Journal, vol.38, pp.373, 2017 (Other Refereed National Journals)
- III. **Experimental and Computational Investigations of Decolourization of Rhodamine B in Aqueous Solution**  
KARTAL TEMEL N., SAYIN K.  
Hacettepe Journal of Biology and Chemistry, vol.45, pp.375-383, 2017 (Other Refereed National Journals)
- IV. **Photocatalytic Decolourization of Bromophenol Blue in Aqueous Solution with Cu(II)-Peroxo Complexes in Presence of SDS**  
KARTAL TEMEL N., GÜRKAN R.  
Analytical Chemistry Letters, vol.6, pp.435-447, 2016 (Refereed Journals of Other Institutions)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Extraction, Preconcentration and Determination of low levels of melamine in milk based samples using UA-CPE, indirectly followed by FAAS using Eosin Y and Mn(II)**  
KARTAL TEMEL N., GÜRKAN R.  
9. Ulusal Analitik Kimya Kongresi, Konya, 2018, Turkey, 19 - 23 September 2018
- II. **Ion-Pairing Ultrasound Assisted-Cloud Point Extraction as a Preconcentration Tool prior to Determination of Low levels of Free Formaldehyde in Fruit Flavored Milk Drinks and Vinegar by Spectrophotometry**  
KARTAL TEMEL N., GÜRKAN R.  
International TraceAnalysis Congress (iTAC2018), Sivas, Turkey, 20 - 23 June 2018
- III. **Extraction, Preconcentration and Determination of Low Levels of Acetaldehyde In Fruit Flavored Milk Drinks and Vinegar Using Ion-Pairing UA-CPE Coupled With Spectrophotometry**  
KARTAL TEMEL N., GÜRKAN R.  
International TraceAnalysis Congress (iTAC2018), Sivas, Turkey, 20 - 23 June 2018
- IV. **Extraction, Preconcentration and Determination of Low levels of Sulfite from some Beverage**

**Matrices by Ultrasonic Assisted-Cloud Point Extraction coupled with Spectrophotometry**

KARTAL TEMEL N., GÜRKAN R., GÜRKAN N.

8TH BLACK SEA BASIN CONFERENCE ON ANALYTICAL CHEMISTRY, 9 - 11 May 2018

- V. **Spectrophotometric Determination of Trace Amounts of Formaldehyde in Some Beverages after Preconcentration with Ion-Pairing Ultrasound Assisted-Cloud Point Extraction**  
KARTAL TEMEL N., GÜRKAN R., GÜRKAN N.  
8TH BLACK SEA BASIN CONFERENCE ON ANALYTICAL CHEMISTRY, 9 - 11 May 2018
- VI. **İçecek Örneklerinde bulunan Bisfenol A'nın ultrasonik destekli bulutlanma noktası ekstraksiyonu ile tayini**  
KARTAL TEMEL N., GÜRKAN R.  
29. Ulusal Kimya Kongresi, Turkey, 10 - 14 September 2017
- VII. **SPEKTROFOTOMETRİK DEDEKSİYON İLE GERÇEK ÖRNEKLERDE ESER DÜZEYDEKİ Fe II NİN KATALİTİK KİNETİK BELİRLENMESİ**  
GÜRKAN R., ULUSOY H. İ. , KARTAL TEMEL N., Çetin O.  
Esan 2012, II. Eser Analiz Çalıştayı, Trabzon, Turkey, 27 June 2012 - 30 June 2017
- VIII. **Çikolata Örneklerinde Eser Kobalt ve Nikel'in UA-CPE Yöntemi ile Ekstraksiyonu, Zenginleştirilmesi ve Spektrofotometrik Tayini**  
KARTAL TEMEL N., SERTAKAN K., GÜRKAN R.  
XV. Ulusal Spektroskopi Kongresi (Usk 2017), Yalova, 2017., Turkey, 17 - 19 May 2017
- IX. **İYONİK SIVI DAĞILIMLI SIVI SIVI MİKROEKSTRAKSİYON YÖNTEMİ İLE NİKELİN ÖNDERİŞTİRİLMESİ VE AAS İLE TAYİNİ**  
BAĞDA E., KARTAL TEMEL N., TÜZEN M.  
XV. Ulusal Spektroskopi Kongresi-Yalova, Turkey, 17 - 19 May 2017
- X. **Bazı Sıvı Yağ Örneklerinde Toplam Vanadyumun V(V) Olarak Ekstraksiyonu, Zenginleştirilmesi ve Spektrofotometrik Tayini**  
KUŞ B., KARTAL TEMEL N., GÜRKAN R.  
XV. Ulusal Spektroskopi Kongresi (Usk 2017), Yalova 2017, Turkey, 17 - 19 May 2017
- XI. **Using a new surfactant enhanced kinetic spectrophotometry to determine trace amounts of bisphenol A in food samples**  
KARTAL TEMEL N., GÜRKAN R.  
10. Ege Analitik Kimya Günleri (Internaitonal Conference:10th Aegean Analytical Chemistry, 29 September - 02 October 2016
- XII. **Using A New Surfactant Enhanced Kinetic Spectrophotometry to Determine Trace Amounts of Bisphenol A in Food Sample**  
KARTAL TEMEL N., GÜRKAN R.  
10 th Aegean Analytical Chemistry Days, 29 September - 02 October 2016
- XIII. **Bromfenol mavisinin SDS varlığında Cu(II)-perokso kompleksi ile sulu çözeltiden giderimi**  
KARTAL TEMEL N., GÜRKAN R.  
8. Ulusal Analitik Kimya Kongresi, Turkey, 30 May - 03 June 2016
- XIV. **Atıksulardaki Bakır II İyonlarının Karbon Tabanlı Nanomalzemeler ile Giderimi**  
SERTAKAN K., KARTAL TEMEL N., YAPICI K.  
Atıksulardaki Bakır (II) İyonlarının Karbon Tabanlı Nanomalzemeler ile Giderimi, İstanbul, Turkey, 13 - 15 January 2015
- XV. **Decolourization of a Cationic Dye by Advanced Oxidation Process and Biosorption**  
KARTAL TEMEL N., BAĞDA E.  
Esan-2014, III.Eser Analiz Çalıştayı,Tokat, Turkey, 14 - 18 May 2014
- XVI. **Degradation Of Chlorophenols By Advanced Oxidation Methods**  
KARTAL TEMEL N., SÖKMEN M., TATLIDİL İ., SİVLİM T., AKKAN Ş.  
5. Black Sea Basin Conference on Analytical Chemistry, 23-26 Eylül, Fatsa, Ordu, 23 - 26 September 2009
- XVII. **Ultrasonik Bozundurma ile Tekstil Boyar Maddesinde Renk Giderimi**  
KARTAL TEMEL N., GÜRKAN R., ŞİMŞEK M.

- XXIII.Ulusal Kimya Kongresi,Sivas, 2009., Turkey, 16 - 20 June 2009
- XVIII. **Nil Mavisinin Fenton ve Fenton benzeri Yöntemler ile Giderimi**  
KARTAL TEMEL N.  
XXII.Ulusal Kimya Kongresi,6-10 Ekim, Kıbrıs, 2008., Turkey, 6 - 10 October 2008
- XIX. **Copper and vanadium catalyzed Fenton like oxidation of some aromatic compounds**  
KARTAL TEMEL N., SÖKMEN M., ÜNVER SARAYDIN S.  
European Congress of Advanced Oxidation Technologies, 7-9 September, Crete, Greece., 7 - 09 September 2006
- XX. **Synthesis of Some Dimeric Thiophenes and Spectral Evaluation**  
SÖKMEN M., KARTAL N., CESUR T., TİKE B.  
IX. Ulusal Spektroskopi Kongresi. 9-11 Haziran, Ankara., Turkey, 9 - 11 June 2005
- XXI. **The in vitro antioxidant activity of the essential oil and various extracts of Ferula orientalis L**  
KARTAL N., SÖKMEN M., SÖKMEN A., POLİSSİOU M.  
3rd International Symposium on Natural Drugs, Naples, October 2-4, 2003, 2 - 04 October 2003
- XXII. **Farklı İşlemlerle İzole Edilen Bitki Ekstraktlarının Antioksidan Özelliği ve Kromatografik Analizleri**  
SÖKMEN M., Allen D. W. , AKKAŞ F., KARTAL N., ACAR F.  
XVI. Ulusal Kimya Kongresi, Konya 2002, Turkey, 10 September - 13 February 2002

## Supported Projects

Kartal Temel N., Project Supported by Higher Education Institutions, Süt ve Süte Dayalı Ürünlerde Melamin'xxin Ayrılması ve Zenginleştirilmesi Sonrası FAAS ile Tayin Olanaklarının Araştırılması, 2018 - 2020

Kartal Temel N., Project Supported by Higher Education Institutions, FARKLI MATERYALLER İLE ATIKSULARDAN BOYAR MADDE GİDERİMİ, 2016 - 2018

KARTAL TEMEL N., Project Supported by Higher Education Institutions, Grafen Oksitin Hummers Metodu ile Sentezlenmesine Etki Eden Parametrelerin en İyileştirilmesi, 2015 - 2017

## Citations

Total Citations (WOS):467

h-index (WOS):7