

## Assoc. Prof. Mustafa BENER



### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: D-3750-2019

ScopusID: 25951269600

Yoksis Researcher ID: 122321

### Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Kimya Bölümü Analitik Kimya Anabilim Dalı, Turkey 2009 - 2013

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Kimya Bölümü Analitik Kimya Anabilim Dalı, Turkey 2005 - 2009

Undergraduate, Istanbul University, Mühendislik Fakültesi, Kimya, Turkey 2001 - 2005

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, Besin Özütleri ve Serumda Antioksidan Kapasite Ölçümü için Moleküler Spektroskopik Sensörler Geliştirilmesi, Istanbul University, Fen Bilimleri, Kimya/Analitik Kimya, 2013

Postgraduate, Bitki Özütleri ve Tekstil Boyalarındaki Flavonoidler için Spektrofotometrik Analiz Yöntemlerinin Geliştirilmesi, Istanbul University, Fen Bilimleri, Kimya Bölümü Analitik Kimya Anabilim Dalı, 2009

### Research Areas

Chemistry, Analytical Chemistry, Separation Methods, Food Analysis, Chromatographic Analysis, Sample preparation, Sensors, Spectroscopical Methods, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Istanbul University, Faculty of Science, Department of Chemistry, 2022 - Continues

Assistant Professor, Istanbul University, Faculty of Science, Department of Chemistry, 2020 - 2022

Assistant Professor, İstanbul University-Cerrahpaşa, Faculty Of Engineering, Department Of Chemistry, 2018 - 2020

Assistant Professor, İstanbul University-Cerrahpaşa, Faculty Of Engineering, Department Of Chemistry, 2016 - 2018

Research Assistant, İstanbul University-Cerrahpaşa, Faculty Of Engineering, Department Of Chemistry, 2009 - 2016

Other, Louisiana State University and Agricultural and Mechanical College, Agricultural Center, Food Science, 2012 - 2012

## Academic and Administrative Experience

Head of Department, Istanbul University, Faculty Of Science, Department of Chemistry, 2020 - Continues

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, İstanbul University-Cerrahpaşa, 2019 - 2020

Fakülte Yönetim Kurulu Üyesi, İstanbul University-Cerrahpaşa, Faculty Of Engineering, Department Of Chemistry, 2018 - 2020

## Courses

General Chemistry Laboratory II, Undergraduate, 2020 - 2021

Chemistry of Antioxidant Capacity Assays, Postgraduate, 2020 - 2021

General Chemistry II, Undergraduate, 2020 - 2021

Chromatographic Methods in Instrumental Analysis, Postgraduate, 2020 - 2021

General Chemistry II, Undergraduate, 2020 - 2021

General Chemistry I, Undergraduate, 2020 - 2021

General Chemistry Laboratory I, Undergraduate, 2020 - 2021

General Chemistry I, Undergraduate, 2020 - 2021

## Advising Theses

Bener M., Bazı Biyoaktif Kinon Moleküllerinin Kromatografik Tayini, Postgraduate, Y.Çakan(Student), 2024

Bener M., Apak M. R., Nitro- ve peroksit- tipi enerjetik malzemelerin tayini için yeni analitik yöntemlerinin geliştirilmesi, Doctorate, F.BURAK(Student), 2022

Bener M., Bekdeşer B., Yağların Oksidasyon Ürünlerinin Belirlenmesi için Altın Nanopartikül Esaslı Florometrik Nano-Sensör Geliştirilmesi, Postgraduate, N.ELİF(Student), 2022

Bener M., Yeşil Nanoteknoloji ile Sentezlenen Soy Metal Nanoparçacık Esaslı Antioksidan Kapasite Ölçüm Yöntemi Geliştirilmesi, Postgraduate, İ.ÖZTÜRK(Student), 2021

Bener M., Zerdeçaldan Antioksidanların Doğal Derin Ötektik Çözücüler Kullanılarak Mikrodalga Destekli Ekstraksiyonunun Optimizasyonu ve Modellenmesi, Postgraduate, K.DOLDOLVA(Student), 2020

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

- I. **Novel tributyl phosphate-based deep eutectic solvent: Application in microwave assisted extraction of carotenoids**  
Görüşük E. M., LALİKOĞLU M., AŞÇI Y. S., BENER M., BEKDEŞER B., APAK M. R.  
Food Chemistry, vol.459, 2024 (SCI-Expanded)
- II. **Investigating the Structural and Antimicrobial Properties of Wheat Gluten Nanocomposite Film Containing Zinc Oxide Nanoparticles and Quercetin Nanoliposomes**  
Bakeshlou H., Pirsas S., Mohtarami F., BENER M.  
Journal of Polymers and the Environment, vol.32, no.10, pp.4925-4944, 2024 (SCI-Expanded)
- III. **Investigation and modeling of oxidative TNT degradation using Fe(II)-EDTA in conjunction with**

## **K2S2O8 and H2O2**

Uzunboy S., BENER M., Demirci-Çekiç S., APAK M. R.

International Journal of Environmental Science and Technology, vol.21, no.13, pp.8647-8660, 2024 (SCI-Expanded)

- IV. **Biodegradable film of carboxymethyl cellulose modified with red onion peel powder waste and boron nitride nanoparticles: Investigation of physicochemical properties and release of active substances**  
Pirsa S., BENER M., ŞEN F. B.  
Food Chemistry, vol.445, 2024 (SCI-Expanded)
- V. **Amperometric sensor for total antioxidant capacity measurement using Cu (II)-neocuproine/carrageenan-MWCNT/GCE**  
Şen F. B., Elmas E., Dilgin Y., Bener M., Apak R.  
MICROCHEMICAL JOURNAL, vol.199, 2024 (SCI-Expanded)
- VI. **Determination of primary and secondary oxidation products in vegetable oils with gold nanoparticle based fluorometric turn-on nanosensor: A new total oxidation value**  
BEKDEŞER B., Esin Çelik S., BENER M., DONDURMACIOĞLU F., Yıldırım E., Nida Yavuz E., APAK M. R.  
Food Chemistry, vol.434, 2024 (SCI-Expanded)
- VII. **Microwave-assisted extraction of valuable phenolics from sunflower pomace with natural deep eutectic solvents and food applications of the extracts**  
ŞEN F. B., Nemli E., BEKDEŞER B., ÇELİK S. E., LALİKOĞLU M., AŞCI Y. S., Çapanoğlu Güven E., BENER M., APAK M. R.  
Biomass Conversion and Biorefinery, 2024 (SCI-Expanded)
- VIII. **Recent progress in promoting the bioavailability of polyphenols in plant-based foods**  
Tomaş M., Wen Y., Liao W., Zhang L., Zhao C., McClements D. J., Nemli E., BENER M., APAK M. R., Çapanoğlu Güven E.  
Critical Reviews in Food Science and Nutrition, 2024 (SCI-Expanded)
- IX. **Special Issue on Antioxidants in Natural Products II**  
Calokerinos A. C., BENER M., Proestos C., Tarantilis P.  
Applied Sciences (Switzerland), vol.13, no.1, 2023 (SCI-Expanded)
- X. **Selective determination of 2,4,6-Trinitrotoluene (TNT) with cysteamine in deep eutectic solvents**  
Şen F. B., Bener M., Aşçı Y. S., Lalikoglu M., Apak M. R.  
JOURNAL OF MOLECULAR LIQUIDS, vol.367, 2022 (SCI-Expanded)
- XI. **Protamine gold nanoclusters - based fluorescence turn-on sensor for rapid determination of Trinitrotoluene (TNT)**  
Bener M., Sen F. B., APAK M. R.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.279, 2022 (SCI-Expanded)
- XII. **Special Issue on Antioxidants in Natural Products**  
Calokerinos A. C., Apak R., Bener M.  
APPLIED SCIENCES, vol.12, pp.8715, 2022 (SCI-Expanded)
- XIII. **Microwave-assisted extraction of antioxidant compounds from by-products of Turkish hazelnut (Corylus avellana L.) using natural deep eutectic solvents: Modeling, optimization and phenolic characterization**  
BENER M., Şen F. B., ÖNEM A. N., BEKDEŞER B., ÇELİK S. E., LALİKOĞLU M., AŞCI Y. S., Çapanoğlu Güven E., APAK M. R.  
FOOD CHEMISTRY, vol.385, 2022 (SCI-Expanded)
- XIV. **Fluorescence turn-off sensing of TNT by polyethylenimine capped carbon quantum dots**  
Şen F. B., Beğic N., BENER M., APAK M. R.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.271, 2022 (SCI-Expanded)
- XV. **Antioxidant capacity measurement based on kappa-carrageenan stabilized and capped silver nanoparticles using green nanotechnology**  
Ozturk I., Begic N., Bener M., Apak R.

JOURNAL OF MOLECULAR STRUCTURE, vol.1242, 2021 (SCI-Expanded)

- XVI. **Development of a green synthesized silver nanoparticle-based antioxidant capacity method using carob extract**  
Begic N., Bener M., Apak M. R.  
JOURNAL OF NANOSTRUCTURE IN CHEMISTRY, vol.11, pp.381-394, 2021 (SCI-Expanded)
- XVII. **Optimization and modeling of microwave-assisted extraction of curcumin and antioxidant compounds from turmeric by using natural deep eutectic solvents**  
Doldolova K., BENER M., LALİKOĞLU M., AŞCI Y. S., Arat R., APAK M. R.  
FOOD CHEMISTRY, vol.353, 2021 (SCI-Expanded)
- XVIII. **A Simple Determination of Trinitrotoluene (TNT) Based on Fluorescence Quenching of Rhodamine 110 with FRET Mechanism**  
Şen F. B., BENER M., APAK M. R.  
JOURNAL OF FLUORESCENCE, vol.31, no.4, pp.989-997, 2021 (SCI-Expanded)
- XIX. **Iron(III) complexes based on tetradentate thiosemicarbazones: Synthesis, characterization, radical scavenging activity and in vitro cytotoxicity on K562, P3HR1 and JURKAT cells**  
Kalindemirtas F. D., KAYA B., Bener M., ŞAHİN O., Kuruca S. E., BAL DEMİRCİ T., ÜLKÜSEVEN B.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.35, no.4, 2021 (SCI-Expanded)
- XX. **Redox-based colorimetric sensing of H<sub>2</sub>O<sub>2</sub> after removal of antioxidants with ABTS radical oxidation**  
Sen F. B., Bener M., Bekdeşer B., Apak M. R.  
Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, vol.248, 2021 (SCI-Expanded)
- XXI. **Colorimetric sensors and nanoprobe for characterizing antioxidant and energetic substances**  
APAK M. R., DEMİRCİ ÇEKİÇ S., Uzer A., Çapanoğlu Güven E., ÇELİK S. E., BENER M., CAN Z., Durmazel S.  
ANALYTICAL METHODS, no.44, pp.5266-5321, 2020 (SCI-Expanded)
- XXII. **ABTS radical-based single reagent assay for simultaneous determination of biologically important thiols and disulfides.**  
Gorusuk E. M., BEKDEŞER B., BENER M., APAK M. R.  
Talanta, vol.218, pp.121212, 2020 (SCI-Expanded)
- XXIII. **Novel pararosaniline based optical sensor for the determination of sulfite in food extracts**  
BENER M., Sen F. B., APAK M. R.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, 2020 (SCI-Expanded)
- XXIV. **A novel gold nanocluster-based fluorometric biosensor for measuring prooxidant activity with a large Stokes shift**  
Akyüz E., Sen F. B., Bener M., Bakan K. S., Apak R.  
TALANTA, vol.208, 2020 (SCI-Expanded)
- XXV. **Modeling and optimizing microwave-assisted extraction of antioxidants from Thymbra Spicata L. and characterization of their phenolic constituents**  
BENER M.  
FOOD SCIENCE AND BIOTECHNOLOGY, vol.28, no.6, pp.1733-1745, 2019 (SCI-Expanded)
- XXVI. **Optimization of Microwave-Assisted Extraction (MAE) for the Isolation of Antioxidants from Basil (Ocimum basilicum L.) by Response Surface Methodology (RSM)**  
SEN F. B., ASCI Y. S., Bekdeser B., Bener M., Apak R.  
ANALYTICAL LETTERS, vol.52, no.17, pp.2751-2763, 2019 (SCI-Expanded)
- XXVII. **Protein-Protected Gold Nanocluster-Based Biosensor for Determining the Prooxidant Activity of Natural Antioxidant Compounds**  
Akyuz E., SEN F. B., Bener M., Baskan K., Tutem E., APAK R.  
ACS OMEGA, vol.4, no.1, pp.2455-2462, 2019 (SCI-Expanded)
- XXVIII. **Carrageenan-based colorimetric sensor for total antioxidant capacity measurement**  
Bener M., Sen F. B., Kasgoz A., Apak R.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.273, pp.439-447, 2018 (SCI-Expanded)
- XXIX. **Iron(III) and nickel(II) complexes with S-alkyl (n-C1-6)-thiosemicarbazidato ligands: Synthesis, structural characterization, and antioxidant features**

- Kaya B., ŞAHİN O., Bener M., Ulkuseven B.  
JOURNAL OF MOLECULAR STRUCTURE, vol.1167, pp.16-22, 2018 (SCI-Expanded)
- XXX. **Heparin-stabilized gold nanoparticles-based CUPRAC colorimetric sensor for antioxidant capacity measurement**  
Bener M., Sen F. B., Apak R.  
TALANTA, vol.187, pp.148-155, 2018 (SCI-Expanded)
- XXXI. **A simple automated microplate method for determining reducing sugars in food extracts and synthetic serum using cupric-neocuproine as reductant**  
Bener M., Akyuz E., Sen F. B., Baskan K. S., Tutem E., Apak R.  
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.3, pp.794-807, 2018 (SCI-Expanded)
- XXXII. **Novel optical sensor-based method for determining total tocopherol content in serum**  
BENER M., APAK M. R.  
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.6, pp.1687-1694, 2018 (SCI-Expanded)
- XXXIII. **Novel Spectroscopic and Electrochemical Sensors and Nanoprobes for the Characterization of Food and Biological Antioxidants**  
Apak R., Cekic S. D., Uzer A., Celik S. E., Bener M., Bekdeser B., Can Z., Saglam S., Onem A. N., Erçağ E.  
SENSORS, vol.18, no.1, 2018 (SCI-Expanded)
- XXXIV. **Ferric-o-phenanthroline adsorbed on a Nafion membrane: A novel optical sensor for antioxidant capacity measurement of food extracts**  
Bener M., Apak R.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.247, pp.155-162, 2017 (SCI-Expanded)
- XXXV. **Rapid adsorptive removal of naphthalene from water using graphene nanoplatelet/MIL-101 (Cr) nanocomposite**  
Bayazit S. S., Yildiz M., Asci Y. S., Sahin M., Bener M., Eglence S., SALAM M. A.  
Journal of Alloys and Compounds, vol.701, pp.740-749, 2017 (SCI-Expanded)
- XXXVI. **Optimization of Microwave-Assisted Extraction of Curcumin from Curcuma longa L. (Turmeric) and Evaluation of Antioxidant Activity in Multi-Test Systems**  
Bener M., Ozyurek M., Guclu K., Apak R.  
RECORDS OF NATURAL PRODUCTS, vol.10, no.5, pp.542-554, 2016 (SCI-Expanded)
- XXXVII. **Changes of the Anthocyanins and Antioxidant properties of Concord Grape (Vitis labrusca) Pomace After Acid Hydrolysis**  
Bener M., Shen Y., Xu Z., Apak R.  
RECORDS OF NATURAL PRODUCTS, vol.10, no.6, pp.794-799, 2016 (SCI-Expanded)
- XXXVIII. **Antioxidant/antiradical properties of microwave-assisted extracts of three wild edible mushrooms**  
Ozyurek M., Bener M., Guclu K., Apak R.  
FOOD CHEMISTRY, vol.157, pp.323-331, 2014 (SCI-Expanded)
- XXXIX. **Novel oxime based flavanone, naringin-oxime: Synthesis, characterization and screening for antioxidant activity**  
Ozyurek M., Akpınar D., Bener M., Turkkan B., Guclu K., Apak R.  
CHEMICO-BIOLOGICAL INTERACTIONS, vol.212, pp.40-46, 2014 (SCI-Expanded)
- XL. **Novel Optical Fiber Reflectometric CUPRAC Sensor for Total Antioxidant Capacity Measurement of Food Extracts and Biological Samples**  
Bener M., Ozyurek M., Guclu K., Apak R.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.61, no.35, pp.8381-8388, 2013 (SCI-Expanded)
- XLI. **Release and Degradation of Anthocyanins and Phenolics from Blueberry Pomace during Thermal Acid Hydrolysis and Dry Heating**  
Bener M., Shen Y., Apak R., Finley J. W., Xu Z.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.61, no.27, pp.6643-6649, 2013 (SCI-Expanded)
- XLII. **Evaluation of antioxidant activity of crataegus species collected from different regions of Turkey**  
Ozyurek M., Bener M., Guclu K., DÖNMEZ A., Suzgec-Selcuk S., Pirildar S., Mericli A. H., Apak R.  
Records of Natural Products, vol.6, no.3, pp.263-277, 2012 (SCI-Expanded)

- XLIII. **Synthesis, characterization and antioxidant capacity of naringenin-oxime**  
Turkkan B., Ozyurek M., Bener M., Guclu K., Apak R.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.85, no.1, pp.235-240, 2012 (SCI-Expanded)
- XLIV. **Polyphenolic contents of natural dyes produced from industrial plants assayed by HPLC and novel spectrophotometric methods**  
Bener M., Ozyurek M., Guclu K., Apak R.  
INDUSTRIAL CROPS AND PRODUCTS, vol.32, no.3, pp.499-506, 2010 (SCI-Expanded)
- XLV. **Development of a Low-Cost Optical Sensor for Cupric Reducing Antioxidant Capacity Measurement of Food Extracts**  
Bener M., Ozyurek M., Guclu K., Apak R.  
ANALYTICAL CHEMISTRY, vol.82, no.10, pp.4252-4258, 2010 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Major Achievements in the Analytical Chemistry of Antioxidants and Explosives**  
Apak M. R., Arda A., Demirci Çekiç S., Çelik S. E., Bener M., Bekdeşer B., Can Z., Sağlam Ş.  
AsiaChem, vol.4, no.1, pp.90-107, 2024 (Non Peer-Reviewed Journal)
- II. **Eco-friendly antibacterial/antioxidant photoluminescent film based on gelatin/phycoerythrin liposome/zero-valent nano iron/gold-iridium pigment**  
Eslami A., Pirsä S., Mohtarami F., BENER M.  
Chemical Review and Letters, vol.7, no.3, pp.689-700, 2024 (Scopus)
- III. **Modeling and Optimizing of Microwave-Assisted Extraction of Antioxidants and Phenolics from Wormwood (*Artemisia absinthium* L.) Using Response Surface Methodology**  
Bener M.  
İğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.10, no.1, pp.357-367, 2020 (Peer-Reviewed Journal)
- IV. **Antioksidanları Belirlemede Yeni Bir Yöntem: CUPRAC**  
APAK M. R., GÜÇLÜ K., ÖZYÜREK M., ÇELİK S. E., BEKDEŞER B., BENER M.  
Tübitak Bilim ve Teknik Dergisi, no.528, pp.56-59, 2011 (Non Peer-Reviewed Journal)

## Books & Book Chapters

- I. **The CUPRAC method, its modifications and applications serving green chemistry**  
Apak M. R., Bener M., Çelik S. E., Bekdeşer B., Şen F. B.  
in: Green Analytical Chemistry, Marcello Locatelli, Savaş Kaya, Editor, Elsevier Science, Oxford/Amsterdam , Amsterdam, pp.357-383, 2025
- II. **The Cuprac Methods Of Antioxidant Measurement For Beverages**  
APAK M. R., ÖZYÜREK M., GÜÇLÜ K., BEKDEŞER B., BENER M.  
in: Processing and Impact on Antioxidants in Beverages, Victor R. Preedy, Editor, Elsevier Inc., Waltham-Ma, pp.233-244, 2014
- III. **CUPRAC (cupric ion reducing antioxidant capacity) assay for antioxidants in human serum, and for hydroxyl radical scavengers**  
APAK M. R., GÜÇLÜ K., ÖZYÜREK M., BEKDEŞER B., BENER M.  
in: Methods in Molecular Biology: Advanced Protocols in Oxidative Stress II, Armstrong D. , Editor, Humana Press, Inc. , New York, pp.215-239, 2010
- IV. **CUPRAC (cupric ion reducing antioxidant capacity) assay for food antioxidants: vitamins, polyphenolics, and flavonoids in food extracts**  
APAK M. R., GÜÇLÜ K., ÖZYÜREK M., BEKDEŞER B., BENER M.  
in: Methods in Molecular Biology, Advanced Protocols in Oxidative Stress I, Armstrong D. , Editor, Humana Press,

## Refereed Congress / Symposium Publications in Proceedings

- I. **Extraction of Valuable Bioactive Components from Hazelnut By-Products Using Green Extraction Methods**  
Bener M., Elmas E., Kublay İ. Z., Şen F. B., Apak M. R.  
11th International Seminar on Chemistry and Environment, Tabriz, Iran, 27 - 29 August 2024, pp.50
- II. **Organofosfitlerin Antioksidan Kapasitelerinin Belirlenmesi**  
Çelebi İ., Elmas E., Şen F. B., Bener M., Apak M. R.  
VI. Eser Analiz Kongresi, Manisa, Turkey, 5 - 08 September 2024, pp.1
- III. **Demir(III) İyonu İndirgeme Esaslı Çift Modlu Antioksidan Kapasite Tayin Sensörü**  
Elmas E., Şen F. B., Bener M., Apak M. R.  
VI. Eser Analiz Kongresi, Manisa, Turkey, 5 - 08 September 2024, pp.1
- IV. **Çay Posasından Antioksidanların Yeşil Çözücüler ile Mikrodalga ve Ultrases Destekli Ekstraksiyonu**  
Yermeydan Peker M., Şen F. B., Lalikoğlu M., Aşçı Y. S., Bener M., Apak M. R.  
VI. Eser Analiz Kongresi, Manisa, Turkey, 5 - 08 September 2024, pp.1
- V. **Toplam Antioksidan Kapasite Tayini için Hidrojel Esaslı Kolorimetrik Sensör Geliştirilmesi**  
Arslan S. N., Gedik Z. R., Yaman M., Yermeydan Peker M., Şen F. B., Bener M., Apak M. R.  
VI. Eser Analiz Kongresi, Manisa, Turkey, 5 - 08 September 2024, pp.1
- VI. **Kahve Posasından Antioksidanların Yeşil Çözücüler ile Mikrodalga ve Ultrases Destekli Ekstraksiyonu**  
Şen F. B., Yermeydan Peker M., Lalikoğlu M., Aşçı Y. S., Bener M., Apak M. R.  
VI. Eser Analiz Kongresi, Manisa, Turkey, 5 - 08 September 2024, pp.1
- VII. **Zerdeçaldan Antioksidan Bileşiklerin Ekstraksiyonu için Mikrodalga ve Ultrases Destekli Ekstraksiyon Yöntemlerinin Modellenmesi ve Optimizasyonu**  
Yaman M., Gençay G., Arslan S. N., Yermeydan Peker M., Şen F. B., Bener M., Apak M. R.  
VI. Eser Analiz Kongresi, Manisa, Turkey, 5 - 08 September 2024, pp.1
- VIII. **Antioksidan Kapasite Tayini için CUPRAC Esaslı Modifiye Elektrot Geliştirme**  
Şahin S., Elmas E., Şen F. B., Bener M., Apak M. R.  
VI. Eser Analiz Kongresi, Manisa, Turkey, 5 - 08 September 2024, pp.1
- IX. **CUPRAC Yönteminin Pratik Ölçüm Yöntemine Dönüştürülmesi için İlk Adımlar**  
Yeşilyurt G., Şen F. B., Bener M., Apak M. R.  
VI. Eser Analiz Kongresi, Manisa, Turkey, 5 - 08 September 2024, pp.1
- X. **CUPRAC Yönteminin Doğal Ötektik Çözeltilerde Hazırlanan Antioksidan Bileşiklere Uygulanması**  
Kublay İ. Z., Şen F. B., Bener M., Apak M. R.  
VI. Eser Analiz Kongresi, Manisa, Turkey, 5 - 08 September 2024, pp.1
- XI. **Development of Practical Measurement Methods in Antioxidant Capacity Determinations**  
Bener M.  
11th International Seminar on Chemistry and Environment, Tabriz, Iran, 27 - 29 August 2024, pp.40
- XII. **Gıda Örneklerinde Toplam Antioksidan Kapasite Tayini için Optik Sensör Geliştirilmesi**  
Kublay İ. Z., Şen F. B., Bener M., Apak M. R.  
17. Ulusal Spektroskopi Kongresi, Zonguldak, Turkey, 30 May - 01 June 2024, pp.39
- XIII. **Yeşil Ekstraksiyon Yöntemleri Kullanılarak Fındık Yan Ürünlerinden Değerli Biyoaktif Bileşenlerin Ekstraksiyonu**  
Elmas E., Şen F. B., Bener M., Apak M. R.  
17. Ulusal Spektroskopi Kongresi, Zonguldak, Turkey, 30 May - 01 June 2024, pp.50
- XIV. **Cu(II)-Neokuproin/Karragenan-MWCNT/GCE Kullanılarak Toplam Antioksidan Kapasite Ölçümü için Amperometrik Sensör Geliştirilmesi**  
Şen F. B., Elmas E., Dilgin Y., Bener M., Apak M. R.

17. Ulusal Spektroskopi Kongresi, Zonguldak, Turkey, 30 May - 01 June 2024, pp.66
- XV. **Gıda Örneklerinde Toplam Antioksidan Kapasite Tayini için Cu(II)- Batokuproin Disülfonat Kompleksi Esaslı Çift Modlu Tayin Sistemi**  
Yermeydan Peker M., Şen F. B., Bener M., Apak M. R.  
17. Ulusal Spektroskopi Kongresi, Zonguldak, Turkey, 30 May - 01 June 2024, pp.40
- XVI. **Spektroskopik Sensörlerin Kararlılığını, Duyarlılığını ve Seçimliliğini Arttırmaya Yönelik Bazı İpuçları: Antioksidan ve Patlayıcı Sensörlerinden Örnekler**  
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17. Ulusal Spektroskopi Kongresi, Zonguldak, Turkey, 30 May - 01 June 2024, pp.23
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Apak M. R., Arda A., Demirci Çekiç S., Sözgen Başkan K., Çelik S. E., Bener M., Dondurmacoğlu F., Bekdeşer B., TUBITAK Project, Lipid hidroperoksitler, peroksit-esaslı patlayıcılar ve organofosfor pestisitlerden doğrudan ve dolaylı yöntemlerle türetilen peroksitlerin tayini için optik, elektrokimyasal ve nano-kolorimetrik sensörler geliştirilmesi , 2020 - 2022

Bener M., Öztürk İ., Project Supported by Higher Education Institutions, Yeşil Nanoteknoloji ile Sentezlenen Soy Metal Nanoparçacık Esaslı Antioksidan Kapasite Ölçüm Yöntemi Geliştirilmesi, 2020 - 2021

Bekdeşer B., Bener M., Apak M. R., Demir Sağlam S., TUBITAK Project, Toplam tiyol tayini için yeni bir spektrofotometrik yöntem geliştirilmesi, 2019 - 2021

Sözgen Başkan K., Apak M. R., Demirci Çekiç S., Çelik S. E., Bekdeşer B., Bener M., Akyüz E., TAGEM Tarımsal Araştırmalar ve Politikalar Genel Müdürlüğü Projesi, Endüstriyel atıklardan kazanılan antosiyaninlerin mikroenkapsülasyonu ve işlenmiş gıdalarda kullanımı, 2018 - 2021

Apak M. R., Sözgen Başkan K., Çelik S. E., Demirci Çekiç S., Bekdeşer B., Bener M., Dondurmacoğlu F., Önem A. N., TAGEM Tarımsal Araştırmalar ve Politikalar Genel Müdürlüğü Projesi, Türkiye’de yetişen bazı tıbbi ve aromatik bitkilerden hazırlanmış ticari ürünlerin karakterizasyonu ve karşılaştırılması, 2016 - 2020

Şen F. B., Bener M., Apak M. R., Project Supported by Higher Education Institutions, Antioksidan Kapasite Ölçümü için Heparin Stabilize Altın Nanopartikül Esaslı CUPRAC Kolorimetrik Sensörü, 2018 - 2019

Şen F. B., Akyüz E., Bener M., Apak M. R., Tütem E., Project Supported by Higher Education Institutions, Fenolik Bileşiklerin Prooksidan Aktivite Tayini İçin Altın Nanoküme Esaslı Biyosensör Geliştirilmesi, 2018 - 2019

BENER M., APAK M. R., Project Supported by Higher Education Institutions, Demir o-fenantrolin Esaslı Optik Sensör Kullanılarak Gıda Özütlerinde Antioksidan Kapasite Tayini, 2018 - 2018

Bener M., Kaşgöz A., Apak M. R., TUBITAK Project, Gıda Özütlerinde Antioksidan Kapasite Tayini İçin Düşük Maliyetli Doğal Polimer Film Esaslı Optik Sensör Geliştirilmesi,, 2016 - 2018

BENER M., KAŞGÖZ A., ŞEN F. B., APAK M. R., Project Supported by Higher Education Institutions, Natural Polymer Film-Based Optical Sensor for Food Antioxidants, 2017 - 2017

SAĞLAM Ş., DEMİRCİ ÇEKİÇ S., ÇELİK S. E., BENER M., BEKDEŞER B., CAN Z., ÖNEM A. N., Project Supported by Higher Education Institutions, Optical Sensors and Nanoprobes for Antioxidant Assessment, 2017 - 2017

BENER M., APAK M. R., Project Supported by Higher Education Institutions, Gıdalarda Toplam Antioksidan Kapasite Tayini için Demir Esaslı Optik Sensör Geliştirilmesi, 2016 - 2017

ÖZYÜREK M., APAK M. R., GÜÇLÜ K., BEKDEŞER B., BENER M., KIBRISLIOĞLU G., DURUSOY N., Project Supported by Higher Education Institutions, *Hypericum Scabrum L., Papaver fugax var. Poiret platydiscus cullen ve Achillea Vermicularis Trin.* şifalı bitkilerinin antioksidan özelliklerinin incelenmesi, 2016 - 2017

BENER M., Project Supported by Higher Education Institutions, Asit Hidroliz Sırasında Concord Üzüm (*Vitis Labrusca*) Posasının Antioksidan Özelliklerinin Karşılaştırılması, 2015 - 2016

BENER M., Project Supported by Higher Education Institutions, Yaban Mersini Posasında Bulunan Antosiyanin ve Fenolik Bileşenlerin Isıl Asit Hidrolizi ve Kuru Isıtma İşlemleri ile Saliverilme ve Bozunma Miktarlarının İncelenmesi, 2014 - 2015

AKYÜZ E., ÖZYÜREK M., APAK M. R., ÜSTÜN ALKAN F., BEKDEŞER B., GÜÇLÜ K., BENER M., TUBITAK Project, Biyolojik Örneklerde ve Gıda Ekstraktlarında Reaktif Oksijen Türleri Süpürme Etkinliği ve Antioksidan Enzim Aktivite Ölçümü İçin Moleküler Spektroskopik Sensör Geliştirilmesi, 2011 - 2013

ÖZYÜREK M., AKYÜZ E., ALTUN M., BENER M., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Gıda Antioksidanları Ar-Ge Merkezi, 2011 - 2013

BEKDEŞER B., BENER M., ÖZYÜREK M., ÇELİK S. E., GÜÇLÜ K., TUBITAK Project, Hidroksil ve Süperoksit Radikallerinin Süpürülmesine Dayalı Yeni Antioksidan Aktivite Tayin Yöntemlerinin Geliştirilmesi, 2007 - 2009

## Patent

Bener M., Apak M. R., Toplam Antioksidan Kapasite Tayini için Bir Yöntem, Bir Algılama Birimi ve Bunun Üretim Yöntemi, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: TR 2017 06776 B , Standard Registration, 2022

Apak M. R., Güçlü K., Özyürek M., Bener M., OPTICAL SENSOR-BASED CUPRIC REDUCING ANTIOXIDANT CAPACITY (CUPRAC) ASSAY, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: 8912004 , 2014

## Activities in Scientific Journals

European Journal of Biology, Editor, 2024 - Continues

ACTA BIOCHIMICA POLONICA, Special Issue Editor, 2024 - Continues

TALANTA, Special Issue Editor, 2023 - Continues

Disiplinlerarası Yenilik Araştırmaları Dergisi, Editor, 2022 - Continues

Molecules, Special Issue Editor, 2021 - Continues

Disiplinlerarası Yenilik Araştırmaları Dergisi, Scientific Committee Membership, 2021 - Continues

APPLIED SCIENCES-BASEL, Special Issue Editor, 2020 - Continues

APPLIED SCIENCES-BASEL, Special Issue Editor, 2019 - 2020

## Memberships / Tasks in Scientific Organizations

Sustainable Network for agrofood loss and waste prevention, management, quantification and valorisation (FoodWaStop) (COST Action CA22134), Member, 2024 - Continues, Belgium

ROSS-BORDER TRANSFER AND DEVELOPMENT OF SUSTAINABLE RESOURCE RECOVERY STRATEGIES TOWARDS ZERO WASTE (FULLRECO4US) (COST Action CA20133), Member, 2024 - Continues, Belgium

BEekeeping products valorization and biomonitoring for the SAFETY of BEEs and HONEY (COST Action CA22105), Member, 2024 - Continues, Belgium

TÜBA Genç Akademi, Member, 2023 - Continues, Turkey

Türkiye Kimya Derneği, Member, 2009 - Continues

## Scientific Refereeing

MARINE DRUGS, Journal Indexed in SCI-E, April 2022

JOURNAL OF MOLECULAR LIQUIDS, Journal Indexed in SCI-E, April 2022  
INTERNATIONAL JOURNAL OF ENVIRONMENTAL RESEARCH, Journal Indexed in SCI-E, April 2022  
INTERNATIONAL JOURNAL OF FOOD SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, March 2022  
ERCİYES ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, March 2022  
JOURNAL OF FOOD COMPOSITION AND ANALYSIS, Journal Indexed in SCI-E, March 2022  
LWT-FOOD SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, March 2022  
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, February 2022  
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ACS APPLIED NANO MATERIALS, Journal Indexed in ESCI, August 2020  
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TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, April 2019  
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, April 2019  
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, Journal Indexed in SCI-E, April 2019  
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, March 2019  
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, February 2019  
Journal of Molecular Structure, SCI Journal, August 2018  
Talanta, SCI Journal, June 2018  
Natural Product Research, SCI Journal, March 2018  
Journal of Analytical Methods in Chemistry, SCI Journal, December 2016  
Journal of Food Science, SCI Journal, November 2016  
Journal of Analytical Methods in Chemistry, SCI Journal, October 2016  
Journal of Analytical Methods in Chemistry, SCI Journal, September 2016  
Natural Product Research, SCI Journal, March 2012  
Natural Product Research, SCI Journal, September 2011  
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Natural Product Research, SCI Journal, August 2011

## **Tasks In Event Organizations**

Apak M. R., Özyürek M., Güçlü K., Çelik S. E., Bener M., Bekdeşer B., Workshop on Antioxidant Measurement Assay Methods, Scientific Congress, İstanbul, Turkey, Nisan 2010

## **Metrics**

Publication: 134

Citation (WoS): 916

Citation (Scopus): 917

H-Index (WoS): 19

H-Index (Scopus): 19

## **Congress and Symposium Activities**

10. Ulusal Analitik Kimya Kongresi, Attendee, Muğla, Turkey, 2022

34. Ulusal Kimya Kongresi, Attendee, Yalova, Turkey, 2022

11th Aegean Analytical Chemistry Days (AACD2018), Attendee, Hania, Greece, 2018

19th International Conference on Oxidative Stress Reduction, Redox Homeostasis and Antioxidants, Attendee, Paris, France, 2017  
6th EuCheMS Chemistry Congress, Attendee, Sevilla, Spain, 2016  
10th Aegean Analytical Chemistry Days (AACD2016), Attendee, Çanakkale, Turkey, 2016  
International Conference on Applied Chemistry and Technology (ICACT 2015), Attendee, Guilin, China, 2015  
3. Ulusal Kimya Mühendisliği Öğrenci Kongresi, Attendee, İstanbul, Turkey, 2015  
Workshop on Determining Antioxidants as Reactive Species Scavengers, Attendee, İstanbul, Turkey, 2014  
5th Black Sea Basin Conference on Analytical Chemistry, Attendee, Ordu, Turkey, 2009  
XI. Ulusal Spektroskopi Kongresi, Attendee, Ankara, Turkey, 2009  
6th Aegean Analytical Chemistry Days, Attendee, Denizli, Turkey, 2008  
X. Ulusal Spektroskopi Kongresi, Attendee, İzmir, Turkey, 2007  
ICCULHER-2007, The International Congress on Spectroscopic Methods for Conservation of Cultural Heritage, Attendee, İstanbul, Turkey, 2007

## **Scholarships**

2214-Yurtdışı Araştırma Bursu, TÜBİTAK, 2012 - 2012

## **Awards**

Bener M., 2022 TÜBA-GEBİP (Outstanding Young Scientist) Award, Türkiye Bilimler Akademisi (Tüba), October 2022

## **Non Academic Experience**

Louisiana State University-Food Science Department  
Roche İlaç Sanayi