

Assoc. Prof. Mustafa BENER



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International Researcher IDs

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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), Continues

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.DOLDOLOVA(Student), 2020

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)

- III. **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)
- IV. **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, 2024 (SCI-Expanded)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **Special Issue on Antioxidants in Natural Products**
Calokerinos A. C., Apak R., Bener M.
APPLIED SCIENCES, vol.12, pp.8715, 2022 (SCI-Expanded)
- IX. **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., AŞÇI Y. S., Çapanoğlu Güven E., APAK M. R.
FOOD CHEMISTRY, vol.385, 2022 (SCI-Expanded)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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., AŞÇI Y. S., Arat R., APAK M. R.
FOOD CHEMISTRY, vol.353, 2021 (SCI-Expanded)
- XIV. **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)
- XV. **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)

- XVI. **Redox-based colorimetric sensing of H₂O₂ 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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **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)
- XXI. **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)
- XXII. **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)
- XXIII. **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)
- XXIV. **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)
- XXV. **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)
- XXVI. **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)
- XXVII. **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)
- XXVIII. **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)
- XXIX. **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)
- XXX. **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)
- XXXI. **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)
- XXXII. **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)
- XXXIII. **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)
- XXXIV. **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)
- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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)
- XXXVIII. **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)
- XXXIX. **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)
- XL. **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)
- XLI. **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. **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)
- II. **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 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
- II. **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
- III. **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, Inc. , New York, pp.163-193, 2009

Refereed Congress / Symposium Publications in Proceedings

- I. **DEVELOPMENT OF HYDROGEL-BASED COLORIMETRIC ANTIOXIDANT CAPACITY SENSOR**
Yermeydan Peker M., Bener M., Apak M. R.
12TH AEGEAN ANALYTICAL CHEMISTRY DAYS, İstanbul, Turkey, 19 - 22 October 2023, pp.256
- II. **EXTRACTION OF ANTIOXIDANTS FROM BLACK CARROT POMACE BY USING MICROWAVE ASSISTED EXTRACTION AND ITS USING FOR GREEN SYNTHESIS OF SILVER NANOPARTICLES**
GENÇDAL B., ÖZDEMİR A. P., YERMEYDAN PEKER M., ŞEN F. B., BENER M., APAK M. R.
12TH AEGEAN ANALYTICAL CHEMISTRY DAYS, Turkey, 19 - 22 October 2023
- III. **Cu(II)Nc/Car-MWCNT MODIFIED ELECTRODE FOR ANTIOXIDANT CAPACITY MEASUREMENT**
ELMAS E., ŞEN F. B., DİLGİN Y., BENER M., APAK M. R.
12TH AEGEAN ANALYTICAL CHEMISTRY DAYS, Turkey, 19 - 22 October 2023
- IV. **DUAL-FUNCTION ANTIOXIDANT CAPACITY MEASUREMENT USING A SINGLE CHROMOGENIC REAGENT**
YERMEYDAN PEKER M., ŞEN F. B., BENER M., APAK M. R.
12TH AEGEAN ANALYTICAL CHEMISTRY DAYS, Turkey, 19 - 22 October 2023
- V. **EXTRACTION OF ANTIOXIDANTS FROM TURMERIC BY USING GREEN EXTRACTION TECHNIQUES: MODELING AND OPTIMIZING**
YAMAN M., GENÇAY G., ARSLAN S. N., YERMEYDAN PEKER M., ŞEN F. B., BENER M., APAK M. R.
12TH AEGEAN ANALYTICAL CHEMISTRY DAYS, Turkey, 19 October 2023
- VI. **DETERMINATION OF TOTAL ANTIOXIDANT CAPACITY USING MODIFIED ELECTRODE**
Şahin S., Elmas E., Şen F. B., Bener M., Apak M. R.
12TH AEGEAN ANALYTICAL CHEMISTRY DAYS, İstanbul, Turkey, 19 October 2023
- VII. **RECENT DEVELOPMENTS IN THE DETERMINATION OF ANTIOXIDANT ACTIVITY AND OXIDATIVE STATUS USING SPECTROSCOPIC AND ELECTROANALYTICAL METHODS, ALSO INCORPORATING**

NANOTECHNOLOGY

Apak M. R., Demirci Çekiç S., Arda A., Çelik S. E., Bekdeşer B., Bener M., Can Z., Sağlam Ş.

12TH AEGEAN ANALYTICAL CHEMISTRY DAYS, İstanbul, Turkey, 19 - 22 October 2023, pp.12

VIII. **A NOVEL 1,10-PHENANTHROLINE-BASED DUAL-FUNCTIONAL ANTIOXIDANT CAPACITY SENSOR**

ŞEN F. B., ELMAS E., BENER M., APAK M. R.

12TH AEGEAN ANALYTICAL CHEMISTRY DAYS, Turkey, 19 - 22 October 2023

IX. **A Novel Hydrogel Beads Based Antioxidant Capacity Sensor**

Yermeydan Peker M., Bener M., Apak M. R.

19th Asian Chemical Congress, İstanbul, Turkey, 9 - 14 July 2023, pp.185

X. **Principles, Applications and Limitations of Spectroscopic Sensor and Nanosensor Design**

Apak M. R., Arda A., Demirci Çekiç S., Çelik S. E., Bekdeşer B., Bener M., Can Z., Sağlam Ş.

19th Asian Chemical Congress, İstanbul, Turkey, 9 - 14 July 2023, pp.57

XI. **Electrochemical Sensor for Total Antioxidant Capacity using Cupric-Neocuproine-Modified Glassy Carbon Electrode**

ŞEN F. B., BENER M., DİLGİN Y., APAK M. R.

19th Asian Chemical Congress, 09 July 2023

XII. **Investigation of Humic Substances in Leonardite Mineral Using Analytical Methods**

Kaya E. N., Önem A. N., Şen F. B., Bener M., Çelik S. E., Apak M. R.

4th International Environmental Chemistry Congress, Antalya, Turkey, 30 October - 02 November 2022, pp.94

XIII. **Oxidants, antioxidants, their analytical chemistry and trends - A perspective with reference to the CUPRAC method**

Apak M. R., Demirci Çekiç S., Arda A., Çelik S. E., Bekdeşer B., Bener M.

2022 Annual Conference & Exhibition Functional Foods, Nutreuticals, Natural Health Products, and Dietary Supplements, İstanbul, Turkey, 2 - 05 October 2022, pp.54

XIV. **Microencapsulation of anthocyanins recovered from industrial wastes and usage in processed foods**

Çelik S. E., Apak M. R., Sözgen Başkan K., Demirci Çekiç S., Bekdeşer B., Bener M., Önem A. N., Akyüz E., Çatalkaya G., Taşeri L., et al.

2022 Annual Meeting Conference & Exhibition Functional Foods, İstanbul, Turkey, 2 - 05 October 2022, pp.45

XV. **Trinitrotoluen (TNT) Tayini için Protamin Altın Nanokümeler Esaslı Turn-On Floresans Nanosensör**

Bener M., Şen F. B., Apak M. R.

10. Ulusal Analitik Kimya Kongresi,, Muğla, Turkey, 7 - 11 September 2022, pp.1-2

XVI. **Trinitrotoluen (TNT) Tayini için Fluorometrik Turn-On Ve Turn-Off Esaslı Nanosensörler**

Bener M., Şen F. B., Apak M. R.

34. Ulusal Kimya Kongresi, Yalova, Turkey, 1 - 06 September 2022, pp.1-2

XVII. **Chemical Reaction Components of Colorimetric Sensor Design, Focusing on Antioxidants and Energetics Detection**

Apak M. R., Demirci Çekiç S., Arda A., Çapanoğlu Güven E., Çelik S. E., Bener M., Can Z., Durmazel S.

3rd INTERNATIONAL CONGRESS on ANALYTICAL and BIOANALYTICAL CHEMISTRY, Elazığ, Turkey, 22 - 26 March 2021, pp.37-40

XVIII. **Comparison of CUPRAC Based Optical Sensors with the Solution Based CUPRAC Method**

Bener M.

3rd International Eurasian Conference on Biological and Chemical Sciences, Ankara, Turkey, 19 - 20 March 2020, pp.68

XIX. **Issues and Trends in Antioxidant Activity Measurement**

Apak M. R., Sözgen Başkan K., Demirci Çekiç S., Arda A., Çelik S. E., Bekdeşer B., Bener M.

2nd International Congress on Analytical and Bioanalytical Chemistry, Antalya, Turkey, 11 - 14 March 2020, pp.40

XX. **A simple Determination of Sulfite in Food Extracts using a Solid Sensors**

Bener M., Şen F. B., Apak M. R.

XX. Euroanalysis, İstanbul, Turkey, 1 - 05 September 2019, pp.280

XXI. **Determining the prooxidant activity of food and biological samples using spectrophotometric gold nanocluster-based biosensor**

- AKYÜZ E., ŞEN F. B., BENER M., SÖZGEN BAŞKAN K., APAK M. R.
Euroanalysis, İstanbul, Turkey, 1 - 05 September 2019, pp.344
- XXII. **Determining the prooxidant activity of food and biological samples using spectrophotometric gold nanocluster-based biosensor**
Akyüz E., Şen F. B., Bener M., Sözgen Başkan K., Apak M. R.
Euroanalysis, İstanbul, Turkey, 1 - 05 September 2019, pp.1-2
- XXIII. **A simple Determination of Sulfite in Food Extracts using a Solid Sensors**
Bener M., Şen F. B., Apak M. R.
XX. Euroanalysis, İstanbul, Turkey, 1 - 05 September 2019, pp.1-2
- XXIV. **Mechanisms of colorimetric sensors and nanoprobe for characterizing antioxidant and nitroenergetic substances**
APAK M. R., SÖZGEN BAŞKAN K., CEKIC S. D., ARDA A., ÇELİK S. E., BEKDEŞER B., BENER M.
Euroanalysis, İstanbul, Turkey, 1 - 05 September 2019, pp.34
- XXV. **Criteria for Selection of Antioxidant Capacity Assays for Food Antioxidants: Evaluation of CUPRAC, FRAP, Folin-Ciocalteu, ORAC, ABTS and DPPH assays**
Apak M. R., Sözgen Başkan K., Demirci Çekiç S., Arda A., Çelik S. E., Bekdeşer B., Bener M.
XX. EuroFoodChem, Porto, Portugal, 17 - 19 June 2019, pp.41
- XXVI. **Preparation of a novel gold nanocluster-based biosensor using egg white protein and its application for measuring prooxidant activity**
AKYÜZ E., ŞEN F. B., BENER M., SÖZGEN BAŞKAN K., TÜTEM E., APAK M. R.
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- XXVII. **Antioksidanların ve Enerjetik Bileşiklerin Tayini için Optik Algılayıcı/nanoprob Tasarımının Esasları**
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FOOD CHEMISTRY, Journal Indexed in SCI-E, February 2021
LWT-FOOD SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, February 2021
NATURAL PRODUCT RESEARCH, Journal Indexed in SCI-E, February 2021
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, February 2021
LWT-FOOD SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, January 2021
FOOD CHEMISTRY, Journal Indexed in SCI-E, January 2021
LWT-FOOD SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, January 2021
LWT-FOOD SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, December 2020
FOOD CHEMISTRY, Journal Indexed in SCI-E, November 2020
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, November 2020
CHEMICAL PAPERS, Journal Indexed in SCI-E, October 2020
PLANT FOODS FOR HUMAN NUTRITION, Journal Indexed in SCI-E, October 2020
DESALINATION AND WATER TREATMENT, Journal Indexed in SCI-E, October 2020
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, October 2020
Journal of Chemical Metrology, Journal Indexed in ESCI, October 2020
BMC Research Notes, Other Indexed Journal, October 2020
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, September 2020
ACS APPLIED NANO MATERIALS, Journal Indexed in ESCI, August 2020
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, August 2020
Journal of Chemical Metrology, Journal Indexed in ESCI, August 2020
ANALYTICAL LETTERS, Journal Indexed in SCI-E, August 2020
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, August 2020
TALANTA, Journal Indexed in SCI-E, June 2020
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, Journal Indexed in SCI-E, June 2020
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, May 2020
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, May 2020
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, May 2020
JOURNAL OF ANALYTICAL METHODS IN CHEMISTRY, Journal Indexed in SCI-E, May 2020
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, Journal Indexed in SCI-E, April 2020
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, April 2020
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, April 2020
TALANTA, Journal Indexed in SCI-E, April 2020
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, April 2020
GREEN PROCESSING AND SYNTHESIS, Journal Indexed in SCI-E, March 2020
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, February 2020
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, February 2020
TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, January 2020
MEASUREMENT, Journal Indexed in SCI-E, January 2020
MONATSHFTE FUR CHEMIE, Journal Indexed in SCI-E, January 2020
TALANTA, Journal Indexed in SCI-E, December 2019
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, December 2019
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FOOD ANALYTICAL METHODS, Journal Indexed in SCI-E, November 2019
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, October 2019
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, October 2019
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JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, September 2019
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, September 2019
ENVIRONMENTAL POLLUTION, Journal Indexed in SCI-E, August 2019
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, July 2019
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, June 2019
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, June 2019
JOURNAL OF MOLECULAR STRUCTURE, Journal Indexed in SCI-E, May 2019
TURKISH JOURNAL OF AGRICULTURE AND FORESTRY, Journal Indexed in SCI-E, April 2019
TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, April 2019
JOURNAL OF MOLECULAR STRUCTURE, 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
Natural Product Research, SCI Journal, September 2011
Natural Product Research, SCI Journal, August 2011

Metrics

Publication: 113
Citation (WoS): 708
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H-Index (WoS): 16
H-Index (Scopus): 18

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
10th Aegean Analytical Chemistry Days (AACD2016), Attendee, Çanakkale, Turkey, 2016
6th EuCheMS Chemistry Congress, Attendee, Sevilla, Spain, 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