

## Prof. Mustafa Reşat APAK

### Personal Information

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### International Researcher IDs

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Publons / Web Of Science ResearcherID: D-4782-2019

ScopusID: 7005910420

### Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Kimya, Turkey 1977 - 1982

Undergraduate, Istanbul University, Kimya Fakültesi, Kimya Mühendisliği, Turkey 1971 - 1976

### Foreign Languages

English, C1 Advanced

### Research Areas

Environmental Engineering, Environmental Sciences, Environmental Chemistry, Chemistry, Analytical Chemistry, Separation Methods, Infrared Spectroscopy, Chromatographic Analysis, Spectroscopical Methods, Natural Sciences, Engineering and Technology

### Academic Titles / Tasks

Professor, Istanbul University, Mühendislik Fakültesi, Kimya Bölümü, 1993 - Continues

Associate Professor, Istanbul University, Mühendislik Fakültesi, Kimya Bölümü, 1987 - 1993

### Academic and Administrative Experience

İstanbul Üniversitesi, Mühendislik Fakültesi, Gıda Antioksidanları Ölçümü Uygulama Ve Araştırma Merkezi, 2014 - Continues

İstanbul Üniversitesi, Mühendislik Fakültesi, Kimya Bölümü, 1990 - Continues

İstanbul Üniversitesi, Deniz Bilimleri Ve İşletmeciliği, 2007 - 2015

İstanbul Üniversitesi, Mühendislik Fakültesi, 1996 - 1999

İstanbul Üniversitesi, Mühendislik Fakültesi, 1995 - 1996

İstanbul Üniversitesi, Mühendislik Fakültesi, Kimya Bölümü, 1995 - 1996

## Courses

Analitik Kimyada Metal Adsorpsiyonu, Doctorate, 2014 - 2015

Koordinasyon Kimyası, Undergraduate, 2014 - 2015

Toprak ve Sulardaki Eser Kirlletici Maddelerin Atomik ve Moleküler Spektroskopik Tayini, Doctorate, 2014 - 2015

İleri Analitik Kimya, Postgraduate, 2014 - 2015

Analytical Chemistry I, Undergraduate, 2013 - 2014

Çevre Kimyası, Undergraduate, 2012 - 2013

Analytical Chemistry Lab II, Undergraduate, 2011 - 2012

## Advising Theses

APAK M. R., ÖZYÜREK M., Besin Özütleri ve Serumda Antioksidan Kapasite Ölçümü için Moleküler Spektroskopik Sensörler Geliştirilmesi, Doctorate, M.Bener(Student), 2013

APAK M. R., Tahıllarda Spektrofotometrik Toplam Antioksidan Kapasite Tayini ve Antioksidan Bileşiklerin Kapiler Elektroferezle Saptanması, Postgraduate, A.Nur(Student), 2012

APAK M. R., Biyolojik Örneklerde Hidroksil Radikal Süpürücü Etki Ölçümü İçin Moleküler Spektroskopik Sensör Geliştirilmesi, Doctorate, B.Bekdeşer(Student), 2012

APAK M. R., Nitro-aromatik ve Nitramin Sınıfı Enerjetik Maddelerin Tayini için Elektroanalitik Yöntemlerin Geliştirilmesi, Postgraduate, Ş.Sağlam(Student), 2011

APAK M. R., Polifenolik Bileşiklerin Prooksidan Aktivitelerinin Ölçümü İçin Yeni Bir Spektrofotometrik Yöntem Geliştirilmesi, Postgraduate, E.Kondakçı(Student), 2011

APAK M. R., Farklı Türdeki Karışım ve Çözücü Ortamlarına Uygulanabilen Modifiye CUPRAC Antioksidan Kapasite Ölçümleri, Doctorate, S.Çelik(Student), 2011

ERÇAĞ E., APAK M. R., Aromatik Nitro ve Amin Bileşikleri İçin Moleküler Spektroskopik Tayin Yöntemlerinin Geliştirilmesi, Doctorate, A.Arda(Student), 2009

APAK M. R., Reaktif Oksijen Türleri ve Bunları Süpüren Antioksidanların Miktar Tayini için Modifiye CUPRAC Yönteminin Geliştirilmesi, Doctorate, M.Özyürek(Student), 2009

APAK M. R., Spektroflorimetrik Analiz Yöntemlerinin Toplam Antioksidan Kapasite Tayinlerine Uygulanması, Postgraduate, S.Baki(Student), 2009

APAK M. R., Amin. Oluş. İyon Ç. Eks. ve Amin S. Antidep. ve Uyar. Eks. Spek. Miktar Tayini, Postgraduate, G.Sarioğlu(Student), 2009

## Jury Memberships

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, November, 2012

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, November, 2012

Associate Professor Exam, Doçentlik Sınav Jürisi, Üniversitelerarası Kurul, November, 2012

Appointment to Academic Staff-Assistant Professorship, Doçentlik Atama Jürisi, İstanbul Üniversitesi, September, 2012

Appointment to Academic Staff-Assistant Professorship, Doçentlik Atama Jürisi, İstanbul Üniversitesi, September, 2012

Appointment to Academic Staff-Assistant Professorship, Doçentlik Atama Jürisi, Yıldız Teknik Üniversitesi, September, 2012

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

### I. Determination of ketamine using melamine-modified gold nanoparticles

Güneş G., CAN Z., Arda A., Apak M. R.

Turkish Journal of Chemistry, vol.47, no.5, pp.1053-1063, 2023 (SCI-Expanded)

### II. Selective Electrochemical Detection of Explosives with Nanomaterial Based Electrodes

Apak R., Uzer A., Sağlam S., Arman A.

ELECTROANALYSIS, vol.35, no.1, 2023 (SCI-Expanded)

- III. **High performance liquid chromatographic method with post-column detection for quantification of reducing sugars in foods**  
Akyuz E., Baskan K. S., Tutem E., Apak R.  
JOURNAL OF CHROMATOGRAPHY A, vol.1660, 2021 (SCI-Expanded)
- IV. **Novel Iron(III)-Induced Prooxidant Activity Measurement Using a Solid Protein Sensor in Comparison with a Copper(II)-Induced Assay**  
Akyuz E., Baskan K., Tutem E., APAK R.  
ANALYTICAL LETTERS, vol.53, no.9, pp.1489-1503, 2020 (SCI-Expanded)
- V. **A New Redox Mediator (Cupric-Neocuproine Complex)-Modified Pencil Graphite Electrode for the Electrocatalytic Oxidation of H<sub>2</sub>O<sub>2</sub>: A Flow Injection Amperometric Sensor**  
Emir G., DİLGİN Y., Apak R.  
CHEMELECTROCHEM, vol.7, no.3, 2020 (SCI-Expanded)
- VI. **A manganese oxide (MnO<sub>x</sub>)-Based colorimetric nanosensor for indirect measurement of lipophilic and hydrophilic antioxidant capacity**  
Can K., Uzer A., Apak R.  
ANALYTICAL METHODS, vol.12, no.4, pp.448-455, 2020 (SCI-Expanded)
- VII. **Novel optical sensor-based method for determining total tocopherol content in serum", TURKISH JOURNAL OF CHEMISTRY**  
BENER M., APAK M. R.  
TURKISH JOURNAL OF CHEMISTRY, vol.42, pp.1687-1694, 2018 (SCI-Expanded)
- VIII. **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)
- IX. **Colorimetric Determination of (Aminoalkyl)indole-containing Synthetic Cannabimimetics**  
Durmuş H., Durmazel S., ARDA A., Gökdere B., Erçağ E., APAK M. R.  
ANALYTICAL SCIENCES, vol.34, pp.1419-1425, 2018 (SCI-Expanded)
- X. **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)
- XI. **Electrochemical Determination of TNT, DNT, RDX, and HMX with Gold Nanoparticles/Poly(Carbazole-Aniline) Film-Modified Glassy Carbon Sensor Electrodes Imprinted for Molecular Recognition of Nitroaromatics and Nitramines**  
Saglam S., Uzer A., Ercag E., Apak R.  
ANALYTICAL CHEMISTRY, vol.90, no.12, pp.7364-7370, 2018 (SCI-Expanded)
- XII. **A novel cerium oxide nanoparticles-based colorimetric sensor using tetramethyl benzidine reagent for antioxidant activity assay**  
Olgun F. A. O., Uzer A., Ozturk B. D., Apak R.  
TALANTA, vol.182, pp.55-61, 2018 (SCI-Expanded)
- XIII. **Dioxomolybdenum(VI) complexes of S-methyl-5-bromosalicylidene-N-alkyl substituted thiosemicarbazones: Synthesis, catalase inhibition and antioxidant activities**  
Eglence S., Sahin M., Ozyurek M., Apak R., Ulkuseven B.  
INORGANICA CHIMICA ACTA, vol.469, pp.495-502, 2018 (SCI-Expanded)
- XIV. **Introductory Note to the Special Issue of "Analytical Letters" for the International Conference: 10th Aegean Analytical Chemistry Days (AACD 2016)**  
Apak R., DİLGİN Y., Arda A.  
ANALYTICAL LETTERS, vol.51, pp.1-6, 2018 (SCI-Expanded)
- XV. **Evaluation of antioxidant activity/capacity measurement methods for food products**  
Çapanoğlu Güven E., Kamiloglu S., Özkan G., Apak R.  
MEASUREMENT OF ANTIOXIDANT ACTIVITY & CAPACITY: RECENT TRENDS AND APPLICATIONS, pp.273-286,

2018 (SCI-Expanded)

- XVI. **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)
- XVII. **Electron transfer-based antioxidant capacity assays and the cupric ion reducing antioxidant capacity (CUPRAC) assay**  
Apak R.  
MEASUREMENT OF ANTIOXIDANT ACTIVITY & CAPACITY: RECENT TRENDS AND APPLICATIONS, pp.57-75, 2018 (SCI-Expanded)
- XVIII. **A novel hypobromous acid scavenging activity assay using p-cresol as a spectrofluorometric probe**  
Bekdeser B., Zeytunlu G., Ozyurek M., Apak M. R.  
TURKISH JOURNAL OF CHEMISTRY, vol.42, no.2, pp.429-438, 2018 (SCI-Expanded)
- XIX. **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)
- XX. **Indirect Determination of Pentaerythritol Tetranitrate (PETN) with a gold nanoparticles-based colorimetric sensor**  
Uzer A., Yalcin U., Can Z., Ercag E., Apak R.  
TALANTA, vol.175, pp.243-249, 2017 (SCI-Expanded)
- XXI. **Simultaneous detection of superoxide anion radicals and determination of the superoxide scavenging activity of antioxidants using a N,N-dimethyl-p-phenylene diamine/Nafion colorimetric sensor**  
Dondurmacioglu F., Avan A. N., Apak R.  
ANALYTICAL METHODS, vol.9, no.43, pp.6202-6212, 2017 (SCI-Expanded)
- XXII. **Determination of hydrogen peroxide and triacetone triperoxide (TATP) with a silver nanoparticles-based turn-on colorimetric sensor**  
Uzer A., Durmazel S., Ercag E., Apak R.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.247, pp.98-107, 2017 (SCI-Expanded)
- XXIII. **Solid-Phase Extraction Spectrophotometric Determination of Total Antioxidant Capacity in Antioxidant-poor Samples by Using the Ferric-Ferrozine Method**  
Berker Çetin K. I., Özyurt D., Demirata B., Apak R.  
ANALYTICAL SCIENCES, vol.33, no.6, pp.683-689, 2017 (SCI-Expanded)
- XXIV. **Identification and Determination of Phenolics in Lamiaceae Species by UPLC-DAD-ESI-MS/MS**  
Celik S. E., Tufan A. N., Bekdeser B., Ozyurek M., Guclu K., Apak R.  
JOURNAL OF CHROMATOGRAPHIC SCIENCE, vol.55, no.3, pp.291-300, 2017 (SCI-Expanded)
- XXV. **CUPRAC colorimetric and electroanalytical methods determining antioxidant activity based on prevention of oxidative DNA damage**  
Uzunboy S., Cekic S. D., Eksin E., Erdem A., Apak R.  
ANALYTICAL BIOCHEMISTRY, vol.518, pp.69-77, 2017 (SCI-Expanded)
- XXVI. **Surface-enhanced Raman spectroscopy combined with gold nanorods for the simultaneous quantification of nitramine energetic materials**  
GÜVEN B., Eryilmaz M., Uzer A., BOYACI İ. H., TAMER U., Apak R.  
RSC ADVANCES, vol.7, no.59, pp.37039-37047, 2017 (SCI-Expanded)
- XXVII. **Quantification of Antioxidant Ability Against Lipid Peroxidation with an 'Area Under Curve' Approach**  
Bakir T., SÖNMEZOĞLU İ., Apak R.  
JOURNAL OF THE AMERICAN OIL CHEMISTS SOCIETY, vol.94, no.1, pp.77-88, 2017 (SCI-Expanded)
- XXVIII. **A Novel Spectrofluorometric Probe for the Determination of Peroxynitrite Anion Scavenging Activity of Biothiols and Amino Acids**  
Bekdeser B., Ozyurek M., Akyuz E., Apak R.

ANALYTICAL SCIENCES, vol.32, no.12, pp.1315-1320, 2016 (SCI-Expanded)

- XXIX. **Spectrophotometric Determination of Phenolic Antioxidants in the Presence of Thiols and Proteins**  
Avan A. N., Cekic S. D., Uzunboy S., Apak R.  
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.17, no.8, 2016 (SCI-Expanded)
- XXX. **Electrochemical Determination of Food Preservative Nitrite with Gold Nanoparticles/p-Aminothiophenol-Modified Gold Electrode**  
Uzer A., Saglam S., Can Z., Ercag E., Apak R.  
INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, vol.17, no.8, 2016 (SCI-Expanded)
- XXXI. **Determination of total antioxidant capacity of humic acids using CUPRAC, Folin-Ciocalteu, noble metal nanoparticle- and solid-liquid extraction-based methods**  
Karadirek S., Kanmaz N., Balta Z., Demircivi P., Uzer A., Hizal J., Apak R.  
TALANTA, vol.153, pp.120-129, 2016 (SCI-Expanded)
- XXXII. **A Fast Liquid Chromatography Tandem Mass Spectrometric Analysis of PETN (Pentaerythritol Tetranitrate), RDX (3,5-Trinitro-1,3,5-triazacyclohexane) and HMX (Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine) in Soil, Utilizing a Simple Ultrasonic-Assisted Extraction with Minimum Solvent**  
Anilanmert B., Aydın M., Apak R., Avci G. Y., Cengiz S.  
ANALYTICAL SCIENCES, vol.32, no.6, pp.611-616, 2016 (SCI-Expanded)
- XXXIII. **Preparation, characterization and usage of molecularly imprinted polymer for the isolation of quercetin from hydrolyzed nettle extract**  
Ersoy S. K., Tutem E., Baskan K. S., Apak R., Nergiz C.  
JOURNAL OF CHROMATOGRAPHY B-ANALYTICAL TECHNOLOGIES IN THE BIOMEDICAL AND LIFE SCIENCES, vol.1017, pp.89-100, 2016 (SCI-Expanded)
- XXXIV. **Antioxidant Activity/Capacity Measurement. 2. Hydrogen Atom Transfer (HAT)-Based, Mixed-Mode (Electron Transfer (ET)/HAT), and Lipid Peroxidation Assays**  
Apak R., Ozyurek M., Guclu K., Capanoglu E.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.64, no.5, pp.1028-1045, 2016 (SCI-Expanded)
- XXXV. **Antioxidant Activity/Capacity Measurement. 1. Classification, Physicochemical Principles, Mechanisms, and Electron Transfer (ET)-Based Assays**  
Apak R., Ozyurek M., Guclu K., Capanoglu E.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.64, no.5, pp.997-1027, 2016 (SCI-Expanded)
- XXXVI. **Antioxidant Activity/Capacity Measurement. 3. Reactive Oxygen and Nitrogen Species (ROS/RNS) Scavenging Assays, Oxidative Stress Biomarkers, and Chromatographic/Chemometric Assays**  
Apak R., Ozyurek M., Guclu K., Capanoglu E.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.64, no.5, pp.1046-1070, 2016 (SCI-Expanded)
- XXXVII. **Determination of Synthetic Food Colorants in Powder Beverage Samples by On-line HPLC-Cupric Reducing Antioxidant Capacity (CUPRAC) Assay with Post-Column Detection**  
Olgun F. A. O., Öztürk B., Apak R.  
CHROMATOGRAPHIA, vol.79, pp.199-208, 2016 (SCI-Expanded)
- XXXVIII. **Spectrophotometric total reducing sugars assay based on cupric reduction**  
Baskan K. S., Tutem E., Akyuz E., Ozen S., Apak R.  
TALANTA, vol.147, pp.162-168, 2016 (SCI-Expanded)
- XXXIX. **Investigation of individual and competitive adsorption of Cu(II), Cd(II), and Pb(II) on montmorillonite in terms of surface complexation and kinetic properties of Cu(II) adsorption**  
Hizal J., Demircivi P., Karadirek S., Apak R.  
DESALINATION AND WATER TREATMENT, vol.57, no.47, pp.22441-22453, 2016 (SCI-Expanded)
- XL. **GCxGC-TOF/MS Chromatographic Analysis, Antioxidant Capacity and Phenolic Content of Rosa Canina L. at Different Maturities**  
Özyurt D., Demirata B., Apak R., HAMILTON J. F., LEWIS A. C., OZEL M. Z.  
RECORDS OF NATURAL PRODUCTS, vol.10, no.4, pp.407-425, 2016 (SCI-Expanded)
- XLI. **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)
- XLII. **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)
- XLIII. **Antioxidant capacity of quercetin and its glycosides in the presence of beta-cyclodextrins: influence of glycosylation on inclusion complexation**  
Celik S. E., Ozyurek M., Guclu K., Apak R.  
JOURNAL OF INCLUSION PHENOMENA AND MACROCYCLIC CHEMISTRY, vol.83, pp.309-319, 2015 (SCI-Expanded)
- XLIV. **One-pot synthesis, characterization, and antioxidant capacity of sulfur- and oxygen-substituted 1,4-naphthoquinones and a structural study**  
Deniz N. G., Ozyurek M., Tufan A. N., Apak R.  
MONATSHFTE FÜR CHEMIE, vol.146, no.12, pp.2117-2126, 2015 (SCI-Expanded)
- XLV. **Determination of Triacetone Triperoxide with a N,N-Dimethyl-p-phenylenediamine Sensor on Nafion Using Fe<sub>3</sub>O<sub>4</sub> Magnetic Nanoparticles**  
Can Z., Uzer A., Turkekul K., Ercag E., Apak R.  
ANALYTICAL CHEMISTRY, vol.87, no.19, pp.9589-9594, 2015 (SCI-Expanded)
- XLVI. **Selective Determination of Free Cyanide in Environmental Water Matrices by Ion Chromatography with Suppressed Conductivity Detection**  
Destanoglu O., Yilmaz G. G., Apak R.  
JOURNAL OF LIQUID CHROMATOGRAPHY & RELATED TECHNOLOGIES, vol.38, no.16, pp.1537-1545, 2015 (SCI-Expanded)
- XLVII. **Assessment of the contributions of anthocyanins to the total antioxidant capacities of plant foods**  
Baskan K. S., Tutem E., Akyuz E., Apak R.  
EUROPEAN FOOD RESEARCH AND TECHNOLOGY, vol.241, no.4, pp.529-541, 2015 (SCI-Expanded)
- XLVIII. **Enhanced copper(II) biosorption on SiO<sub>2</sub>-alginate gel composite: A mechanistic study with surface characterization**  
Yalcin S., Apak R., Boz I.  
KOREAN JOURNAL OF CHEMICAL ENGINEERING, vol.32, no.10, pp.2116-2123, 2015 (SCI-Expanded)
- XLIX. **Rapana venosa consumption improves the lipid profiles and antioxidant capacities in serum of rats fed an atherogenic diet**  
Leontowicz M., Leontowicz H., Namiesnik J., Apak R., Barasch D., Nemirovski A., Moncheva S., Goshev I., Trakhtenberg S., Gorinstein S.  
NUTRITION RESEARCH, vol.35, no.7, pp.592-602, 2015 (SCI-Expanded)
- L. **Electrochemical sensor for nitroaromatic type energetic materials using gold nanoparticles/poly(o-phenylenediamine-aniline) film modified glassy carbon electrode**  
Saglam S., Uzer A., Tekdemir Y., Ercag E., Apak R.  
TALANTA, vol.139, pp.181-188, 2015 (SCI-Expanded)
- LI. **Determination of total antioxidant capacity of milk by CUPRAC and ABTS methods with separate characterisation of milk protein fractions**  
Cekic S. D., Demir A., Baskan K. S., Tutem E., Apak R.  
JOURNAL OF DAIRY RESEARCH, vol.82, no.2, pp.177-184, 2015 (SCI-Expanded)
- LII. **Synthesis and antioxidant activities of transition metal complexes based 3-hydroxysalicylaldehyde-S-methylthiosemicarbazone**  
Bal-Demirci T., Sahin M., Kondakci E., Ozyurek M., Ulkuseven B., Apak R.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.138, pp.866-872, 2015 (SCI-Expanded)
- LIIL. **Nanotechnological Methods of Antioxidant Characterization**  
Apak R., Çapanoğlu Güven E., Arda A. U.  
CHEMICAL SENSORY INFORMATICS OF FOOD: MEASUREMENT, ANALYSIS, INTEGRATION, vol.1191, pp.209-234,

2015 (SCI-Expanded)

- LIV. **Poly (Rhodamine B) and MWCNTs Composite Film for the Separation and Simultaneous Voltammetric Quantification of Tryptophan, Paracetamol, Uric Acid, Dopamine and Ascorbic Acid**  
Filik H., Avan A. A., Aydar S., Apak R.  
CURRENT ANALYTICAL CHEMISTRY, vol.11, no.2, pp.87-95, 2015 (SCI-Expanded)
- LV. **Optimization of Microwave-Assisted Extraction of Polyphenols from Herbal Teas and Evaluation of Their in Vitro Hypochlorous Acid Scavenging Activity**  
Bekdeser B., Durusoy N., Ozyurek M., Guclu K., Apak R.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.62, no.46, pp.11109-11115, 2014 (SCI-Expanded)
- LVI. **Development of a new catalase activity assay for biological samples using optical CUPRAC sensor**  
Bekdeser B., Ozyurek M., Guclu K., Alkan F. U., Apak R.  
SPECTROCHIMICA ACTA PART A-MOLECULAR AND BIOMOLECULAR SPECTROSCOPY, vol.132, pp.485-490, 2014 (SCI-Expanded)
- LVII. **Folin-Ciocalteu spectrophotometric assay of ascorbic acid in pharmaceutical tablets and orange juice with pH adjustment and pre-extraction of lanthanum(III)-flavonoid complexes**  
Olgun F. A. O., Özyurt D., Berker Çetin K. I., Demirata B., Apak R.  
JOURNAL OF THE SCIENCE OF FOOD AND AGRICULTURE, vol.94, no.12, pp.2401-2408, 2014 (SCI-Expanded)
- LVIII. **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)
- LIX. **A Novel Differential Pulse Voltammetric (DPV) Method for Measuring the Antioxidant Capacity of Polyphenols-Reducing Cupric Neocuproine Complex**  
Tufan A. N., Baki S., Guclu K., Ozyurek M., Apak R.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.62, no.29, pp.7111-7117, 2014 (SCI-Expanded)
- LX. **Novel oxime based flavanone, naringin-oxime: Synthesis, characterization and screening for antioxidant activity**  
Ozyurek M., Akpinar D., Bener M., Turkkan B., Guclu K., Apak R.  
CHEMICO-BIOLOGICAL INTERACTIONS, vol.212, pp.40-46, 2014 (SCI-Expanded)
- LXI. **Antioxidant/prooxidant effects of alpha-tocopherol, quercetin and isorhamnetin on linoleic acid peroxidation induced by Cu(II) and H<sub>2</sub>O<sub>2</sub>**  
Bakir T., SÖNMEZOĞLU İ., Imer F., Apak R.  
INTERNATIONAL JOURNAL OF FOOD SCIENCES AND NUTRITION, vol.65, no.2, pp.226-234, 2014 (SCI-Expanded)
- LXII. **Identification and Anti-oxidant Capacity Determination of Phenolics and their Glycosides in Elderflower by On-line HPLC-CUPRAC Method**  
Celik S. E., Ozyurek M., Gueclue K., Capanoglu E., Apak R.  
PHYTOCHEMICAL ANALYSIS, vol.25, no.2, pp.147-154, 2014 (SCI-Expanded)
- LXIII. **Development of a Fluorescent Probe for Measurement of Peroxyl Radical Scavenging Activity in Biological Samples**  
Guclu K., Kibrislioglu G., Ozyurek M., Apak R.  
JOURNAL OF AGRICULTURAL AND FOOD CHEMISTRY, vol.62, no.8, pp.1839-1845, 2014 (SCI-Expanded)
- LXIV. **4-Aminothiophenol Functionalized Gold Nanoparticle-Based Colorimetric Sensor for the Determination of Nitramine Energetic Materials**  
Uzer A., Can Z., Akin I., Ercag E., Apak R.  
ANALYTICAL CHEMISTRY, vol.86, no.1, pp.351-356, 2014 (SCI-Expanded)
- LXV. **Distribution and Contamination of Heavy Metals in the Surface Sediments of Ambarli Port Area (Istanbul, Turkey)**  
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- CCLXXX. **A novel total antioxidant capacity measurement for food and plasma antioxidants: CUPRAC method**

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ÖZYÜREK M., GÜÇLÜ K., ÇELİK S. E., APAK M. R.

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**CCLXXXV. Total protein assay with spectrophotometric copper(II)-neocuproine reagent in alkaline medium**

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**:CLXXXVI. Extractive spectrophotometric determination of TNT with amines and development of colorimetric sensor**

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**:LXXXVIII. Benzil Alkol Ve Benzaldehitin Bakır(II)-Neokuproin Reaktifile Yanyana Spektrofotometrik Tayini**

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**CCXCIII. Chromium speciation analysis with the use of maleic acid and palmitoyl oxine derivatized XAD resins**

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- CCXCV. **Basic aspects of spectrophotometric method design**  
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- CCCXLIII. **Heavy metal and pesticide removal from contaminated groundwater by the use of metallurgical waste sorbents**  
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- CCCXLVII. **Heavy metal removal from groundwater by the use of metallurgical solid waste sorbents**  
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APAK M. R.

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## Supported Projects

Apak M. R., TUBITAK Project, Gıda, tarım, gübre, beslenme ve mühimmat öncelikli araştırma alanlarında fenolik madde içerikli ürün ve atıkların kararlaştırılması, korunması, kazanılması ve karakterizasyonunda kullanılacak özgün antioksidan aktivite ve fenolik içerik tayin yöntemlerinin geliştirilmesi, 2021 - 2023

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

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

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

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

DEMİRCİ ÇEKİÇ S., APAK M. R., UZUNBOY S., Project Supported by Higher Education Institutions, Oksidatif DNA Hasarının Önlenmesinde Antioksidan Aktivitenin Tayini İçin CUPRAC Kolorimetrik Yöntem Geliştirilmesi, 2017 - 2018

ARDA A., APAK M. R., HIZAL YÜCESOY F. J., KANMAZ N., BARAN P., CAN Z., SAĞLAM Ş., KARADİREK KORKMAZ Ş., Project Supported by Higher Education Institutions, Nitroaromatik Enerjetik Madde Tayininde Kolorimetrik Sensör Geliştirilmesi, 2017 - 2018

DEMİRCİ ÇEKİÇ S., APAK M. R., UZUNBOY S., Project Supported by Higher Education Institutions, Development of novel DNACUPRAC colorimetric probe for determination of hydroxyl radical damage and related antioxidant activity, 2017 - 2018

APAK M. R., BAYARSAIKHAN G., Project Supported by Higher Education Institutions, Oksidatif Protein Hasarı ve Antioksidanların Önleyici Etkisinin Belirlenmesi için Bir Sensör Geliştirilmesi, 2017 - 2018

APAK M. R., ŞEN F. B., Project Supported by Higher Education Institutions, Antioksidan Kapasite Ölçümü İçin Doğal Polimer Film Esaslı Optik Sensör Geliştirilmesi, 2017 - 2018

BEKDEŞER B., APAK M. R., ÖZYÜREK M., Project Supported by Higher Education Institutions, pKresol Probu Esaslı Yeni Bir Spektrofluorometrik Yöntem ile Biyotiyollerin Hipobromoz Asit Süpürme Aktivitelerinin Belirlenmesi, 2017 - 2018

DEMİRCİ ÇEKİÇ S., APAK M. R., AVAN A. N., UZUNBOY S., Project Supported by Higher Education Institutions, Tiyol ve Proteinler Varlığında Fenolik Antioksidanların Spektrofotometrik Tayini, 2017 - 2018

TÜTEM E., AKYÜZ E., APAK M. R., Project Supported by Higher Education Institutions, Kuersetin Baskılı Polimer ile Kırmızı Soğan Kabuğundan Kuersetin Geri Kazanımı, 2017 - 2018

APAK M. R., SAĞLAM Ş., ARDA A., Project Supported by Higher Education Institutions, Nanoparçacık-Esaslı Modifiye Elektrotlarla Enerjetik Maddelerin Elektrokimyasal Tayini, 2017 - 2018

DENİZ N. G., GÖKMEN Z., APAK M. R., ÖZYÜREK M., TUFAN A. N., Project Supported by Higher Education Institutions, Yeni Kinoid Yapılı Halkalı Bileşiklerinin Sentezi ve Biyolojik Aktivite Özelliklerinin İncelenmesi, 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

ARDA A., APAK M. R., ULAR N., Project Supported by Higher Education Institutions, Spectroscopic Determination of Nitroaromatic Energetic Materials with the Aid of Modified Gold Nanoparticles, 2017 - 2017

APAK M. R., 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

ARDA A., CAN Z., APAK M. R., ÇAPANOĞLU GÜVEN E., TÜRKEKUL K., Project Supported by Higher Education Institutions, Hidrojen Peroksit ve peroksit temelli enerjetik madde triaseton triperoksit için nanoparçacık temelli sensör geliştirilmesi, 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., ŞAHİN M., ÇELİK S. E., APAK M. R., BEKDEŞER B., GÜÇLÜ K., AKYÜZ E., Project Supported by Higher Education Institutions, Gıdalarda Bulunan Tiyoil Grubu Antioksidanların Peroksinitrit Anyonu Süpürme Aktivitelerinin Ölçümü için Gentisik Asit Problemi Yeni Bir Spektrofluorometrik Yöntem Geliştirilmesi, 2016 - 2017

ARDA A., ARMAN A., APAK M. R., ERÇAĞ E., SAĞLAM Ş., Project Supported by Higher Education Institutions, Antioksidan Maddelerin Modifiye Elektrot Kullanılarak Elektrokimyasal Tayini, 2016 - 2017

SÖZGEN BAŞKAN K., TÜTEM E., APAK M. R., AKYÜZ E., Project Supported by Higher Education Institutions, Kateşin baskılı polimer hazırlanması ve özelliklerinin belirlenmesi, 2016 - 2017

DEMİRCİ ÇEKİÇ S., APAK M. R., AVAN A. N., UZUNBOY S., Project Supported by Higher Education Institutions, Oksidatif düzey ve antioksidan kapasitenin tek membran kullanılarak ölçümünde kullanılmak amacıyla N,N-Dimetil-p-fenilen diamin (DMPD) içeren Nafyon membran 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. Poir. platydiscus cullen ve Achillea Vermicularis Trin. şifalı bitkilerinin antioksidan özelliklerinin incelenmesi, 2016 - 2017

TÜTEM E., APAK M. R., SÖZGEN BAŞKAN K., Project Supported by Higher Education Institutions, Kateşin baskılı polimer kullanılarak üzüm endüstrisi atığı çekirdeklerden kateşin saflaştırılması ve derişiklendirilmesi, 2016 - 2017

APAK M. R., ÖZYÜREK M., GÜÇLÜ K., ARDA A., ÇELİK S. E., SAĞLAM Ş., BEKDEŞER B., CAN Z., ERÇAĞ E., Project Supported by Higher Education Institutions, Novel nanoparticle-based colorimetric probes and sensors for determining phenolic antioxidants, biothiols, nitrite and hydrogen peroxide, 2016 - 2016

ARDA A., TÜRKEKUL K., APAK M. R., ERÇAĞ E., Project Supported by Higher Education Institutions, Nanoparticle Based Optical Sensor for Determination of Insensitive Energetic Material 3-Nitro-1,2,4-Triazol-5-one (NTO), 2016 - 2016

BİLAL T., ERÇAĞ E., DEMİRCİ ÇEKİÇ S., APAK M. R., KESER O., Project Supported by Higher Education Institutions, The Effect of Sanguinaria canadensis and/or MannanOligosaccharide on Body Weight and Serum Total Antioxidant Activity in Broilers Under Heat Stress, 2016 - 2016

APAK M. R., DURMAZEL S., ARDA A., Project Supported by Higher Education Institutions, Hidrojen Peroksit Tayini İçin Gümüş Nanopartikül Esaslı Sensör Geliştirilmesi, 2015 - 2016

ARDA A., APAK M. R., ERÇAĞ E., SAĞLAM Ş., TEKDEMİR Y., Project Supported by Higher Education Institutions, Electrochemical sensor for nitro aromatic type energetic materials using gold nanoparticles/poly(o-phenylenediamine-aniline) film modified glassy carbon electrode, 2015 - 2016

APAK M. R., Project Supported by Higher Education Institutions, Askorbik Asidin (C vitamini) Lantan(III)-flavonoid kompleksi ön-ekstraksiyonu kullanılarak İlaçlarda ve Portakal Suyunda Folin- Ciocalteu Yöntemiyle Spektrofotometrik Tayini, 2014 - 2016

APAK M. R., Project Supported by Higher Education Institutions, a-tokoferol, kuersetin ve izohamnetinin Cu(II)- H<sub>2</sub>O<sub>2</sub> kaynaklı linoleik asit peroksidasyonu üzerine antioksidan/prooksidan etkileri, 2014 - 2016

APAK M. R., Project Supported by Higher Education Institutions, a-tokoferolün antioksidan ve prooksidan özelliklerinin incelenmesi ve modellenmesi, 2013 - 2016

APAK M. R., Project Supported by Higher Education Institutions, Oksidatif Dönüşümün İncelenmesiyle Reaktif Oksijen Türü Tüketimi ve Toplam Antioksidan Kapasite Arasındaki Korelasyonun Belirlenmesi, 2013 - 2016

GÜÇLÜ K., APAK M. R., DEMİRCİ ÇEKİÇ S., ÖZYÜREK M., ÇELİK S. E., Other International Funding Programs, Methods to

evaluate the scavenging activity of antioxidants toward reactive oxygen and nitrogen species (ROS/RNS), 2013 - 2016

APAK M. R., Project Supported by Higher Education Institutions, Antioksidan Kapasite/Aktivite Değerlendirilmesi için CUPRAC Metodolojisiindeki Son Gelişmeler, 2015 - 2015

SAĞLAM Ş., ARDA A., APAK M. R., ERÇAĞ E., TUBITAK Project, Adli Bilimlerde Önemli Bazı Bileşikler (Enerjetik Maddeler ve Sentetik Kannabinoidler) İçin Yeni Önderiştirme ve Tayin Yöntemlerinin Geliştirilmesi, 2013 - 2015

APAK M. R., Project Supported by Higher Education Institutions, Antioksidan, Tiyo ve Nitrit Tayininde ham ve türevlendirilmiş soy metal nanoparçacıkların kullanımı, 2014 - 2014

GÜÇLÜ K., APAK M. R., ÖZYÜREK M., BEKDEŞER B., TUBITAK Project, Polifenollerin Hipokloroz Asit Süpürme Aktivitelerinin Ölçümü için Resorsinol Probu Yeni Bir Spektroflorometrik Yöntem Geliştirilmesi, 2012 - 2014

APAK M. R., Project Supported by Higher Education Institutions, TOPLAM ANTİOKSİDAN KAPASİTE ÖLÇÜMÜ VE CUPRAC (BAKIR İYONU İNDİRGEME ANTİOKSİDAN KAPASİTE) YÖNTEMİ, 2013 - 2013

APAK M. R., Project Supported by Higher Education Institutions, Lipofilik ve Hidrofilik Antioksidanların aynı çözücü ortamında Fe(III)-Ferrisiyanür Yöntemiyle Toplam Antioksidan Kapasite Tayini, 2012 - 2013

APAK M. R., Project Supported by Higher Education Institutions, Alemdar 2 Araştırma Gemisinin Laboratuar Dizaynı, 2012 - 2013

APAK M. R., Project Supported by Higher Education Institutions, Besin Özütleri ve Serumda Antioksidan Kapasite Ölçümü için Moleküler Spektroskopik Sensörler Geliştirilmesi, 2012 - 2013

APAK M. R., Project Supported by Higher Education Institutions, Flavonoidlerin linoleik asit peroksidasyonu ve askorbik asit bozunması üzerine antioksidan koruyucu etkilerinin incelenmesi, 2011 - 2013

APAK M. R., Project Supported by Higher Education Institutions, Tahıllarda Spektrofotometrik Toplam Antioksidan Kapasite Tayini ve Antioksidan Bileşenlerin Kapiler Elektroferezle Saptanması, 2011 - 2013

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 için Moleküler Spektroskopik Sensör Geliştirilmesi, 2011 - 2013

BEKDEŞER B., APAK M. R., GÜÇLÜ K., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, Gıda Antioksidanları Ölçümü Ar-Ge Merkezi, 2011 - 2013

APAK M. R., Project Supported by Higher Education Institutions, Peroksit, Nitro-aromatik ve Nitramin Patlayıcılar için Optik Sensör Dizaynı, 2012 - 2012

APAK M. R., Project Supported by Higher Education Institutions, Toplam Antioksidan Kapasite Tayini için Modifiye CERAC Yöntemi, 2010 - 2012

APAK M. R., CAN Z., ARDA A., ERÇAĞ E., SAĞLAM Ş., Industrial Thesis Project, Duyarsızlaştırılmış Çift Bazlı Yakıt Sistemlerinde Enerjetik Malzemeler ve Duyarsızlaştırıcı Ajanların Ayrı Ayrı Tayini ve Depolama Koşullarına Göre Bileşimlerdeki Değişimin İncelenmesi Amacına Yönelik Sensör Geliştirilmesi, 2010 - 2012

APAK M. R., Project Supported by Higher Education Institutions, ANTİOKSİDAN ENZİMLERİN AKTİVİTE ÖLÇÜMÜ İÇİN YENİ SPEKTROSKOPİK YÖNTEMLERİN GELİŞTİRİLMESİ, 2010 - 2012

APAK M. R., Project Supported by Higher Education Institutions, Polifenolik Bileşiklerin Pro-oksidan Aktivitelerinin Ölçümü için Yeni Bir Spektrofotometrik Yöntem Geliştirilmesi, 2010 - 2012

APAK M. R., Project Supported by Higher Education Institutions, Biyolojik Örneklerde Reaktif Oksijen Türleri Süpürme Etkinliği Ölçümü için Spektrophotometrik Yöntemler Geliştirilmesi, 2010 - 2012

APAK M. R., Project Supported by Higher Education Institutions, ALEMDAR II GEMİSİNİN ARAŞTIRMA GEMİSİNE DÖNÜŞTÜRÜLMESİ, 2010 - 2012

APAK M. R., Project Supported by Higher Education Institutions, CUPRAC (Bakır İyonu İndirgeyici Antioksidan Kapasite) Antioksidan Sensörü, 2011 - 2011

APAK M. R., Project Supported by Higher Education Institutions, Atıksulardan Boyarmaddelerin Giderimi için Yeni Adsorbanlar Geliştirilmesi, 2009 - 2011

APAK M. R., Project Supported by Higher Education Institutions, Melamin-Formaldehit-Üre Reçinesi İle Metilen Mavisinin Boyama Atık Sularından Adsorpsiyon Yoluyla Giderilmesi, 2009 - 2011

APAK M. R., Project Supported by Higher Education Institutions, Hava İle Temas Ettirilmiş Aspartam İçindeki L- Askorbik Asit Çözeltisinin Bakır (II) Ve Demir (II) Katalizörlüğünde Oksidasyonunun Kinetik İncelenmesi, 2009 - 2011

GÜÇLÜ K., APAK M. R., Other International Funding Programs, Methods of Measurement and Evaluation of Natural Antioxidant Capacity/Activity, 2009 - 2011

APAK M. R., Project Supported by Higher Education Institutions, TÜRKİYE'NİN GIDA BİTKİLERİ ZENGİNLİĞİNİN DAHA İYİ DEĞERLENDİRİLMESİ İÇİN CUPRAC ANTİOKSİDAN KAPASİTE TAYİN YÖNTEMİNİN KAPSAM VE UYGULAMA ALANININ GENİŞLETİLMESİ-KAROTENOID VE ANTOSİYANİNLERİN TAYİNİ, 2008 - 2011

APAK M. R., Project Supported by Higher Education Institutions, Farklı Tür, Karışım ve Çözücü Ortamlarına Uygulanabilen Modifiye CUPRAC Antioksidan Kapasite Ölçümleri, 2007 - 2011

APAK M. R., Project Supported by Higher Education Institutions, Temel ve Modifiye CUPRAC Yöntemleri ile Antioksidan Karakterizasyonu, 2010 - 2010

APAK M. R., Project Supported by Higher Education Institutions, Aromatik Nitro ve Amin Bileşikleri İçin Moleküler Spektroskopik Tayin Yöntemlerinin Geliştirilmesi, 2007 - 2010

APAK M. R., Project Supported by Higher Education Institutions, CUPRAC Antioksidan Ölçüm Paketi, 2009 - 2009

APAK M. R., Project Supported by Higher Education Institutions, Spektroflorometrik analiz yöntemlerinin toplam antioksidan kapasite tayinlerine uygulanması, 2008 - 2009

APAK M. R., Project Supported by Higher Education Institutions, Karbondioksit Emisyonlarından Kaynaklanan Küresel Isınma Artışına Alternatif Çözüm-Amonyak İle Troposferik Karbonik Asitin Kısmi Nötralizasyonu, 2008 - 2009

APAK M. R., Project Supported by Higher Education Institutions, Reaktif Oksijen Türleri Süpürücü Antioksidan Aktivitenin Ölçümünde Modifiye CUPRAC Yöntemlerinin Geliştirilmesi, 2007 - 2009

APAK M. R., Project Supported by Higher Education Institutions, Bitki özütleri ve tekstil boyalarındaki flavonoidler için spektrofotometrik analiz yöntemlerinin geliştirilmesi, 2007 - 2009

APAK M. R., Project Supported by Higher Education Institutions, Aminlerden Oluşturulan İyon Çiftlerinin Ekstraksiyonu ve Amin Sınıfı Antidepresanlar ve Uyarıcıların Ekstraktif Spektrofotometrik Miktar Tayini, 2007 - 2009

APAK M. R., Project Supported by Higher Education Institutions, KİL MİNERALİ ÜZERİNDE BİRARADA BAKIR(II), KADMİYUM(II) VE KURŞUN(II) ADSORPSİYONUN FITEQL 3.2 İLE MODELLENMESİ, 2007 - 2009

APAK M. R., Project Supported by Higher Education Institutions, MONTMORİLLONİT ÜZERİNDE BAKIR(II), KADMİYUM(II) VE KURŞUN(II) ADSORPSİYONUN FITEQL 3.2 İLE MODELLENMESİ, 2007 - 2009

## Memberships / Tasks in Scientific Organizations

İngiliz Kraliyet Bilimler Akademisi Kimya Topluluğu (The Royal Society of Chemistry), Member, 2018 - Continues

Türkiye Bilimler Akademisi, Member, 2012 - Continues

## Metrics

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## Congress and Symposium Activities

1st International Symposium on Graduate Research in Science: Focus on Entrepreneurship and Innovation, Attendee, İstanbul, Turkey, 2018

11th Aegean Analytical Chemistry Days, Attendee, Hania, Greece, 2018

Ulusal Analitik Kimya, Attendee, Konya, Turkey, 2018

7th EuCheMS Chemistry Congress, Attendee, Liverpool, United Kingdom, 2018

Uluslararası Eser Analiz Kongresi, Attendee, Sivas, Turkey, 2018

8TH BLACK SEA BASIN CONFERENCE ON ANALYTICAL CHEMISTRY, Attendee, İstanbul, Turkey, 2018

EuroFoodChem XIX Conference, Attendee, Budapest, Hungary, 2017

XV. ULUSAL SPEKTROSKOPİ KONGRESİ, Attendee, Yalova, Turkey, 2017  
5th International Conference on Bio-Sensing Technology, Attendee, Agrigento, Italy, 2017  
II. Uluslararası Savunma Sanayi Sempozyumu, Attendee, Kırıkkale, Turkey, 2017  
Pittcon 2017, Attendee, Illinois, United States Of America, 2017  
10th Aegean Analytical Chemistry Days, Attendee, Çanakkale, Turkey, 2016  
8. Ulusal Analitik Kimya Kongresi, Attendee, Isparta, Turkey, 2016  
IV. Eser Analiz Kongresi, Attendee, Sakarya, Turkey, 2016  
Biosensors, Attendee, Göteborg, Sweden, 2016  
EUROPT[R]ODE XIII, Attendee, Graz, Austria, 2016  
XXVII. ULUSAL BİYOKİMYA KONGRESİ, Attendee, Antalya, Turkey, 2015  
29 th EFFoS T International Conference 2015, Attendee, Athína, Greece, 2015  
7. Ulusal Kimya Kongresi, Attendee, Kahramanmaraş, Turkey, 2015  
XIV. Ulusal Spektroskopi Kongresi, Attendee, Elazığ, Turkey, 2015  
Regional Workshop on Sustainable Managment Food Security, Attendee, İstanbul, Turkey, 2015  
Pittcon, Attendee, New Orleans, United States Of America, 2015  
ISNFF-2014 Annual Conference &Exhibition Functional Foods, Nutraceuticals, Natural Health Products and Dietary Supplements, Attendee, İstanbul, Turkey, 2014  
Workshop on Determining Antioxidants as Reactive Species Scavengers, Attendee, İstanbul, Turkey, 2014  
9th Aegean Analytical Chemistry Days, AACD2014, Attendee, Chios, Greece, 2014  
7. Ulusal Analitik Kimya Kongresi, Attendee, Kahramanmaraş, Turkey, 2014  
4th Int. Meeting on Pharmacy & Pharm. Sci, IMPPS-4, Attendee, İstanbul, Turkey, 2014  
III. Eser Analiz Çalıştay, Attendee, Tokat, Turkey, 2014  
Forensics Europe Expo Workshop, Attendee, London, United Kingdom, 2013

## Awards

APAK M. R., The Royal Society of Chemistry-Fellow Member, İngiliz Kraliyet Bilimler Akademisi Kimya Topluluğu, August 2018  
APAK M. R., 2017 TÜBİTAK BİLİM ÖDÜLÜ, TÜBİTAK, July 2017  
APAK M. R., Bilime Hizmet Ödülü, İstanbul Üniversitesi Bilimsel Araştırma Projeleri Koordinasyon Birimi, June 2016