



Journal of the Turkish Chemical Society, Section A: Chemistry (JOTCSA)

A refereed scientific journal published in January, May, and September

We are trying hard to publish selected articles (research articles and review articles) from all around the World.

AIM: Journal of the Turkish Chemical Society, Section A: Chemistry (JOTCSA) is an open-access and peer-reviewed publication of Turkish Chemical Society. Our aim is to serve the chemical community with a high quality open-access journal without requesting any fees in the form of page charges, article processing charges, and so on.

SCOPE: Our journal accepts all papers provided that they are in a field of chemistry. The fields include, but not limited to, analytical chemistry, biochemistry, computational chemistry, electrochemistry, inorganic chemistry, organic chemistry, and physical chemistry.

Editorial Board, JOTCSA

Editor-in-Chief

Prof. Dr. Küçükbay, Hasan (İnönü University, Turkey) Editor-in-Chief. E-mail: hkucukbay[at]inonu.edu.tr.

Editorial Board

Prof. Dr. Göktürk, Sinem (Physical Chemistry, Marmara University, Turkey). E-mail: sinemgokturk[at]gmail.com.

Prof. Dr. Karagözler, A. Alev (Biochemistry, Adnan Menderes University, Turkey). E-mail: akaragozler[at]adu.edu.tr.

Prof. Dr. Karagözler, A. Ersin (Electrochemistry, Adnan Menderes University, Turkey). E-mail: ekaragozler[at]gmail.com.

Prof. Dr. Köse, Dursun Ali (Inorganic Chemistry, Hitit University, Turkey). E-mail: dalikose[at]hitit.edu.tr.

Prof. Dr. Küçükbay, F. Zehra (Analytical Chemistry, İnönü University, Turkey). E-mail: zehra.kucukbay[at]inonu.edu.tr

Prof. Dr. Küçükbay, Hasan (Organic Chemistry, İnönü University, Turkey). E-mail: hkucukbay[at]inonu.edu.tr.

Prof. Dr. Taşdelen, M. Atilla (Polymer Chemistry, Yalova University, Turkey). E-mail: tasdelen[at]yalova.edu.tr.



Prof. Dr. Yalçın, Esin A. (Computational Chemistry, Ankara University, Turkey). E-mail: esinaki[at]ankara.edu.tr.

Managing Editor

Lecturer Dr. Akkurt, Barbaros (Istanbul Technical University, Turkey). E-mail: jotcsa[at]turchemsoc.org.

Assistant to the Editor

Assoc. Prof. Sevim, Altuğ Mert (Istanbul Technical University, Turkey). E-mail: sevim[at]itu.edu.tr.

Address: Halaskargazi Str. Uzay Apt. No: 15/8, 34373 Harbiye, Istanbul/Turkey.

Fax: +90 212 231 70 37

E-mail: jotcsa@turchemsoc.org

Website: <http://ulakbim.gov.tr/jotcsa>

Note: Do not forget to register on the new journal engine at <http://dergipark.gov.tr/jotcsa>. From now on, the journal's updated address will be the latter.

(*)JOTCSA is a peer-reviewed publication of the Turkish Chemical Society.

(*)The ideas outlined by the authors cannot be attributed to the journal management nor the editorial board.

Editorial Advisory Board, JOTCSA

Abo-dya, Nader Elmaghwry; nader_elmaghry88[at]yahoo.com; Egypt.

do Amaral, Marcos Serrou; marcos.amaral[at]ufms.br; Brazil.

Bachawala, Praveen; pbachawala[at]gmail.com; USA.

Beatriz, Adilson; adilson.beatriz[at]ufms.br; Brazil.

Carta, Fabrizio; fabrizio.carta[at]unifi.it; Italy.

Döndaş, Hacı Ali; yakdas25[at]mersin.edu.tr; Turkey.

El-Khatib, Mirna; elmirna[at]sas.upenn.edu; USA.

Florio, Saverio; saverio.florio[at]uniba.it; Italy.

Isa, Seema Habib; seemahabib12[at]gmail.com; India.



Jishkariani, Davit; davitj[at]sas.upenn.edu; USA.

Külcü, Nevzat; nkulcu15[at]gmail.com; Turkey.

Lebedeva, Iryna; ILEBEDYEVA[at]augusta.edu; USA.

Nájera, Carmen; cnajera[at]ua.es; Spain.

Orhan, Ersin; ersinorhan[at]gmail.com; Turkey.

Panda, Siva S.; sspanda12[at]gmail.com; USA.

Panmand, Deepak S.; dspanmand[at]gmail.com; USA.

Pillai, Girinath G.; giribio[at]aol.in; India.

Souizi, Abdelaziz; Contact[at]medjchem.com; Morocco.

Seçen, Hasan; hsecen[at]atauni.edu.tr; Turkey.

Stanovnik, Branko; branko.stanovnik[at]fkkt.uni-lj.si; Slovenia.

Supuran, Claudiu T.; claudiu.supuran[at]unifi.it; Italy.

Sütay, Berkay; sutayberkay[at]hotmail.com; Turkey.

Şen, Fatih; fatih.sen[at]dpu.edu.tr; Turkey.

Tural, Bilsen; bilsentural[at]gmail.com; Turkey.

Tüfekçi, Mehmet; mtufekci[at]ktu.edu.tr; Turkey.

Yaman, Mehmet; ijpacmy[at]gmail.com; Turkey.

Yılmaz, İsmet; ismet.yilmaz[at]inonu.edu.tr; Turkey.

Yılmaz, Ülkü; ulku.yilmaz[at]inonu.edu.tr; Turkey.

Yus, Miguel; yus[at]ua.es; Spain.

Aim and Scope of the Journal

The journal will publish, after a peer-reviewing process, the following:

- a)** Research articles,
- b)** Review articles,
- c)** Letters to the editor.



If requested, the journal will also publish the following, without committing a peer-review:

- d)** Book reviews,
- e)** Thesis abstracts.

The journal's scope will include, but not limited to, the following disciplines of chemistry:

- i)** Analytical chemistry,
- ii)** Biochemistry,
- iii)** Computational chemistry,
- iv)** Electrochemistry,
- v)** Inorganic chemistry,
- vi)** Organic chemistry
- vii)** Physical chemistry,
- viii)** Polymer chemistry.

ETHICAL GUIDELINES

Guidelines for the Editors

An editor (editors, associate editors, etc.) should provide impartial consideration to all manuscripts offered for publication, judging each on its particular feature without regard to race, religion, nationality, sex, seniority, or institutional affiliation of the author(s). An editor should review and treat a manuscript submitted for publication with all reasonable speed. An editor takes the sole responsibility for accepting or rejecting a manuscript for publication. An editor may seek assistance on a manuscript from specialists chosen for their expertise and fair judgment. An editor should not reveal any information about the manuscript under consideration to anyone other than the author and designated reviewers until after the evaluation process is complete. An editor should respect the intellectual independence of authors.

Authors

Our journal considers a person as an author who is responsible at least for a part of the work. Authors should be able to explain the problem in study in a deep manner. For our journal, all



authors are responsible for the content they submitted. The corresponding author is responsible for the agreement of all the authors and to keep them informed about the submission process since first submission of their manuscript. He/she is responsible for providing the license to publish, in case of acceptance, on behalf of all the authors. Our journal assumes that submitting the paper implies in total agreement from all the authors. For manuscripts with more than 8 authors, all the authors should provide a declaration specifying what was their contribution to the manuscript. It is not acceptable for JOTCSA to consider for publication anything that was previously published, neither entirely nor partly in other journals. Anything sent to our journal must not be under analysis by anywhere else. Simultaneous submissions to JOTCSA and any other journal, is considered a major conduct flaw, and all the authors will be definitely banned, and all their previous publications in JOTCSA will be publicly retracted. Plagiarism and self-plagiarism will be treated in the same way. Multiple manuscripts, dealing with closely related subjects and/or variables are discouraged as long as they could figure in a single paper.

Reviewers

JOTCSA invites peers to review its submissions, relying on their expertise, curricula, and their will to review them as volunteers. By accepting to review a manuscript, the reviewer commits himself to do so in due time. Delays are extremely negative to the review process and makes it last much longer than it should. When a reviewer is requested, he/she is gently asked to answer the invitation e-mail, informing if he/she is willing or not willing to review the manuscript. It is a gesture of politeness, and it avoids delays too. By accepting to review a manuscript, the reviewer declares that no conflicts of interests do exist, and he/she is doing his/her revision for the wealth and progress of Science. Those reviewers who answer our requests, agreeing or not, and those who respect the deadlines, are scored positively, and eventual submissions they could send to JOTCSA will be treated with priority.

The online version of this declaration can be viewed on http://dergipark.ulakbim.gov.tr/public/journals/5106/ethical_guidelines.pdf.

Editorial, Vol. 5, issue 3 (2018): Submissions between October, 2018 – January, 2019

Hello and welcome to our journal, which encompasses all chemical sub-disciplines and distributes, free of charge, with an open-access approach throughout the world. We hope that you will like the contributions.

In this issue, we published 46 articles, 2 of which are reviews. 9 foreign authors chose our journal for publishing their research.



We would very much like to receive your submissions as well; to gain more information, browse to the website of our journal at <http://dergipark.gov.tr/jotcsa> and send an e-mail to our managing editor, Mr. Barbaros AKKURT, at jotcsa@turchemsoc.org or myself at hasan.kucukbay@inonu.edu.tr.

Goodbye, and let us meet in our new issue...

Best regards,

Prof. Dr. Hasan KÜÇÜKBAY, PhD

Editor-in-chief, JOTCSA

JOTCSA No 5(3), list of articles

JOTCSA No 5(3), makale listesi

No	Title/Başlık	Corresponding Author / Muhatap Yazar	Page range / Sayfalar
1	Revisiting Cu(II) Bound Amyloid- β 40 and Amyloid- β 42 Peptides: Varying Coordination Chemistries Cu(II) bağı Amiloid β 40 ve Amiloid β 42 peptidlerine yeniden bakış: Değişen koordinasyon kimyaları	Orkid Coşkuner Weber	981-1008
2	Compounds derived from flavonoids for photovoltaic applications. Computational chemical investigations Fotovoltaik uygulamalar için flavonoidlerden türetilen bileşikler. Hesaplamalı kimya araştırmaları	Mohammed BOUACHRINE	1009-1020
3	PREPARATION OF POLY(PYROMELLITIC DIANHYDRIDE-CO-THIONIN) MODIFIED VOLTAMMETRIC SENSOR FOR THE DETERMINATION OF EPICATECHIN Poli(Piromellitik dianhidrit ko-tiyonin) modifiye voltammetrik algılayıcıların hazırlanması ve epikateşinin tayininde kullanılması	Serap Titretir Duran	1021-1028
4	Spectral, Thermal and In Vitro Antibacterial Studies on Cadmium(II)-bis(2,2'-methylidenephenol)diaminoethane Kadmiyum(II)-bis(2,2'-metilidenfenol)diaminoetan üzerine spektral, termal ve in vitro antibakteriyel çalışmalar	Nworie_Felix Sunday	1029-1036

No	Title/Başlık	Corresponding Author / Muhatap Yazar	Page range / Sayfalar
5	Synthesis and Structural Characterization of New Benzimidazole Compounds Derived from Electron-Rich Olefins Bearing 1,4-Bisbenzimidazole with CS ₂ , PhNCS, and Chalcogens 1,4-Bisbenzimidazol ve CS ₂ , PhNCS ve kalkojenler içeren elektronca zengin olefinlerden türeyen yeni benzimidazol bileşiklerinin sentezi ve yapısal karakterizasyonu	Ulku Yilmaz	1037-1042
6	Biological Property of <i>Fritillaria imperialis</i> L. Extract <i>Fritillaria imperialis</i> L. Ekstresinin biyolojik özelliği	Ali Aydın	1043-1050
7	Preparation and investigation of aggregation, fluorescence and singlet oxygen generation properties of gallium and metal-free phthalocyanines Galyum ve metallsiz ftalosiyeninlerin hazırlanması ve kümelenme, floresans ve singlet oksijen üretim özelliklerinin incelenmesi	Emre Guzel	1051-1060
8	A Novel One-Pot Green Synthesis and Characterization of 5-Substituted Bis-Iminothiazolidinones 5-Sübstitüe bis-iminotiyazolidinonların yeni bir tek kap yeşil yöntemle sentezi ve karakterizasyonu	Fatma Tulay Tugcu	1061-1070
9	A New Approach To The Treatment of Leishmaniasis: Quercetin-Loaded Polycaprolactone Nanoparticles Leishmaniasis hastalığının tedavisinde yeni bir yaklaşım: Kuersetin yüklü	Emrah Şefik Abamor	1071-1082

No	Title/Başlık	Corresponding Author / Muhatap Yazar	Page range / Sayfalar
	polikaprolakton nanopartikülleri		
10	A New Highly Thermally Stable Co(II)-coordination polymer with Semi-flexible Bis(Imidazole) Directed Secondary Building Unit Solvothermal Synthesis and Structure Yarı esnek bis(imidazol) yönlümelik ikincil inşa birimi içeren yeni, yüksek derecede ısı kararlılığına sahip Co(II) koordinasyon polimeri: Solvotermal sentez ve yapısal incelemeler	Fatih Semerci	1083-1094
11	Synthesis and characterization of Ti-/Zr-diphenylpropanedione complexes and their application in the ring opening polymerization of ϵ -caprolactone Ti-/Zn-difenilpropandion komplekslerinin sentezi ve karakterizasyonu ile ϵ -kaprolaktonun halka açılma polimerizasyonunda kullanılması	Asgar Kayan	1095-1104
12	Synthesis of an (AB) ₄ -type Star Block Copolymer of L-lactide and Cyclohexene Oxide from a Tetra-Arm Telechelic Macrophotoinitiator Dört kollu telekelik bir makrofotobaşlatıcıdan L-laktid ile sikloheksen oksidin (AB) ₄ türü yıldız blok kopolimerinin sentezi	Zafer Uyar	1105-1118
13	Synthesis of an Antimicrobial Thio-anthraquinone Compound to Produce Biodegradable Electrospun Mats for Tissue Engineering Purposes Doku mühendisliği amaçlarıyla biyo-bozunur elektrospinli minderlerin üretilmesinde	Yeşim Müge Şahin	1119-1134

No	Title/Başlık	Corresponding Author / Muhatap Yazar	Page range / Sayfalar
	antimikrobiyal tiyo-antrakinon bileşiğinin sentezi		
14	Mineralization of Hydrochlorothiazide using Hydrogen Peroxide in Subcritical Water Subkritik suda hidrojen peroksit kullanarak hidroklorotiyazidin mineralleştirilmesi	Yahya Nural	1135-1144
15	DNA Base Bioisosteres, Bis-benzoxazoles, Exert Anti-proliferative Effect on Human Prostate and Breast Cancer Cells DNA Bazı biyoizoterleri, bis-benzoksazoller, insan prostat ve meme kanser hücrelerine karşı anti-proliferatif etki göstermektedir	Furkan Ayaz	1145-1152
16	Transition Metal Doped Solid Oxide Fuel Cell Cathodes Geçiş metal aşılı katı oksit yataklı pili katotları	Oktay Demircan	1153-1168
17	Polyoxotungstate/Oxy-Graphene Nanocomposite Multilayer Films For Electrocatalytic Hydrogen Evolution Elektrokatalitik hidrojen oluşumu için polioksotungstat/oksi-grafen nanokompozit çok tabakalı filmler	Yasemin Torlak	1169-1176
18	Thermally Stable Rice Husk Microcrystalline Cellulose as Adsorbent in PTLC Plates Isıl olarak kararlı, pirinç çeltiğinden elde edilen mikrokristalin selülozun PTLC tabakalarında adsorban olarak kullanılması	Mariam Arowona	1177-1184

No	Title/Başlık	Corresponding Author / Muhatap Yazar	Page range / Sayfalar
19	Preparation and Determination of In Vivo and In Vitro Performance of Doxycycline-Imprinted Contact Lenses for Corneal Neovascularization Treatment Korneal Neovaskülarizasyon Tedavisi için Doksisisiklin Yazdırılmış Kontakt Lenslerin Hazırlanması ve In Vivo - In Vitro Performansının İncelenmesi	F. Seniha Güler	1185-1192
20	Structural, Spectroscopic and Activity Calculations on Methanesulfonylhydrazone Derivative Chromium Pentacarbonyl Complexes Metansülfonilhidrazon Türevi Krom Pentakarbonil Komplekslerinin Yapısal, Spektroskopik ve Aktivite Hesaplamaları	Sultan Erkan Kariper	1193-1204
21	A Sensitive Quantification of Agmatine Using a Hybrid Electrode Based on Zinc Oxide Nanoparticles Çinko Oksit Nanoparçacıklara Dayanan Hibrit Elektrodu Kullanarak Agmatinin Hassas olarak Tayini	Hilal İncebay	1205-1214
22	Supercritical Carbondioxide Extraction of Lavandula Officinalis (Lavender) and Hypericum Perforatum (Centaury) Plants Grown in Mersin Region: Investigation of Antioxidant and Antibacterial Activities of Extracts and Usage as Cosmetic Preservatives in Creams Mersin Bölgesi'nde Yetişen Lavandula Officinalis (Lavanta) ve Hypericum Perforatum (Kantaron) Bitkilerinin Süperkritik Karbondioksit Ekstraksiyonu: Ekstraktların Antioksidan ve Antibakteriyel Aktivitelerinin İncelenmesi ve Kremlerde Kozmetik	Göktürk Avcı	1215-1220

No	Title/Başlık	Corresponding Author / Muhatap Yazar	Page range / Sayfalar
	Koruyucu Olarak Kullanılması		
23	Synthesis of Dihydrobenzofuranone Derivatives with Biotechnological Methods Biyoteknolojik Yöntemlerle Dihidrobenzofuranon Türevlerinin Sentezi	Zerrin Zerenler Çalışkan	1221-1232
24	Artificial Intelligence Algorithms Inspired By Life Sciences Hayat Bilimlerinden İlham Alan Yapay Zekâ Algoritmaları	Hüseyin Turgut	1233-1238
25	Syntheses and Spectroscopic Characterization on New [O-3-phenyl-1-propyl-(4-methoxyphenyl)dithiophosphonato] Ni(II), Cd(II) and Hg(II) Complexes Yeni [O-3-fenil-1-propil-(4-metoksifenil)ditiyofosfonato] Ni(II), Cd(II) ve Hg(II) Komplekslerinin Sentezi ve Spektroskopik Karakterizasyonu	Ertuğrul Gazi Sağlam	1239-1248
26	Green Preparation of Multiwalled Carbon Nanotubes-Supported Pd and Cu Nanoparticles with Novel Vic-dioxime Metal Complexes Yeni Vic-dioksim Metal Kompleksleri İçeren Pd ve Cu Nanoparçacıklı Çok Duvarlı Karbon Nanotüplerin Yeşil Bir Yolla Hazırlanması	Fatma Ulusal	1249-1256
27	Activated Plantain Peel Biochar As Adsorbent For Sorption of Zinc(II) Ions: Equilibrium and Kinetics Studies. Çinko(II) İyonlarının Sorpsiyonu İçin Adsorban Olarak Aktifleştirilmiş Muz Kabuğu Biyokömürünün kullanılması: Denge ve Kinetik Çalışmaları	Nworie F. S.	1257-1270

No	Title/Başlık	Corresponding Author / Muhatap Yazar	Page range / Sayfalar
28	A Schiff Base Sensor Selective to Anions, Biological Activity, and Spectral Studies Anyonlara Karşı Hassas Bir Schiff Baz Sensörü, Biyolojik Aktivite ve Spektral Çalışmalar	Mustafa Yıldız	1271-1278
29	Pharmacophore-Based Virtual Screening of Novel GSTP1-1 Inhibitors Yeni GSTP1-1 İnhibitörlerinin Farmakofor-Esaslı Sanal Görüntülenmesi	Kayhan Bolelli	1279-1286
30	Modeling of Anthocyanin Derivatives as Anti-UV Agents Anti-UV Araçları Olarak Antosiyanin Türevlerinin Modellenmesi	Khusna Arif Rakhman	1287-1294
31	Pentafluoropropionic Anhydride Functionalized PAMAM Dendrimer as miRNA Delivery Reagent miRNA Dağıtım Reaktifi olarak Pentafloropropionik Anhidrit Fonksiyonel PAMAM Dendrimeri	Ali Öztuna	1295-1302
32	Volatile compounds of the Lavandula angustifolia Mill. (Lamiaceae) Species Cultured in Turkey Türkiye'de Üretilen Lavandula angustifolia Mill. (Lamiaceae) Türlerinin Uçucu Bileşenleri	Sevim Küçük	1303-1308
33	Evaluation and Advantages of Algae as an Energy Source Enerji Kaynağı Olarak Alglerin Değerlendirilmesi ve Avantajları	Fevzi Yaşar	1309-1318

No	Title/Başlık	Corresponding Author / Muhatap Yazar	Page range / Sayfalar
34	Investigation of Mineral Components and Antioxidant Properties of a Healthy Red Fruit: Cornelian Cherry (Cornus mas L.) Sağlıklı bir kırmızı meyve olan Cornelian Cherry'nin (Cornus mas L.) Mineral Bileşenleri ve Antioksidan Özelliklerinin İncelenmesi	Merve Gökşin Karaaslan	1319-1326
35	In situ Crosslinkable Thiol-ene Hydrogels Based on PEGylated Chitosan and β -Cyclodextrin PEG'lenmiş Kitosan ve β -siklodekstrine Dayanan In situ Çapraz Bağlanabilir Tiyon-en Hidrojeller	Mehmet Arslan	1327-1336
36	In silico Molecular Docking and Pharmacokinetic Study of Selected Phytochemicals With Estrogen and Progesterone Receptors as Anticancer Agent for Breast Cancer Meme Kanseri İçin Antikanser Aracı Olarak Östrojen ve Progesteron Reseptörleri ile Seçilmiş Fitokimyasalların in siliko Moleküler Yerleştirme ve Farmakokinetik Çalışması	Sagir Yusuf Ismail ¹	1337-1350
37	MODIFICATION OF NOVEL ISOXAZOLINES OF FULVENE DERIVATIVES WITH 1,3-DIPOLAR CYCLOADDITION REACTION 1,3-Dipolar Halkalı Katılma Tepkimesi ile Fulven Türevlerinin Yeni İzoksazolinlerinin Modifikasyonu	Ömer Günkara	1351-1360
38	Lipid and essential oil constituents of Cota hamzaoglu Özbek & Vural (Asteraceae) Cota hamzaoglu Özbek & Vural (Asteraceae) bitkisinin lipid ve esans yağ bileşenleri	Gülmira Özek	1361-1370

No	Title/Başlık	Corresponding Author / Muhatap Yazar	Page range / Sayfalar
39	Concentrations of Environmental Radioactivity in Sediment Cores from Kulakçayiri Lake Kulakçayırı Gölü'nden Dip Tortularının Çevresel Radyoaktivite Konsantrasyonları	Erol Kam	1371-1374
40	Synthesis of a Novel Benzimidazole Moiety-Appended Schiff Base Derivative: Fluorescence and Chemosensor Study Benzimidazol Grubu Eklenmiş Yeni Bir Schiff Baz Türevinin Sentezi: Floresans ve Kemosensör Çalışması	Pınar Şen	1375-1386
41	QSAR studies on some C14-urea tetrandrine compounds as potent anti-cancer agents against Leukemia cell line (K562) Lösemi hücre dizisine (K562) karşılık potansiyel anti kanser araçları olarak bazı C14- üre tetrandrin bileşiklerinin QSAR çalışması	Mustapha Abdullahi	1387-1398
42	Inhibition of DNase I Enzyme with Nickel(II) Triphenylphosphine Complexes Incorporating Tridentate Schiff Base Ligands in Vitro In Vitro Üç Dişli Schiff Bazı Ligandları Kullanan Nikel(II) Trifenilfosfin Kompleksleri ile DNaz I Enziminin Engellenmesi	Şükriye Güveli	1399-1406
43	Biochemical Confirmation of Anti-Inflammatory Activity of Oxicam-Based Pharmaceutical Compositions Oxicam Esaslı Farmasötik Bileşimlerin Anti-Enflamatuar Aktivitesinin Biyokimyasal Olarak Doğrulanması	Tetyana Tishakova	1407-1412

No	Title/Başlık	Corresponding Author / Muhatap Yazar	Page range / Sayfalar
44	Li+ doped chitosan-based solid polymer electrolyte incorporated with PEDOT:PSS for electrochromic device Elektrokromik cihaz olarak kullanım amacıyla PEDOT:PSS ilaveli, Li+ aşılı, kitosan esaslı katı polimer elektroliti	Esin Eren	1413-1422
45	Investigation of Organic Solvents' Effects on Kenaf (Hibiscus cannabinus L.) Biomass Conversion in Subcritical Water Kenaf'ın (Hibiscus cannabinus L.) Subkritik Suda Biyokütle Dönüşümü üzerine Organik Çözücülerin Etkilerinin İncelenmesi	Bahar Meryemoğlu	1423-1430
46	Determination of 5-hydroxymethylfurfural (5-HMF) in Expired Pharmaceutical Syrups by Using HPLC-DAD Method HPLC-DAD Yöntemiyle Süresi Geçmiş Farmasötik Şuruplarda 5-hidroksimetilfurfural (5-HMF) Tayini	Songül Ünüvar	1431-1440