



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

e-ISSN: 2149-0120

A biannual, open-access chemical journal, hosted by Dergipark

(Published, in English, in every February, June, and October)

**Editorial Board (sorted by the lastnames)**

Prof. Dr. Göktürk, Sinem (Physical Chemistry, Marmara University, Turkey)

Prof. Dr. Kadiođlu, Yücel (Electrochemistry, Atatürk University, Turkey)

Prof. Dr. Karagözler, A. Alev (Biochemistry, Adnan Menderes University, Turkey)

Prof. Dr. Köse, Dursun Ali (Inorganic Chemistry, Hitit University, Turkey)

Prof. Dr. Küçükbay, F. Zehra (Analytical Chemistry, İnönü University, Turkey)

Prof. Dr. Küçükbay, Hasan (Organic Chemistry, İnönü University, Turkey) Editor-in-Chief

Assoc. Prof. Dr. Sevim, Altuđ Mert (Editor, Istanbul Technical University, Turkey)

Prof. Dr. Taşdelen, M. Atilla (Polymer Chemistry, Yalova University, Turkey)

Prof. Dr. Yalçın, Esin A. (Computational Chemistry, Ankara University, Turkey)

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

Fax: +90 212 231 70 37

E-mail: [jotcsa@turchemsoc.org](mailto:jotcsa@turchemsoc.org)

Website: <https://dergipark.org.tr/jotcsa>

(\*)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.

**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 at <https://dergipark.org.tr/journal/1021/file-manager/14420/download>.

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

e-ISSN: 2149-0120

A biannual, open-access chemical journal, hosted by Dergipark

(Published, in English, in every February, and June, and October)

### **Editorial Advisory Board Members**

(sorted alphabetically by the last names)

Abo-dya, Nader Elmaghwry (Zagazig University, Egypt)

do Amaral, Marcos Serrou (Federal University of Mato Grosso do Sul, Brazil)

Beatriz, Adilson (Federal University of Mato Grosso do Sul, Brazil)

Carta, Fabrizio (Università degli Studi di Firenze, Italy)

El-Khatib, Mirna (University of Pennsylvania, USA)

Florio, Saverio (CINMPIS, Italy)

Jisikriani, Davit (University of Pennsylvania, USA)

Karagözler, Ali Ersin (Adnan Menderes University, Turkey – retired)

Külcü, Nevzat (Mersin University, Turkey)

Lebedeva, Iryna (Augusta University, USA)

Nájera, Carmen (Royal Spanish Academy of Sciences, Spain)

Orhan, Ersin (Düzce University, Turkey)

Panda, Siva S. (Augusta University, USA)

Panmand, Deepak S. (India) Pillai,

Girinath G. (University of Tartu, Estonia)  
Souizi, Abdelaziz (University of Ibn Tofail, Morocco)  
Seçen, Hasan (Atatürk University, Turkey)  
Seçkin, Turgay (Inonu University, Turkey)  
Stanovnik, Branko (University of Ljubljana, Slovenia)  
Supuran, Claudiu T. (University of Florence, Italy)  
Tural, Bilsen (Dicle University, Turkey)  
Tüfekçi, Mehmet (Karadeniz Technical University, Turkey)  
Yaman, Mehmet (Fırat University, Turkey)  
Yılmaz, İsmet (İnönü University, Turkey)  
Yılmaz, Ülkü (İnönü University, Turkey)  
Yus, Miguel (Universidad de Alicante, Spain)

No	Authors	Title	Page range
1	Veysel U. Celenk, Z. Pinar Gumus, Zeliha Ustun Argon, Mevlut Buyukhelvacigil, Ercument Karasulu	Analysis of Chemical Compositions of 15 Different Cold-Pressed Oils Produced in Turkey: A Case Study of Tocopherol and Fatty Acid Analysis Türkiye’de üretilen 15 farklı soğuk pres yağın kimyasal bileşimlerinin karşılaştırılması: Tokoferol ve yağ asidi analizi için vaka çalışması	1-18
2	Gokhan Kacar	Dissipative particle dynamics simulation parameters and interactions of a hydrogel Bir hidrojinin yitirgen parçacık dinamiği simülasyon parametreleri ve etkileşimleri	19-28
3	LUCA DOTTONI, Enunuwe Ochonogor	Error Analysis of Absolute Rate Coefficient Extrapolated Under Pseudo-First Order Conditions Yalancı birinci mertebeye altında ekstrapole edilmiş mutlak hız katsayısının hata analizi	29-40
4	Onur Cetinkaya, Hüseyin Çiçek, Şeyda Kıvrak, Gülsen Çayan	Boronic acid functionalized silica microparticles for isolation of flavonoids from Hypericum perforatum Hypericum perforatum’dan izole edilmiş flavonoidler için boronik asitle işlevselleştirilmiş silika mikroparçacıkları	41-60
5	Sinan Öztürk	The Weathering Study of PC/ASA Alloy For Automotive Exterior Applications Otomotiv dış uygulaması için PC/ASA alaşımının çeşitli hava koşullarında incelenmesi	61-72
6	Omer Tahir GUNKARA, Nuket OÇAL	Synthesis of New N-Phthalimide Substituted Tricyclic Imide Containing Isoxazoline and Bispino Functional Group as Possible Anti-cancer Agents Olası anti-kanser aracı olarak izoksazolin ve bispino işlevsel gruplarına sahip yeni N-ftalimid süstitüe trisiklik imidin sentezi	73-84

7	Hilmi Arkut AKALIN, Ümran Hiçsönmez, Hatice Yılmaz	REMOVAL OF CESIUM FROM AQUEOUS SOLUTION BY ADSORPTION ONTO SİVAS-YILDIZELİ (TÜRKİYE) VERMICULITE: EQUILIBRIUM, KINETIC AND THERMODYNAMIC STUDIES Sivas Yıldızeli (Türkiye) vermikuliti üzerine adsorplanarak sezyumun sulu çözeltiden giderilmesi: Denge, kinetik ve termodinamik çalışmalar	85-116
8	Mehmet Atilla Tasdelen, Serhat Oran	Synthesis and Characterization of Polysulfone-based Graft Copolymer Possessing Quaternary Ammonium Salts via Photoiniferter Polymerization Fotoiniferter polimerleşme yoluyla kuaterner amonyum tuzu içeren polisülfon esaslı graft kopolimerin sentezi ve karakterizasyonu	117-132
9	Dr. Mustafa Kemal YILMAZ, Mustafa KELEŞ	The catalytic activity of Palladium(II) complexes containing PN ligands in the Heck and Suzuki C-C coupling reactions Heck ve Suzuki C-C eşleşme tepkimelerinde PN ligandlarını içeren paladyum(II) komplekslerinin katalitik aktiviteleri	133-148
10	Hatice YILDIRIM	Synthesis and Structural Analysis of Some New Sulfanyl Amino 1,4-Naphthoquinone Derivatives Bazı yeni sülfanil amino 1,4-naftokinon türevlerinin sentezi ve yapısal analizi	149-158
11	Sevil Özkınalı, Muhammet Serdar Çavuş, Büşra Umur Sakin	Synthesis, Characterisation and DFT Calculations of Azo-Imine Dyes Azo-imin boyar maddelerinin sentezi, karakterizasyonu ve DFT hesaplamaları	159-178
12	Dr. Yasemin Budama Kilinc, Yrd.Doç.Dr. Rabia Cakir Koc, Yüksek Lisans Zeynep Kaya	Preparation and Cytotoxicity of Coriandrum Sativum L. Oil Loaded Chitosan Nanoparticles Coriandrum sativum L. Yağı yüklenmiş kitosan nanoparçacıklarının hazırlanması ve sitotoksitesisi	179-190
13	Berna Topuz, Ali Semih Yurttaş, Ali Altunsoy	Preparation of Al <sub>2</sub> O <sub>3</sub> Supports for Thin Membrane Fabrication	191-204

		İnce zar üretimi için Al <sub>2</sub> O <sub>3</sub> desteklerinin hazırlanması	
14	Erdal YABALAK	Radical Scavenging Activity and Chemical Composition of Methanolic Extract from <i>Arum dioscoridis</i> SM. var. <i>dioscoridis</i> and Determination of Its Mineral and Trace Elements  Arum dioscoridis SM. var. <i>Dioscoridis</i> 'ten elde edilen metanollü ekstraktın radikal süpürme aktivitesi ve kimyasal bileşimi, mineral ve eser elementlerinin tayini	205-218
15	Atakan Toprak, Kadriye Bozgeyik	Examination of the Effects of Activated Carbon Produced from Coal Using Single-Step H <sub>3</sub> PO <sub>4</sub> /N <sub>2</sub> +H <sub>2</sub> O Vapor Activation on the Adsorption of Bovine Serum Albumin at Different Temperatures and pH Values  Tek adımlı H <sub>3</sub> PO <sub>4</sub> /N <sub>2</sub> +H <sub>2</sub> O buhar aktivasyonu kullanarak kömürden elde edilen aktif karbonun etkilerinin incelenmesi ve farklı sıcaklık ve pH değerlerinde sığır serum albüminin adsorpsiyonu	219-236
16	Elif Caliskan Salihi	Adsorption Of Metamizole Sodium By Activated Carbon In Simulated Gastric And Intestinal Fluids  Simüle edilmiş mide ve bağırsak içeriğinde metamizol sodyumun aktifleşmiş karbon tarafından adsorpsiyonu	237-246
17	Soykan Açar, Omer Tahir Gunkara	THE LATEST ADVANCEMENTS IN THE ACYLATION REACTIONS VIA CROSS-DEHYDROGENATIVE COUPLING AND/OR METAL CATALYSTS  Çapraz dehidrojenatif eşleşme ve/veya metal katalizörleri yoluyla açilleme tepkimelerinde son gelişmeler	247-268
18	Armağan Günsel	Comparative Studies of Photophysicochemical Properties of Non-Peripherally Anisole/Thioanisole-Tetrasubstituted Gallium (III) Phthalocyanines Containing Oxygen/ Sulfur Bridge  Oksijen/kükürt köprüsü içeren periferolmayan anisol/tiyoanisol ile dörtlü sübstitüsyon yapmış galyum(III) ftalosiyanınların karşılaştırmalı çalışması ve fizikokimyasal özellikleri	269-282

19	Burcu OKTAY, Sevil TÜRKER, Sevim KARATAŞ, Nilhan APOHAN	Multi-Walled Carbon Nanotube Reinforced Polyimide Composites Çok duvarlı karbon nanotüple güçlendirilmiş poliimid kompozitler	283-294
20	Ibrahim Ozcesmeci, İdris Sorar	Optical investigation of palladium(II) phthalocyanine including an aromatic group Aromatik bir grup içeren paladyum(II) ftalosiyanınin optik incelemesi	295-302
21	Youssef MERROUN, Soukaina CHEHAB, Touriya GHAILANE, Said BOUKHRIS, Rachida GHAILANE, Nouzha HABBADI, Amina HASSIKOU, Brahim LAKHRISSE, Abdelaziz SOUIZI	An Effective Method to Synthesize 2,3-Dihydroquinazolin-4(1H)-One Using Phosphate Fertilizers (MAP, DAP and TSP) as Green Heterogeneous Catalysts Yeşil heterojen katalizör olarak fosfatlı gübreleri (MAP, DAP ve TSP) kullanarak 2,3-dihidrokinazolin-4(1H)-on sentezi için etkili bir yöntem	303-316
22	Berna Dalkıran, Ceren Kaçar, Pınar Esra Erden, Esmâ Kılıç	Electrochemical xanthine biosensor based on zinc oxide nanoparticles–multiwalled carbon nanotubes–1,4-benzoquinone composite Çinko oksit nanoparçacıkları – çok duvarlı karbon nanotüpler – 1,4-benzokinon kompozitine dayanan elektrokimyasal ksantin biyoalgılayıcısı	317-332





### **Editorial, JOTCSA 5(1), 2018**

We have launched our new issue, namely JOTCSA 5(1), 2018, just a few days ago and provided you with this editorial document. In this issue, twenty-two articles were published and as everytime, they are free to download. We wish our readers to cite our works, so that our journal can elevate further into the main event. Queries may be placed to myself at [hasan.kucukbay@inonu.edu.tr](mailto:hasan.kucukbay@inonu.edu.tr) or to our managing editor at [jotcsa@turchemsoc.org](mailto:jotcsa@turchemsoc.org).

See you in the next issue...

Kind regards,

Prof. Dr. Hasan KÜÇÜKBAY

Editor-in-chief, JOTCSA