

## Assoc. Prof. Abdullah Aydoğan

### Personal Information

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### Education Information

Doctorate, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), Turkey 2003 - 2010

Postgraduate, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 2000 - 2003

Undergraduate, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, Turkey 1996 - 2000

### Foreign Languages

English

### Dissertations

Doctorate, Synthesis of functional group containing calix[4]pyrroles, İstanbul Teknik Üniversitesi, Fen Bilimleri Enstitüsü, Kimya (Dr), 2010

Postgraduate, Tetrakarbonil Pirool Türü Bileşiklerin Sentezi, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2003

### Research Areas

Chemistry, Organic Chemistry, Chemistry of Heterocyclic Compounds, Organic Reaction Mechanisms, Natural Sciences

### Academic Titles / Tasks

Associate Professor, İstanbul Technical University, Fen-Edebiyat, Kimya, 2017 - Continues

Lecturer PhD, İstanbul Technical University, Fen-Edebiyat, Kimya, 2013 - 2017

Research Assistant, İstanbul Technical University, Fen-Edebiyat, Kimya, 2002 - 2013

### Courses

Seminer, Postgraduate, 2019 - 2020

Organic Chemistry, Undergraduate, 2019 - 2020

### Advising Theses

Aydoğan A., Calix[4]pyrrole based supramolecular polymers via ortagonal interactions, Postgraduate, A.Budak(Student), Continues

Aydoğan A., Kaliks[4]pirol Bazlı Sensörler ve Supramoleküler Polimerler, Doctorate, S.Yuvayapan(Student), 2020

### Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **A calix[4]pyrrole-based linear supramolecular polymer constructed by orthogonal self-assembly**  
Budak A., Aydoğan A.  
CHEMICAL COMMUNICATIONS, vol.57, no.34, pp.4186-4189, 2021 (Journal Indexed in SCI)
- II. **Ion Pair Recognition Based Supramolecular Polymer Showing Rapid and Reversible Sol-Gel Transition through van der Waals Interactions**  
Amharar S., Atsay A., Aydoğan A.  
ACS APPLIED POLYMER MATERIALS, vol.2, no.12, pp.5371-5376, 2020 (Journal Indexed in SCI)
- III. **Supramolecular calix[4]pyrrole polymers from a complementary pair of homoditopic host-guest molecules**  
Yuvayapan S., Aydoğan A.  
CHEMICAL COMMUNICATIONS, vol.55, no.60, pp.8800-8803, 2019 (Journal Indexed in SCI)
- IV. **Counter Cation Dependent and Stimuli Responsive Supramolecular Polymers Constructed by Calix[4]pyrrole Based Host-Guest Interactions**  
Yuvayapan S., Aydoğan A.  
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, no.4, pp.633-639, 2019 (Journal Indexed in SCI)
- V. **Calix[4]pyrrole-decorated carbon nanotubes on paper for sensing acetone vapor**  
Baysak E., Yuvayapan S., Aydoğan A., Hızal G.  
SENSORS AND ACTUATORS B-CHEMICAL, vol.258, pp.484-491, 2018 (Journal Indexed in SCI)
- VI. **A thermoresponsive supramolecular polymer gel from a heteroditopic calix[4]pyrrole**  
AMHARAR S., Yuvayapan S., Aydoğan A.  
Chemical Communications, vol.54, no.7, pp.829-832, 2018 (Journal Indexed in SCI Expanded)
- VII. **Calix[4]pyrroles with bulky substituents and their anion binding studies**  
Akar A., Aydoğan A.  
TURKISH JOURNAL OF CHEMISTRY, vol.41, no.4, pp.493-507, 2017 (Journal Indexed in SCI)
- VIII. **Synthesis and characterisation of a calix[4] pyrrole functional polystyrene via 'click chemistry' and its use in the extraction of halide anion salts**  
Aydoğan A.  
SUPRAMOLECULAR CHEMISTRY, vol.28, pp.117-124, 2016 (Journal Indexed in SCI)
- IX. **Reversible Assembly and Disassembly of Receptor-Decorated Gold Nanoparticles Controlled by Ion Recognition**  
Aydoğan A., LEE G., LEE C., SESSLER J. L.  
CHEMISTRY-A EUROPEAN JOURNAL, vol.21, no.6, pp.2368-2376, 2015 (Journal Indexed in SCI)
- X. **An imidazolium-functionalized self-assembling calix[4]pyrrole**  
Aydoğan A., SESSLER J. L.  
CHEMICAL COMMUNICATIONS, vol.50, no.88, pp.13600-13603, 2014 (Journal Indexed in SCI)
- XI. **Tetrakis(bicyclo[2.2.2]oct-2-ene)-Fused Calix[4]pyrrole**  
Aydoğan A., AKAR A.  
HELVETICA CHIMICA ACTA, vol.97, no.10, pp.1427-1432, 2014 (Journal Indexed in SCI)
- XII. **EDOT-Functionalized Calix[4]pyrrole for the Electrochemical Sensing of Fluoride in Water**  
Aydoğan A., Koca A., ŞENER M. K. , SESSLER J. L.  
ORGANIC LETTERS, vol.16, no.14, pp.3764-3767, 2014 (Journal Indexed in SCI)
- XIII. **Decoration of Gold Nanoparticles by a Double-Armed Calix[4]pyrrole: A Receptor-Decorated Nanoensemble for Anion Sensing and Extraction**  
Sokkalingam P., HONG S., Aydogan A., SESSLER J. L. , LEE C.

- CHEMISTRY-A EUROPEAN JOURNAL, vol.19, no.19, pp.5860-5867, 2013 (Journal Indexed in SCI)
- XIV. **Tri- and Pentacalix[4]pyrroles: Synthesis, Characterization and Their Use in the Extraction of Halide Salts**  
Aydoğan A., AKAR A.  
CHEMISTRY-A EUROPEAN JOURNAL, vol.18, no.7, pp.1999-2005, 2012 (Journal Indexed in SCI)
- XV. **Siloxane-functionalized calix[4]pyrrole: synthesis, characterization and modification of silica-based solid supports**  
Aydoğan A., AKAR A.  
TETRAHEDRON LETTERS, vol.52, no.21, pp.2790-2793, 2011 (Journal Indexed in SCI)
- XVI. **5,10,10,15,20,20-Hexamethylcalix[4]pyrrole 5,15-diethyl diester**  
Aydoğan A., AKAR A.  
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.65, 2009 (Journal Indexed in SCI)
- XVII. **Polymeric systems containing macrocyclic structures for the extraction of ionic species from aqueous environments**  
Rambo B. M. , Bill N. L. , Aydoğan A., Coady D. J. , Kim D., Bielawski C. W. , Sessler J. L.  
ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, vol.237, 2009 (Journal Indexed in SCI)
- XVIII. **Poly( methyl methacrylate)s with pendant calixpyrroles: polymeric extractants for halide anion salts**  
Aydoğan A., COADY D. J. , LYNCH V. M. , AKAR A., Marquez M., BIELAWSKI C. W. , SESSLER J. L.  
CHEMICAL COMMUNICATIONS, no.12, pp.1455-1457, 2008 (Journal Indexed in SCI)
- XIX. **Poly(methyl methacrylate)s with Pendant Calixpyrroles and Crown Ethers: Polymeric Extractants for Potassium Halides**  
Aydoğan A., COADY D. J. , KIM S. K. , AKAR A., BIELAWSKI C. W. , Marquez M., SESSLER J. L.  
ANGEWANDTE CHEMIE-INTERNATIONAL EDITION, vol.47, no.50, pp.9648-9652, 2008 (Journal Indexed in SCI)
- XX. **Calix[4]pyrroles with long alkyl chains: Synthesis, characterization, and anion binding studies**  
Aydoğan A., SESSLER J. L. , AKAR A., LYNCH V.  
SUPRAMOLECULAR CHEMISTRY, vol.20, pp.11-21, 2008 (Journal Indexed in SCI)
- XXI. **Synthesis of meso-tetra acid and ester functionalized calix[4]pyrroles**  
Akar A., Aydoğan A.  
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.42, no.5, pp.931-934, 2005 (Journal Indexed in SCI)

## Supported Projects

- Aydoğan A., TUBITAK Project, Kaliks[4]pirol ve Anyon Tanınması ile AA-BB ve 3A-BB Tipi Supramoleküler Polimer ve Jeller, 2018 - 2020
- Aydoğan A., Yuvayapan S., Project Supported by Higher Education Institutions, Kaliks4pirol Bazlı Supramoleküler Polimerler, 2017 - 2020
- Aydoğan A., İlhan S., TUBITAK Project, Uzun Ömürlü Silikon İzolatör İçin Optimum Katkı Kompozisyonu Belirlenmesi Ve Ömür Kestirimi, 2017 - 2019
- Aydoğan A., TUBITAK Project, Duyarlı ve Kendi Kendini Onarabilen Kaliks[4]pirol Bazlı Supramoleküler Polimerler, 2017 - 2018
- Aydoğan A., Project Supported by Higher Education Institutions, Pendant Kaliks[4]pirol İçeren Polistirenler Kullanılarak Halojenür Anyonlarının Ekstraksiyonu, 2016 - 2018
- Aydoğan A., Project Supported by Higher Education Institutions, Kendi Kendine Kompleksleşen ve Düzenlenen Bir Kaliks (4) pirol Bileşiği, 2013 - 2018
- Aydoğan A., Project Supported by Higher Education Institutions, Pendant Kaliks (4) Pirol Üniteleri İçeren Polistirenler, 2011 - 2018
- Aydoğan A., Project Supported by Higher Education Institutions, Pendant Kaliks (4) pirol İçeren Polistirenlerin Sentezi ve Anyon Ekstraksiyonunda Kullanımı, 2011 - 2016

## **Scientific Refereeing**

Journal of The American Chemical Society, SCI Journal, January 2018

Chemical Communications, SCI Journal, June 2017

## **Tasks In Event Organizations**

Aydođan A., Yılmaz İ., Hızal G., Öztürk T., Mandal H., Korkusuz F., Kalkan Burat A., Ünlü C., Özcan M., Uluslararası Kimya Olimpiyatları, Workshop Organization, Turkey, Temmuz 2020

## **Citations**

Total Citations (WOS):322

h-index (WOS):10

## **Scholarships**

Doktora sonrası araştırma bursu, TÜBİTAK, 2012 - 2013