

Assoc. Prof. Abdullah Aydođan

Personal Information

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Education Information

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

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

Under Graduate, 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

Post Graduate, Tetrakarbonil PiroI 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 Teknik Üniversitesi, Fen Edebiyat Fakültesi, Kimya, 2017 - Continues

Lecturer PhD, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2013 - 2017

Research Assistant, İstanbul Teknik Üniversitesi, Fen-Edebiyat Fakültesi, Kimya Bölümü, 2002 - 2013

Courses

Seminer, Post Graduate, 2019 - 2020

Organic Chemistry, Under Graduate, 2019 - 2020

Advising Theses

Aydoğan A., Calix[4]pyrrole based supramolecular polymers via ortagonal interactions, Post Graduate, 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. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **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)
- VI. **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)
- VII. **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)
- VIII. **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)
- IX. **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)
- X. **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)
- XI. **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)
- XII. **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)
- XIII. **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)
- XIV. **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)
- XV. **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)
- XVI. **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)
- XVII. **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)
- XVIII. **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)
- XIX. **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)
- XX. **Synthesis of meso-tetra acid and ester functionalized calix[4]pyrroles**
Akar A., Aydogan 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):295

h-index (WOS):10

Scholarships

Doktora sonrası araştırma bursu, TÜBİTAK, 2012 - 2013