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Education Information

Doctorate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Organic Chemistry, Turkey 1994 - 1999

Postgraduate, Yildiz Technical University, Graduate School Of Natural And Applied Sciences, Organic Chemistry, Turkey 1991 - 1993

Undergraduate, Yildiz Technical University, Faculty Of Arts & Science, Kimya, Turkey 1986 - 1990

Research Areas

Chemistry, Organic Chemistry, Chemistry of Asymmetric Synthesis, Natural Sciences

Academic Titles / Tasks

Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2011 - Continues

Associate Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2005 - 2011

Assistant Professor, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2002 - 2005

Research Assistant PhD, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 1999 - 2002

Research Assistant, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, 1991 - 1999

Advising Theses

Aydođan F., Yörür Göreci Ç., Doymamış nitril bileşiklerinin sentezi, karakterizasyonu ve potansiyel uygulamaları, Postgraduate, A.TORAMAN(Student), 2018

AYDOĐAN F., Aminonitril Sentezinde Çeşitli Organokatalizörlerin Etkinliğinin İncelenmesi, Postgraduate, Ö.Aydın(Student), 2016

AYDOĐAN F., Mikrodalga Etkisi Altında N-Substitue Pirel Bileşiklerinin Sentezi, Postgraduate, M.Başarır(Student), 2016

AYDOĐAN F., Faz Transfer Katalizörlerinin Sentezi ve Uygulamaları, Postgraduate, Ç.Yıldırım(Student), 2016

Aydođan F., Green methods in organic synthesis, Postgraduate, A.JUMAAH(Student), 2016

AYDOĐAN F., Amonyum Tuzlarının Çeşitli Organik Reaksiyonlarda Faz Transfer Katalizörü Olarak Kullanılması, Postgraduate, İ.Esen(Student), 2016

Published journal articles indexed by SCI, SSCI, and AHCI

- An investigation of chiral diamides as organocatalysts in asymmetric aldol reaction**
Yılmaz D. G., AYDOĐAN F., YOLAÇAN Ç.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.59, no.7, pp.1169-1179, 2022 (SCI-Expanded)

- II. **Computer-aided anticancer drug design: In vitro and in silico studies of new iminocoumarin derivative**
Kecel-Gunduz S., Budama-Kilinc Y., Gok B., Bıçak B., Akman G., Arvas B., Aydođan F., Yolaçan Ç.
JOURNAL OF MOLECULAR STRUCTURE, vol.1239, 2021 (SCI-Expanded)
- III. **A new coumarin based Schiff base fluorescence probe for zinc ion**
ARVAS B., Ucar B., Acar T., ARVAS M. B., ŞAHİN Y., AYDOĐAN F., YOLAÇAN Ç.
TETRAHEDRON, vol.88, 2021 (SCI-Expanded)
- IV. **Pro-Phe Derivatives as Organocatalysts in Asymmetric Aldol Reaction**
Karaođlu M., Aydođan F., Yolaçan Ç.
Letters In Organic Chemistry, vol.18, no.3, pp.233-239, 2021 (SCI-Expanded)
- V. **New nanodrug design for cancer therapy: Its synthesis, formulation, in vitro and in silico evaluations**
Budama-Kilinc Y., Kecel-Gunduz S., Ozdemir B., BIÇAK B., AKMAN G., ARVAS B., AYDOĐAN F., YOLAÇAN Ç.
ARCHIV DER PHARMAZIE, vol.353, no.11, 2020 (SCI-Expanded)
- VI. **Synthesis of New Di- and Triamides as Potential Organocatalysts for Asymmetric Aldol Reaction in Water**
Keskin E., YOLAÇAN Ç., AYDOĐAN F.
ACTA CHIMICA SLOVENICA, vol.67, no.4, pp.1014-1023, 2020 (SCI-Expanded)
- VII. **Solvent Free Synthesis of N-Substituted Pyrrole Derivatives Catalyzed by Silica Sulfuric Acid**
Khammas A. J., Yolaçan Ç., Aydođan F.
RUSSIAN JOURNAL OF GENERAL CHEMISTRY, vol.88, pp.2680-2683, 2018 (SCI-Expanded)
- VIII. **New and effective proline-based catalysts for asymmetric aldol reaction in water**
Yorulmaz T., Aydođan F., Yolaçan Ç.
SYNTHETIC COMMUNICATIONS, vol.47, pp.78-85, 2017 (SCI-Expanded)
- IX. **Synthesis of New Thiazolidine Based Organocatalysts and their Application to Asymmetric Aldol Reaction**
Cicek M., Aydođan F., Yolaçan Ç.
LETTERS IN ORGANIC CHEMISTRY, vol.14, pp.778-786, 2017 (SCI-Expanded)
- X. **Evaluation of mono- and dipeptides as organocatalysts for enantioselective aldol reaction**
Yolaçan Ç., Mavis M. E., Aydođan F.
TETRAHEDRON, vol.70, pp.3707-3713, 2014 (SCI-Expanded)
- XI. **Investigation of Proline Amides and Pyridinium Salts as Catalyst for Direct Aldol Reactions in Water**
Ozkan A., Mavis M. E., Aydođan F., Yolaçan Ç.
JOURNAL OF THE CHEMICAL SOCIETY OF PAKISTAN, vol.36, pp.326-331, 2014 (SCI-Expanded)
- XII. **Clauson Kaas Pyrrole Synthesis Catalyzed by Acidic Ionic Liquid under Microwave Irradiation**
AYDOĐAN F., YOLAÇAN Ç.
JOURNAL OF CHEMISTRY, 2013 (SCI-Expanded)
- XIII. **Synthesis of alpha-aminonitriles catalyzed by montmorillonite K10 in the presence of dicationic phosphonium salt in water under ultrasonic effect**
Yildirim C., YOLAÇAN Ç., AYDOĐAN F.
TURKISH JOURNAL OF CHEMISTRY, vol.36, no.1, pp.101-109, 2012 (SCI-Expanded)
- XIV. **Solvent-free Michael addition of 2-cyclohexenone under ultrasonic irradiation in the presence of long chain dicationic ammonium salts**
Öge A., Maviş M. E., Yolaçan Ç., Aydođan F.
TURKISH JOURNAL OF CHEMISTRY, vol.36, pp.137-146, 2012 (SCI-Expanded)
- XV. **An investigation of the catalytic potential of mono- and dicationic imidazolium N-heterocyclic carbenes in the benzoin condensation**
Mavis M. E., Yolaçan Ç., Aydođan F.
TETRAHEDRON LETTERS, vol.51, pp.4509-4511, 2010 (SCI-Expanded)
- XVI. **Long Chain Dicationic Phase Transfer Catalysts in the Condensation Reactions of Aromatic Aldehydes in Water Under Ultrasonic Effect**

- ESEN I., YOLAÇAN Ç., AYDOĞAN F.
BULLETIN OF THE KOREAN CHEMICAL SOCIETY, vol.31, no.8, pp.2289-2292, 2010 (SCI-Expanded)
- XVII. Preparation of 1,2- and 1,4-dihydro derivatives of 6,7-dimethyl-2,3-diphenylquinoxaline via its dianion formed by reductive metallation**
Kaban S., AYDOĞAN F.
MONATSHEFTE FÜR CHEMIE, vol.139, no.6, pp.669-672, 2008 (SCI-Expanded)
- XVIII. POTENTIOMETRIC TITRATION OF SOME DIAMINO COMPOUNDS IN TOLUENE**
Kocaoba S., Aydoğan F., Afşar H.
REVIEWS IN ANALYTICAL CHEMISTRY, vol.27, no.4, pp.263-271, 2008 (SCI-Expanded)
- XIX. Non aqueous titrations: Potentiometric titration of some primary amines**
Kocaoba S., Aydoğan F., Afşar H.
REVIEWS IN ANALYTICAL CHEMISTRY, vol.27, no.2, pp.123-130, 2008 (SCI-Expanded)
- XX. New and clean synthesis of N-substituted pyrroles under microwave irradiation**
AYDOĞAN F., BASARIR M., YOLAÇAN Ç., DEMİR A.
TETRAHEDRON, vol.63, no.39, pp.9746-9750, 2007 (SCI-Expanded)
- XXI. Synthesis of new pyrazolothiazole derivatives from 4-thiazolidinones**
Turgut Z., Yolacan C., Aydogan F., Bagdatli E., Ocal N.
MOLECULES, vol.12, no.9, pp.2151-2159, 2007 (SCI-Expanded)
- XXII. Potentiometric titration of P-anisidine and P-toluidine in non-aqueous media**
Kocaoba S., Aydoğan F., Afşar H.
REVIEWS IN ANALYTICAL CHEMISTRY, vol.25, no.4, pp.285-293, 2006 (SCI-Expanded)
- XXIII. Clean and efficient microwave-solvent-free conversion of homochiral amines, α -amino alcohols and α -amino acids to their chiral 2-substituted pyrrole derivatives**
AYDOĞAN F., Demir A.
TETRAHEDRON, vol.61, pp.3019-3023, 2005 (SCI-Expanded)
- XXIV. Synthesis and photooxygenation of homochiral 2-methylpyrrole derivatives of chiral amino alcohols: simple, selective access to chiral bicyclic lactams**
AYDOĞAN F., Demir A.
TETRAHEDRON-ASYMMETRY, vol.15, no.2, pp.259-265, 2004 (SCI-Expanded)
- XXV. Synthesis of some furo-thiazolidine derivatives starting from aldimines**
Ocal N., AYDOĞAN F., Yolaçan Ç., Turgut Z.
JOURNAL OF HETEROCYCLIC CHEMISTRY, vol.40, no.4, pp.721-724, 2003 (SCI-Expanded)
- XXVI. The synthesis of chiral 5-methylene pyrrol-2(5H)-ones via photooxygenation of homochiral 2-methylpyrrole derivatives**
AYDOĞAN F., Akhmedov I.
TETRAHEDRON-ASYMMETRY, vol.13, 2002 (SCI-Expanded)
- XXVII. 4,6-Dimethyl-2-(2,4-dimethylphenyliminomethyl)-quinoline**
Aygün M., Öztürk S., AYDOĞAN F.
ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, vol.58, 2002 (SCI-Expanded)
- XXVIII. Synthesis and electronic structure of new aryl- and alkyl-substituted 1,3,4-oxadiazole-2-thione derivatives**
AYDOĞAN F., Turgut Z., Öcal N., Erdem S.
TURKISH JOURNAL OF CHEMISTRY, vol.26, no.2, pp.159-169, 2002 (SCI-Expanded)
- XXIX. 2-[(2-Chlorophenyl)iminomethyl]-4,6-dimethylquinoline**
Akkurt M., Aygün M., AYDOĞAN F.
ACTA CRYSTALLOGRAPHICA SECTION A, vol.57, 2001 (SCI-Expanded)
- XXX. Simple chemoenzymatic access to enantiopure pharmacologically interesting (R)-2-hydroxypropiophenones**
Demir A., Hamamcı H., Şeşenoğlu Ö., AYDOĞAN F., Çapanoğlu D., Neslihanoglu R.
TETRAHEDRON-ASYMMETRY, vol.12, no.13, pp.1953-1956, 2001 (SCI-Expanded)
- XXXI. Transformations of aldimines derived from pyrrole-2-carbaldehyde. Synthesis of thiazolidino-fused**

compounds

AYDOĞAN F., Öcal N., Turgut Z., Yolaçan Ç.

BULLETIN OF THE KOREAN CHEMICAL SOCIETY, vol.22, no.5, pp.476-480, 2001 (SCI-Expanded)

XXXII. 4,6-Dimethyl-2-(o-tolyliminomethyl)quinoline

Öztürk S., Aygün M., AYDOĞAN F.

ACTA CRYSTALLOGRAPHICA SECTION A, 2001 (SCI-Expanded)

XXXIII. Transformations of 4-N-arylamino-4-(8-quinolinyl)-1-butenes and 3-aryl-2-(8-quinolinyl)4-thiazolidinones

Mendez L., Kouznetsov V., Poveda J., Yolaçan Ç., Öcal N., AYDOĞAN F.

HETEROCYCLIC COMMUNICATIONS, vol.7, no.2, pp.129-134, 2001 (SCI-Expanded)

Articles Published in Other Journals

I. Synthesis of New Pyrrolidine-1,2-dicarboxamides and Investigation of Their Activity for the Synthesis of Aminonitriles

Aydın Ö., YOLAÇAN Ç., AYDOĞAN F.

American Chemical Science Journal, vol.12, pp.1-8, 2015 (Scopus)

II. Non-aqueous titrations: Solvent effect on potentiometric titrations of some amines

Aydoğan F., KOCAOBA S., Afşar H.

Ovidius University Annals of Chemistry, vol.18, pp.5-8, 2007 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. Synthesis Characterization of Unsaturated Nitrile Compounds and Their Potential Applications

Yörür Göreci Ç., Toraman A., Aydoğan F.

Marmara Sciences Congress, Kocaeli, Turkey, 1 - 03 November 2019, pp.70

II. Kumarin Temelli Floresans Kemosensörler

Kandemir D., Arvas B., Aydoğan F., Erdoğan A., Yolaçan Ç.

31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019, pp.413

III. Yeni Kumarin Türevlerinin Sentezi ve Floresans Özellikleri

Arvas B., Aydoğan F., Yolaçan Ç.

31. Ulusal Kimya Kongresi, İstanbul, Turkey, 10 - 13 September 2019, pp.365

IV. BIOLOGICALLY IMPORTANT NEW CHIRAL COUMARIN DERIVATIVES: SYNTHESIS, CHARACTERIZATION AND INVESTIGATION OF THEIR PROPERTIES

ARVAS B., AYDOĞAN F., YOLAÇAN Ç.

7th Drug Chemistry Conference, Antalya, Turkey, 14 March 2019, vol.1, no.78, pp.1

V. Enantiyoselektif Aldol Reaksiyonu ile Farmasötik Olarak Önemli Araürünlerin Etkin Sentezi

Yolaçan Ç., Aydoğan F.

Uluslararası katılımlı 6. İlaç kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Antalya, Turkey, 22 - 25 March 2018, pp.65

VI. New Chiral Organo catalysts and Their Application in Asymmetric Aldol Reaction

Yolaçan Ç., Aydoğan F.

3rd INTERNATIONAL TURKIC WORLD CONFERENCE ON CHEMICAL SCIENCES AND TECHNOLOGIES (3rd ITWCCST) , Baku, Azerbaijan, 10 - 13 September 2017, pp.181

VII. Farmasötik Amaçlı Hedef Moleküllerin Hazırlanmasında Temel Motifler Olarak beta-Hidroksiketonların Enantiyoselektif Sentezi

ÇİÇEK M., AYDOĞAN F., YOLAÇAN Ç.

Uluslararası Katılımlı 5.İlaç Kimyası Kongresi, 30 March - 02 April 2017

VIII. Synthesis, Characterization and Potential Applications of α , β -Unsaturated Nitriles

Toraman A., Aydoğan F., Yörür Göreci Ç., Kazici M.

28th National Chemistry Congress, Mersin, Turkey, 15 August 2016, pp.153

- IX. **Tetrahydroizokinolin Temelli Asimetrik Organokatalizörlerin Sentezi ve Uygulamaları**
Yılmaz D. G., Aydoğan F., Yolaçan Ç.
27. Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 - 28 August 2015, pp.60
- X. **The Synthesis of Proline-Based Asymmetric Organocatalysts and Their Applications**
Yorulmaz T., Aydoğan F., Yolaçan Ç.
International Conference on New Trends In Chemistry, All In One Conferences, Dubai, United Arab Emirates, 24 - 28 March 2015, pp.1
- XI. **Synthesis of β -Hydroxycarbonyl Compounds”, International Conference on New Trends In Chemistry**
Karaoğlu M., Aydoğan F., Yolaçan Ç.
All In One Conferences, Dubai, United Arab Emirates, 24 - 28 March 2015, pp.1
- XII. **Development of Highly Efficient Organocatalysts for Asymmetric Direct Aldol Reactions**
Yolaçan Ç., Maviş M. E., Aydoğan F.
Blue Danube Symposium on Heterocyclic Chemistry, Olomouc, Czech Republic, 1 - 05 September 2013, pp.1
- XIII. **Design of Organocatalysts for asymmetric direct aldol reactions**
Maviş M. E., Aydoğan F., Yolaçan Ç.
44th World Chemistry Congress, İstanbul, Turkey, 11 - 16 August 2013, pp.751
- XIV. **Asymmetric Aldol Reactions Catalysed By Proline Amide Derivatives**
Aydoğan F., Özkan A., Yolaçan Ç.
Balticum Organicum Syntheticum, International Conference on Organic Synthesis, Tallinn, Estonia, 1 - 04 July 2012, pp.53
- XV. **Investigation of Asymmetric Pyridinium Salts as Catalyst for Direct Aldol Reactions in Water’**
Yolaçan Ç., Maviş M. E., Özkan A., Aydoğan F.
Balticum Organicum Syntheticum, International Conference on Organic Synthesis, Tallinn, Estonia, 1 - 04 July 2012, pp.204
- XVI. **Asymmetric Aldol Reactions Catalysed by Proline Amide Derivatives**
AYDOĞAN F.
International Conference on Organic Synthesis, BOS2012, 01 July 2012
- XVII. **Investigation of Asymmetric Pyridinium Salts as Catalyst for Direct Aldol Reactions in Water**
AYDOĞAN F.
International Conference on Organic Synthesis, BOS2012, 01 July 2012
- XVIII. **Long Chain Dicationic Phase Transfer Catalysts in the Condensation Reactions of Aromatic Aldehydes in Water Under Ultrasonic Effect**
Esen İ., Yolaçan Ç., Aydoğan F.
the 18th International Conference on Organic Synthesis, Bergen, Norway, 1 - 06 August 2010, pp.357
- XIX. **The Investigation of the Catalytic Potential of Mono- and Dicationic Imidazolium N-Heterocyclic Carbenes in the Benzoin Condensation**
Maviş M. E., Yolaçan Ç., Aydoğan F.
the 18th International Conference on Organic Synthesis, Bergen, Norway, 1 - 06 August 2010, pp.358
- XX. **The Synthesis of N-Substituted Pyrrole Derivatives by a New and Effective Method**
Başarır M., Aydoğan F., Demir A. S., Yolaçan Ç.
9th Eurasia Conference on Chemical Sciences, Antalya, Turkey, 9 - 13 September 2006, pp.131
- XXI. **The Synthesis of Biologically Active Bridged Quinazolinone Derivatives**
Aydoğan F., Yolaçan Ç.
XXII. European Colloquium on Heterocyclic Chemistry, Bari, Italy, 2 - 06 September 2006, pp.102
- XXII. **Synthesis of some Thiazolidinopyrazole Derivatives from 4-Thiazolidinones**
Öcal N., Yolaçan Ç., Aydoğan F., Kahveci B.
XXI. European Colloquium on Heterocyclic Chemistry,, Sopron, Hungary, 12 - 15 September 2004, pp.51
- XXIII. **A New Method for Synthesis of Thiazolidino-Fused Compounds by the Wittig Reagent**
Yolaçan Ç., Öcal N., Turgut Z., Aydoğan F.

International Organic Chemistry Meeting, Hatay, Turkey, 25 - 28 March 2002, pp.4

XXIV. Primer Aminlerin Susuz Ortamda Potansiyometrik Tayini

KOCAOBA S., Aydođan F., Afşar H.

20. Ulusal Kimya Kongresi

XXV. Potentiometric investigation of some amines in non aqueous media

KOCAOBA S., Aydođan F., Afşar H.

5th Aegean Analytical Chemistry Days

XXVI. Potentiometric titration of some diamino compounds with hydrochloric acid in toluene solvent

KOCAOBA S., Aydođan F., Afşar H.

5th Aegean Analytical Chemistry Days

Supported Projects

YOLAÇAN Ç., Akyıldız B. A., ERDOĐMUŞ A., AYDOĐAN F., ARVAS B., Project Supported by Higher Education Institutions, Biyolojik Aktif Olabilecek Yeni Kiral Kumarin Türevlerinin Sentezi Kolorimetrik ve Fluoresans Sensör Özelliklerinin İncelenmesi, 2017 - 2020

AYDOĐAN F., Toraman A., Project Supported by Higher Education Institutions, Doymamış Nitril Bileşiklerinin Sentezi Karakterizasyonu ve Potansiyel Uygulamaları, 2017 - 2018

AYDOĐAN F., Project Supported by Higher Education Institutions, ORGANİK SENTEZDE YEŞİL YÖNTEMLER, 2016 - 2017

AYDOĐAN F., Project Supported by Higher Education Institutions, Organokatalizör Olarak Kullanılabilecek Diamid Yapılı Bileşiklerin Sentezi, 2015 - 2017

AYDOĐAN F., Project Supported by Higher Education Institutions, Asimetrik Strecker Reaksiyonları İçin Yeni Katalizörlerin Geliştirilmesi, 2012 - 2016

AYDOĐAN F., Project Supported by Higher Education Institutions, Çeşitli mono ve dikatyonik amonyum tuzlarının çeşitli organik reaksiyonlarda faz transfer ve umpolung katalizörü olarak etkinliğinin araştırılması, 2008 - 2010

Yolaçan Ç., Aydođan F., Project Supported by Higher Education Institutions, Çeşitli mono ve dikatyonik amonyum tuzlarının çeşitli organik reaksiyonlarda faz transfer katalizörü olarak etkinliğinin araştırılması, 2008 - 2010

AYDOĐAN F., Project Supported by Higher Education Institutions, 4-Kinazolinon türevlerinin yeni bir yolla sentezi ve reaksiyonları, 2006 - 2008

Aydođan F., Turhan K., Gören N., Turgut Z., Project Supported by Higher Education Institutions, Bazı Achillea Türlerinin Kimyasal Yapılarının Araştırılması, 2004 - 2007

AYDOĐAN F., Project Supported by Higher Education Institutions, Domino heck reaksiyonları ile gaba türevlerinin sentezi, 2004 - 2006

AYDOĐAN F., TUBITAK Project, Homokiral Pirel Türevlerinin Birch İndirgenmesi, 2003 - 2006

Metrics

Publication: 65

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Citation (Scopus): 378

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