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Kişisel Bilgiler

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Biyografi

Nurullah Saraçoğlu, 1967 yılında Erzurum'da doğdu. Lisans ve Yüksek Lisans derecelerini Atatürk Üniversitesi'nde Kimya Bölümünden sırasıyla 1988 ve 1991 yıllarında aldı. Doktora derecesini ise 1996 yılında Prof. Dr. Metin Balcı'nın danışmanlığında yine aynı üniversitede aldı. Şubat 2006'da Atatürk Üniversitesi Fen Fakültesi Kimya Bölümünde Profesör olarak atandı. 2009-2011 yılları arasında 3 yıl Kimya Bölümü Başkanlığı, 2014-2015 yılları arasında 1 yıl Bingöl Üniversitesi'nde Rektör Yardımcılığı ve 2018-2020 yılları arasında ise 3 yıl Organik Kimya Anabilim Dalı Başkanlığı görevlerini yürütmüştür.

Araştırma alanları; sentetik ve mekanistik organik kimya, geçiş metali katalizli C-H bağ aktivasyonu/işlevselleştirme kimyası ve katalitik dönüşümleri içermektedir. Genel olarak, potansiyel organik elektronik malzemeler ile biyoaktif bileşikler için yeni sentetik metodolojilerin geliştirilmesi hedeflenmektedir. Çalışmaları, esas olarak indol kimyasına odaklıdır. Çok sayıda proje, tez ve bilimsel makalenin temelini oluşturan bu çalışmalar ile şimdiye kadar sentetik ve mekanistik açıdan indollerin yeni potansiyelleri ortaya çıkarılmıştır.

Eğitim Bilgileri

Doktora, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Türkiye 1991 - 1996

Yüksek Lisans, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Türkiye 1989 - 1991

Lisans, Atatürk Üniversitesi, Fen Fakültesi, Kimya, Türkiye 1984 - 1988

Yaptığı Tezler

Doktora, Piramitleşmiş çift bağ içeren bileşiklerin ve diazo-endoperoksitlerin sentezi, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, 1996

Yüksek Lisans, Nafto[b]siklopropenin katılma reaksiyonları, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, 1991

Araştırma Alanları

Kimya, Alisiklik Bileşikler Kimyası, Aromatik Bileşikler Kimyası, Asimetrik Sentez Kimyası, Doğal Ürünler Kimyası,

Heterosiklik Bileşikler Kimyası, Hidrokarbon Kimyası, Karbanyon Kimyası, Organik Bileşiklerin Fotokimyası, Organik Reaksiyon Mekanizmaları, Organik Spektroskopisi, Organometalik Bileşikler, Serbest Radikaller, Temel Bilimler

Akademik Unvanlar / Görevler

Prof. Dr., Ankara Üniversitesi, Biyoteknoloji Enstitüsü, Biyoteknoloji Anabilim Dalı, 2024 - Devam Ediyor

Prof. Dr., Atatürk Üniversitesi, Fen Fakültesi, 2006 - 2024

Doç. Dr., Atatürk Üniversitesi, Fen Fakültesi, 2000 - 2006

Araştırma Görevlisi, Van Yüzüncü Yıl Üniversitesi, Fen Fakültesi, Kimya Bölümü, 1989 - 2006

Dr. Öğr. Üyesi, Atatürk Üniversitesi, Fen Fakültesi, 1997 - 2000

Dr. Öğr. Üyesi, Van Yüzüncü Yıl Üniversitesi, 1996 - 1997

Akademik İdari Deneyim

Anabilim/Bilim Dalı Başkanı, Atatürk Üniversitesi, Fen Fakültesi, Kimya, 2018 - 2020

Rektör Yardımcısı, Bingöl Üniversitesi, 2014 - 2015

Bölüm Başkanı, Atatürk Üniversitesi, Fen Fakültesi, Kimya, 2009 - 2011

SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayınlanan Makaleler

- I. **C6-H Bond Functionalization of Indoles: A New Gate**
Taskesenligil Y., SARAÇOĞLU N.
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- II. **Influence of spacer and donor groups as tetraphenylethylene or triphenylamine in asymmetric zinc phthalocyanine dyes for dye-sensitized solar cells**
Celik G. G., Tunc G., Lafzi F., SARAÇOĞLU N., Arslan B. S., Nebioglu M., Sisman I., Gurek A. G.
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- III. **A Ritter-Type Route to Diarylmethane Amides from *para*-Quinone Methides**
AKYILDIZ V., SARAÇOĞLU N.
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- IV. **Design, synthesis, and biological evaluation of indole-modified tamoxifen relatives as potent anticancer agents**
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- V. **Solvent-Mediated Tunable Regiodivergent C6-and N1-Alkylations of 2,3-Disubstituted Indoles with *p*-Quinone Methides**
Adris D., TAŞKESEN LİGİL Y., AKYILDIZ V., EŞSİZ S., SARAÇOĞLU N.
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- VI. **Directed C-H Functionalization of C3-Aldehyde, Ketone, and Acid/Ester-Substituted Free (NH) Indoles with Iodoarenes *via* a Palladium Catalyst System**
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- VII. **Four-Winged Propeller-Shaped Indole-Modified and Indole- Substituted Tetraphenylethylenes: Greenish-Blue Emitters with Aggregation-Induced Emission Features for Conventional Organic Light-Emitting Diodes**
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- VIII. **Triphenylamine substituted copper and zinc phthalocyanines as alternative hole-transporting**

materials for solution-processed perovskite solar cells

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- IX. **Functionalization at Nonperipheral Positions of Triazatruxene: Modular Construction of 1,6,11-Triarylated-Triazatruxenes for Potentially Organic Electronics and Optoelectronics**
Aslan M., TAŞKESEN LİGİL Y., Piravadili S., SARAÇOĞLU N.
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- X. **Solvent-controlled regioselective C(5)-H/N(1)-H bond alkylations of indolines and C(6)-H bond alkylations of 1,2,3,4-tetrahydroquinolines with *para*-quinone methides**
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ORGANIC & BIOMOLECULAR CHEMISTRY, cilt.20, sa.17, ss.3570-3588, 2022 (SCI-Expanded)
- XI. **Design, synthesis, antimicrobial evaluation, and molecular docking of novel chiral urea/thiourea derivatives bearing indole, benzimidazole, and benzothiazole scaffolds**
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- XII. **The impact of metal coordination on the assembly of bis(indolyl)methane-naphthalene-diimide amphiphiles**
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- XIII. **Novel triphenylamine-connected indolinium fluorescence sensor for detection of the cyanide anion and DFT calculations**
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- XIV. **Light-controlled self-assembly of a dithienylethene bolaamphiphile in water**
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- XV. **Design and synthesis of novel indoline-(thio)urea hybrids**
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- XVI. **Palladium-catalyzed regioselective C2-arylation of 5-aminoindole**
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- XVII. **Protocols for the Syntheses of 2,2'-Bis(indolyl)arylmethanes, 2-Benzylated Indoles, and 5,7-Dihydroindolo[2,3-*b*]carbazoles**
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- XVIII. **Bis(indolyl)methane substituted tetraphenylethylene derivatives as AIE active materials**
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- XIX. **Access to C5-Alkylated Indolines/Indoles via Michael-Type Friedel-Crafts Alkylation Using Aryl-Nitroolefins**
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- XX. **Synthesis of Pyridazine and Pyrrole Analogues of 2-Aminotetralin as Potential Dopaminergics**
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- XXI. **One hundred years of benzotropone chemistry**
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- XXIII. **Synthesis of Novel *meso*-Indole- and *meso*-Triazatruxene-BODIPY Dyes**
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- XXIV. **Bismuth nitrate-promoted disproportionative condensation of indoles with cyclohexanone: a new-type azafulvenium reactivity of indole**
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- XXV. **Access to polysubstituted naphthalenes and anthracenes via a retro-Diels-Alder reaction**
Akin E. T., Erdogan M., DAŞTAN A., SARAÇOĞLU N.
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- XXVI. **Condensation of Indoline with Some 1,2-and 1,3-Diketones**
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JOURNAL OF HETEROCYCLIC CHEMISTRY, cilt.53, sa.6, ss.2096-2101, 2016 (SCI-Expanded)
- XXVII. **Synthesis of Some Novel Norbornene-Fused Pyridazines as Potent Inhibitors of Carbonic Anhydrase and Acetylcholinesterase**
Kocak R., Akin E. T., Kalin P., Talaz O., SARAÇOĞLU N., DAŞTAN A., GÜLÇİN İ., Durdagi S.
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- XXVIII. **A facile one-pot method to synthesise 2-alkylated indole and 2,2'-bis(indolyl)methane derivatives using ketones as electrophiles and their anion sensing ability**
Bayindir S., SARAÇOĞLU N.
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- XXIX. **Redox Amination Scope of Benzylic Ketones with Indoline: Synthetic and Mechanistic Insights**
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- XXX. **Synthesis of *N*-Alkylated Indolines and Indoles from Indoline and Aliphatic Ketones**
Bayindir S., Erdogan E., KILIÇ H., AYDIN Ö., SARAÇOĞLU N.
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- XXXI. **4,7-Dihydroindole: A Synthone for the Preparations of 2-Substituted Indoles**
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CURRENT ORGANIC SYNTHESIS, cilt.11, sa.2, ss.167-181, 2014 (SCI-Expanded)
- XXXII. **Synthesis of highly *N*-substituted indole library via conjugate additions of indoline and their synthetic tool potentials**
KILIÇ H., Bayindir S., Erdogan E., SARAÇOĞLU N.
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- XXXIII. **α -Carbonic anhydrases are sulfatases with cyclic diol monosulfate esters**
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- XXXIV. **An Efficient Synthesis of New Aza-Substituted Indoles via Michael-Type Addition**
Bayindir S., Erdogan E., KILIÇ H., SARAÇOĞLU N.
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- XXXV. **New 3-vinylation products of indole and investigation of its Diels-Alder reactivity: synthesis of unusual Morita-Baylis-Hillman-type products**
Sadak A. E., Arslan T., Celebioglu N., SARAÇOĞLU N.
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- XXXVI. **Synthesis of a new series of 2-vinylindoles and their cycloaddition reactivity**
Arslan T., Sadak A. E., SARAÇOĞLU N.
TETRAHEDRON, cilt.66, sa.16, ss.2936-2939, 2010 (SCI-Expanded)
- XXXVII. **A study on the synthesis of structural analogs of bis-indole alkaloid caulerpin: a step-by-step synthesis of a cyclic indole-tetramer**
Talaz O., SARAÇOĞLU N.

- TETRAHEDRON, cilt.66, sa.10, ss.1902-1910, 2010 (SCI-Expanded)
- XXXVIII. **Antioxidant activity of 5,10-dihydroindeno[1,2-*b*]indoles containing substituents on dihydroindeno part**
Talaz O., GÜLÇİN İ., GÖKSU S., SARAÇOĞLU N.
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- XXXIX. **Novel and versatile protocol for the preparation of functionalized benzocyclotrimers**
Dalkilic E., Gueney M., DAŞTAN A., SARAÇOĞLU N., De Lucchi O., Fabris F.
TETRAHEDRON LETTERS, cilt.50, sa.17, ss.1989-1991, 2009 (SCI-Expanded)
- XL. **Ring opening of epoxides with NaHSO₄: isolation of β -hydroxy sulfate esters and an effective synthesis for *trans*-diols**
Cavdar H., SARAÇOĞLU N.
TETRAHEDRON, cilt.65, sa.5, ss.985-989, 2009 (SCI-Expanded)
- XLI. **Synthesis of new β -hydroxy nitrate esters as potential glycomimetics or vasodilators**
Cavdar H., SARAÇOĞLU N.
EUROPEAN JOURNAL OF ORGANIC CHEMISTRY, sa.27, ss.4615-4621, 2008 (SCI-Expanded)
- XLII. **Synthesis of cyclopropane-annulated conduritol derivatives:: norcaran-2,3,4,5-tetraols**
ŞENGÜL M., Menzek A., ŞAHİN E., Arik M., SARAÇOĞLU N.
TETRAHEDRON, cilt.64, sa.30-31, ss.7289-7294, 2008 (SCI-Expanded)
- XLIII. **Recent advances and applications in 1,2,4,5-tetrazine chemistry**
SARAÇOĞLU N.
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- XLIV. **Functionalization of Indole and Pyrrole Cores via Michael-Type Additions**
SARAÇOĞLU N.
BIOACTIVE HETEROCYCLES V, ss.1-61, 2007 (SCI-Expanded)
- XLV. **Synthesis of new 2-vinylation products of indole via a michael-type addition reaction with dimethyl acetylenedicarboxylate and their Diels-Alder reactivity as precursors of new carbazoles**
Cavdar H., SARAÇOĞLU N.
JOURNAL OF ORGANIC CHEMISTRY, cilt.71, sa.20, ss.7793-7799, 2006 (SCI-Expanded)
- XLVI. **Synthesis and structure of cyclopropano-annelated homosesquinorbornene derivatives containing pyramidalized double bonds: Evidence for the sterical effect of a cyclopropyl. group on the degree of C=C double-bond pyramidalization**
SARAÇOĞLU N., Talaz O., Azizoglu A., Watson W., Balci M.
JOURNAL OF ORGANIC CHEMISTRY, cilt.70, sa.14, ss.5403-5408, 2005 (SCI-Expanded)
- XLVII. **Synthesis of cycloheptane-1,2,3,4-tetraols as cyclitol mimetics**
Senguel M. E., Menzek A., SARAÇOĞLU N.
JOURNAL OF CHEMICAL RESEARCH, sa.6, ss.382-384, 2005 (SCI-Expanded)
- XLVIII. **A new approach for the synthesis of 2-substituted indole derivatives via Michael type adducts**
Çavdar H., SARAÇOĞLU N.
TETRAHEDRON, cilt.61, sa.9, ss.2401-2405, 2005 (SCI-Expanded)
- XLIX. **Synthesis of the possible carcinogenic dihydrodiol and diol epoxide of phthalazine**
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- L. **Synthesis and chemistry of unusual bicyclic endoperoxides containing the pyridazine ring**
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- LI. **Unusual fragmentation of fulvene endoperoxides with phenyliodosyl bis(trifluoroacetate) (PIFA)**
Özer G., SARAÇOĞLU N., Balci M.
JOURNAL OF HETEROCYCLIC CHEMISTRY, cilt.40, sa.3, ss.529-533, 2003 (SCI-Expanded)
- LII. **Bile acid derivatives of 5-amino-1,3,4-thiadiazole-2-sulfonamide as new carbonic anhydrase inhibitors:: Synthesis and investigation of inhibition effects**
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- LIII. **A new method for the synthesis of stipitatic acid isomers:: Photooxygenation of ethyl 6*H*-cyclohepta[*d*][1,3]dioxole-6-carboxylate**
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- LIV. **Synthesis of a new system containing a pyramidalized double bond:: Lack of reactivity of a strongly protected pyramidalized double bond**
SARAÇOĞLU N., Balci M.
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- LV. **Synthesis of new substituted dihydroheptalene derivatives:: SiO₂- and base-catalyzed rearrangement of dimethyl *trans*-3,8-dihydroheptalene-3,8-dicarboxylate**
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- LVI. **Synthesis and structure of systems containing pyramidalized and strained double bond:: An investigation on the cycloaddition reactions of *cis*- and *trans*-3,8-dicarbomethoxy-3,8-dihydroheptalene**
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- LVII. **Trapping of unsaturated fulvene endoperoxides with dimethyl 1,2,4,5-tetrazine-3,6-dicarboxylate:: A new synthesis of alkylidene- and arylidenemalonaldehydes**
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- LVIII. **Pyramidalized double bonds containing endoperoxide linkages:: Photooxygenation of dimethyl *cis*-3,8-dihydroheptalene-3,8-dicarboxylate**
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- LIX. **Bromination of benzhomobarrelene derivatives .10. High temperature bromination**
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- LX. **Unusual bicyclic endoperoxides containing pyridazine ring: Reaction of unsaturated bicyclic endoperoxides with dimethyl 1,2,4,5-tetrazine-3,6-dicarboxylate**
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- LXI. **AN INVESTIGATION ON THE REACTIONS OF NAPHTHO[B]CYCLOPROPENE**
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- LXII. **SYNTHESIS AND STRUCTURE OF NEW SYSTEMS CONTAINING PYRAMIDALIZED DOUBLE-BONDS**
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- LXIII. **SYNTHESIS OF A NEW SYSTEM CONTAINING A PYRAMIDALIZED DOUBLE-BOND - CIS-3,8-DICARBOMETHOXY-3,8-DIHYDROHEPTALENE AND ITS REACTION WITH BENZYNE**
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- LXIV. **THE CHEMISTRY OF 1H-CYCLOPROPA[B]NAPHTHALENE**
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- I. **Hydrogen Bond-assisted C5-Alkylation of N-Protected Indoline with Aziridines**

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II. **Catalyst- and Additive-free, Regioselective C6-H Alkylation of 1,2,3,4-Tetrahydroquinolines with Aziridines**

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XIII. **Indole-Based Aggregation-Induced Emissive Luminogens**
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Metrikler

Yayın: 131

Atıf (WoS): 1339

Atif (Scopus): 1345

H-İndeks (WoS): 20

H-İndeks (Scopus): 19