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International Researcher IDs

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Education

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 2014 - 2019

Postgraduate, Ataturk University, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı, Turkey 2011 - 2014

Undergraduate, Urmia University, Fen, kimya, Iran 2004 - 2009

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, İndol-temelli potansiyel biyoaktif ve elektrolüminesans yapıların dizayn ve sentezi, Ataturk University, Fen Fakültesi, Kimya, 2019

Research Areas

Sensors, Organic Chemistry, Chemistry of Heterocyclic Compounds

Academic Positions

Assistant Professor, Ataturk University, Fen Fakültesi, Kimya, 2024 - Continues

Journal articles indexed in SCI, SSCI, and AHCI

- I. Unusual phenolphthalein-based fluorescent sensors for medium-selective multi-ions sensing in real samples
Hussein A. S., LAFZİ F., Bayindir S., Toprak M.
Inorganica Chimica Acta, vol.581, 2025 (SCI-Expanded)
- II. Revisiting Reaction Mechanism of Regioselective Disulfide-Catalyzed Photocatalytic Aerobic

- Oxidative Cleavage of 1-Arylbutadienes: A Computational Study**
Fistikçi M., Lafzi F., Eşsiz S.
ChemPhysChem, 2025 (SCI-Expanded)
- III. Dual-Function Bis-Tetraphenylethenes for Selective Metal Ion and Glutathione Detection and Current Transformer Application**
Bayindir S., Akar S., Hussein A. S., LAFZİ F., Orak İ.
ChemistryOpen, 2025 (SCI-Expanded)
- IV. A Novel Rhodamine-Phenolphthalein Architecture for Selective Mercury Ion Detection in Aqueous Media.**
Hussein A. S., Lafzi F., Bayindir S., Kilic H., Toprak M.
ChemPlusChem, vol.89, no.5, 2024 (SCI-Expanded)
- V. Rapid synthesis of azoindolizine derivatives via aryl diazonium salts**
LAFZİ F.
TURKISH JOURNAL OF CHEMISTRY, no.3, 2024 (SCI-Expanded)
- VI. Influence of spacer and donor groups as tetraphenylethylene or triphenylamine in asymmetric zinc phthalocyanine dyes for dye-sensitized solar cells**
Gümüşgöz Çelik G., Tunç G., Lafzi F., SARAÇOĞLU N., Seçkin Arslan B., Nebioğlu M., Şişman İ., Gül Gürek A.
Journal of Photochemistry and Photobiology A: Chemistry, vol.444, 2023 (SCI-Expanded)
- VII. The thioacetal-modified phenothiazine as a novel colorimetric and fluorescent chemosensor for mercury in aqueous media**
Lafzi F., Saleh Hussein A., KILIÇ H., Bayindir S.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.444, 2023 (SCI-Expanded)
- VIII. Regioselective C3-H Alkylation of Imidazopyridines with Donor-Acceptor Cyclopropanes**
Dalkılıc O., Turbedaroğlu O., Lafzi F., Kilic H.
JOURNAL OF ORGANIC CHEMISTRY, vol.88, no.16, pp.11834-11846, 2023 (SCI-Expanded)
- IX. The switchable fluorescent detection of mercury, copper, and iodine in real water samples using bola-amphiphilic-tetraphenylethene**
Bayindir S., Hussein A. S., Lafzi F., Toprak M.
Journal of Molecular Liquids, vol.382, 2023 (SCI-Expanded)
- X. Synthesis of Bis-tetraphenylethene as a Novel Turn-On Selective Zinc Sensor**
Hussein A. S., Lafzi F., KILIÇ H., Bayindir S.
ACS OMEGA, vol.8, no.28, pp.25432-25440, 2023 (SCI-Expanded)
- XI. Acetic Acid-Catalyzed 1,6-Addition of Indolizine to para-Quinone Methides**
Lafzi F.
Asian Journal of Organic Chemistry, vol.12, no.7, 2023 (SCI-Expanded)
- XII. An AIE active fluorescence sensor for measuring Fe³⁺ in aqueous media and an iron deficiency anemia drug**
Dalkılıc O., Bozkurt E., Lafzi F., Kılıç H.
ORGANIC & BIOMOLECULAR CHEMISTRY, vol.21, no.26, pp.5406-5412, 2023 (SCI-Expanded)
- XIII. Computational Study on Chemoselective Difunctionalization of Unactivated Alkenes with Radical-mediated Remote Functional Group Migration**
Lafzi F., Eşsiz S.
ChemPhysChem, vol.24, no.9, 2023 (SCI-Expanded)
- XIV. The selective turn-on recognition of fluoride ions using 5-aryl-rhodanines: Colorimetric & fluorescent detection**
Saleh Hussein A., Lafzi F., Bayindir S., Toprak M.
Journal of Photochemistry and Photobiology A: Chemistry, vol.438, 2023 (SCI-Expanded)
- XV. Four-Winged Propeller-Shaped Indole-Modified and Indole- Substituted Tetraphenylethylenes: Greenish-Blue Emitters with Aggregation-Induced Emission Features for Conventional Organic Light-Emitting Diodes**
Lafzi F., Taşkesenligil Y., Canımkurbeý B., Piravadili S., Kılıç H., Saracoğlu N.

- ACS OMEGA, vol.7, no.48, pp.44322-44337, 2022 (SCI-Expanded)
- XVI. **Triphenylamine substituted copper and zinc phthalocyanines as alternative hole-transporting materials for solution-processed perovskite solar cells**
Celik G. G., ŞAHİN A. N., Lafzi F., SARAÇOĞLU N., ALTINDAL A., GÜREK A. G., ATILLA D.
DALTON TRANSACTIONS, vol.51, no.24, pp.9385-9396, 2022 (SCI-Expanded)
- XVII. **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**
AKYILDIZ V., Lafzi F., KILIÇ H., SARAÇOĞLU N.
ORGANIC & BIOMOLECULAR CHEMISTRY, vol.20, no.17, pp.3570-3588, 2022 (SCI-Expanded)
- XVIII. **Site-selective C5-H and N-H alkylation of unprotected 8-aminoquinolines**
Turbedaroglu O., Lafzi F., Kilic H.
CHEMICAL COMMUNICATIONS, vol.58, no.31, pp.4893-4896, 2022 (SCI-Expanded)
- XIX. **Magnetically recoverable nickel-palladium alloy nanocatalysts for direct C-H arylation reactions**
ZOZİK Y., SEVİM M., Lafzi F., KILIÇ H., Metin O.
DALTON TRANSACTIONS, vol.50, no.47, pp.17515-17523, 2021 (SCI-Expanded)
- XX. **Design, synthesis, antimicrobial evaluation, and molecular docking of novel chiral urea/thiourea derivatives bearing indole, benzimidazole, and benzothiazole scaffolds**
Lafzi F., Kılıç D., Yıldız M., Saracoğlu N.
JOURNAL OF MOLECULAR STRUCTURE, vol.1241, 2021 (SCI-Expanded)
- XXI. **Water-ratio directed selective turn-on fluorescence detection of copper and mercury in acetonitrile**
TOPRAK M., Lafzi F., BAYINDIR S.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.418, 2021 (SCI-Expanded)
- XXII. **Metal- and Additive-Free C3-Functionalization of Imidazo[1,2-a]pyridines with para-Quinone Methides**
Lafzi F., KILIÇ H.
ASIAN JOURNAL OF ORGANIC CHEMISTRY, vol.10, no.7, pp.1814-1821, 2021 (SCI-Expanded)
- XXIII. **The synthesis, current transformer mechanism and structural properties of novel rhodanine-based Al/Bis(Rh)-Ph/p-Si and Al/Bis(Rh)-TPE/p-Si heterojunctions**
Karabulut A., Lafzi F., BAYINDIR S., SEVGİLİ Ö., Orak I.
JOURNAL OF MOLECULAR STRUCTURE, vol.1231, 2021 (SCI-Expanded)
- XXIV. **Novel triphenylamine-connected indolinium fluorescence sensor for detection of the cyanide anion and DFT calculations**
Dalkilic O., Lafzi F., Kılıç H., Saracoğlu N.
TETRAHEDRON LETTERS, vol.61, no.37, 2020 (SCI-Expanded)
- XXV. **Palladium-catalyzed regioselective C2-arylation of 5-aminoindole**
TAŞKESENLİĞİL Y., LAFZİ F., KILIÇ H., SARAÇOĞLU N.
Journal of Heterocyclic Chemistry, vol.56, no.12, pp.3289-3296, 2019 (SCI-Expanded)
- XXVI. **Design and synthesis of novel indoline-(thio)urea hybrids**
LAFZİ F., KILIÇ H., Tanriver G., Avci O. N., Catak S., SARAÇOĞLU N.
SYNTHETIC COMMUNICATIONS, vol.49, no.24, pp.3510-3527, 2019 (SCI-Expanded)
- XXVII. **Protocols for the Syntheses of 2,2 '-Bis(indolyl)arylmethanes, 2-Benzylated Indoles, and 5,7-Dihydroindolo[2,3-b]carbazoles**
Lafzi F., Kılıç H., Saracoğlu N.
JOURNAL OF ORGANIC CHEMISTRY, vol.84, no.18, pp.12120-12130, 2019 (SCI-Expanded)
- XXVIII. **The synthesis of new bola-amphiphile TPEs and the comparison of current transformer mechanism and structural properties for Al/Bis(HCTA)-TPE/p-Si and Al/Bis(HCOA)-TPE/p-Si heterojunctions**
SEVGİLİ Ö., Lafzi F., KARABULUT A., Orak I., BAYINDIR S.
COMPOSITES PART B-ENGINEERING, vol.172, pp.226-233, 2019 (SCI-Expanded)
- XXIX. **A simple oxindole-based colorimetric HSO₄⁻ sensor: Naked-eye detection and spectroscopic analysis**
BAYINDIR S., Lafzi F.
JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY A-CHEMISTRY, vol.376, pp.146-154, 2019 (SCI-Expanded)

- XXX. **Bis(indolyl)methane substituted tetraphenylethylene derivatives as AIE active materials**
Lafzi F., Kılıç H., Ertugrul B., Arik M., Saracoğlu N.
JOURNAL OF LUMINESCENCE, vol.208, pp.174-182, 2019 (SCI-Expanded)
- XXXI. **Access to C5-Alkylated Indolines/Indoles via Michael-Type Friedel-Crafts Alkylation Using Aryl-Nitroolefins**
ERTUGRUL B., KILIÇ H., LAFZI F., SARAÇOĞLU N.
JOURNAL OF ORGANIC CHEMISTRY, no.16, pp.9018-9038, 2018 (SCI-Expanded)

Papers Presented at Peer-Reviewed Scientific Conferences

- I. **Regioselective Mechanochemical C5-H Alkylation of Coumaran and C6-H Alkylation of Chromane**
KILIÇ H., Atis S., LAFZİ F.
19th Asian Chemical Congress, 9 - 14 July 2023
- II. **Design and Synthesis of Phenolphthalein-Based Sensor Candidates and Investigation of Their Sensor Properties**
Hussein A. S., LAFZİ F., BAYINDIR S., KILIÇ H., TOPRAK M.
19th Asian Chemical Congress, 9 - 14 July 2023
- III. **Triphenylamine substituted copper and zinc phthalocyanines as alternative hole-transporting materials for solution-processed perovskite solar cells**
GÜMÜŞGÖZ ÇELİK G., ŞAHİN A. N., LAFZİ F., SARAÇOĞLU N., ALTINDAL A., GÜREK A. G., ATILLA D.
International Conference on Porphyrins and Phthalocyanines (ICPP-12), Madrid, Spain, 10 July 2022, pp.279, (Full Text)
- IV. **Regioselective and Chemoselective Alkylation of 8-Aminoquinolines using para-Quinone Methides**
Turbedaroglu O., LAFZİ F., KILIÇ H.
10th Drug Chemistry Conference, 10 - 14 March 2022
- V. **Synthesis of C6-Alkylated Tetrahydroquinolines and Quinolines using Donor-Acceptor Cyclopropanes**
Taşkin H., Turbedaroglu O., LAFZİ F., KILIÇ H.
10th Drug Chemistry Conference, 10 - 13 March 2022
- VI. **C3-Alkylation of Imidazo[1,2-a]pyridines with Donor-Acceptor Cyclopropanes**
Turbedaroglu O., Dalkılıç O., LAFZİ F., KILIÇ H.
9th Drug Chemistry Conference, 8 - 11 April 2021
- VII. **Indole-Based Aggregation-Induced Emissive Luminogens**
Lafzi F., Taşkesenligil Y., KILIÇ H., SARAÇOĞLU N.
ISTANBUL INTERNATIONAL ORGANIC ELECTRONICSYMPORIUM, 2 - 04 September 2019, (Full Text)
- VIII. **Antimicrobial Screen, Molecular Modelling and ADME Prediction of Some New Urea/Thiourea Derivatives**
KILIÇ D., Yıldız M., LAFZİ F., KILIÇ H., SARAÇOĞLU N.
1st Eurasia Biochemical Approaches Technologies (Ebat) Congress, 27 - 30 October 2018
- IX. **Synthesis and Photophysical Properties of Triphenylvinyl Substituted Indoles**
Taskesenligil Y., LAFZİ F., KILIÇ H., Ertuğrul B., SARAÇOĞLU N.
4th Organic Chemistry Congress, 4 - 08 October 2018
- X. **Synthesis of Indoles Analogues of Tetraphenylethylene as a Potential AIE-Luminogen**
LAFZİ F., Taskesenligil Y., KILIÇ H., Ertuğrul B., SARAÇOĞLU N.
4th Organic Chemistry Congress, 4 - 08 October 2018
- XI. **Pd(II)-Catalyzed C-H Arylation of 5-Aminoindole**
Taskesenligil Y., LAFZİ F., KILIÇ H., SARAÇOĞLU N.
6. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, 22 - 25 March 2018
- XII. **Synthesis of Novel Bisindolylmethane-Tetraphenylethylene Hybrids**
LAFZİ F., Ertuğrul B., KILIÇ H., SARAÇOĞLU N.
6. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, 22 - 25 March 2018

- XIII. **C5-Alkillenmiş İndolin ve İndol Türevlerinin Selektif Sentezi**
Ertuğrul B., KILIÇ H., LAFZİ F., SARAÇOĞLU N.
29. Ulusal Kimya Kongresi, 10 - 14 October 2017
- XIV. **(Thio)urea Derivatives Enhance Wound Closure by Increasing CellProliferation: Synthesis and In Vitro Evaluation**
KILIÇ D., LAFZİ F., KILIÇ H., SARAÇOĞLU N.
3 rd International Multidisciplinary Symposium on Drug Research and Development – DRD, 5 - 07 October 2017
- XV. **Yeni Silodosin Ara Ürünlerinin Sentezi**
Ertuğrul B., LAFZİ F., KILIÇ H., SARAÇOĞLU N.
5. İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretime ve Standardizasyonu Kongresi, 30 March - 02 April 2017
- XVI. **Novel Synthesis of 2 2 Bis Indolyl methane derivatives and Investigation of Their Anion Sensor Properties**
LAFZİ F., KILIÇ H., SARAÇOĞLU N.
2 nd Anatolian Conference on synthetic Organic Chemistry, 21 - 24 March 2016
- XVII. **The straightforward synthesis of C-5-substituted indolines/indoles and the preparation of new silodosin intermediates**
Ertuğrul B., KILIÇ H., LAFZİ F., SARAÇOĞLU N.
Trans Mediterranean Colloquium on Heterocyclic Chemistry (TRAMECH VIII), 11 - 15 November 2015
- XVIII. **A Regioselective Approach for Functionalization of Indolines/Indoles at the 5-Position**
KILIÇ H., Ertuğrul B., LAFZİ F., SARAÇOĞLU N.
ITWCCST: 1st International Turkic World Conference on Chemical Sciences and Technologies, 27 October - 01 November 2015
- XIX. **Design and Synthesis of Novel Indole/Indoline-Based Chiral (Thio)urea Derivatives and Their Application in Asymmetric Conjugate Addition**
LAFZİ F., KILIÇ H., SARAÇOĞLU N.
13th Ibn Sina International Conference on Pure and Applied Heterocyclic Chemistry, 14 - 17 February 2015
- XX. **Benzimidazol ve Benzotiyazol Temelli Üre/Tiyoüre Türevlerinin Sentezi ve Asimetrik Konjuge Katılmalarında Organik Katalizör Aktivitelerinin İncelenmesi**
LAFZİ F., KILIÇ H., SARAÇOĞLU N.
2. Ulusal Organik Kimya Kongresi, 24 - 26 September 2014
- XXI. **Yeni İndolin-İndol Esaslı Organokatalizörler ve Enantiyoselektif Michael Katılma Reaksiyonunda Onların Uygulamaları**
LAFZİ F., KILIÇ H., SARAÇOĞLU N.
2. Ulusal Organik Kimya Kongresi, 24 - 26 September 2014
- XXII. **İndol ve İndolin Temelli Kiral Üre/Tiyoüre Türevlerinin Sentezi ve Asimetrik Konjuge Katılmalarında Organik Katalizör Aktivitelerinin İncelenmesi**
LAFZİ F., KILIÇ H., SARAÇOĞLU N.
5. Ulusal Kataliz Kongresi, 23 - 26 April 2014

Funded Projects

Lafzi F., Kılıç H., TUBITAK Project, Annulation Reaction of Azadiene and ortho-Quinonmetides with Zwitterionic structures, 2023 - 2026

Lafzi F., TUBITAK Project, İndolizin Türevlerinin Fotoredoks Katalizli C-H Arilasyonu, 2022 - 2024

Metrics

Publication: 53

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