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Education Information

Doctorate, Yildiz Technical University, Faculty Of Arts & Science, Department Of Chemistry, Turkey 2018 - 2024

Postgraduate, Yildiz Technical University, Fen Edebiyat Fakültesi, Kimya/Organik Kimya, Turkey 2016 - 2018

Undergraduate, Yildiz Technical University, Fen Edebiyat Fakültesi, Kimya, Turkey 2010 - 2015

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Education Management and Planning, PEDAGOJİK FORMASYON, YILDIZ TEKNİK ÜNİVERSİTESİ, 2015

Dissertations

Postgraduate, FARMAKOLOJİK AÇIDAN AKTİF OLABİLECEK YENİ ARİLPİPERAZİN SUBSTİTUE BİSİNDOLİLMETANLARIN SENTEZİ , Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Kimya/Organik Kimya, 2018

Research Areas

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. Adsorption and desorption of hydroxychloroquine onto sulphur doped graphene powders as a potential drug for COVID-19: physicochemical investigation, surface chemistry and in vitro cytotoxicity evaluation**
Acar T., ARVAS M. B., ARVAS B., Ucar B., ŞAHİN Y.
Adsorption, vol.30, no.6, pp.1377-1393, 2024 (SCI-Expanded)
- II. Synthesis of novel coumarin-triazole hybrids and first evaluation of the 4-phenyl substituted hybrid loaded PLGA nanoparticles delivery system to the anticancer activity**

ARVAS B., Ucar B., Acar T., Varli H. S., ARVAS M. B., AYDOĞAN F., YOLAÇAN Ç.
Nanotechnology, vol.35, no.30, 2024 (SCI-Expanded)

- III. **A biocompatible and flexible supercapacitor for wearable electronic devices**
Yazar Aydoğan S., Arvas B., Arvas M. B., Yolaçan Ç., Şahin Y.
Journal of Energy Storage, vol.74, 2023 (SCI-Expanded)
- IV. **T-cut slotted quartz tube-atom trap strategy for the on-line preconcentration of thallium in well water samples**
Bombom M., Zaman B. T., DALGIÇ BOZYİĞİT G., Şaylan M., Bayraktar A., ARVAS B., YOLAÇAN Ç., BAKIRDERE S.
Measurement: Journal of the International Measurement Confederation, vol.220, 2023 (SCI-Expanded)
- V. **Preparation of Electrochemical Sensor for Paracetamol Detection Based on a New Piperazine Substituted Triazole-Coumarin Hybrid Doped PEDOT Modified Flexible HOPG Electrode**
ARVAS B., YAZAR AYDOĞAN S., ARVAS M. B., Eglence-Bakır S., ŞAHİN M., YOLAÇAN Ç.
ECS Journal of Solid State Science and Technology, vol.12, no.7, 2023 (SCI-Expanded)
- VI. **Trace nickel determination in seawater matrix using combination of dispersive liquid-liquid microextraction and triethylamine-assisted Mg(OH)₂ method**
Kublay İ. Z., KOÇOĞLU E. S., Oflu S., ARVAS B., YOLAÇAN Ç., BAKIRDERE S.
Environmental Monitoring and Assessment, vol.195, no.7, 2023 (SCI-Expanded)
- VII. **Determination of trace cobalt ions in bottled drinking water samples from Fiji Island by spray-assisted fine droplet formation-liquid phase microextraction based on simultaneous complexation and extraction before flame atomic absorption spectrometer measurement**
Sağsöz O., Arvas B., Zaman B. T., Bakırdere S., Yolaçan Ç.
ENVIRONMENTAL MONITORING AND ASSESSMENT AN INTERNATIONAL JOURNAL DEVOTED TO PROGRESS IN THE USE OF MONITORING DATA IN ASSESSING ENVIRONMENTAL RISKS TO MAN AND THE ENVIRONMENT, vol.195, no.313, pp.1-32, 2023 (SCI-Expanded)
- VIII. **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., Aydoğan F., Yolaçan Ç.
JOURNAL OF MOLECULAR STRUCTURE, vol.1239, 2021 (SCI-Expanded)
- IX. **Implementation of a spraying-assisted fine droplet formation-based simultaneous liquid-phase microextraction method for the determination of copper in clove extract samples**
Bakaraki Turan N., Zaman B. T., Arvas B., Yolaçan Ç., Bakırdere S.
CHEMICAL PAPERS, vol.75, no.6, pp.2929-2935, 2021 (SCI-Expanded)
- X. **A new coumarin based Schiff base fluorescence probe for zinc ion**
Arvas B., Ucar B., Acar T., Arvas M. B., Şahin Y., Aydoğan F., Yolaçan Ç.
TETRAHEDRON, vol.88, 2021 (SCI-Expanded)
- XI. **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., AYDOĞAN F., YOLAÇAN Ç.
ARCHIV DER PHARMAZIE, vol.353, no.11, 2020 (SCI-Expanded)
- XII. **Synthesis of arylpiperazine substituted bisindolylmethanes as possible pharmacologically active new compounds**
ARVAS B., GÜNKARA Ö. T., Ocal N.
ARKIVOC, pp.100-109, 2018 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Trace Level Determination of Nickel in Seawater Matrix Using the Combination of Microextraction and Coprecipitation Methods**
Kublay İ. Z., Koçoğlu E. S., Oflu S., Arvas B., Bakırdere S.
19th Asian Chemical Congress, İstanbul, Turkey, 9 - 14 July 2023

- II. **THE SYNTHESIS OF NEW COUMARIN DERIVATIVES**
Güner S., Aydoğan F., Arvas B., Belmen B., Yolaçan Ç.
INTERNATIONAL CONGRESS OF NEW HORIZONS IN SCIENCES, İstanbul, Turkey, 20 - 21 May 2023, pp.39
- III. **A New Coumarin-Based Small-Molecule Fluorescent Probe for Zinc Ion**
Arvas B., Uçar B., Acar T., Arvas M. B., Şahin Y., Aydoğan F., Yolaçan Ç.
The Third Anatolian Conference on Organic Chemistry, Antalya, Turkey, 13 - 16 March 2023, pp.40
- IV. **Synthesis and Applications of Novel Coumarin-Triazole Hybrid Compounds**
Arvas B., Aydoğan F., Yolaçan Ç.
11. İlaç Kimyası Kongresi, Antalya, Turkey, 9 - 12 March 2023, pp.188
- V. **Design and Synthesis of Novel Triazole-Tethered Piperazine Coumarin Hybrids**
Arvas B., Aydoğan F., Yolaçan Ç.
11. İlaç Kimyası Kongresi, Antalya, Turkey, 9 March - 12 April 2023, pp.92
- VI. **Synthesis and Applications of Novel Coumarin-Triazol Hybrid Compounds**
Özkaymak M., Arvas B., Aydoğan F., Yolaçan Ç.
11. International Drug Chemistry conference, Antalya, Turkey, 9 - 12 March 2023, pp.188
- VII. **Design and Synthesis of New Coumarin-Bistriazole Hybrids as Potensial Drug Candidates**
Arvas B., Yolaçan Ç., Aydoğan F.
8th International Bahçeşehir University (BAU) Drug Design Congress, İstanbul, Turkey, 15 - 17 December 2022, pp.1
- VIII. **Bazı ağır metallerin uzaklaştırılmasında organokillerin kullanımı**
Sağ G., Arvas B., Yolaçan Ç., Kocaoba S.
10. Ulusal Analitik Kimya Kongresi, Muğla, Turkey, 7 - 11 September 2022, pp.157
- IX. **Bazı organik bileşiklerin metal bağlanma özelliklerine etki eden parametrelerin incelenmesi**
Demirkapı C., Arvas B., Yolaçan Ç., Kocaoba S.
10. Ulusal Analitik Kimya Kongresi, Muğla, Turkey, 7 - 11 September 2022, pp.158
- X. **New 1,2,3-Triazole-Coumarin Hybrids: Synthesis, Characterization and Investigation of Biological Activities**
Arvas B., Aydoğan F., Yolaçan Ç.
23rd JCF-Frühjahrssymposium, Leipzig, Germany, 29 March - 01 April 2021, pp.64
- XI. **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
- XII. **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
- XIII. **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
- XIV. **Farmakolojik açıdan aktif olabilecek Yeni Arilpiperazin Substitue Bisindolilmetanların Sentezi**
ARVAS B., GÜNKARA Ö. T., ÖCAL SUNGUROĞLU Z. N.
6. ULUSLARARASI İLAÇ KİMYASI: İLAÇ ETKİN MADDESİ TASARIMI, SENTEZİ, ÜRETİMİ VE STANDARDİZASYONU KONGRESİ, Antalya, Turkey, 22 March 2018, vol.1, no.222, pp.1

Supported Projects

YOLAÇAN Ç., AYDOĞAN F., KILIÇ D., ARVAS B., TAŞKIN S., Project Supported by Higher Education Institutions, Triazol Bağlı Amino Asit-Kumarin Hibrid Farmakoforların Sentezi, 2023 - Continues
Arvas B., Uçar Acar B., Project Supported by Higher Education Institutions, Peptid bazlı MR ve Floresans Görüntüleme Kılavuzlu Teranostik Ligandların Sentezi ve İn Vitro Değerlendirilmesi, 2023 - 2025

YOLAÇAN Ç., AYDOĞAN F., ARVAS B., Project Supported by Higher Education Institutions, Yeni Kumarin-Triazol Hibridlerin Sentezi ve Özelliklerinin İncelenmesi, 2022 - 2024

YOLAÇAN Ç., ARVAS B., Project Supported by Higher Education Institutions, Yeni Kumarin Temelli Bileşiklerin Sentezi ve Potansiyel Özelliklerinin İncelenmesi, 2021 - 2024

Arvas M. B., Yazar Aydoğan S., Şahin Y., Arvas B., Yolaçan Ç., Project Supported by Higher Education Institutions, Giyilebilir Elektronikler için Kumarin Türevleri Katkılı-PEDOT Temelli Biyouyumlu Elektrot Malzemelerin Enerji Depolama Özelliklerinin İncelenmesi, 2022 - 2023

Arvas M. B., Yazar Aydoğan S., Arvas B., Project Supported by Higher Education Institutions, Bazı Karboksilik Asit İçeren Polipirol Esaslı Karbon Keçe Elektrotların Hidrotermal Yöntemle Sentezi ve Süperkapasitör Performanslarının İncelenmesi, 2021 - 2022

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

Patent

Arvas M. B., Şahin Y., Arvas B., Mellitik asit katkılı polipirol kaplı karbon keçe elektrodu ve bu elektrodu hazırlama yöntemi, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Registration Number: 2022 013087 , Standard Registration, 2023

Şahin Y., Yazar Aydoğan S., Arvas B., Arvas M. B., Yolaçan Ç., Biocompatible Supercapacitor and Manufacturing Method Thereof, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: PCT/TR2023/050821 , Standard Registration, 2023

Şahin Y., Yazar Aydoğan S., Arvas B., Arvas M. B., Yolaçan Ç., Biyouyumlu süper kapasitör ve bu kapasitörün üretim yöntemi, Patent, CHAPTER C Chemistry; Metallurgy, The Invention Recourse Number: 2022/013091 , Standard Registration, 2022

Metrics

Publication: 26

Citation (WoS): 16

Citation (Scopus): 65

H-Index (WoS): 2

H-Index (Scopus): 5

Congress and Symposium Activities

7th Drug Chemistry Conference, Attendee, Antalya, Turkey, 2019

6ncı İlaç Kimyası: İlaç Etkin Maddesi Tasarımı, Sentezi, Üretimi ve Standardizasyonu Kongresi, Attendee, Antalya, Turkey, 2018