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Personal Information

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International Researcher IDs

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Education Information

Doctorate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Kimya/Analitik Kimya, Turkey 2017 - 2021

Postgraduate, Yıldız Technical University, Graduate School Of Natural And Applied Sciences, Kimya/Analitik Kimya, Turkey 2015 - 2016

Undergraduate, Istanbul University, Mühendislik Fakültesi, Kimya, Turkey 2010 - 2014

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Vocational Training, UV Cihaz Eğitimi, Antteknik, 2022

Vocational Training, Floresans Cihazı Eğitimi, Antteknik, 2022

Vocational Training, FT-IR Cihaz Eğitimi, Antteknik, 2022

Vocational Training, TS EN ISO /IEC 17025:2017 Ölçüm Belirsizliği ve Validasyon/Verifikasyon, B2B Akademi, 2020
Measurement and Evaluation, ÖLÇÜM BELİRSİZLİĞİ VE VALİDASYON/VERİFİKASYON EĞİTİMİ, B2B AKADEMİ, 2020

Vocational Training, AFM EĞİTİMİ, ANT TEKNİK, 2020

Data Analysis, Potansiyostat ve Galvanostat Eğitimi, Metrohm Turkey, 2020

Vocational Training, MICROMERITICS ASAP 2020 CHEMISORPTION, TERRALAB, 2019

Education Management and Planning, TG/DTA, TETRA TEKNOLOJİK SİSTEMLER, 2019

Education Management and Planning, XRD BASICS, PHASES IDENTIFICATION AND ANALYSIS, Anka Analitik Mekatronik Sanayii ve Ticaret LTD. ŞTİ., 2019

Education Management and Planning, TS EN ISO/IEC 17025:2017 DENEY ve KALİBRASYON LABORATUVARLARININ YETKİNLİĞİ İÇİN GENEL GEREKLİLİKLER, Teknik Kontrol ve Belgelendirme Ltd. Şti., 2018

Vocational Training, BET Yüzey Alanı ve Mikrogözenek Boyutu Analizi, Terralab, 2018

Environment and Sustainability, Tıbbi Atıkların Yönetimi, İSTAÇ, 2017

Vocational Training, REFERANS STANDARTLAR VE YETERLİLİK TESTLERİ, LGC Standards, 2017

Vocational Training, Spektroskopi Semineri 2016, Metrohm Turkey, 2016

New Product Development, Patent Workshop, YTÜ TTO, 2016

Vocational Training, Direkt Ölçümler Semineri 2015, Metrohm Turkey, 2015

Vocational Training, Potansiyostat Galvanostat Eğitimi, Metrohm Turkey, 2015

Measurement and Evaluation, PEDAGOJİK FORMASYON, İSTANBUL ÜNİVERSİTESİ, 2014

Dissertations

Doctorate, Bazı grafen esaslı malzemelerin süperkapasitör sistemlerindeki performanslarının incelenmesi, Yıldız Technical University, Faculty Of Arts & Science, Department Of Chemistry, 2021

Postgraduate, VOLTAMETRİK YÖNTEMLERLE FOSFAT TAYİNİ, Yıldız Teknik Üniversitesi, Graduate School of Natural and Applied Sciences, Kimya/Analitik Kimya, 2016

Research Areas

Chemistry, Analytical Chemistry, Electromagnetic Methods, Electrochemistry, Conductive Polymers, Composites, nanocomposites, Inorganic Chemistry, Natural Sciences

Academic Titles / Tasks

Associate Professor, Istanbul University, Faculty Of Science, Department Of Chemistry, 2024 - Continues

Assistant Professor, Istanbul University, Faculty Of Science, Department Of Chemistry, 2022 - 2023

Lecturer, Yıldız Technical University, Rectorate, 2017 - 2022

Academic and Administrative Experience

Bölüm İSG Temsilcisi, Istanbul University, Faculty Of Science, Department Of Chemistry, 2024 - Continues

Adaptation/Exemption Committee Member, Istanbul University, Faculty Of Science, Department Of Chemistry, 2023 - Continues

Courses

ENERJİ DEPOLAMA SİSTEMLERİ İÇİN İLERİ MALZEME TEKNOLOJİLERİ, Postgraduate, 2023 - 2024

GENEL KİMYA (BİYOLJİ, LİSANS PROGRAMI, (ÖRGÜN ÖĞRETİM)), Undergraduate, 2023 - 2024

GENEL KİMYA II (BİYOLJİ, LİSANS PROGRAMI, (ÖRGÜN ÖĞRETİM)), Undergraduate, 2022 - 2023

GENEL KİMYA II LABORATUVARI ÇİFT, Undergraduate, 2022 - 2023

KİMYA II (ASTRONOMİ VE UZAY BİLİMLERİ, LİSANS PROGRAMI, (ÖRGÜN ÖĞRETİM)), Undergraduate, 2022 - 2023

GENEL KİMYA LABORATUVARI I ÇİFT (KİMYA, LİSANS PROGRAMI, (ÖRGÜN ÖĞRETİM)), Undergraduate, 2023 - 2024

GENEL KİMYA I (BİYOLJİ, LİSANS PROGRAMI, (ÖRGÜN ÖĞRETİM)), Undergraduate, 2023 - 2024

GENEL KİMYA I LABORATUVARI, Undergraduate, 2023 - 2024

KİMYA II (FİZİK, LİSANS PROGRAMI, (ÖRGÜN ÖĞRETİM)), Undergraduate, 2022 - 2023

GENEL KİMYA LABORATUVARI II ÇİFT (KİMYA, LİSANS PROGRAMI, (ÖRGÜN ÖĞRETİM)), Undergraduate, 2022 - 2023

GENEL KİMYA II LABORATUVARI TEK, Undergraduate, 2022 - 2023

ELEKTROKİMYA, Undergraduate, 2023 - 2024

ELEKTROANALİTİK YÖNTEMLER, Doctorate, 2022 - 2023

GENEL KİMYA I (FİZİK, LİSANS PROGRAMI, (ÖRGÜN ÖĞRETİM)), Undergraduate, 2023 - 2024

GENEL KİMYA II (FİZİK, LİSANS PROGRAMI (ÖRGÜN ÖĞRETİM)), Undergraduate, 2022 - 2023

KİMYA I (ASTRONOMİ VE UZAY BİLİMLERİ, LİSANS PROGRAMI, (ÖRGÜN ÖĞRETİM)), Undergraduate, 2022 - 2023

KİMYA I (FİZİK, LİSANS PROGRAMI, (ÖRGÜN ÖĞRETİM)), Undergraduate, 2022 - 2023

GENEL KİMYA I (FİZİK, LİSANS PROGRAMI, (ÖRGÜN ÖĞRETİM)), Undergraduate, 2022 - 2023

Advising Theses

Şahin M., Arvas M. B., Nanoyapılı Malzemeler ile Kompozit Elektrot Üretimi ve Süperkapasitör Özelliklerinin İncelenmesi, Postgraduate, A.AGHAZADA(Student), Continues

Arvas M. B., Nanomalzeme katkılı gözenekli silisyum üretimi ve lityum iyon pillerde performanslarının incelenmesi, Postgraduate, E.Kalkan(Student), Continues

Eksik O., Arvas M. B., Studying the effect of graphene on the mechanical properties of automotive glass enamel, Postgraduate, S.Aydın(Student), 2023

Gençten M., Arvas M. B., Heteratom Katkılı Grafen-İletken Polimer İçeren Kompozit Malzemelerin Hazırlanması ve Süperkapasitif Özelliklerinin İncelenmesi, Postgraduate, O.KUMBAŞI(Student), 2023

Jury Memberships

Post Graduate, Post Graduate, Gebze Teknik Üniversitesi, February, 2024

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2024

Associate Professor Exam, Associate Professor Exam, İstanbul Üniversitesi, January, 2024

Doctorate, Doctorate, Yıldız Teknik Üniversitesi, January, 2024

Post Graduate, Post Graduate, Eskişehir Osmangazi Üniversitesi, September, 2023

Post Graduate, Post Graduate, Marmara Üniversitesi, August, 2023

Post Graduate, Post Graduate, İstanbul Üniversitesi-Cerrahpaşa, August, 2023

Post Graduate, Post Graduate, Marmara Üniversitesi, July, 2023

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, May, 2023

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, December, 2022

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, December, 2022

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, December, 2022

Doctoral Examination, Doctoral Examination, Yıldız Teknik Üniversitesi, December, 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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., Uçar Acar B., Acar T., Varlı Ma H. S., Arvas M. B., Aydoğan F., Yolaçan Ç.
NANOTECHNOLOGY, vol.1, no.1, pp.1-10, 2024 (SCI-Expanded)
- II. **ZnO@Polypyrrole-P(VSANA) on flexible and wearable carbon felt as electrodes for nonenzymatic H2O2 sensor and supercapacitor applications**
Polat B., YAZAR AYDOĞAN S., ARVAS M. B., ÖZEROĞLU C.
Journal of Materials Research, vol.39, no.6, pp.913-927, 2024 (SCI-Expanded)
- III. **Construction of a ternary composite of S-doped GO, Cl-doped GO, and PANI for coin cell-type asymmetric supercapacitor**
Yasa S., Kumbasi O., Arvas M. B., Gençten M., Şahin M., Şahin Y.
IONICS, 2024 (SCI-Expanded)
- IV. **The effect of zinc and sodium borate doping on the structural, morphological, optical, electrical and electrochemical properties of PEDOT:PSS thin film electrodes for flexible and transparent supercapacitor applications**
YAĞCI Ö., ARVAS M. B., AYDIN YÜKSEL S.
New Journal of Chemistry, vol.48, no.9, pp.4096-4108, 2024 (SCI-Expanded)
- V. **A biocompatible and flexible supercapacitor for wearable electronic devices**
YAZAR AYDOĞAN S., ARVAS B., ARVAS M. B., YOLAÇAN Ç., ŞAHİN Y.
Journal of Energy Storage, vol.74, 2023 (SCI-Expanded)
- VI. **Electrochemical synthesis of some thiosemicarbazide derivatives doped polypyrrole electrodes and supercapacitor applications**

Arvas M. B., Yazar Aydoğan S., Eğlence Bakır S., Şahin M.

SYNTHETIC METALS, pp.1, 2023 (SCI-Expanded)

- VII. **Investigation of supercapacitor electrode performances of phosphorus-doped graphene oxide electrodes in various deep eutectic solvents and symmetric supercapacitor application**
Kalkan E., Arvas M. B., Yazar Aydoğan S., Şahin Y.
JOURNAL OF ENERGY STORAGE, vol.73, no.109184, pp.1-10, 2023 (SCI-Expanded)
- VIII. **PAN-based nanofiber reduced graphene oxide electrodes for supercapacitor applications**
Eksik O., ARVAS M. B., Yavuz R.
Journal of Materials Science: Materials in Electronics, vol.34, no.26, 2023 (SCI-Expanded)
- IX. **Investigation the effects of chlorine doped graphene oxide as an electrolyte additive for gel type valve regulated lead acid batteries**
Mansuroglu A., GENÇTEN M., ARVAS M. B., ŞAHİN M., ŞAHİN Y.
Journal of Energy Storage, vol.64, 2023 (SCI-Expanded)
- X. **Polypyrrole decorated with an anthraquinone dye for energy storage applications**
YAZAR AYDOĞAN S., Karahan N., ARVAS M. B.
Synthetic Metals, vol.297, 2023 (SCI-Expanded)
- XI. **Facile synthesis strategy for phthalocyanine-titanium dioxide/multi-walled carbon nanotube/poly(3,4-ethylenedioxythiophene) ternary composite electrodes via one-step electrochemical method for supercapacitor applications**
Artar E., ARVAS M. B., GÖRDÜK Ö., GÖRDÜK S., ŞAHİN Y.
Synthetic Metals, vol.297, 2023 (SCI-Expanded)
- XII. **One-pot synthesis of Vanadium-doped conducting polymers for using as electrode materials of supercapacitors**
Ok B., GENÇTEN M., ARVAS M. B., ŞAHİN Y.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.34, no.23, 2023 (SCI-Expanded)
- XIII. **Green Synthesis of Copper Oxide Nanoparticle Decorated Polypyrrole-Chitosan on Pencil Graphite Electrode for Enzyme-Free Glucose Sensors**
YAZAR AYDOĞAN S., ARVAS M. B., Polat B., ÖZEROĞLU C.
ECS Journal of Solid State Science and Technology, vol.12, no.7, 2023 (SCI-Expanded)
- XIV. **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., EĞLENCE BAKIR S., ŞAHİN M., YOLAÇAN Ç.
ECS Journal of Solid State Science and Technology, vol.12, no.7, 2023 (SCI-Expanded)
- XV. **S-Doped Graphene Oxide/N-Doped Graphene Oxide/PANI: A Triple Composite for High-Performance Supercapacitor Applications**
YAŞA S., Kumbasi O., ARVAS M. B., GENÇTEN M., ŞAHİN M., ŞAHİN Y.
ECS Journal of Solid State Science and Technology, vol.12, no.5, 2023 (SCI-Expanded)
- XVI. **Agglomerated serum albumin adsorbed protocatechuic acid coated superparamagnetic iron oxide nanoparticles as a theranostic agent**
Bozoglu S., ARVAS M. B., Varlı H. S., Ucar B., Acar T., Yavuz N.
Nanotechnology, vol.34, no.14, 2023 (SCI-Expanded)
- XVII. **Fabrication of S,N co-doped graphene powders for symmetrical supercapacitors in different aqueous electrolytes**
Arvas M. B., Yavuz N., GENÇTEN M., ŞAHİN Y.
Journal of Materials Science: Materials in Electronics, vol.34, no.12, 2023 (SCI-Expanded)
- XVIII. **Hydrothermal synthesis of polypyrrole/dye-functionalized carbon cloth electrode for wide potential window supercapacitor**
ARVAS M. B.
Synthetic Metals, vol.293, 2023 (SCI-Expanded)
- XIX. **Construction of Phthalocyanine-Titanium Dioxide/Graphene/Polyaniline Composite Electrodes by Electrochemical Method for Supercapacitor Applications**

ARVAS M. B., Artar E., GÖRDÜK Ö., GÖRDÜK S., ŞAHİN Y.

ECS Journal of Solid State Science and Technology, vol.12, no.3, 2023 (SCI-Expanded)

- XX. **Synthesis and characterization of novel HMPM bridged ball-type metallophthalocyanines, and their DFT studies and electrochemical performance as supercapacitor electrodes**
Koçyiğit N., ARVAS M. B., YAZAR AYDOĞAN S., Açar-Selçuki N., ŞAHİN Y., ÖZER M., Bekaroğlu Ö.
Synthetic Metals, vol.292, 2023 (SCI-Expanded)
- XXI. **S, N and Cl Separately Doped Graphene Oxide/Polyaniline Composites for Hybrid Supercapacitor Electrode**
Yazar S., Arvas M. B., Sahin Y.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, pp.1-11, 2022 (SCI-Expanded)
- XXII. **Effects of pyridinic N of carboxylic acid on the polymerization of polyaniline and its supercapacitor performances**
YAZAR AYDOĞAN S., ARVAS M. B., Yilmaz S. M., ŞAHİN Y.
JOURNAL OF ENERGY STORAGE, vol.55, 2022 (SCI-Expanded)
- XXIII. **Facile and single step produced Ba:Sn-codoped PEDOT:PSS thin film electrode with improved optics and electrochemical properties for transparent and flexible supercapacitor applications**
Yagci O., Arvas M. B., YAZAR AYDOĞAN S.
NEW JOURNAL OF CHEMISTRY, vol.46, no.46, pp.22130-22142, 2022 (SCI-Expanded)
- XXIV. **Supercapacitor applications of novel phosphorus doped graphene-based electrodes**
ARVAS M. B., Guersu H., GENÇTEN M., ŞAHİN Y.
JOURNAL OF ENERGY STORAGE, vol.55, 2022 (SCI-Expanded)
- XXV. **The Synthesis of 2,6-Pyridinedicarboxylic Acid Modified Porous Polypyrrole Electrodes and Its Energy Storage Application**
Arvas M. B., Yazar S., Sahin Y.
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.11, no.1, pp.11-18, 2022 (SCI-Expanded)
- XXVI. **An ultra-high power density supercapacitor: Cu(II) phthalocyanine tetrasulfonic acid tetrasodium salt doped polyaniline**
ARVAS M. B., YAZAR AYDOĞAN S., ŞAHİN Y.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.919, 2022 (SCI-Expanded)
- XXVII. **Preparation of sulfur-doped graphenes by Yucel's method and their corresponding polylactide-based nanocomposites**
Kahraman Y., GÜRSU H., Arvas M. B., Ersozoglul M. G., Nofar M., Sarac A. S., ŞAHİN Y.
JOURNAL OF APPLIED POLYMER SCIENCE, vol.139, no.36, 2022 (SCI-Expanded)
- XXVIII. **Preparation of Spinel Form Co₃O₄ and CoO₂ Thin Film at Low Temperature by Electrochemical Method as a Thin Film Oxide Layer**
Hacinecipoglu A., GENÇTEN M., ARVAS M. B., ŞAHİN Y.
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.11, no.8, 2022 (SCI-Expanded)
- XXIX. **Investigation of supercapacitor properties of chlorine-containing functional groups doped graphene electrodes**
Arvas M. B., GENÇTEN M., ŞAHİN Y.
JOURNAL OF ELECTROANALYTICAL CHEMISTRY, vol.918, 2022 (SCI-Expanded)
- XXX. **New Approach Synthesis of S, N Co-Doped Graphenes for High-Performance Supercapacitors**
Arvas M. B., GÜRSU H., GENÇTEN M., ŞAHİN Y.
CHEMISTRYSELECT, vol.7, no.21, 2022 (SCI-Expanded)
- XXXI. **Hydrothermal Synthesis of Flexible Fe-Doped Polyaniline/Dye-Functionalized Carbon Felt Electrode for Supercapacitor Applications**
YAZAR AYDOĞAN S., ARVAS M. B., ŞAHİN Y.
CHEMISTRYSELECT, vol.7, no.21, 2022 (SCI-Expanded)
- XXXII. **An ultrahigh-energy density and wide potential window aqueous electrolyte supercapacitor built by polypyrrole/aniline 2-sulfonic acid modified carbon felt electrode**
YAZAR AYDOĞAN S., ARVAS M. B., ŞAHİN Y.

- INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.6, pp.8042-8060, 2022 (SCI-Expanded)
- XXXIII. **One-step synthesis of nitrogen-doped graphene powders and application of them as high-performance symmetrical coin cell supercapacitors in different aqueous electrolyte**
ARVAS M. B., Yavuz N., GENÇTEN M., ŞAHİN Y.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.6, pp.7348-7373, 2022 (SCI-Expanded)
- XXXIV. **Electrochemical synthesis and characterization of self-doped aniline 2-sulfonic acid-modified flexible electrode with high areal capacitance and rate capability for supercapacitors**
Yazar S., Sahin Y., ARVAS M. B.
SYNTHETIC METALS, vol.285, 2022 (SCI-Expanded)
- XXXV. **Preparation of Copper Doped Conducting Polymers and Their Supercapacitor Applications**
Ok B., GENÇTEN M., ARVAS M. B., ŞAHİN Y.
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.11, no.3, 2022 (SCI-Expanded)
- XXXVI. **A novel electrolyte additive for gel type valve regulated lead acid batteries: Sulfur doped graphene oxide**
Mansuroglu A., GENÇTEN M., ARVAS M. B., ŞAHİN M., BOZDOĞAN A. E., ŞAHİN Y.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.15, pp.21390-21402, 2021 (SCI-Expanded)
- XXXVII. **Production of chlorine-containing functional group doped graphene powders using Yucel's method as anode materials for Li-ion batteries**
GÜRSU H., Guner Y., Arvas M. B., Dermenci K. B., Savaci U., GENÇTEN M., Turan S., ŞAHİN Y.
RSC ADVANCES, vol.11, no.63, pp.40059-40071, 2021 (SCI-Expanded)
- XXXVIII. **N-Doped Graphene Oxide as Additive for Fumed Silica Based Gel Electrolyte of Valve Regulated Lead Acid Batteries**
Mansuroglu A., ARVAS M. B., Kiraz C., Sayhan B., Akgumus A., GENÇTEN M., ŞAHİN M., ŞAHİN Y.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.168, no.6, 2021 (SCI-Expanded)
- XXXIX. **A new coumarin based Schiff base fluorescence probe for zinc ion**
ARVAS B., Ucar B., Acar T., Arvas M. B., ŞAHİN Y., AYDOĞAN F., YOLAÇAN Ç.
TETRAHEDRON, vol.88, 2021 (SCI-Expanded)
- XL. **One-step synthesized N-doped graphene-based electrode materials for supercapacitor applications**
Arvas M. B., GENÇTEN M., ŞAHİN Y.
IONICS, vol.27, no.5, pp.2241-2256, 2021 (SCI-Expanded)
- XLI. **Fabrication of high-performance symmetrical coin cell supercapacitors by using one step and green synthesis sulfur doped graphene powders**
Arvas M. B., Yavuz N., GENÇTEN M., ŞAHİN Y.
NEW JOURNAL OF CHEMISTRY, vol.45, no.15, pp.6928-6939, 2021 (SCI-Expanded)
- XLII. **Preparation of different heteroatom doped graphene oxide based electrodes by electrochemical method and their supercapacitor applications**
Arvas M. B., GÜRSU H., GENÇTEN M., ŞAHİN Y.
JOURNAL OF ENERGY STORAGE, vol.35, 2021 (SCI-Expanded)
- XLIII. **Differential Pulse Voltammetric (DPV) Determination of Phosphomolybdenum Complexes by a Poly(Vinyl Chloride) Coated Molybdenum Blue Modified Pencil Graphite Electrode (PVC-MB-PGE)**
Arvas M. B., GÖRDÜK Ö., GENÇTEN M., ŞAHİN Y.
ANALYTICAL LETTERS, vol.54, no.3, pp.492-511, 2021 (SCI-Expanded)
- XLIV. **A novel interface layer for inverted perovskite solar cells fabricated in ambient air under high humidity conditions**
CHOI F. P., Alishah H. M., Bozar S., Doyranli C., KOYUNCU S., SAN N., Kahveci C., Rodop M. C., Arvas M. B., GENÇTEN M., et al.
SOLAR ENERGY, vol.209, pp.400-407, 2020 (SCI-Expanded)
- XLV. **Preparation of anatase form of TiO₂ thin film at room temperature by electrochemical method as an alternative electron transport layer for inverted type organic solar cells**
Keskin A. V., GENÇTEN M., Bozar S., Arvas M. B., GÜNEŞ S., ŞAHİN Y.
THIN SOLID FILMS, vol.706, 2020 (SCI-Expanded)

- XLVI. **Effect of UV exposure of ITO/PEDOT:PSS substrates on the performance of inverted-type perovskite solar cells**
Alishah H. M., Kazici M., Ongul F., Bozar S., Rodop M. C., Kahveci C., Arvas M. B., ŞAHİN Y., GENÇTEN M., KALELİ M., et al.
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.10, pp.7968-7980, 2020 (SCI-Expanded)
- XLVII. **A two-dimensional material for high capacity supercapacitors: S-doped graphene**
Arvas M. B., GENÇTEN M., ŞAHİN Y.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.3, pp.1624-1635, 2020 (SCI-Expanded)
- XLVIII. **Preparation of a novel electrochemical sensor for phosphate detection based on a molybdenum blue modified poly(vinyl chloride) coated pencil graphite electrode**
Arvas M. B., GÖRDÜK Ö., GENÇTEN M., ŞAHİN Y.
ANALYTICAL METHODS, vol.11, no.30, pp.3874-3881, 2019 (SCI-Expanded)
- XLIX. **Electrochemically Treated Pencil Graphite Electrodes Prepared in One Step for the Electrochemical Determination of Paracetamol**
Koyun O., GÖRDÜK S., Arvas M. B., ŞAHİN Y.
RUSSIAN JOURNAL OF ELECTROCHEMISTRY, vol.54, no.11, pp.796-808, 2018 (SCI-Expanded)
- L. **Electrochemical formation of molybdenum phosphate on a pencil graphite electrode and its potential application for the detection of phosphate ions**
Arvas M. B., GÜRSU H., GENÇTEN M., ŞAHİN Y.
ANALYTICAL METHODS, vol.10, no.35, pp.4282-4291, 2018 (SCI-Expanded)
- LI. **Direct, one-step synthesis of molybdenum blue using an electrochemical method, and characterization studies**
Koyun O., GÖRDÜK S., Arvas M. B., ŞAHİN Y.
SYNTHETIC METALS, vol.233, pp.111-118, 2017 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Highly Sensitive Non-Enzymatic Sensor for the Determination of Glucose Based on Aniline-2-sulfonic acid-Modified Cu Electrode**
ARVAS M. B.
Journal of the Turkish Chemical Society, Section A: Chemistry, vol.10, no.1, pp.227-240, 2023 (Scopus)

Refereed Congress / Symposium Publications in Proceedings

- I. **Electrocharacterization and Development of a Novel Electrochemical Sensor for the Simultaneous Determination of Paracetamol and Ibuprofen**
Uzunçam Ş. B., Koçyiğit N., Arvas M. B., Dinç Zor Ş.
4.Ulusal Karbon Konferansı, İstanbul, Turkey, 28 - 29 March 2024, pp.42-43
- II. **Düşük karbon sayılı karboksilik asitlerin iletken polimerin morfolojisine ve enerji depolama özelliklerine etkisi**
ARVAS M. B.
15. Ulusal Kimya Mühendisliği Kongresi, 04 September 2023
- III. **BENZOTRIAZOL TÜREVLİ YENİ BALL-TYPE METALLOFTALOSİYANİNLER: SENTEZİ, KARAKTERİZASYONU VE ELEKTROKİMYASAL SÜPER KAPASİTÖR ELEKTROTLARI OLARAK PERFORMANSI**
RAMZY A. T. A., KOÇYİĞİT N., ARVAS M. B., YAZAR AYDOĞAN S., ÖZER M., BEKAROĞLU Ö.
4. BASKENT INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY STUDIES, 4 - 06 August 2023
- IV. **Synthesis of a TiO₂ nano materials as Electrode for Supercapacitor Applications**

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