Assoc. Prof.
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International Researcher IDs
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Yoksis Researcher ID: 28919

Education Information

Doctorate, Anadolu University, Institute Of Science, Kimya Anabilim Dalı / Analitik Kimya Bilim Dalı, Turkey 2013 - 2017
Postgraduate, Anadolu University, Institute Of Science, Kimya Anabilim Dalı / Analitik Kimya Bilim Dalı, Turkey 2011 - 2013
Associate Degree, Anadolu University, Faculty Of Business Administration, Department Of Business, Turkey 2007 - 2010
Undergraduate, Anadolu University, Faculty Of Science, Department Of Chemistry, Turkey 2005 - 2010

Biography

Dr. Metin GENÇTEN received his bachelor's degree from Anadolu University Faculty of Science, Department of Chemistry in 2010, and his master's and doctorate degrees from Anadolu University Institute of Science / Department of Chemistry in 2013 and 2017, respectively. Dr. Gençten, who started his academic career as a research assistant in 2010, worked as a research assistant at Anadolu University and Ordu University. In 2018, he worked as an assistant professor at Yıldız Technical University, Faculty of Chemistry and Metallurgy, Department of Metallurgy and Materials Engineering. Dr. Gençten, who received the title of associate professor in 2019, has been working as an associate professor in the same department since then. Dr. Gençten has also been serving as deputy head of the department since November 2020. Dr.Gençten, who carries out his studies with the Gençten Research Group, of which he is the founder, carries out his studies in the Advanced Material Technologies Laboratory for Energy Storage Systems (ENDEP-LAB), of which he is responsible.

Gençten focuses his work mainly on energy storage systems, Li/Na ion batteries, supercapacitors, lead acid batteries, redox flow batteries, recycling of waste batteries, advanced material technologies, nanomaterials, metal oxides/sulphides, graphene-based

materials, phosphorene, molybdenum disulfide, electrochemistry, material characterization methods, conductive polymers and two-dimensional material technologies. Dr. Gençten, who offers new approaches to the literature, especially with his studies on the integration of two-dimensional materials into new generation energy storage systems, has mainly focused on the production of sustainable and high-performance energy storage systems. In addition, we also carry out studies on the integration of battery waste and different industrial wastes, which are important problems of today, into new energy storage systems through recycling. Dr. Gençten believes that recycling has a significant potential in terms of sustainability.

Gençten worked as an manager in 3 TÜBİTAK projects and as a researcher in 2 projects. He has 13 manager and 7 researchers positions in projects supported by higher education institutions. Believing in the importance of University/Industry cooperation projects, Dr. Gençten took part as an manager in 2 projects and as a researcher in 5 projects. Dr. Gençten, who has 20 national patent applications, has 9 registered patents. Dr. Gençten, who has more than 60 scientific articles in reputable scientific journals in his field, has 1546 citations according to Google academics, 1329 citations according to Scopus and 1292 citations according to Webofscience as of 10.09.2023, and his h-index is 26. Having served as a referee in many scientific journals, Dr. Gençten has editorial duties in national and international journals.

Dr. Gençten, who has been ranked first in the department and first in the faculty in his career, has received awards from many different national and international scientific organizations.

Dr. Gençten is married and is the father of a daughter.

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Bazı katkı maddelerinin vanadyum redoks bataryalardaki pozitif elektrolitin elektrokimyasal davranışına olan etkilerinin incelenmesi, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı / Analitik Kimya Bilim Dalı, 2017
Postgraduate, Kurşun asit akülerin performanslarının artırılması, Anadolu Üniversitesi, Fen Bilimleri Enstitüsü, Kimya Anabilim Dalı / Analitik Kimya Bilim Dalı, 2013

Research Areas

Energy, Chemical Engineering and Technology, Chemical Technologies, Polymer Technology, Electrochemical Processes, Heat Transfer, Energy, Alternative Energy Resources, Energy storage technologies, Advanced Energy Technologies, Metallurgical and Materials Engineering, Material science and engineering, Material Characterization, Nanomaterials, Structure-Property Relationship, Production Metallurgy, Electrolytic Coating, Electrometallurgy, Non Metallic Materials Production, Chemistry, Analytical Chemistry, Electromagnetic Methods, Sensors, Surface Analysis, Natural Sciences, Engineering and Technology

Academic Titles / Tasks

Associate Professor, Yildiz Technical University, Faculty Of Chemıcal And Metallurgıcal Engıneerıng, Department Of Metallurgical And Materials Engineering, 2019 - Continues
Assistant Professor, Yildiz Technical University, Faculty Of Chemıcal And Metallurgıcal Engıneerıng, Department Of Metallurgical And Materials Engineering, 2018 - 2019
Assistant Professor, Yildiz Technical University, Faculty Of Chemıcal And Metallurgıcal Engıneerıng, Department Of Metallurgical And Materials Engineering, 2018 - 2018
Research Assistant, Ordu University, Fen Edebiyat Fakültesi, Kimya, 2017 - 2017
Research Assistant, Anadolu University, Faculty Of Scıence, Kimya, 2011 - 2017
Research Assistant, Ordu University, Fen Edebiyat Fakültesi, Kimya, 2010 - 2011

Academic and Administrative Experience

Deputy Head of Department, Yildiz Technical University, Faculty Of Chemıcal And Metallurgıcal Engıneerıng, Department Of Metallurgical And Materials Engineering, 2020 - Continues

Courses

Polimer Kimyası Ve Polimerik Malzemeler, Undergraduate, 2018 - 2019
Physical Chemistry, Undergraduate, 2018 - 2019
Laboratory-2, Undergraduate, 2018 - 2019
Enerji Depolama Sistemleri İçin İleri Malzeme Teknolojileri, Postgraduate, 2018 - 2019
Enerji Depolama Sistemleri İçin İleri Malzeme Teknolojileri, Postgraduate, 2018 - 2019
Polymer Chemistry And Polymeric Materials, Undergraduate, 2018 - 2019
Bitirme Çalışması, Undergraduate, 2019 - 2020
Fizikokimya, Undergraduate, 2018 - 2019
Metalurjik Üretimde Tasarım Uygulamaları, Undergraduate, 2018 - 2019
Heat Transfer, Undergraduate, 2018 - 2019
Mesleki İngilizce 1, Undergraduate, 2017 - 2018
Information Technologies, Undergraduate, 2018 - 2019
Nano Malzemeler, Undergraduate, 2018 - 2019
Design Applications In Metallurgical Production, Undergraduate, 2018 - 2019
Graduation Project, Undergraduate, 2018 - 2019
Isı Aktarımı, Undergraduate, 2018 - 2019
Bitirme Çalışması, Undergraduate, 2017 - 2018

Advising Theses

Gençten M., Production Of New Generation Anoode MaterialsİN Composite Form For Li-on Beatteries And İnwestigation of Their Performances, Doctorate, M.MAHDI(Student), Continues
Gençten M., Jel Tipi Kurşun Asit Akülerin Performanslarının İletken Polimerler İle Arıtılması, Doctorate, Z.NIDHAL(Student), Continues
Gençten M., Production of Carbon Based New Generation Anode Materials For Na-ION Beatteries a And Investigation of Their Performances, Doctorate, M.HUSSEIN(Student), Continues
Gençten M., Esnek Süperkapasitörler için Elektrot Malzemelerinin Araştırılması, Doctorate, O.İSLAK(Student), Continues
Gençten M., Karbon Esaslı Malzemelerin Esnek Tip Süperkapasitörlerde Kullanımlarının Araştırılması, Postgraduate, E.YILDIZ(Student), Continues
Gençten M., Bazı iki boyutlu malzemelerin lityum iyon pillerde anot malzemesi olarak kullanımlarının araştırılması, Postgraduate, A.SILA(Student), Continues
Gençten M., Production of Some Metal Sulfides and Investigation of Supercapacitor Properties, Postgraduate, C.KORKMAZ(Student), Continues
Gençten M., Organik Atıklardan Karbon Esaslı Malzemelerin Üretimi Ve Süperkapasitör Uygulamalarında Kullanımlarının İncelenmesi, Postgraduate, Ü.ÇEVİK(Student), Continues
Gençten M., Bazı Metal Sülfürlerin Üretimi ve Süperkapasitör Özelliklerinin İncelenmesi, Postgraduate, C.KORKMAZ(Student), Continues
Gençten M., Birol B., Kullanılmış Li-iyon Pillerden Kobalt İçeren Bileşiklerin Geri Kazanımının ve Süperkapasitörlerde Elektrot Malzemesi Olarak Kullanımlarının Araştırılması, Doctorate, S.YAŞA(Student), Continues
Gençten M., Özcan A., Redoks Akışkan Batarya Sistemleri İçin Yeni Bileşenlerin Araştırılması, Doctorate, D.YALÇIN(Student), Continues
Gençten M., Bazı İki Boyutlu Malzemelerin Süperkapasitör Uygulamalarının İncelenmesi, Doctorate, A.VİDAT(Student), Continues
Gençten M., Preparation of the Metal Organic Framework Contained Conducting Polymers Based Materials and Their Supercapacitor Applications, Doctorate, H.YILDIRIM(Student), Continues
Gençten M., Mangan ve Seryum Katkılı Polimerlerin Üretimi ve Süperkapasitör Uygulamalarının İncelenmesi, Postgraduate, Y.FATİH(Student), 2023
Gençten M., Heteratom Katkılı Grafen-İletken Polimer İçeren Kompozit Malzemelerin Hazırlanması Süperkapasitif Özelliklerinin İncelenmesi, Postgraduate, O.KUMBAŞI(Student), 2023
Gençten M., Fosforen Esasli İki Boyutlu Malzemelerin Üretilmesi ve Süperkapasitör Uygulamalarının İncelenmesi, Postgraduate, O.YILMAZ(Student), 2023

Birol B., Gençten M., Recycling of ZnS from Wastes and its Utilization as an Electrode Material in Supercapacitors, Postgraduate, O.AYDIN(Student), 2023

Gençten M., Molibden Disülfit Esaslı Malzemelerin Üretimi ve Süperkapasitör Uygulamalarının İncelenmesi, Postgraduate, Ö.DEMİR(Student), 2022

Gençten M., Jel Tipi Kurşun Asit Akülerde Grafen Oksit Esaslı Malzemelerin Katkı Maddesi Olarak Kullanılması, Postgraduate, A.MANSUROĞLU(Student), 2022

Gençten M., İletken Polimer Esaslı Yeni Kompozit Malzemelerin Hazırlanması ve Süperkapasitör Özelliklerinin İncelenmesi, Postgraduate, B.OK(Student), 2021

Gençten M., Şahin Y., V, Co, Cr, Ce, Fe, Mn ve Sn içeren yeni nesil redoks akışkan batarya sistemlerinin araştırılması, Doctorate, N.KOÇYİĞİT(Student), 2021

Gençten M., Perovskite Güneş Pilleri için Farklı Elektron Transfer Katmanlarının Üretimi, Postgraduate, A.Vidat(Student), 2020

Jury Memberships

Post Graduate, Post Graduate, Yıldız Teknik Üniversitesi, June, 2019

Post Graduate, Post Graduate, İstanbul Teknik Üniversitesi, June, 2019

Post Graduate, Yüksek Lisans Tez Savunması, İstanbul Üniversitesi, June, 2018

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Electrochemical Supercapacitor Application of Electrochemically Produced Chlorine-Doped Graphene Oxide with Cobalt Sulfide-Based Compounds Produced from Recycling of Spent Li-Ion Batteries**
Yasa S., Birol B., Gençten M.
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.1, no.1, pp.1-10, 2024 (SCI-Expanded)

II. **Recovery of cobalt based materials from spent Li-ion batteries and their use as electrode material for supercapacitor**
YAŞA S., BİROL B., Donmez K. B., GENÇTEN M.
Journal of Energy Storage, vol.81, 2024 (SCI-Expanded)

III. **One step production of phosphorene from red phosphorus and investigation of their supercapacitor applications with conducting polymers**
Yilmaz O., Kalyon H. Y., GENÇTEN M., ŞAHİN Y.
Journal of Energy Storage, vol.79, 2024 (SCI-Expanded)

IV. **Construction of a ternary composite of S-doped GO, Cl-doped GO, and PANI for coin cell-type asymmetric supercapacitor**
YAŞA S., Kumbasi O., ARVAS M. B., GENÇTEN M., ŞAHİN M., ŞAHİN Y.
Ionics, 2024 (SCI-Expanded)

V. **Kinetics and mechanism of Pb(II), Cd(II) and Cu(II) adsorption on ferrochrome ash from aqueous solutions**
Ugurlu E., AYDIN O., GENÇTEN M., BİROL B.
International Journal of Environmental Analytical Chemistry, 2024 (SCI-Expanded)

VI. **Recycling valuable materials from the cathodes of spent lithium-ion batteries: A comprehensive review**
YAŞA S., AYDIN O., Al-Bujasim M., BİROL B., GENÇTEN M.
Journal of Energy Storage, vol.73, 2023 (SCI-Expanded)

VII. **A New Manganese Based-Metal Oxide Electrocatalyst Through Electrodeposition for Investigation of Effect on V(IV)/V(V) Side's Reversibility of All-Vanadium Redox Flow Batteries**
Yalcin D., GENÇTEN M., ŞAHİN Y., Ozcan A.
ECS Journal of Solid State Science and Technology, vol.12, no.11, 2023 (SCI-Expanded)

VIII. **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., Sahin M., Sahin Y.
Journal of Energy Storage, vol.64, 2023 (SCI-Expanded)

IX. **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)

X. **S-Doped Graphene Oxide/N-Doped Graphene Oxide/PANI: A Triple Composite for High-Performance**

Supercapacitor Applications
Yasa S., Kumbasi O., Arvas M. B., Gençten M., Sahin M., Sahin Y.
ECS Journal of Solid State Science and Technology, vol.12, no.5, 2023 (SCI-Expanded)

XI. **Production of ZnS based supercapacitor electrode material from ferrochrome ash waste**
Aydın O., Birol B., Gençten M.
IONICS, vol.29, pp.3335-3352, 2023 (SCI-Expanded)

XII. **Fabrication of S,N co-doped graphene powders for symmetrical supercapacitors in different aqueous electrolytes**
Arvas M. B., Karatepe N., Gençten M., Sahin Y.
Journal of Materials Science: Materials in Electronics, vol.34, no.12, 2023 (SCI-Expanded)

XIII. **Removal of Cu(II) Ions from Aqueous Solutions by Ferrochrome Ash: Investigation of Mechanism and Kinetics**
Uğurlu E., Birol B., Gencten M., Bayrak Y.
Water (Switzerland), vol.15, no.6, 2023 (SCI-Expanded)

XIV. **Recovery of cobalt as CoS from spent Li-ion batteries and investigation of its use as an electrode material for supercapacitors**
Yaşa S., Birol B., Gençten M.
NEW JOURNAL OF CHEMISTRY, vol.47, pp.6224-6234, 2023 (SCI-Expanded)

XV. **High performance supercapacitive behaviors of oximes in a poly(aniline-co-pyrrole) based conducting polymer structure**
Basili T., Yildirim Kalyon H., GENÇTEN M., MACİT M., ŞAHİN Y.
NEW JOURNAL OF CHEMISTRY, vol.47, no.2, pp.691-707, 2022 (SCI-Expanded)

XVI. **A new approach to prepare N-/S-doped free-standing graphene oxides for vanadium redox flow battery**
Ersozoglu M. G., Gürsu H., Gençten M., Sarac A. S., Şahin Y.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.14, pp.19992-20003, 2022 (SCI-Expanded)

XVII. **Supercapacitor Applications of Novel Phosphorus Doped Graphene-Based Electrodes**
Arvas M. B., Gürsu H., Gençten M., Şahin Y.
JOURNAL OF ENERGY STORAGE, vol.55, pp.105766, 2022 (SCI-Expanded)

XVIII. **Preparation of Spinel Form Co3O4 and CoO2 Thin Film at Low Temperature by Electrochemical Method as a Thin Film Oxide Layer**
Hacınecipoğlu A. V., Gençten M., Arvas M. B., Şahin Y.
ECS JOURNAL OF SOLID STATE SCIENCE AND TECHNOLOGY, vol.11, no.8, pp.81014-81023, 2022 (SCI-Expanded)

XIX. **Modern practices in electrophoretic deposition to manufacture energy storage electrodes**
Chakrabarti B. K., Gençten M., Bree G., Dao A. H., Mandler D., Low C. T. J.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, pp.13205-13250, 2022 (SCI-Expanded)

XX. **Investigation of supercapacitor properties of chlorine-containing functional groups doped graphene electrodes**
Besir Arvas M., GENÇTEN M., ŞAHİN Y.
Journal of Electroanalytical Chemistry, vol.918, 2022 (SCI-Expanded)

XXI. **New Approach Synthesis of S, N Co-Doped Graphenes for High-Performance Supercapacitors**
Arvas M. B., Gürsu H., Gençten M., Şahin Y.
CHEMISTRYSELECT, vol.7, no.21, 2022 (SCI-Expanded)

XXII. **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., Karatepe N., GENÇTEN M., ŞAHİN Y.
International Journal of Energy Research, vol.46, no.6, pp.7348-7373, 2022 (SCI-Expanded)

XXIII. **Novel composite materials consisting of polypyrrole and metal organic frameworks for supercapacitor applications**
Yildirim Kalyon H., GENÇTEN M., GÖRDÜK S., ŞAHİN Y.
Journal of Energy Storage, vol.48, 2022 (SCI-Expanded)

XXIV. **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)

XXV. **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)

XXVI. **Thiophene Functionalized Porphyrin for Electrochemical Carbon Dioxide Reduction**

Kaplan E., Gumrukcu S., GENÇTEN M., ŞAHİN Y., Hamuryudan E.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.168, no.12, 2021 (SCI-Expanded)

XXVII. **A novel electrolyte additive for gel type valve regulated lead acid batteries: Sulfur doped graphene oxide**
Mansuroglu A., Gençten M., Arvas M. B., Şahin M., Bozdogan A. E., Şahin Y.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.45, no.15, pp.21390-21402, 2021 (SCI-Expanded)

XXVIII. **A novel electrolytes for redox flow batteries: Cerium and chromium couples in aqueous system**
Kocyigit N., Gençten M., Şahin M., Şahin Y.
International Journal of Energy Research, vol.45, no.11, pp.16176-16188, 2021 (SCI-Expanded)

XXIX. **Synthesis of Phosphorus Doped Graphenes via the Yucel's Method as the Positive Electrode of a Vanadium Redox Flow Battery**
Gürsu H., Gençten M., Şahin Y.
JOURNAL OF THE ELECTROCHEMICAL SOCIETY, vol.168, no.6, 2021 (SCI-Expanded)

XXX. **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)

XXXI. **One-step synthesized N-doped graphene-based electrode materials for supercapacitor applications**
Arvas M. B., Gençten M., Şahin Y.
IONICS, vol.27, no.5, pp.2241-2256, 2021 (SCI-Expanded)

XXXII. **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)

XXXIII. **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)

XXXIV. **A green approach to fabricate binder-free S-doped graphene oxide electrodes for vanadium redox battery**
Ersozoglu M. G., Gürsu H., Gençten M., Sarac A. S., Şahin Y.
International Journal of Energy Research, vol.45, no.2, pp.2126-2137, 2021 (SCI-Expanded)

XXXV. **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)

XXXVI. **Electrochemical fabrication and supercapacitor performances of metallo phthalocyanine/functionalized-multiwalled carbon nanotube/polyaniline modified hybrid electrode materials**
Gördük Ö., Gençten M., Gördük S., Şahin M., Şahin Y.
JOURNAL OF ENERGY STORAGE, vol.33, 2021 (SCI-Expanded)

XXXVII. **A novel green and one-step electrochemical method for production of sulfur-doped graphene powders and their performance as an anode in Li-ion battery**
GÜRSU H., Guner Y., Dermenci K. B., GENÇTEN M., Savaci U., Turan S., ŞAHİN Y.
IONICS, vol.26, no.10, pp.4909-4919, 2020 (SCI-Expanded)

XXXVIII. **A novel interface layer for inverted perovskite solar cells fabricated in ambient air under high humidity conditions**
Gokdemir Choi F. P., Moeini Alishah H., Bozar S., Doyranli C., Koyuncu S., San N., Kahveci C., Cantürk Rodop M., Arvas M. B., Gençten M., et al.
Solar Energy, vol.209, pp.400-407, 2020 (SCI-Expanded)

XXXIX. **One-step electrochemical preparation of ternary phthalocyanine/acid-activated multiwalled carbon nanotube/polypyrrole-based electrodes and their supercapacitor applications**
Gördük Ö., Gördük S., Gençten M., Şahin M., Şahin Y.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, pp.9093-9111, 2020 (SCI-Expanded)

XL. **Chrome and cobalt-based novel electrolyte systems for redox flow batteries**
Kocyigit N., GENÇTEN M., ŞAHİN M., ŞAHİN Y.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.10, pp.8014-8023, 2020 (SCI-Expanded)

XLI. **A critical review on progress of the electrode materials of vanadium redox flow battery**
GENÇTEN M., ŞAHİN Y.

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.44, no.10, pp.7903-7923, 2020 (SCI-Expanded)

XLII. **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)

XLIII. **Effect of UV exposure of ITO/PEDOT:PSS substrates on the performance of inverted-type perovskite solar cells**
Alishah H. M., Kazici M., Ongül F., Bozar S., CANTÜRK RODOP M., 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)

XLIV. **A two-dimensional material for high capacity supercapacitors: S-doped graphene**
Arvas M. B., Gençten M., Şahin Y.
International Journal of Energy Research, vol.44, no.3, pp.1624-1635, 2020 (SCI-Expanded)

XLV. **A novel vanadium/cobalt redox couple in aqueous acidic solution for redox flow batteries**
Kocyigit N., GENÇTEN M., ŞAHİN M., ŞAHİN Y.
International Journal of Energy Research, vol.44, no.1, pp.411-424, 2020 (SCI-Expanded)

XLVI. **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., Şahin Y.
ANALYTICAL METHODS, vol.11, no.30, pp.3874-3881, 2019 (SCI-Expanded)

XLVII. **Preparation of N-doped graphene powders by cyclic voltammetry and a potential application of them: Anode materials of Li-ion batteries**
GÜRSU H., Güner Y., Dermenci K. B., GENÇTEN M., Buluç A. F., Savacı U., Turan S., ŞAHİN Y.
INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.43, no.10, pp.5346-5354, 2019 (SCI-Expanded)

XLVIII. **A novel copper() phthalocyanine-modified multiwalled carbon nanotube-based electrode for sensitive electrochemical detection of bisphenol A**
Koyun O., GÖRDÜK S., GENÇTEN M., ŞAHİN Y.
NEW JOURNAL OF CHEMISTRY, vol.43, no.1, pp.85-92, 2019 (SCI-Expanded)

XLIX. **Investigation the Effects of Boehmite and Gibbsite on the Electrochemical Behaviours of Gel-VRLA Batteries**
GENÇTEN M.
INTERNATIONAL JOURNAL OF ELECTROCHEMICAL SCIENCE, vol.13, no.12, pp.11741-11751, 2018 (SCI-Expanded)

L. **A performance comparison of protective silicate-coated lead and non-coated lead electrodes in various kind electrolytes of gel valve-regulated lead-acid battery**
Donmez K. B., GENÇTEN M., ŞAHİN Y.
IONICS, vol.24, no.11, pp.3655-3664, 2018 (SCI-Expanded)

LI. **Cyclic voltammetric preparation of graphene-coated electrodes for positive electrode materials of vanadium redox flow battery**
GÜRSU H., GENÇTEN M., ŞAHİN Y.
IONICS, vol.24, no.11, pp.3641-3654, 2018 (SCI-Expanded)

LII. **Preparation of N-doped graphene-based electrode via electrochemical method and its application in vanadium redox flow battery**
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