

## Assoc. Prof. Melike SEVİM

### Personal Information

**Office Phone:** [+90 442 231](tel:+90442231) Extension: 4279

**Other Email:** melikessevim@gmail.com

**Web:** <https://avesis.atauni.edu.tr/melike.sevim>

### International Researcher IDs

ScholarID: 6\_wbgAEAAAAJ

ORCID: 0000-0002-9410-0234

ScopusID: 56257726400

Yoksis Researcher ID: 51511

### Biography

Melike SEVİM, İstanbul'da doğdu. İlk ve orta öğrenimini doğduğu şehirde tamamladı. 2007 yılında Sakarya Üniversitesi'nde eğitimine başladı. 2011 yılında ikincilik derecesi ile mezun oldu. Aynı yıl Sakarya Üniversitesi Kimya Anabilim dalında yüksek lisans eğitimine başladı ve 2013 yılında mezun oldu. 2013 yılında Atatürk Üniversitesi Kimya Bölümünde doktora eğitimine başladı ve 2018 yılında tamamladı. 2021-2022 yılları arasında Georgia Institute of Technology (USA)'de post-doktora çalışmalarını gerçekleştirdi. 2022 yılında doçent ünvanını aldı. Hala aynı bölümde çalışmalarına devam etmektedir.

### Education Information

Post Doctorate, Georgia Institute of Technology, School of Materials Science and Engineering, Material Science, United States Of America 2021 - 2022

Doctorate, Ataturk University, Fen Fakültesi, Anorganik Kimya, Turkey 2013 - 2018

Postgraduate, Sakarya University, Faculty Of Arts And Sciences, Anorganik Kimya, Turkey 2011 - 2013

Undergraduate, Sakarya University, Faculty Of Arts And Sciences, Kimya, Turkey 2007 - 2011

### Foreign Languages

English, C1 Advanced

### Dissertations

Doctorate, ŞARJ EDİLEBİLİR LİTYUM BATARYALAR İÇİN YÜKSEK PERFORMANSLI ELEKTROT MALZEMELERİNİN GELİŞTİRİLMESİ , Atatürk Üniversitesi, Fen Fakültesi, Kimya/Anorganik Kimya, 2018

Postgraduate, Ag+ pd +2 gibi ağır metallerle duyarlı ftalosiyanınların hazırlanması, karakterizasyonu ve sensör özelliklerinin incelenmesi, Sakarya Üniversitesi, Fen-Edebiyat Fakültesi, Kimya, 2013

### Research Areas

Electrical and Electronics Engineering, Energy, Renewable energy, Chemistry, Inorganic Chemistry, Catalysis, Solid-State

Chemistry, nanoclusters, Natural Sciences, Engineering and Technology

## Academic Titles / Tasks

Associate Professor, Ataturk University, Fen Fakültesi, Kimya, 2022 - Continues

Assistant Professor, Ataturk University, Fen Fakültesi, Kimya, 2018 - 2022

## Academic and Administrative Experience

Assistant Manager of Research and Application Center, Ataturk University, Rektörlük, -, 2023 - Continues

Academic Performance D. Board Member, Ataturk University, Fen Fakültesi, Kimya, 2023 - Continues

Assistant Coordinator of The Rectorate, Ataturk University, Fen Fakültesi, Kimya, 2023 - Continues

Akreditasyon, Sürekli Gelişim ve Yenilenme Kurulu Üyesi, Ataturk University, Fen Fakültesi, Kimya, 2022 - Continues

Ölçme Değerlendirme Kurulu Üyesi, Ataturk University, Fen Fakültesi, Kimya, 2022 - Continues

Akreditasyon, Sürekli Gelişim ve Yenilenme Kurulu Üyesi, Ataturk University, Fen Fakültesi, Kimya, 2021 - Continues

Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Ataturk University, Fen Fakültesi, Kimya, 2023 - 2023

Uyum Komisyonu Üyesi, Ataturk University, Fen Fakültesi, Kimya, 2021 - 2022

Erasmus Program Institutional Coordinator, Ataturk University, 2018 - 2021

## Courses

Anorganik kimya laboratuvarı, Undergraduate, 2023 - 2024

Proje , Undergraduate, 2023 - 2024

geçiş metal nanopartikülleri ve kataliz uygulamaları, Postgraduate, 2023 - 2024

Geçiş Metal Nanopartikülleri ve Kataliz Uygulamaları, Postgraduate, 2022 - 2023

Anorganik Kimya Reaksiyon Mekanizmaları, Undergraduate, 2022 - 2023

Anorganik Kimya I, Undergraduate, 2023 - 2024

İleri Anorganik Kimya II, Postgraduate, 2020 - 2021

Geçiş Metalleri ve Kataliz Uygulamaları, Postgraduate, 2020 - 2021

Anorganik kimya II, Undergraduate, 2020 - 2021

Proje II, Undergraduate, 2020 - 2021

Anorganik Kimya II, Undergraduate, 2019 - 2020

İleri Anorganik Kimya , Postgraduate, 2020 - 2021

Anorganik Kimya Laboratuvarı, Undergraduate, 2019 - 2020

Proje I, Undergraduate, 2019 - 2020

İleri Anorganik Kimya II, Postgraduate, 2019 - 2020

Transition Metal Nanoparticles in Catalysis, Undergraduate, 2019 - 2020

Anorganik Kimya I, Undergraduate, 2019 - 2020

Proje I, Undergraduate, 2018 - 2019

Proje II, Undergraduate, 2019 - 2020

İleri Anorganik kimya, Postgraduate, 2019 - 2020

Koordinasyon ve Kataliz, Undergraduate, 2018 - 2019

İleri Anorganik Kimya II, Postgraduate, 2018 - 2019

Anorganik Kimya Laboratuvarı, Undergraduate, 2018 - 2019

Genel Kimya, Undergraduate, 2017 - 2018

Anorganik Kimya I, Undergraduate, 2018 - 2019

Anorganik Kimya II, Undergraduate, 2018 - 2019

Anorganik Kimya III, Undergraduate, 2018 - 2019

## Advising Theses

Sevim M., FePD nanopartiküllerin basic Red 46 giderimindeki etkinlikleri, Postgraduate, F.GÜÇLÜ(Student), 2023  
Sevim M., AgNi nanopartiküllerinin sentezi ve amonyak boranın dehidrojenlenmesindeki katalitik etkinlikleri, Postgraduate, G.TURAN(Student), 2023  
Sevim M., Vulcan karbona tutturulmuş platinyum nanopartiküllerinin amonyak –boranın metanolizindeki katalitik etkinlikleri, Postgraduate, E.ŞEKİ(Student), 2022  
Sevim M., NiPt alaşım nanopartiküllerinin B-N-H tabanlı malzemelerdeki etkinliğinin incelenmesi, Postgraduate, F.KAPLAN(Student), 2019

## Jury Memberships

Doctorate, Doctorate, Atatürk Üniversitesi, November, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, September, 2022  
Post Graduate, Post Graduate, Atatürk Üniversitesi, January, 2022  
Doctorate, Doctorate, Atatürk Üniversitesi, October, 2021  
Doctoral Examination, Doctoral Examination, Atatürk Üniversitesi, May, 2021  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2021  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Atatürk Üniversitesi, January, 2021  
Post Graduate, B.SÜNDÜ, Atatürk Üniversitesi, November, 2018  
Post Graduate, T.Karaca, Atatürk Üniversitesi, July, 2018

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Usage of MnFe<sub>2</sub>O<sub>4</sub>-rGO Nanocomposite as efficient Fenton catalyst for Tetracycline removal by heterogeneous sono Fenton process: Characterizations, catalytic performance assessment, and mechanism**  
Karaca M., Karaca C., Eroğlu Z., SEVİM M., KARACA S.  
Materials Chemistry and Physics, vol.309, 2023 (SCI-Expanded)
- II. **Effect of carbon support on the activity of monodisperse Co<sub>45</sub>Pt<sub>55</sub> nanoparticles for oxygen evolution in alkaline media**  
Andrić S., Milikić J., SEVİM M., Santos D. M. F., Šljukić B.  
Frontiers in Chemistry, vol.11, 2023 (SCI-Expanded)
- III. **Analysis of the temperature dependent electrical parameters of the heterojunction obtained with Au nanoparticles decorated perovskite strontium titanate nanocubes**  
Tasyurek L. B., AYDOĞAN Ş., SEVİM M., ÇALDIRAN Z.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.914, 2022 (SCI-Expanded)
- IV. **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)
- V. **Synthesis of nickel nanoparticles-deposited strontium titanate nanocubes (Ni-STO) and heterojunction electrical applications over a wide temperature range**  
Tasyurek L. B., AYDOĞAN Ş., SEVİM M., ÇALDIRAN Z.  
MATERIALS SCIENCE AND ENGINEERING B-ADVANCED FUNCTIONAL SOLID-STATE MATERIALS, vol.274, 2021 (SCI-Expanded)
- VI. **The heterojunction diode application of mesoporous graphitic carbon nitride (mpg-C(3)N<sub>4</sub>)**

- Caldiran Z., Deniz A. R., Sevim M., Aydogan S.  
SUPERLATTICES AND MICROSTRUCTURES, vol.157, 2021 (SCI-Expanded)
- VII. **Strontium oxide modified mesoporous graphitic carbon nitride/titanium dioxide nanocomposites (SrO-mpg-CN/TiO<sub>2</sub>) as efficient heterojunction photocatalysts for the degradation of tetracycline in water**  
Kılıç D., Sevim M., Eroğlu Z., Metin Ö., Karaca S.  
Advanced Powder Technology, vol.32, no.8, pp.2743-2757, 2021 (SCI-Expanded)
- VIII. **Interface application of NiPt alloy nanoparticles decorated rGO nanocomposite to eliminate of contact problem between metal and inorganic/organic semiconductor**  
Baltakesmez A., SEVİM M., GÜZELDİR B., Aykaç C., Biber M.  
Journal of Alloys and Compounds, vol.867, 2021 (SCI-Expanded)
- IX. **A comparative study on the effect of monodisperse Au and Ag nanoparticles on the performance of organic photovoltaic devices**  
Kacus H., Metin O., SEVİM M., BİBER M., Baltakesmez A., AYDOĞAN Ş.  
OPTICAL MATERIALS, vol.116, 2021 (SCI-Expanded)
- X. **Nickel-palladium alloy nanoparticles supported on reduced graphene oxide decorated with metallic aluminum nanoparticles (Al-rGO/NiPd): A multifunctional catalyst for the transfer hydrogenation of nitroarenes and olefins using water as a hydrogen source**  
Dağalan Z., Behboudikhiavi S., Turgut M., Sevim M., Kasapoğlu A. E., Nişancı B., Metin Ö.  
Inorganic Chemistry Frontiers, vol.8, no.9, pp.2200-2212, 2021 (SCI-Expanded)
- XI. **Ketjen Black supported monodisperse nickel-platinum alloy nanoparticles for the efficient catalyst in the hydrolytic dehydrogenation of ammonia borane**  
SEVİM M., Kaplan F.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.35, no.2, 2021 (SCI-Expanded)
- XII. **Temperature dependent electronic transport properties of heterojunctions formed between perovskite SrTiO<sub>3</sub> nanocubes and silicon**  
Tasyurek L. B., AYDOĞAN Ş., SEVİM M., Caldiran Z.  
JOURNAL OF MATERIALS SCIENCE-MATERIALS IN ELECTRONICS, vol.31, no.23, pp.20833-20846, 2020 (SCI-Expanded)
- XIII. **Mesoporous graphitic carbon nitride-supported binary MPt (M: Co, Ni, Cu) nanoalloys as electrocatalysts for borohydride oxidation and hydrogen evolution reaction**  
Oliveira R. C. P., SEVİM M., Sljukic B., Sequeira C. A. C., Metin O., Santos D. M. F.  
CATALYSIS TODAY, vol.357, pp.291-301, 2020 (SCI-Expanded)
- XIV. **Analysis on the temperature dependent electrical properties of Cr/Graphene oxide-Fe<sub>3</sub>O<sub>4</sub> nanocomposites/n-Si heterojunction device**  
Gumus I., Metin O., SEVİM M., Aydogan Ş.  
DIAMOND AND RELATED MATERIALS, vol.108, 2020 (SCI-Expanded)
- XV. **Monodisperse NiPd alloy nanoparticles decorated on mesoporous graphitic carbon nitride as a catalyst for the highly efficient chemoselective reduction of alpha,beta-unsaturated ketone compounds**  
Bayrak C., MENZEK A., SEVİM M.  
NEW JOURNAL OF CHEMISTRY, vol.44, no.32, pp.13606-13612, 2020 (SCI-Expanded)
- XVI. **Photocatalytically Active Graphitic Carbon Nitride as an Effective and Safe 2D Material for In Vitro and In Vivo Photodynamic Therapy**  
Taheri H., ÜNAL M. A., SEVİM M., Gurcan C., EKİM O., Ceylan A., Syrgiannis Z., Christoforidis K. C., Bosi S., Ozgenc O., et al.  
SMALL, vol.16, no.10, 2020 (SCI-Expanded)
- XVII. **The power conversion efficiency optimization of the solar cells by doping of (Au:Ag) nanoparticles into P3HT:PCBM active layer prepared with chlorobenzene and chloroform solvents**  
KAÇUŞ H., AYDOĞAN Ş., BİBER M., METİN Ö., SEVİM M.  
MATERIALS RESEARCH EXPRESS, vol.6, no.9, 2019 (SCI-Expanded)

- XVIII. **Enhanced photocatalytic NO<sub>x</sub> oxidation and storage under visible-light irradiation by anchoring Fe<sub>3</sub>O<sub>4</sub> nanoparticles on mesoporous graphitic carbon nitride (mpg-C<sub>3</sub>N<sub>4</sub>)**  
Irfan M., SEVİM M., Kocak Y., Balci M., Metin O., Ozensoy E.  
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.249, pp.126-137, 2019 (SCI-Expanded)
- XIX. **MnO<sub>2</sub> nanowires anchored on mesoporous graphitic carbon nitride (MnO<sub>2</sub>@mpg-C<sub>3</sub>N<sub>4</sub>) as a highly efficient electrocatalyst for the oxygen evolution reaction**  
Elmaci G., Erturk A. S., SEVİM M., Metin O.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.33, pp.17995-18006, 2019 (SCI-Expanded)
- XX. **Binary CuPt alloy nanoparticles assembled on reduced graphene oxide-carbon black hybrid as efficient and cost-effective electrocatalyst for PEMFC**  
Yilmaz M., Kaplan B. Y., Gursel S. A., Metin O.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.27, pp.14184-14192, 2019 (SCI-Expanded)
- XXI. **PdNi alloy nanoparticles assembled on cobalt ferrite-carbon black composite as a fuel cell catalyst**  
Martins M., Metin O., Siljukic B., SEVİM M., Sequeira C., Santos D.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.44, no.27, pp.14193-14200, 2019 (SCI-Expanded)
- XXII. **Monodisperse CuPt alloy nanoparticles assembled on reduced graphene oxide as catalysts in the transfer hydrogenation of various functional organic groups**  
GANJEHYAN K., Nisanci B., SEVİM M., DAŞTAN A., Metin O.  
APPLIED ORGANOMETALLIC CHEMISTRY, vol.33, no.5, 2019 (SCI-Expanded)
- XXIII. **Protective Effect of Fe<sub>3</sub>O<sub>4</sub>-SiO<sub>2</sub>-NH<sub>2</sub>Nanocomposite Functionalized withBoronophenylalanine on GlutamateExcitotoxicity in Primary Cortical NeuronCell Culture**  
GÜNDOĞDU G., ÇETİN M., NALCI K. A., DEMİRKAYA MİLOĞLU F., SEVİM M., aydın b. ö., HACİMÜFTÜOĞLU A., METİN Ö.  
Neuroendocrinology, vol.107, no.1, pp.1-40, 2018 (SCI-Expanded)
- XXIV. **A facile synthesis and assembly of ultrasmall Pt nanoparticles on reduced graphene oxide carbon black hybrid for enhanced performance in PEMFC**  
Yilmaz M., Kaplan B. Y., Metin O., Gursel S. A.  
MATERIALS & DESIGN, vol.151, pp.29-36, 2018 (SCI-Expanded)
- XXV. **Monodisperse Pd nanoparticles assembled on reduced graphene oxide-Fe<sub>3</sub>O<sub>4</sub> nanocomposites as electrocatalysts for borohydride fuel cells**  
Martins M., Metin O., SEVİM M., Sljukic B., Sequeira C. A. C., SENER T., Santos D. M. F.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.43, no.23, pp.10686-10697, 2018 (SCI-Expanded)
- XXVI. **The synthesis of SrTiO<sub>3</sub> nanocubes and the analysis of nearly ideal diode application of Ni/SrTiO<sub>3</sub> nanocubes/n-Si heterojunctions**  
Tasyurek L. B., SEVİM M., Caldiran Z., AYDOĞAN Ş., METİN Ö.  
MATERIALS RESEARCH EXPRESS, vol.5, no.1, 2018 (SCI-Expanded)
- XXVII. **Heterogeneous sono-Fenton-like process using magnetic cobalt ferrite reduced graphene oxide (CoFe<sub>2</sub>O<sub>4</sub>-rGO) nanocomposite for the removal of organic dyes from aqueous solution**  
Hassani A., Celikdag G., Eghbali P., SEVİM M., KARACA S., Metin O.  
ULTRASONICS SONOCHEMISTRY, vol.40, pp.841-852, 2018 (SCI-Expanded)
- XXVIII. **Facile Synthesis of Monodisperse Copper-Platinum Alloy Nanoparticles and Their Superb Catalysis in the Hydrolytic Dehydrogenation of Ammonia Borane and Hydrazine Borane**  
Karaca T., SEVİM M., Metin O.  
CHEMCATCHEM, vol.9, no.22, pp.4185-4190, 2017 (SCI-Expanded)
- XXIX. **Bimetallic PdM (M = Fe, Ag, Au) alloy nanoparticles assembled on reduced graphene oxide as catalysts for direct borohydride fuel cells**  
Martins M., Sljukic B., Metin O., SEVİM M., Sequeira C. A. C., SENER T., Santos D. M. F.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.718, pp.204-214, 2017 (SCI-Expanded)
- XXX. **Gold Nanoparticles and Reduced Graphene Oxide-Gold Nanoparticle Composite Materials as Covalent Drug Delivery Systems for Breast Cancer Treatment**  
JAFARIZAD A., AGHANEJAD A., SEVİM M., Metin O., BARAR J., OMIDI Y., EKİNCİ D.

- CHEMISTRYSELECT, vol.2, no.23, pp.6663-6672, 2017 (SCI-Expanded)
- XXXI. **Three-Component Cascade Reaction in a Tube: In Situ Synthesis of Pd Nanoparticles Supported on mpg-C3N4, Dehydrogenation of Ammonia Borane and Hydrogenation of Nitroarenes**  
Nisançi B., TURGUT M., SEVİM M., Metin O.  
CHEMISTRYSELECT, vol.2, no.22, pp.6344-6349, 2017 (SCI-Expanded)
- XXXII. **Three-Component Cascade Reaction in a Pressure Tube: In-situ Generation of Palladium Nanoparticles Supported on Mesoporous Graphitic Carbon Nitride, Dehydrogenation of Ammonia Borane and Hydrogenation of Nitroarenes**  
NİŞANCI B., Turgut M., SEVİM M., METİN Ö.  
CHEMISTRYSELECT, vol.2, pp.6344-6349, 2017 (SCI-Expanded)
- XXXIII. **Three-Component Cascade Reaction in a Pressure Tube: In-situ Generation of Palladium Nanoparticles Supported on Mesoporous Graphitic Carbon Nitride, Dehydrogenation of Ammonia Borane and Hydrogenation of Nitroarenes**  
NİŞANCI B., Turgut M., SEVİM M., METİN Ö.  
CHEMISTRYSELECT, vol.2, pp.6344-6349, 2017 (SCI-Expanded)
- XXXIV. **Enhanced catalytic activity of monodispersed AgPd alloy nanoparticles assembled on mesoporous graphitic carbon nitride for the hydrolytic dehydrogenation of ammonia borane under sunlight**  
Kahri H., SEVİM M., Metin O.  
NANO RESEARCH, vol.10, no.5, pp.1627-1640, 2017 (SCI-Expanded)
- XXXV. **Reduced graphene oxide assembled Pd-based nanoalloys for hydrogen evolution reaction**  
Cardoso J. A. S. B., Amaral L., Metin O., Cardoso D. S. P., SEVİM M., SENER T., Sequeira C. A. C., Santos D. M. F.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.42, no.7, pp.3916-3925, 2017 (SCI-Expanded)
- XXXVI. **Bimetallic MPt (M: Co, Cu, Ni) alloy nanoparticles assembled on reduced graphene oxide as high performance cathode catalysts for rechargeable lithium-oxygen batteries**  
SEVİM M., FRANCIA C., AMICI J., VANKOVA S., SENER T., Metin O.  
JOURNAL OF ALLOYS AND COMPOUNDS, vol.683, pp.231-240, 2016 (SCI-Expanded)
- XXXVII. **Photocatalytic Activity of Mesoporous Graphitic Carbon Nitride (mpg-C3N4) Towards Organic Chromophores Under UV and VIS Light Illumination**  
Erdogan D. A., Sevim M., Kisa E., Emiroglu D. B., Karatok M., Vovk E. I., Bjerring M., Akbey U., Metin O., Ozensoy E.  
TOPICS IN CATALYSIS, vol.59, pp.1305-1318, 2016 (SCI-Expanded)
- XXXVIII. **Monodisperse MPd (M: Co, Ni, Cu) alloy nanoparticles supported on reduced graphene oxide as cathode catalysts for the lithium-air battery**  
Sevim M., Sener T., Metin O.  
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.34, pp.10876-10882, 2015 (SCI-Expanded)
- XXXIX. **Monodisperse CoFe2O4 nanoparticles supported on Vulcan XC-72: High performance electrode materials for lithium-air and lithium-ion batteries**  
Sener T., Kayhan E., Sevim M., Metin O.  
JOURNAL OF POWER SOURCES, vol.288, pp.36-41, 2015 (SCI-Expanded)
- XL. **Novel scorpion type phthalocyanine chemosensors for detection of selective-metal ion by inducing H- and J-aggregations in solution; synthesis, characterization and electrochemistry**  
Sevim M., Yarasir M. N., Koca A., Kandaz M.  
DYES AND PIGMENTS, vol.111, pp.190-201, 2014 (SCI-Expanded)

## Refereed Congress / Symposium Publications in Proceedings

- Optical and electrical characterization of organic solar cells obtained using gold and silver metal nanoparticles**  
Kacus H., Baltakesmez A., Caldıran Z., Aydogun Ş., Yılmaz M., Sevim M.  
2nd International Congress on Semiconductor Materials and Devices (ICSMD), Ardahan, Turkey, 28 - 30 August 2018, vol.46, pp.6986-6990

- II. **Manyetik Olarak Geri Kazanılabilen İndirgenmiş Grafen OksiteTutturulmuş Bimetalik Nikel-Paladyum Alaşım Nanopartikülünün Sentezive C-H Arilasyon Tepkimelerinde Katalitik Etkinliğinin Araştırılması**  
ZOZİK Y., SEVİM M., KILIÇ H., METİN Ö.  
32. Ulusal Kimya Kongresi, Turkey, 17 - 19 September 2020, pp.31
- III. **Transition Metal Nanoparticles Supported on Metallic Aluminum Nanoparticles Intercalated Two-Dimensional Carbon Support Materials as Catalysts for the New Generation of Transfer Hydrogenation Reactions**  
Dağalan Z., Behboudikhiavi S., Turgut M., SEVİM M., NİŞANCI B., METİN Ö.  
8. International Drug Chemistry Conference, 27 February - 01 March 2020
- IV. **mpg-C3N4 Supported NiPt Alloy Nanoparticles: Efficient Heterogeneous Catalyst for the Transfer Hydrogenation of Nitroarenes**  
SEVİM M., EBİRİ R.  
EastWest Chemistry Conference, 13 - 15 November 2019
- V. **Reduced graphene oxide supported monodisperse Ni-Pd core-shell nanoparticles as a highly efficient and reusable heterogeneous catalyst for the Suzuki-Miyaura coupling and C-H bond arylation reactions**  
METİN Ö., KILIÇ H., TURGUT M., SEVİM M.  
12th International Symposium on Heterogeneous Catalysis Catalysis: a motor of economy, Sofija, Bulgaria, 26 August 2018 - 29 August 2019
- VI. **Magnetic ZnFe2O4/rGO Nanocatalyst for the removal of organic dyes from aqueous solution**  
SEVİM M., Eroğlu Z., Karaca C., KARACA S.  
47th IUPAC WORLD CHEMISTRY CONGRESS, Paris, France, 07 June 2019, pp.1715
- VII. **Improving The Device Performance Of The Organic Solar Cells Using 1 Ratio Gold and Silver Nanoparticles**  
HATİCE K., BALTAKESMEZ A., ÇALDIRAN Z., AYDOĞAN Ş., YILMAZ M., SEVİM M.  
International Congress on Semiconductor Materials and Devices (ICSMD-2018), 28 - 30 August 2018
- VIII. **SrTiO3-Supported NiPd Alloy Nanoparticles: A Novel and HighlyEfficient Heterogeneous Catalyst for the Transfer Hydrogenation ofNitroarenes**  
SÜNDÜ B., EROĞLU z., SEVİM M., METİN Ö.  
Organic Chemistry-4, 4 - 07 October 2018
- IX. **Reduced Graphene Oxide Supported Cu3Pt AlloyNanoparticles: A Novel and Highly EfficientHeterogeneous Catalyst System for TransferHydrogenation**  
GANJEHYAN K., NİŞANCI B., SEVİM M., DAŞTAN A., METİN Ö.  
4th Organic Chemistry Congress WITH international participation, 4 - 07 October 2018
- X. **THE ELECTRICAL CHARACTERIZATION OF Ni/SrTiO3/n-Si/AlHETEROJUNCTION DEVICE**  
TAŞYÜREK L. B., ÇALDIRAN Z., KAÇUŞ H., SEVİM M., METİN Ö., AYDOĞAN Ş.  
ICSMD 2018, 28 - 30 August 2018
- XI. **-The Effect of Fe3O4 Nanoparticles on the Power Conversion Efficiency of P3HT:PCBM Based Organic Solar Cells**  
ÇALDIRAN Z., SEVİM M., DENİZ A. R., BİBER M., METİN Ö., AYDOĞAN Ş.  
International Congress on Semiconductor Materials and Devices (ICSMD-2017), 17 - 19 August 2017
- XII. **Electrical Characterization of Au/CuPd-SrTiO3/n-Si/Al Heterojunction Device**  
TAŞYÜREK L. B., SEVİM M., HATİCE K., ŞAHİN Y., ÇALDIRAN Z., AYDOĞAN Ş.  
International Congress on Semiconductor Materials and Devices (ICSMD-2017), 17 - 19 August 2017
- XIII. **-The Heterojunction Diode Application of Bulk Graphitic Carbon Nitride**  
ÇALDIRAN Z., SEVİM M., METİN Ö., AYDOĞAN Ş.  
International Congress on Semiconductor Materials and Devices (ICSMD-2017), 17 - 19 August 2017
- XIV. **In situ synthesis of NiPd@SrTiO3 Nanocomposites and Their Catalysis in the Dehydrogenation of Ammonia-Borane**  
SÜNDÜ B., SEVİM M., METİN Ö.  
EUROPACAT 2017, 27 - 31 August 2017

- XV. **A Facile Synthesis of Monodisperse  $Cu_xPt_{1-x}$  Alloy Nanoparticles and Their Superb Catalysis in the Dehydrogenation of B-N Based Chemical Hydrogen Storage Materials**  
Karaca T., SEVİM M., METİN Ö.  
EUROPACAT 2017, 27 - 31 August 2017
- XVI. **In-situ Generated Palladium Nanoparticles Supported on Mesoporous Graphitic Carbon Nitride: A Highly Efficient and Reusable Nanocatalysts for the Transfer Hydrogenation of Nitroarenes**  
KARACA T., TURGUT M., SEVİM M., NIŞANCI B., METİN Ö.  
EUROPACAT 2017, 27 - 31 August 2017
- XVII. **Ultra-small Pt nanoparticles assembled on reduced graphene oxide based hybrid materials as highly efficient electrocatalysts for polymer electrolyte membrane fuel cells**  
SEVİM M., YARAR KAPLAN B., ALKAN GÜRSEL S., METİN Ö.  
EUROPACAT 2017, 27 - 31 August 2017
- XVIII. **The Heterojunction Diode Application of Bulk Graphitic Carbon Nitride, International Congress on Semiconductor Materials and Devices**  
ÇALDIRAN Z., SEVİM M., METİN Ö., AYDOĞAN Ş.  
ICSMD, 17 - 19 August 2017
- XIX. **The Effect of  $Fe_3O_4$  Nanoparticles on the Power Conversion Efficiency of P3HT: PCBM Based Organic Solar Cells, International Congress on Semiconductor Materials and Devices**  
ÇALDIRAN Z., SEVİM M., DENİZ A. R., BİBER M., METİN Ö., AYDOĞAN Ş.  
ICSMD, 17 August 1917 - 19 August 2017
- XX. **Reduced graphene oxide on assembled Bimetallic PdM (M = Fe, Ag, Au) alloy nanoparticles as high-performance electrocatalysts for direct borohydride fuel cells**  
METİN Ö., SEVİM M., Martins M., Sljukic B., Santos D.  
2nd International Hydrogen Technologies Congress, 15 - 18 March 2017
- XXI. **Bimetallic PdM (M = Au, Fe,) alloy nanoparticles assembled on reduced graphene oxide as highly efficient catalysts for hydrogen evolution reaction**  
SEVİM M., CARDOSO J., CARDOSO D., SANTOS D. M., METİN Ö.  
2nd International Hydrogen Technologies Congress, 15 - 18 March 2017
- XXII. **Monodisperse Pd nanoparticles assembled on reduced graphene oxide  $Fe_3O_4$  nanocomposites as high-performance electrocatalysts for borohydride fuel cells**  
SÜNDÜ B., SEVİM M., Martins M., Sljukic B., Santos D. M., METİN Ö.  
2nd International Hydrogen Technologies Congress, 15 - 18 March 2017
- XXIII. **Unprecedented Catalytic Performance of AgPd Alloy Nanoparticles Over Mesoporous Graphitic Carbon Nitride for the Dehydrogenation of Ammonia Borane Under Sunlight**  
SEVİM M., KAHRİ H., METİN Ö.  
3rd Emerging 2D Materials & Graphene Conference from Laboratory to Industry 2016, Erzurum, Turkey, 20 - 21 October 2016
- XXIV. **İndirgenmiş Grafen Oksite Desteklenmiş MPd M Ni Cu ve Co Nanoparçacıkların Li Hava Bataryalarında Yüksek Performanslı Elektrot Materyali Olarak Kullanılması**  
SEVİM M., ŞENER T., KAYHAN E., METİN Ö.  
27.Ulusal Kimya Kongresi, Çanakkale, Turkey, 23 August - 28 May 2015
- XXV. **Grafen Oksit Kobalt Ferrit Manyetik Nanokompozitlerinin Hazırlanması ve Atık Sulardan Organik Boya Giderimi Performanslarının İncelenmesi**  
ÇELİKDAĞ G., SEVİM M., MERAL K., METİN Ö.  
5.Ulusal Anorganik Kimya Kongresi, Turkey, 22 - 25 April 2015
- XXVI. **Lityum Hava ve Lityum İyon Bataryaları İçin Yüksek Performanslı Elektrot Materyali Geliştirilmesi**  
SEVİM M., ŞENER T., KAYHAN E., METİN Ö.  
5.Ulusal Anorganik Kimya Kongresi, Turkey, 22 - 25 April 2015
- XXVII. **İndirgenmiş Grafen Oksite Desteklenmiş FePd Alaşım Nanopartiküllerinin Amonyak Boranın Dehidrojenlenmesinde Katalitik Etkinlikleri**  
GÜNEŞ H., SEVİM M., METİN Ö.



5.Ulusal Anorganik Kimya Kongresi, Mersin, Turkey, 22 - 25 April 2015

**XXVIII. Mitoxantron Sonlu Nano Altın Parçacıkların Sentezi**

Jafarizad A., SEVİM M., METİN Ö., Omidı Y., EKİNCİ D.

3.İlaç Kimyası Kongresi, Turkey, 20 - 22 March 2015

## Supported Projects

ÖZ E., SEVİM M., Project Supported by Higher Education Institutions, Molibden dopingi ile yapısal olarak kararlılığı artırılmış Sodyum iyon katot materyali sentezi fiziksel ve elektrokimyasal karakterizasyonu, 2023 - Continues

SEVİM M., GÜÇLÜ F., Project Supported by Higher Education Institutions, FePd Nanopartiküllerinin Basic Red 46 Giderimindeki Etkinlikleri, 2022 - 2024

SEVİM M., TURAN G., Project Supported by Higher Education Institutions, AgNi Nanopartiküllerinin Sentezi ve Amonyak Boranın Dehidrojenlenmesindeki Etkinlikleri, 2022 - 2023

Bayır Y., Hancı H., Yücelik Ş. S., Erkayman B., Albayrak A., Bilen H., Metin Ö., Sevim M., Selli J., TUBITAK Project, Sıçanlarda İkinci Derece Yanık İyileşmesinde Borik Asit ve Çinko Borat Katkılı Grafen Hidrojellerin Etkilerinin Araştırılması, 2020 - 2023

Metin Ö., Bilen H., Albayrak A., Selli J., Sevim M., Erkayman B., Hancı H., Yücelik Ş. S., Bayır Y., TUBITAK Project, 2023 - TUBITAK 1001 - Sıçanlarda İkinci Derece Yanık İyileşmesinde Borik Asit ve Çinko Borat Katkılı Grafen Hidrojellerin Etkilerinin Araştırılması . TÜBİTAK 1001 Araştırma Fonu Projesi, Proje ID: 119S510, DANIŞMAN, 2020 - 2023

Kılıç H., Sevim M., TUBITAK Project, Manyetik Olarak Geri Kazanılabilen İndirgenmiş Grafen Oksite Tutturulmuş Bimetalik M-Paladyum (M: Co, Ni, Cu) Alaşım Nanopartiküllerinin Sentezi ve C-H Arilasyon/Alkilasyon Tepkimelerinde Katalitik Etkinliklerinin Araştırılması, 2019 - 2022

AKBULUT N., MENZEK A., DAŞTAN A., EKİNCİ D., KILIÇ H., ÖZDEMİR H., KAZAZ C., SARAÇOĞLU N., ONGANER Y., ŞAHİN E., et al., Project Supported by Higher Education Institutions, Kimya Bölümünün Akademik Araştırma Potansiyelinin Geliştirilmesi, 2019 - 2021

Nişancı B., Sevim M., TUBITAK Project, Metalik Alüminyum Nanopartikülleri İle Arakatılanmış İki Boyutlu Karbon Malzemelerine Destekli Geçiş Metal Nanopartikülleri Katalizörlüğünde Yeni Nesil Transfer Hidrojenasyon Tepkimeleri, 2019 - 2021

SEVİM M., EROĞLU Z., KARACA C., KARACA M., KARACA S., Project Supported by Higher Education Institutions, Karbon Destekli Manyetik Nanokompozitler Kullanılarak Atık Sulardan Organik Kirleticilerin Fenton Prosesiyle Uzaklaştırılması, 2018 - 2020

METİN Ö., ZAIER I., SEVİM YILMAZ M., Project Supported by Higher Education Institutions, ŞARJ EDİLEBİLİR LİTYUM-İYON BATARYALARI İÇİN YÜKSEK PERFORMANSLI ELEKTROT MATERYALLERİNİN GELİŞTİRİLMESİ, 2016 - 2018

METİN Ö., ÇELİKDAĞ G., SEVİM M., Project Supported by Higher Education Institutions, MANYETİK OLARAK GERİ KAZANILABİLEN GRAFEN/GRAFEN OKSİT TEMELLİ NANOKOMPOZİTLERİNİN SENTEZİ VE SULU ÇÖZELTİDEN ORGANİK BOYALARIN GİDERİMİNDE PERFORMANSLARI, 2015 - 2017

## Activities in Scientific Journals

AtaChem, Advisory Committee Member, 2021 - Continues

## Scientific Refereeing

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey,

October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, October 2022

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, October 2022

ACS APPLIED ENERGY MATERIALS, Journal Indexed in SSCI, August 2022

SCIENTIFIC REPORTS, Journal Indexed in SSCI, June 2022

Technopark, Ataturk University, Turkey, April 2022

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, November 2021

Industrial Thesis Project, Inonu University, Turkey, November 2021

Project Supported by Higher Education Institutions, BAP Research Project, Van Yüzüncü Yil University, Turkey, October 2021

ARABIAN JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, August 2021

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, August 2021

JOURNAL OF THE TURKISH CHEMICAL SOCIETY, SECTION A: CHEMISTRY, National Scientific Refreed Journal, May 2021

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, May 2021

AFYON KOCATEPE ÜNİVERSİTESİ FEN VE MÜHENDİSLİK BİLİMLERİ DERGİSİ, National Scientific Refreed Journal, May 2021

Muğla Journal of Science and Technology, Other Journals, April 2021

NANOTECHNOLOGY, Journal Indexed in SCI-E, March 2021

Technopark, Ataturk University, Turkey, March 2021

TURKISH JOURNAL OF CHEMISTRY, Journal Indexed in SCI-E, February 2021

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, February 2021

SAKARYA ÜNİVERSİTY JOURNAL OF SCIENCE, National Scientific Refreed Journal, July 2020

İĞDIR ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, July 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SSCI, July 2020

Project Supported by Higher Education Institutions, BAP Research Project, Ataturk University, Turkey, July 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SSCI, March 2020

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Ataturk University, Turkey, February 2020

TUBITAK Project, 2209-A - Üniversite Öğrencileri Araştırma Projeleri Destekleme Programı, Ataturk University, Turkey, February 2020

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, Journal Indexed in SSCI, January 2020

Turkish Journal of Chemistry, SCI Journal, August 2019

Project Supported by Higher Education Institutions, August 2019

Aksaray Journal of Science and Engineering, National Scientific Refreed Journal, April 2019

Turkish Journal of Chemistry, SCI Journal, March 2019

Aksaray Journal of Science and Engineering, National Scientific Refreed Journal, December 2018

## Tasks In Event Organizations

Öznülüer Özer T., Kishalı N., Tanrıverdi Eçik E., Şenkuytu E., Sevim M., Çepni E., Yeni Nesil Kimyasal Sensörler, Workshop Organization, Turkey, Aralık 2022

Öznülüer Özer T., Şenkuytu E., Kishalı N., Sevim M., Tanrıverdi Eçik E., Atmaca U., Çepni E., Bayrakçeken Nişancı F., Topçu E., Kılıç H., et al, KİMYADAN GÜZELLİĞE:KOZMETİK, Workshop Organization, Erzurum, Turkey, Kasım 2022

Tanrıverdi Eçik E., METE E., ŞENKUYTU E., ÖZNÜLÜER ÖZER T., KILIÇ D., SEVİM M., KİMYACILAR İÇİN KARİYER YOLCULUĞU, Workshop Organization, Erzurum, Turkey, Kasım 2022

Vangözü S. Y., Kadiođlu Y., Mavi A., Çetin M., Alanyalıođlu M., Ceyhun S. B., Ekinci D., Erat M., Karacalı T., Öznülüer Özer T., et al., World Congress on Applied Nanotechnology, Scientific Congress, Erzurum, Turkey, Kasım 2021

## Metrics

Publication: 74

Citation (WoS): 1097

Citation (Scopus): 1185

H-Index (WoS): 21

H-Index (Scopus): 21

## Congress and Symposium Activities

ACC-2023, Attendee, İstanbul, Turkey, 2023

Kromotografi Kongresi, Attendee, Aydın, Turkey, 2023

31. Ulusal Kimya Kongresi, Attendee, İstanbul, Turkey, 2019

IUPAC 2019, Attendee, Paris, France, 2019

4th International Hydrogen Technologies Congress,, Attendee, Edirne, Turkey, 2019

Catalysis Conference, Attendee, Sofija, Bulgaria, 2018

II. International Conference on Advanced Engineering Technologies, Attendee, Turkey, 2017

Europacat 2017, Attendee, Florence, Italy, 2017

International Congress on Semiconductor Materials and Devices, ICSMD, Attendee, Turkey, 2017

2nd International Hydrogen Technologies Congress,, Attendee, Turkey, 2017

Graphene 3rd Emerging 2D Materials& Graphene Conference, Attendee, Turkey, 2016

28.Ulusal Kimya Kongresi, Attendee, Turkey, 2016

27.Ulusal Kimya Kongresi, Attendee, Turkey, 2015

5.Ulusal Anorganik Kimya Kongresi, Attendee, Turkey, 2015

3. İlaç Kimyası Kongresi, Attendee, Turkey, 2015

XII International Conference on Nanostructured Materials (NANO 2014), Attendee, Moscow, Russia, 2014

IV.National Inorganic Chemistry Congress, Attendee, Turkey, 2013

## Scholarships

Yurtiçi doktora bursu, TÜBİTAK, 2014 - 2018

## Awards

SEVİM M., Genç Arařtırmacı Ödülü, Hidrojen Teknolojileri Derneęi, June 2019

SEVİM M., EN İYİ İKİNCİ POSTER ÖDÜLÜ, ULUSAL KİMYA KONGRESİ, August 2016

### **Non Academic Experience**

University, Georgia Institute of Technology, Material Science

Other Public Institution, Tübitak Mam