

Assoc. Prof. Önder METİN

Personal Information

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Biography

Education: Dr. Önder Metin received his B.Sc degree in Chemistry from Cukurova University in **2002**, M.Sc degree in **2006** and Ph.D degree in **2010** at Department of Chemistry, Inorganic Chemistry, Middle East Technical University. During his PhD studies, he studied as a TUBITAK research fellow at Department of Chemistry, Brown University (Rhode Island/USA) in **2009** and at Inorganic Chemistry Research Institute, Darmstadt Technical University in **2010**. Next, he moved to Department of Chemistry, Atatürk University as an Assistant Professor in **2011**. He then joined the research group of Prof. Shouheng Sun as a Post-Doctoral Research Associate in **2012** for one year. After post-doctoral studies, he turned back to Atatürk University and promoted to the Associate Professor degree in **2013**.

Awards&Honors: Dr. Önder Metin has received numerous scientific awards and honors which of are selected; (i) Science Hero Association “The Young Scientist of the Year 2016” (ii) Science Academy “Outstanding Young Scientist Award”, 2017, (iii) Feyzi Akkaya Science Foundation (FABED), “Eser Tumen Outstanding Young Scientist Award”, 2015, (iv) The Prize Given for the Horizon-2020 Project Proposals Being above the Threshold of Consciousness, TUBITAK, 2015. (v) Turkish Academy of Sciences “The Highly Successful Young Scientists Award” (TÜBA-GEBİP), 2014. (vi) Middle East Technical University Prof. Dr. Mustafa N. PARLAR Education and Research Foundation Awards “Research Encouragement Award”, 2013, (vii) The Scientific and Technological Research Council of Turkey Fellow to attend “63rd Lindau Nobel Laureates Meeting”, Lindau, Germany, 2013, (viii) The Post-Doctoral Research Associate, Department of Chemistry, Brown University, (2012-2013), (ix) The 9th of Serhat ÖZYAR ‘Young Scientist of the Year Prize’, Middle East Technical University (2011).

Academic Performance: Dr. Önder Metin has published 60 scientific papers with the total citations more than 2700 and h-index= 26. He has delivered more than 38 talks in the national and international conferences, meetings and at different institutes. He is a member of Turkish Catalysis Society, Turkish Chemical Society and Chemists Society.

Education Information

Post Doctorate, Brown University, Fen Fakültesi, Kimya, United States Of America 2012 - 2013

Doctorate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Kimya, Turkey 2006 - 2010

Postgraduate, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Kimya, Turkey 2004 - 2006

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Kimya, Turkey 1998 - 2002

Foreign Languages

English, C1 Advanced

Research Areas

Chemistry, Inorganic Chemistry, Transition Metals, Inorganic Reaction Mechanisms and Kinetics, Catalysis, Coordination Chemistry, nanoclusters, Clusters/Solids and Surfaces, Natural Sciences

Academic and Administrative Experience

Atatürk Üniversitesi, Fen Fakültesi, 2016 - Continues

Atatürk Üniversitesi, Akademik Teşvik Üst Komisyonu, 2015 - Continues

Atatürk Üniversitesi, Doğu Anadolu Yüksek Teknoloji Uygulama Ve Araştırma Merkezi, 2015 - 2017

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Tailoring the redox ability of carbon nitride quantum dots/reduced graphene oxide-black phosphorus (CNQDs@rGOBP) ternary heterojunctions for photodegradation of organic pollutants**
Eroglu Z., Sündü B., Metin O.
Materials Today Sustainability, vol.23, 2023 (SCI-Expanded)
- II. **Boosting Tetracycline Degradation with an S-Scheme Heterojunction of N-Doped Carbon Quantum Dots-Decorated TiO₂**
Karaca M., Eroglu Z., AÇIŞLI Ö., Metin O., KARACA S.
ACS OMEGA, vol.8, no.29, pp.26597-26609, 2023 (SCI-Expanded)
- III. **A facile preparation of graphene hydrogel-supported bimetallic RuM (M: Co, Ni, Cu) nanoparticles as catalysts in the hydrogen generation from ammonia borane**
Zaier I., Eroglu Z., Metin Ö.
Pure and Applied Chemistry, vol.95, no.6, pp.655-669, 2023 (SCI-Expanded)
- IV. **Black Phosphorus Quantum Dots/Carbon Nitride-Reduced Graphene Oxide Ternary Heterojunction as a Multifunctional Metal-Free Photocatalyst for Photooxidation Reactions**
Eroglu Z., Ozer M. S., Metin O.
ACS Sustainable Chemistry and Engineering, vol.11, no.19, pp.7560-7572, 2023 (SCI-Expanded)
- V. **Internal Interactions within the Complex Type-II Heterojunction of a Graphitic Carbon Nitride/Black Phosphorus Hybrid Decorated with Graphene Quantum Dots: Implications for Photooxidation Performance**
Eroglu Z., Metin O.
ACS Applied Nano Materials, vol.6, no.9, pp.7960-7974, 2023 (SCI-Expanded)
- VI. **Femtosecond laser-mediated preparation of HfNbTaTiZr refractory high-entropy alloy nanoparticles for photothermal therapy applications: Influence of solvent and fluence**
Jahangiri H., Morova Y., Asghari Alamdari A., Eroğlu Z., Sennaroğlu A., Guo S., Metin O., Motallebzadeh A.
Intermetallics, vol.156, 2023 (SCI-Expanded)
- VII. **Enhanced hydrogen evolution via in situ generated 2D black phosphorous nanocomposites at the liquid/liquid interfaces**
Aslan E., Eroglu Z., Yanalak G., Metin O., HATAY PATIR İ.
APPLIED SURFACE SCIENCE, vol.604, 2022 (SCI-Expanded)
- VIII. **One-pot synthesis of graphene hydrogel/M (M: Cu, Co, Ni) nanocomposites as cathodes for electrochemical removal of rifampicin from polluted water**
Ebratkhahan M., Zarei M., Zaier Akpınar I., Metin Ö.
Environmental Research, vol.214, 2022 (SCI-Expanded)
- IX. **Transition metal (Ni, Co)-doped graphitic carbon nitride/MoS₂ heterojunctions as efficient photocatalysts for hydrogen evolution reaction under visible light**
Yanalak G., Yılmaz S., Eroglu Z., Aslan E., Metin O., HATAY PATIR İ.

INTERNATIONAL JOURNAL OF ENERGY RESEARCH, vol.46, no.12, pp.17189-17203, 2022 (SCI-Expanded)

- X. **Photocatalytic hydrogen evolution performance of metal ferrites /polypyrrole nanocomposites**
Chamani S., Sadeghi E., Peighambaroust N. S., Doganay F., Yanalak G., Eroglu Z., Aslan E., Asghari E., Metin O., HATAY PATIR İ., et al.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.47, no.77, pp.32940-32954, 2022 (SCI-Expanded)
- XI. **A facile synthesis of monodisperse cobalt-ruthenium alloy nanoparticles as catalysts for the dehydrogenation of morpholine borane and the hydrogenation of various organic compounds**
CAN H., Can S., Ebiri R., Metin O.
NEW JOURNAL OF CHEMISTRY, vol.46, no.25, pp.12120-12131, 2022 (SCI-Expanded)
- XII. **Bismuthene as a versatile photocatalyst operating under variable conditions for the photoredox C-H bond functionalization**
Ozer M. S., Eroglu Z., Yalin A. S., Kilic M., Rothlisberger U., Metin O.
APPLIED CATALYSIS B-ENVIRONMENTAL, vol.304, 2022 (SCI-Expanded)
- XIII. **A NIR-light-driven Black Phosphorus Based Nanocomposite for Combating Bacteria**
Cekceoglu I. A., Eroglu Z., Kucukkececi H., SEVGİ F., ERSÖZ M., HATAY PATIR İ., Metin O.
CHEMISTRYSELECT, vol.7, no.6, 2022 (SCI-Expanded)
- XIV. **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)
- XV. **One-pot synthesis of graphene hydrogel-anchored cobalt-copper nanoparticles and their catalysis in hydrogen generation from ammonia borane**
Zaier I., Metin O.
TURKISH JOURNAL OF CHEMISTRY, vol.45, no.6, pp.1725-1738, 2021 (SCI-Expanded)
- XVI. **Exfoliated black phosphorous-mediated CuAAC chemistry for organic and macromolecular synthesis under white LED and near-IR irradiation**
Kocaarslan A., Eroglu Z., Metin O., Yağcı Y.
BEILSTEIN JOURNAL OF ORGANIC CHEMISTRY, vol.17, pp.2477-2487, 2021 (SCI-Expanded)
- XVII. **Unveiling the catalytic nature of palladium-N-heterocyclic carbene catalysts in the alpha-alkylation of ketones with primary alcohols**
Ovezova M., Eroglu Z., Metin O., Cetinkaya B., GÜLCEMAL S.
DALTON TRANSACTIONS, vol.50, pp.10896-10908, 2021 (SCI-Expanded)
- XVIII. **Ternary nanocomposites of mesoporous graphitic carbon nitride/black phosphorus/gold nanoparticles (mpg-CN/BP-Au) for photocatalytic hydrogen evolution and electrochemical sensing of paracetamol**
Yanalak G., Doganay F., Eroglu Z., Kucukkececi H., Aslan E., ÖZMEN M., Bas S. Z., Metin O., HATAY PATIR İ.
APPLIED SURFACE SCIENCE, vol.557, 2021 (SCI-Expanded)
- XIX. **Expanding the Scope of 2D Black Phosphorus Catalysis to the Near-Infrared Light Initiated Free Radical Photopolymerization**
Kocaarslan A., Eroglu Z., Yilmaz G., Metin O., Yağcı Y.
ACS MACRO LETTERS, vol.10, no.6, pp.679-683, 2021 (SCI-Expanded)
- XX. **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)
- XXI. **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)
- XXII. **Strontium titanate nanocubes assembled on mesoporous graphitic carbon nitride (SrTiO₃/mpg-C₃N₄): Preparation, characterization and catalytic performance**

- Eghbali P., Hassani A., Sundu B., Metin O.
JOURNAL OF MOLECULAR LIQUIDS, vol.290, 2019 (SCI-Expanded)
- XXIII. **Silica Coated ZnFe₂O₄ Nanoparticles as Cathode Catalysts for Rechargeable Lithium- Air Batteries**
Yilmaz M. S., Coskun M., Sener T., Metin O.
BATTERIES & SUPERCAPS, vol.2, no.4, pp.380-386, 2019 (SCI-Expanded)
- XXIV. **Sonocatalytic removal of methylene blue from water solution by cobalt ferrite/mesoporous graphitic carbon nitride (CoFe₂O₄/mpg-C₃N₄) nanocomposites: response surface methodology approach**
Hassani A., Eghbali P., Metin O.
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.25, no.32, pp.32140-32155, 2018 (SCI-Expanded)
- XXV. **Monodisperse Ni@Pd Core@Shell Nanoparticles Assembled on Reduced Graphene Oxide as a Highly Efficient and Reusable Heterogeneous Catalyst for the C-H Bond Arylation of Imidazo[1,2-a]pyridine with Aryl Halides**
KILIÇ H., TURGUT M., Yilmaz M. S., DALKILIC O., Metin O.
ACS SUSTAINABLE CHEMISTRY & ENGINEERING, vol.6, no.9, pp.11433-11440, 2018 (SCI-Expanded)
- XXVI. **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)
- XXVII. **Monodisperse cobalt ferrite nanoparticles assembled on mesoporous graphitic carbon nitride (CoFe₂O₄/mpg-C₃N₄): A magnetically recoverable nanocomposite for the photocatalytic degradation of organic dyes**
Hassani A., Eghbali P., EKİCİBİL A., METİN Ö.
JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, vol.456, pp.400-412, 2018 (SCI-Expanded)
- XXVIII. **Monodisperse Pd nanoparticles assembled on reduced graphene oxide-Fe₃O₄ 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)
- XXIX. **Graphene hydrogel supported palladium nanoparticles as an efficient and reusable heterogeneous catalysts in the transfer hydrogenation of nitroarenes using ammonia borane as a hydrogen source**
Eghbali P., Nisanci B., METİN Ö.
PURE AND APPLIED CHEMISTRY, vol.90, no.2, pp.327-335, 2018 (SCI-Expanded)
- XXX. **Graphene hydrogel supported palladium nanoparticles as an efficient and reusable heterogeneous catalysts in the transfer hydrogenation of nitroarenes using ammonia borane as a hydrogen source**
NİŞANCI B., Eghbali P., METİN Ö.
PURE AND APPLIED CHEMISTRY, vol.90, no.2, pp.327-335, 2018 (SCI-Expanded)
- XXXI. **Heterogeneous sono-Fenton-like process using magnetic cobalt ferrite reduced graphene oxide (CoFe₂O₄-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)
- XXXII. **The synthesis of SrTiO₃ nanocubes and the analysis of nearly ideal diode application of Ni/SrTiO₃ 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)
- XXXIII. **One-pot reductive amination of aldehydes with nitroarenes using formic acid as the hydrogen donor and mesoporous graphitic carbon nitride supported AgPd alloy nanoparticles as the heterogeneous catalyst**
Ergen S., Nişanci B., Metin Ö.
New Journal of Chemistry, vol.42, no.12, pp.10000-10006, 2018 (SCI-Expanded)
- XXXIV. **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)

- XXXV. **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)
- XXXVI. **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)
- XXXVII. **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**
Nisanci B., TURGUT M., SEVİM M., Metin O.
CHEMISTRYSELECT, vol.2, no.22, pp.6344-6349, 2017 (SCI-Expanded)
- XXXVIII. **Monodisperse Ag/Pd core/shell nanoparticles assembled on reduced graphene oxide as highly efficient catalysts for the transfer hydrogenation of nitroarenes**
Metin O., CAN H., ŞENDİL K., GÜLTEKİN M. S.
JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.498, pp.378-386, 2017 (SCI-Expanded)
- XXXIX. **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)
- XL. **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)
- XLI. **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)
- XLII. **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)
- XLIII. **Improving the performance of the organic solar cell and the inorganic heterojunction devices using monodisperse Fe₃O₄ nanoparticles**
Caldiran Z., Biber M., Metin O., AYDOĞAN Ş.
OPTİK, vol.142, pp.134-143, 2017 (SCI-Expanded)
- XLIV. **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)
- XLV. **Photocatalytic Activity of Mesoporous Graphitic Carbon Nitride (mpg-C₃N₄) Towards Organic Chromophores Under UV and VIS Light Illumination**
Erdogan D. A., SEVİM 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)
- XLVI. **Biobased carbon-supported palladium electrocatalysts for borohydride fuel cells**
Martins M., Sljukic B., Sequeira C. A. C., Metin O., Erdem M., SENER T., Santos D. M. F.
INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.41, no.25, pp.10914-10922, 2016 (SCI-Expanded)
- XLVII. **The investigation of the electrical properties of Fe₃O₄/n-Si heterojunctions in a wide temperature**

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Deniz A. R., ÇALDIRAN Z., Metin O., Meral K., AYDOĞAN Ş.

JOURNAL OF COLLOID AND INTERFACE SCIENCE, vol.473, pp.172-181, 2016 (SCI-Expanded)

- XLVIII. **The interaction of fluorescent Pyronin Y molecules with monodisperse silver nanoparticles in chloroform**

ŞENOL A. M., Metin O., Acar M., ONGANER Y., Meral K.

JOURNAL OF MOLECULAR STRUCTURE, vol.1103, pp.212-216, 2016 (SCI-Expanded)

- XLIX. **FePd alloy nanoparticles assembled on reduced graphene oxide as a catalyst for selective transfer hydrogenation of nitroarenes to anilines using ammonia borane as a hydrogen source**

Metin O., Mendoza-Garcia A., DALMIZRAK D., GÜLTEKİN M. S., Sun S.

CATALYSIS SCIENCE & TECHNOLOGY, vol.6, no.15, pp.6137-6143, 2016 (SCI-Expanded)

- L. **Reduced graphene oxide supported nickel-palladium alloy nanoparticles as a superior catalyst for the hydrogenation of alkenes and alkynes under ambient conditions**

Cetinkaya Y., Metin O., Balci M.

RSC ADVANCES, vol.6, no.34, pp.28538-28542, 2016 (SCI-Expanded)

- LI. **Graphene-supported NiPd alloy nanoparticles: A novel and highly efficient heterogeneous catalyst system for the reductive amination of aldehydes**

NIŞANCI B., Ganjehyan K., Metin Ö., DAŞTAN A., Török B.

Journal of Molecular Catalysis A: Chemical, vol.409, pp.191-197, 2015 (SCI-Expanded)

- LII. **Monodisperse MPd (M: Co, Ni, Cu) alloy nanoparticles supported on reduced graphene oxide as cathode catalysts for the lithium-air battery**

SEVİM M., SENER T., Metin O.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.40, no.34, pp.10876-10882, 2015 (SCI-Expanded)

- LIII. **Monodisperse CoFe₂O₄ nanoparticles supported on Vulcan XC-72: High performance electrode materials for lithium-air and lithium-ion batteries**

SENER T., KAYHAN E., SEVİM M., Metin O.

JOURNAL OF POWER SOURCES, vol.288, pp.36-41, 2015 (SCI-Expanded)

- LIV. **Space charge limited current mechanism (SCLC) in the graphene oxide-Fe₃O₄ nanocomposites/n-Si heterojunctions**

ÇALDIRAN Z., SINOFOROGLU M., Metin O., AYDOĞAN Ş., Meral K.

JOURNAL OF ALLOYS AND COMPOUNDS, vol.631, pp.261-265, 2015 (SCI-Expanded)

- LV. **Composition-controlled catalysis of reduced graphene oxide supported CuPd alloy nanoparticles in the hydrolytic dehydrogenation of ammonia borane**

GUNGORMEZ K., Metin O.

APPLIED CATALYSIS A-GENERAL, vol.494, pp.22-28, 2015 (SCI-Expanded)

- LVI. **Reduced Graphene Oxide-Supported CuPd Alloy Nanoparticles as Efficient Catalysts for the Sonogashira Cross-Coupling Reactions**

DIYARBAKIR S., CAN H., Metin O.

ACS APPLIED MATERIALS & INTERFACES, vol.7, no.5, pp.3199-3206, 2015 (SCI-Expanded)

- LVII. **Monodisperse palladium nanoparticles supported on chemically derived graphene: highly active and reusable nanocatalysts for Suzuki-Miyaura cross-coupling reactions**

Durap F., Metin O.

TURKISH JOURNAL OF CHEMISTRY, vol.39, no.6, pp.1247-1256, 2015 (SCI-Expanded)

- LVIII. **Monodisperse nickel-palladium alloy nanoparticles supported on reduced graphene oxide as highly efficient catalysts for the hydrolytic dehydrogenation of ammonia borane**

CİFTÇİ N. S., Metin O.

INTERNATIONAL JOURNAL OF HYDROGEN ENERGY, vol.39, no.33, pp.18863-18870, 2014 (SCI-Expanded)

- LIX. **CoPd alloy nanoparticles catalyzed tandem ammonia borane dehydrogenation and reduction of aromatic nitro, nitrile and carbonyl compounds**

GOKSU H., CAN H., SENDİL K., GÜLTEKİN M. S., Metin O.

APPLIED CATALYSIS A-GENERAL, vol.488, pp.176-182, 2014 (SCI-Expanded)

- LX. **Schottky diode performance of an Au/Pd/GaAs device fabricated by deposition of monodisperse palladium nanoparticles over a p-type GaAs substrate**
Deniz A. R., ÇALDIRAN Z., Metin O., CAN H., Meral K., AYDOĞAN Ş.
MATERIALS SCIENCE IN SEMICONDUCTOR PROCESSING, vol.27, pp.163-169, 2014 (SCI-Expanded)
- LXI. **Tandem Dehydrogenation of Ammonia Borane and Hydrogenation of Nitro/Nitrile Compounds Catalyzed by Graphene-Supported NiPd Alloy Nanoparticles**
GOKSU H., Ho S. F., Metin O., KORKMAZ K., Garcia A. M., GÜLTEKİN M. S., Sun S.
ACS CATALYSIS, vol.4, no.6, pp.1777-1782, 2014 (SCI-Expanded)
- LXII. **A new route for the synthesis of graphene oxide-Fe₃O₄ (GO-Fe₃O₄) nanocomposites and their Schottky diode applications**
Metin O., AYDOĞAN Ş., Meral K.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.585, pp.681-688, 2014 (SCI-Expanded)
- LXIII. **A facile route to monodisperse MPd (M = Co or Cu) alloy nanoparticles and their catalysis for electrooxidation of formic acid**
Ho S. F., Mendoza-Garcia A., Guo S., HE K., SU D., Liu S., Metin O., Sun S.
NANOSCALE, vol.6, no.12, pp.6970-6973, 2014 (SCI-Expanded)
- LXIV. **Graphene oxide--magnetite nanocomposite as an efficient and magnetically separable adsorbent for methylene blue removal from aqueous solution**
Meral K., Metin O.
TURKISH JOURNAL OF CHEMISTRY, vol.38, no.5, pp.775-782, 2014 (SCI-Expanded)
- LXV. **Monodisperse Au Nanoparticles for Selective Electrocatalytic Reduction of CO₂ to CO**
Zhu W., Michalsky R., Metin O., Lv H., Guo S., Wright C. J., Sun X., Peterson A. A., Sun S.
JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, vol.135, no.45, pp.16833-16836, 2013 (SCI-Expanded)
- LXVI. **One-pot synthesis of 1,2/3-triols from the allylic hydroperoxides catalyzed by zeolite-confined osmium(0) nanoclusters**
GOKSU H., DALMIZRAK D., Akbayrak S., GÜLTEKİN M. S., ÖZKAR S., Metin O.
JOURNAL OF MOLECULAR CATALYSIS A-CHEMICAL, vol.378, pp.142-147, 2013 (SCI-Expanded)
- LXVII. **The Synthesis of the Fe₃O₄ Nanoparticles and the Analysis of the Current-Voltage Measurements on Au/Fe₃O₄/p-Si Schottky Contacts in a Wide Temperature Range**
Deniz A. R., Çaldıran Z., Şahin Y., Sinoforoglu M., Metin O., Meral K., Aydoğan Ş.
METALLURGICAL AND MATERIALS TRANSACTIONS A-PHYSICAL METALLURGY AND MATERIALS SCIENCE, pp.3809-3814, 2013 (SCI-Expanded)
- LXVIII. **B-N Polymer Embedded Iron(0) Nanoparticles as Highly Active and Long Lived Catalyst in the Dehydrogenation of Ammonia Borane**
Duman S., Metin O., ÖZKAR S.
JOURNAL OF NANOSCIENCE AND NANOTECHNOLOGY, vol.13, no.7, pp.4954-4961, 2013 (SCI-Expanded)
- LXIX. **The electrical characteristics of the Fe₃O₄/Si junctions**
Çaldıran Z., Deniz A. R., Şahin Y., Metin O., Meral K., Aydoğan Ş.
JOURNAL OF ALLOYS AND COMPOUNDS, vol.552, pp.437-442, 2013 (SCI-Expanded)
- LXX. **Monodisperse gold-palladium alloy nanoparticles and their composition-controlled catalysis in formic acid dehydrogenation under mild conditions**
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Activities in Scientific Journals

Current Graphene Science, Editor, 2016 - Continues

Turkish Journal of Chemistry, Assistant Editor/Section Editor, 2013 - Continues

Metrics

Publication: 146

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Scholarships

2231-Lindau Bilimsel Etkinliklere Katılma Desteği Programı, TUBİTAK, 2013 - Continues

Doktora Sonrası Araştırmacı, University, 2012 - Continues

2214- Doktora Öğrencileri İçin Yurtdışı Araştırma Bursu, TUBİTAK, 2009 - Continues

Awards

METİN Ö., TÜBİTAK Teşvik Ödülü, TÜBİTAK, December 2017

METİN Ö., Yılın Genç Bilim İnsanı Ödülü, Bilim Kahramanları Derneği, May 2017

METİN Ö., Üstün Başarılı Genç Bilim İnsanı Ödülü (BAGEP), Bilim Akademisi, April 2017

METİN Ö., 2016 Top Paper Award, Tsinghua Press, March 2017

METİN Ö., Fen Bilimleri Alanı Atıf Dalında Birincilik Ödülü, Atatürk Üniversitesi Rektörlüğü, May 2016

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METİN Ö., HORIZON2020 Eşik Üstü Ödülü, TÜBİTAK, April 2015

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METİN Ö., Araştırma Teşvik Ödülü, ODTÜ Prof.Dr. Mustafa N. PARLAR Eğitim ve Araştırma Vakfı, December 2013

METİN Ö., Fen Bilimleri Alanı Etkin Makale Dalında Birincilik Ödülü, Atatürk Üniversitesi Rektörlüğü, April 2013

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METİN Ö., 9. Serhat Özyar Yılın Genç Bilim İnsanı Ödülü, Orta Doğu Öğretim Elemanları Derneği, March 2011

Non Academic Experience

Other, Tübitak