

# Prof. Dr. Levent Artok

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Faculty of Science,  
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## Field of Expertise

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Organic Chemistry, Metal-Catalyzed Organic Reactions, Synthesis of Organic Molecules, Organometallic Chemistry

## Education

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<b>Ph.D.</b>	<b>1993</b>
Organic Chemistry, Department of Chemistry, Cukurova University	
<b>M.Sc.</b>	<b>1988</b>
Organic Chemistry, Department of Chemistry, Cukurova University	
<b>B.Sc.</b>	<b>1986</b>
Organic Chemistry, Department of Chemistry, Cukurova University	

## Academic Experience

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<b>Professor</b>	<b>2001-</b>
<b>Associate Professor</b>	<b>1999-2001</b>
Department of Chemistry, Izmir Institute of Technology	
<b>Research Associate</b>	<b>1997-1999</b>
Department of Applied Chemistry, Faculty of Engineering, Osaka University	
<b>Associate Professor</b>	<b>1995-1997</b>
Department of Chemistry, Cukurova University	
<b>Asistant Professor</b>	<b>1994-1995</b>
Department of Chemistry, Cukurova University	
<b>Visiting Scientist</b>	<b>1989-1991</b>
Fuel Science, Department of Material Science and Engineering, The Pennsylvania State University	

## Research Assistant

1986-1994

Department of Chemistry, Cukurova University

## Management Experience

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### Chair, Department of Chemistry

1999-2004; 2007-2010

Izmir Institute of Technology

### Vice Dean, Graduate School

2001-2003

Izmir Institute of Technology

## Awards

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### Outstanding Young Scientist Award

2003

The Scientific and Technical Research Council of Turkey

## Scholarships

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### DFG fellowship by The Scientific and Technical Research Council of Turkey

2010

Dortmund University of Technology, Faculty of Chemistry

### The DAAD fellowship

2008

Dortmund University of Technology, Faculty of Chemistry

### NATO Science Fellowship by The Scientific and Technical Research Council of Turkey

1996

Fuel Science Program, Department of Materials Science and Engineering, The Pennsylvania State University

## Selected Publications

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- Ziyanak F.; Kuş, M.; Alkan-Karadeniz, L.; Artok, L. "Palladium-Catalysed Reactions of Conjugated Enyne Oxiranes with Organoborons: A Diastereoselective Method of the Synthesis of 2,4,5-Trienol Derivatives" *Tetrahedron* 2018, 74, 3652.
- Taç, D.; Artok, L. "Palladium-Catalyzed Coupling of 2-En-4-yne Carbonates with Terminal Alkynes" *Tetrahedron Lett.* 2018, 59, 895.
- Taç, D., Aytaç, İ.A.; Karatavuk, A.O.; Kuş, M.; Ziyanak, F.; Artok, L. "Iron-Promoted 1,5-Substitution (SN2'') Reactions of Enyne Acetates and Oxiranes with Grignard Reagents" *Asian J. Org. Chem.* 2017, 6, 1415.
- Kuş, M.; Artok, L.; Aygün, M. "Palladium-Catalyzed Alkoxy-carbonylation of Conjugated Enyne Oxiranes: A Diastereoselective Method for the Synthesis of 7-Hydroxy-2,3,5-trienoates" *J. Org. Chem.* 2015, 80, 5494.



- Karagöz, E.Ş.; Kuş, M.; Akpınar, G.E.; Artok, L. "Regio- and Stereoselective Synthesis of 2,3,5-Trienoates by Palladium-Catalyzed Alkoxy carbonylation of Conjugated Enyne Carbonates" *J. Org. Chem.* 2014, 79, 9222.
- Wang, C.; Morimoto, T.; Kanashiro, H.; Tanimoto, H.; Nishiyama, Y.; Kakiuchi, K.; Artok, L. "Rh(I)-Catalyzed Carbonylative Arylation of Alkynes with Arylboronic Acids Using Formaldehyde as a Carbonyl Source" *Synlett* 2014, 1155.
- Üçüncü, M.; Karakuş, E.; Kuş, M.; Akpınar, G. E.; Aksın-Artok, Ö.; Krause, N.; Karaca, S.; Elmacı, N.; Artok, L. "Rhodium- and Palladium-Catalyzed 1,5-Substitution Reactions of 2-En-4-yne Acetates and Carbonates with Organoboronic Acids" *J. Org. Chem.* 2011, 76, 5959.
- Zıyanak F.; Kuş, M.; Artok, L. "Rhodium-Catalysed Alkoxy carbonylative Cyclisation Reactions of 1,6-Enynes" *Adv. Synth. Catal.* 2011, 353, 897.
- Akpınar, G. E.; Kuş, M.; Üçüncü, M.; Karakuş, E.; Artok, L. "Palladium-Catalyzed Alkoxy carbonylation of (Z)-2-En-4-yn Carbonates Leading to 2,3,5-Trienoates." *Org. Lett.* 2011, 13, 748.
- Artok, L.; Kuş, M.; Ürer, B. N.; Türkmen, G.; Aksın-Artok, Ö. "Rhodium Catalysed Chemo- and Stereoselective Arylative and Alkenylative Cyclisation Reactions of Unsymmetric Diynes Containing a Terminal Alkyne Moiety with Organoboronic Acids." *Org. Biomol. Chem.* 2010, 8, 2060.
- Artok, L., Kuş, M., Aksın-Artok, Ö., Dege, F. N., Özkılınç, F. Y. "Rhodium catalyzed reaction of internal alkynes with organoborons under CO atmosphere: a product tunable reaction" *Tetrahedron*, 2009, 65, 9125-9133
- Kuş, M., Artok Aksın, Ö., Zıyanak, F., Artok, L. "Synthesis of  $\alpha,\beta$ -Unsaturated Ketones by Rhodium-Catalyzed Carbonylative Arylation of Internal Alkynes with Arylboronic Acids" *Synlett*, 2008, 2587.
- Gül, Ö., Atanur, O. M., Artok, A. Erbatur, O. "The effect of additives on hydrodesulfurization of dibenzothiophene over bulk molybdenum sulfide: Increased catalytic activity in the presence of phenol" *Fuel Process. Technol.* 2008, 89, 419.
- Durgun, G., Aksın, Ö., Artok, L., "Pd-loaded NaY zeolite as a highly active catalyst for ligand-less Suzuki-Miyaura reactions of aryl halides at low Pd loadings under aerobic conditions" *J. Mol. Catal. A: Chem.* 2007, 278, 189.
- Aksın, Ö., Dege, N., Artok, L., Türkmen, H., Çetinkaya, B. "Rhodium Catalyzed Carbonylative Arylation of Alkynes with Arylboronic Acids. An Efficient and Straightforward Method in Synthesis of 5-Aryl-2(5H)-Furanones" *Chem. Commun.* 2006, 3187.
- Aksın, Ö., Türkmen, H., Artok, L., Çetinkaya, B., Ni, C., Büyükgüngör, O., Özkal, E. "Effect of Immobilization on the Catalytic Characteristics of Saturated Pd-N-Heterocyclic Carbenes in Mizoroki-Heck Reactions" *J. Organomet. Chem.* 2006, 691, 3027.
- Artok, L., Bulut, H. "Heterogeneous Suzuki reactions catalyzed by Pd(0)-Y zeolite" *Tetrahedron Lett.* 2004, 45, 3881.
- Bulut, H., Artok, L., Yılmaz, S. "Suzuki Cross-Coupling Reactions of Aryl Halides with Arylboronic Acids Catalysed by Pd(II)-NaY Zeolite", *Tetrahedron Lett.* 2003, 44, 289.