

## CURRICULUM VITAE



### PERSONAL DATA

Name : Fadime MERT BALCI

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### ACADEMIC DEGREES

Diploma in Chemistry, 2006  
Paderborn University,  
Chemistry, Germany

Ph.D. in Chemistry, 2013  
University of Hohenheim,  
Chemistry, Germany

### EMPLOYMENT HISTORY

March 2021-Present      Assistant Professor, İzmir Institute of Technology, Department of  
Chemistry  
2019-2021                  Post-Doctoral Fellow, İzmir Institute of Technology, Department of  
Photonics  
2014-2017                  Post-Doctoral Fellow, Bilkent University, Department of Chemistry  
2006-2010                  Research and Teaching Assistant, University of Hohenheim,  
Department of Chemistry  
2002-2005                  Research Assistant (DAAD Fellowship), Paderborn University,  
Department of Chemistry.

### LANGUAGE PROFICIENCY

German                      Full professional proficiency

English                      Full professional proficiency

## SCHOLARLY PUBLICATIONS

1. **Mert Balci F.**, Sarisozen S., Polat, N. Meric Guvenc C., Karadeniz U., Tertemiz A., and Balci S., “Laser Assisted Synthesis of Anisotropic Nanocrystals and Strong Light-Matter Coupling in Decahedral Bimetallic Nanocrystals” **Nanoscale Advances** 3, 1674 (2021).
2. Meric Guvenc C., **Mert Balci F.**, Sarisozen F., Polat N. and Balci S., “Colloidal Bimetallic Nanorings for Strong Plasmon Exciton Coupling” **J. Phys. Chem. C** 124, 8334 (2020).
3. **Mert Balci F.**, Sarisozen S., Polat N. And Balci S.,. “Colloidal Nanodisk Shaped Plexcitonic Nanoparticles with Large Rabi Splitting Energies” **J. Phys. Chem. C** 123, 26571 (2019).
4. **Mert Balci F.**, Alsaç E. P., Saat G., Yaman M. Y., Karadas F., Ulgut B., and Dag Ö., “Synthesis of Mesoporous  $\text{LiMn}_2\text{O}_4$  and  $\text{LiMn}_{2-x}\text{Co}_x\text{O}_4$  Thin Films Using MASA Approach as Efficient Water Oxidation Catalysts” **J. Mater. Chem. A** 6, 13925 (2018).
5. Saat G., **Mert Balci F.**, Alsaç E. P., Karadas F., and Dag Ö. “Molten Salt Assisted Self-Assembly: Synthesis of Mesoporous  $\text{LiCoO}_2$  and  $\text{LiMn}_2\text{O}_4$  Thin Films and Investigation of Electrocatalytic Water Oxidation Performance of Lithium Cobaltate” **Small** 14, 1701913 (1-11) (2018).
6. Uzundal C. B., **Mert Balci F.**, Ulgut B., and Dag Ö. “Lyotropic Liquid Crystalline Mesophases of Sulfuric Acid-Non-Ionic Surfactant Stabilizes Lead(II) Oxide in Sulfuric Acid Concentrations Relevant to Lead Acid Batteries” **ACS Omega** 2, 3785 (2017).
7. **Mert Balci F.**, Balci S., Kocabas C., and Dag Ö. “Lyotropic Liquid Crystalline Mesophase of Lithium Triflate-Non-Ionic Surfactant as Gel-Electrolyte for Graphene Optical Modulator” **J. Phys. Chem. C** 121, 11194 (2017).
8. **Mert Balci, F.**, Kudu U. Ö., Yılmaz E., and Dag Ö. “Synthesis of Mesoporous Lithium Titanate Thin Films and Monoliths as an Anode Material for High Rate Lithium Ion-Batteries” **Chem. Eur. J.** 22, 18873 (2016).
9. Olutaş E. B., **Mert Balci F.**, Dag Ö. “Strong Acid–Nonionic Surfactant Lyotropic Liquid-Crystalline Mesophases as Media for the Synthesis of Carbon Quantum Dots and Highly Proton Conducting Mesostructured Silica Thin Films and Monoliths” **Langmuir** 31, 10265 (2015).
10. **Mert Balci F.**, Imrich H. G., Conrad J., Beifuss U., ‘Influence of guanidinium salts and other ionic liquids on the three-component Aza-Diels-Alder reaction’ **Helv. Chim. Acta** 96, 1681 (2013).
11. **Mert Balci F.**, Conrad J., Beifuss U., ‘Microwave-assisted three-component reaction in conventional solvents and ionic liquids for the synthesis of aminosubstituted imidazo[1,2-a]pyridines’, **Arkivoc** 3, 243 (2012).
12. Meindl K., Stern D., **Mert Balci F.**, Beifuss U., ‘6-Benzyl-3,4-dimethoxy-10-methylpyrido[2',1':2,3]imidazo[4,5-c]isoquinolin-5(6H)-one’, **Acta Crystal. E** 65, 02464 (2009).

**13.** Conrad J., Forster-Fromme B., Constantin M. A., Ondrus V., Mika S., **Mert Balci F.**, Klaiber I., Pfannstiel J., Moller W., Rosner H., Forster-Fromme K., Beifuss U. 'Flavonoid Glucuronides and a Chromone from the Aquatic Macrophyte *Stratiotes aloides*' , **J. Natural Products** 72, 835 (2009).

**14. Mert-Balci F.**, Conrad J., Meindl K., Schulz T., Stalke D., Beifuss U. 'Microwave Assisted Three-Component Reaction for the Synthesis of Pyrido[2',1':2,3]imidazo[4,5-c]isoquinolin-5(6H)-ones', **Synthesis** 22, 3649 (2008).