

Aslı YÜKSEL ÖZŞEN

Associate Professor in Faculty of Engineering, Department of Chemical Engineering, Izmir Institute of Technology, Izmir, Turkey | Email: asliyuksel@iyte.edu.tr | Tel: +90 232 750 6609

Employment history

2018-Pre Associate Professor, Department of Chemical Engineering, Faculty of Engineering, Izmir Institute of Technology

2011-2018 Assistant Professor, Department of Chemical Engineering, Faculty of Engineering, Izmir Institute of Technology

Education

2008-11 PhD, Chemical Engineering, Kumamoto University, Japan

2006-08 MSc, Chemical Engineering, Kumamoto University, Japan

2002-06 BSc, Chemical Engineering, Ege University, Turkey

International appointments

2014 Visiting Researcher, Chemical Engineering, Nagoya University, Japan

2012 Marie Curie Fellowship as part of the EU-funded project HYDELTECH, Brussels

Academic and research leadership

2019-Pre Director of Geothermal Energy Research and Application Center (GEOCEN), Izmir Institute of Technology

2011-Pre Supervision of 3 PhD students (2 ongoing PhDs), 7 MSc students (2 ongoing MScs)

2013-16 Department Vice-chair, Department of Chemical Engineering, Faculty of Engineering, Izmir Institute of Technology

Awards and fellowships

2019 "The Best Academician Award", Izmir Institute of Technology, TURKEY

2014 "Post Doctoral Fellowship Award" by The Scientific and Technological Research Council of Turkey

2011 "Academic Excellence (University President's) Award", New Frontier Sciences, Kumamoto University, JAPAN

2010 Invited Researcher by JSPS (Japan Society for the Promotion of Science) to attend a workshop called "3rd Hope Meeting" together with Nobel laureates, Tokyo, JAPAN

2010 "Best PhD Student Presentation Award" from SCEJ (The Society of Chemical Engineers, Japan), Nagasaki, Japan

2010 The Excellence Award" in oral presentation competition for students at the 2nd International Solvothermal & Hydrothermal Association Conference (ISHA2010), Beijing, CHINA

2009 "Best Presentation Award" from 4th International Symposium on Material Cycling Engineering, Osaka, JAPAN

2009 Grantee by JSPS as a young researcher to attend a workshop called "2nd Hope Meeting: Art in Science" together with Nobel laureates, Hakone, Kanagawa Prefecture, JAPAN

2008-11 Japanese Government (Monbukagakusho:Mext) Scholarship for Ph.D. Course in Graduate School of Science and Technology, Kumamoto University, Japan

2007 "Best Poster Award" from Supergreen 2007 the 5th International Symposium on Supercritical Fluid Technology, Seoul, Korea

2007 "Best Presentation Award" from 1st International Symposium on Applications of Supercritical Fluids in Green Chemistry and Material Science, March 2-6, 2007, Beijing, China

2006-08 Japanese Government (Monbukagakusho:Mext) Scholarship for M.Sc. Course in Graduate School of Science and Technology, Kumamoto University, Japan

2006-08 Ege University Science and Technology Research Center Scholarship (EBİLTEM), Turkey

Research publications and outputs - Summary

- +50 Research outputs including 14 peer reviewed journal papers, 42 conference papers/abstracts
- Full list of publications at <https://www.yukselasli.com>

Selected and relevant recent journal publications (last five years):

- Emre Demirkaya, Orkan Dal, **Aslı Yüksel**, “Liquefaction of Waste Hazelnut Shell by Using Sub- and Supercritical Solvents as a Reaction Medium”, *Journal of Supercritical Fluids*, 2019, Vol 150, 2019, pp. 11-20, <https://doi.org/10.1016/j.supflu.2019.03.019>
- Çağlar Ersanlı and **Aslı Yüksel Özşen**, “Mineralization of Olive Mill Wastewater Under Hydrothermal Conditions”, *Desalination and Water Treatment*, Vol 147, 2019, pp. 143-155, DOI: 10.5004/dwt.2019.23758
- Okan Akin and **Aslı Yüksel**, “Novel Hybrid Process for the Conversion of Microcrystalline Cellulose to Value-Added Chemicals: Part 3: Detailed Reaction Pathway”, *Cellulose*, Vol 26, Issue 5, 2019, pp. 2999-3008, DOI 10.1007/s10570-019-02291-6.
- Okan Akin and **Aslı Yüksel**, “Novel Hybrid Process for the Conversion of Microcrystalline Cellulose to Value-added Chemicals: Part 2: Effect of Constant Voltage on Product Selectivity”, *Cellulose*, Vol 24, Issue 11, 2017, pp.4729-4741, DOI 10.1007/s10570-017-1457-9
- Gokalp Gozaydin and **Aslı Yüksel**, “Valorization of Hazelnut Shell Waste in Hot-compressed Water”, *Fuel Processing Technology*, Vol 166C, 2017, pp.96-106, doi: 10.1016/j.fuproc.2017.05.034
- Okan Akin and **Aslı Yüksel**, “Novel Hybrid Process for the Conversion of Microcrystalline Cellulose to Value-added Chemicals: Part 1: Process Optimization”, *Cellulose*, Vol 23, Issue 6, 2016, pp.3475-3493

Research funding and grants awarded

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| 2019 | “Synthesis of Cellulose-based Lithium Selective Adsorbents and Utilization of them in Batch Adsorption Studies”, PI, Scientific Research Projects of Izmir Institute of Technology, Turkey |
| 2018 | “Selective Catalytic Hydrothermal Electrolysis of Cellulose into Sorbitol by a Bifunctional Catalyst”, PI, The Scientific and Technological Research Council of Turkey |
| 2018 | “The Valorization of Sugar Beet Wastewater for Hydrogen Production by Photocatalytic Oxidation”, PI, The Scientific and Technological Research Council of Turkey |
| 2018 | “Selective Conversion of Hazelnut Shell to Value-added Chemicals in Subcritical Water”, PI, Scientific Research Projects of Izmir Institute of Technology, Turkey |
| 2018 | “Production of Bio-oil from Olive Branches and Leaves by Sub- and Supercritical Ethanol”, Principal PI, Scientific Research Projects of Izmir Institute of Technology, Turkey |
| 2016 | “Development of Catalysts for Selective Production of Value-added Chemicals from Cellulose in Hot-pressurized Water”, PI, Scientific Research Projects of Izmir Institute of Technology, Turkey |
| 2015 | “Conversion of Olive Pruning Wastes into High-value Chemicals in the Liquid Phase by Using Subcritical Water”, PI, Scientific Research Projects of Izmir Institute of Technology, Turkey |
| 2014 | ‘Recovery of Bioactive Polyphenols by Hybrid Extraction Process with Supercritical Carbon Dioxide and Water’, PI, The Scientific and Technological Research Council of Turkey |
| 2012 | “Synthesis of Biomass Sourced Value Added Chemicals by Hydrothermal Electrolysis Technique (HYDELTECH)”, PI, Marie Curie Career Integration Grants 2012 (FP7-PEOPLE-2012-CIG) |
| 2012 | “Degradation of Azo-dyes in Sub-critical Water Reaction Medium”, PI, Scientific Research Projects of Izmir Institute of Technology, Turkey |
| 2010 | “Treatment of Nitrogen Containing Wastewater by Hydrothermal Electrolysis Technique”, PI, Global COE Acceleration Research, Japan |
| 2009 | “Biodiesel Wastewater (BDF) Treatment by Using Hydrothermal Electrolysis Technique”, PI, Global COE Acceleration Research, Japan |
| 2009 | “Technology Development for High Efficiency Biomass Energy Conversions by Hydrothermal Electrolysis”, Researcher, NEDO Japan |
| 2009 | “Development of Effective Detoxification Technology of Persistent Organics in Wastewater by Hydrothermal Electrolysis”, Researcher, Ministry of Environment of Japan |

Other evidences of self-esteem and academic standing

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| 2016 | Organising Committee Member, 12th National Chemical Engineering Conference (UKMK2016), 23-26 August 2016, Wyndham Grand, İzmir, TURKEY |
| 2014 | Organizing Committee Member, XII. What to produce? Event and Project Competition, September 11-12, 2014, Izmir Institute of Technology, Department of Chemical Engineering, İzmir, TURKEY |
| 2013 | Scientific and Technical Advisory Committee Member, 1st National Laboratory Accreditation and Safety Symposium and Exhibition, 16-18 May 2013, Yıldız Teknik University Davut Pasa Campus, Istanbul, Turkey |