

## ASLI YUKSEL OZSEN, Ph.D.



### CONTACT DETAILS

Associate Professor, Izmir Institute of Technology  
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Application Center)  
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### EDUCATIONAL BACKGROUND

**Postdoc Researcher**, Nagoya University, Japan, (July October 2014)

**Ph.D.** Chemical Engineering, Kumamoto University, Japan, 2011  
Thesis: “Electrolysis in Sub-critical Water for the Chemical Conversion of Various Organic Compounds”, Advisor: Prof. Dr. Motonobu GOTO

**M.Sc.** Chemical Engineering, Kumamoto University, Japan, 2008  
Thesis: “Hydrothermal Electrolysis of Organic Compounds in Sub-critical Water”,  
Advisor: Prof. Dr. Motonobu GOTO

**B.Sc.** Chemical Engineering, Ege University, Turkey, 2006  
Thesis: “Catalytic Wet Air Oxidation of Formic Acid”, Advisor: Prof. Dr. Gonul GUNDUZ

### ACADEMIC EXPERIENCE

- **Director of Geothermal Energy Research and Application Center (GEOCEN)**, Izmir Institute of Technology, Izmir, Turkey, January 2019-Continue
- **Associate Professor**, Department of Chemical Engineering, Izmir Institute of Technology, Izmir, Turkey, August 2018-Continue
- Assistant Professor, Department of Chemical Engineering, Izmir Institute of Technology, Izmir, Turkey, 2011-2018
- **Department Vice-Chair**, Chemical Engineering, Izmir Institute of Technology, January 18, 2013-January 2016
- **Visiting Researcher**, Chemical Engineering, Nagoya University, Nagoya, Japan, 08 July 2014-04 October 2014

## INDUSTRIAL EXPERIENCE

- Chemical Industry, Soap and Detergent Production, Izmir, Turkey, 2005
- Engineering Trainee, Petkim Petrochemical Industry, Ethylene Oxide / Ethylene Glycol Unit, Izmir, Turkey, 2004

## PROFESSIONAL ACTIVITIES

- **Organising Committee Member**, 12<sup>th</sup> National Chemical Engineering Conference (UKMK2016), 23-26 August 2016, Wyndham Grand, İzmir, TURKEY
- **Organizing Committee Member**, XIII. Ne Üretelim? Event and Project Competition, August 25, 2016, Wyndham Grand Hotel, İzmir, TURKEY
- **Organizing Committee Member**, XII. Ne Üretelim? Event and Project Competition, September 11-12, 2014, Izmir Institute of Technology, Department of Chemical Engineering, İzmir, TURKEY
- **Scientific and Technical Advisory Committee Member**, 1<sup>st</sup> National Laboratory Accreditation and Safety Symposium and Exhibition, 16-18 May 2013, Yıldız Teknik University Davut Pasa Campus, Istanbul, Turkey

## RESEARCH PUBLICATIONS

### *Journal Publications (SCI-Indexed)*

1. 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 (Special Issue of ISSF 2018), April 2019, Volume 150, 2019, pp. 11-20, <https://doi.org/10.1016/j.supflu.2019.03.019>
2. Çağlar Ersanlı and **Aslı Yüksel Özşen**, "Mineralization of Olive Mill Wastewater Under Hydrothermal Conditions", Desalination and Water Treatment, January 5, 2019, Volume 147, 2019, pp. 143-155, DOI: 10.5004/dwt.2019.23758
3. Okan Akin and **Asli Yuksel**, "Novel Hybrid Process for the Conversion of Microcrystalline Cellulose to Value-Added Chemicals: Part 3: Detailed Reaction Pathway", Cellulose, January 25, 2019, Volume 26, Issue 5, 2019, pp. 2999-3008, DOI 10.1007/s10570-019-02291-6.
4. Okan Akin and **Asli Yuksel**, "Novel Hybrid Process for the Conversion of Microcrystalline Cellulose to Value-added Chemicals: Part 2: Effect of Constant Voltage on Product Selectivity", Cellulose, August, 2017, Volume 24, Issue 11, 2017, pp.4729-4741, DOI 10.1007/s10570-017-1457-9
5. Gokalp Gozaydin and **Asli Yuksel**, "Valorization of Hazelnut Shell Waste in Hot-compressed Water", Fuel Processing Technology, 29<sup>th</sup> May 2017, Volume 166C, 2017, pp.96-106 , doi: 10.1016/j.fuproc.2017.05.034
6. Okan Akin and **Asli Yuksel**, "Novel Hybrid Process for the Conversion of Microcrystalline Cellulose to Value-added Chemicals: Part 1: Process Optimization", Cellulose, December, 2016, Volume 23, Issue 6, 2016, pp.3475-3493

7. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Complete Degradation of Orange G by Electrolysis in Sub-critical Water", Journal of Hazardous Materials, February 26, 2011, Volume 190, 2011, pp.1058-1062
8. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "A New Green Technology: Hydrothermal Electrolysis for the Treatment of Biodiesel Wastewater", Research on Chemical Intermediates, February 06, 2011, Volume 37, 2011, pp. 131-143
9. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Electrolysis Reaction Pathway for Lactic Acid in Sub-critical Water", Industrial & Engineering Chemistry Research, December 09, 2010, Volume 50, Issue 2, 2011, pp. 728-734
10. Mitsuru Sasaki, Wahyudiono, **Asli Yuksel**, Motonobu Goto, "Applications of Hydrothermal Electrolysis for Conversion of 1-Butanol in Wastewater Treatment", Fuel Processing Technology, Volume 91, Issue: 9, September 2010, pp. 1125-1132
11. **Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Electrolysis of Glycerol Using a Continuous Flow Reactor", Industrial & Engineering Chemistry Research, January 19, 2010, Volume 49, Issue 4, pp. 1520-1525
12. **Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, Motonobu Goto, "Electrolysis of Glycerol in Subcritical Water", Journal of Renewable and Sustainable Energy, June 30, 2009, Volume 1, Issue 3, pp. 033112 1-11

#### Journal Publications (Other Indexes)

1. **Asli Yuksel**, "Hydrothermal Treatment of Cellulose in Hot-Pressurized Water for the Production of Levulinic Acid", Uludag University Journal of the Faculty of Engineering, December 2016, Volume 21, Issue 2, pp. 415- 434 (doi:10.17482/uumfd.278150)
2. **Asli Yuksel**, "Hydrothermal Degradation of Congo Red in Hot Compressed Water and its Kinetics", Journal of Chemical Engineering & Process Technology, November 30, 2013, Volume 4, Issue 9, pp. 179- 188

#### Conference Publications

1. **Aslı Yüksel** and Gökalep Gözaydın, 'How to Add Value to Waste Hazelnut Shell by Using Subcritical Water as a Reaction Medium?', 12<sup>th</sup> International Symposium on Supercritical Fluids (ISSF2018), 22-25 April 2018, Antibes-Juan-Les-Pins- FRANCE
2. Çağlar Ersanlı and **Aslı Yüksel Özşen**, 'Mineralization of Olive Mill Wastewater via Hydrothermal Degradation Reactions in Subcritical Water Medium', International Water and Environment Congress', 22-24 March 2018, Bursa-TURKEY
3. **Asli Yuksel**, Okan Akin, 'Conversion of Cellulose to High Value Platform Chemicals by Applying Direct Current in Hot-compressed Water', 16<sup>th</sup> European Meeting on Supercritical Fluids (EMSF 2017), April 25-28, 2017, Lisbon, PORTUGAL
4. Gökalep Gözaydın, **Aslı Yüksel Özşen**, 'Hydrothermal Degradation of Various Biomasses into Value-Added Chemicals, 12<sup>th</sup> National Chemical Engineering Conference (UKMK2016), August 23-26, 2016, Wyndham Grand Hotel, İzmir, TURKEY

5. **Asli Yuksel**, Okan Akin, "Acid-catalyzed Degradation of Biomass with Hydrothermal Electrolysis for the Production of Value-added Chemicals", AMADEUS-4<sup>th</sup> International Solvothermal and Hydrothermal Association Conference, October 26-29, 2014, Bordeaux, FRANCE
6. Okan Akin, **Asli Yuksel**, "Software Simulation of Electrolysis Reaction of Biomass Under Hydrothermal Conditions", AMADEUS-4<sup>th</sup> International Solvothermal and Hydrothermal Association Conference, October 26-29, 2014, Bordeaux, FRANCE
7. **Asli Yuksel**, "Acid-catalyzed Degradation of Biomass with Hydrothermal Electrolysis for the Production of Value-added Chemicals", American Chemical Society (ACS) Meeting, March 16-20, 2014, Manuscript No: 455, Dallas, Texas, USA
8. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Electrolysis of Alcohols in High Temperature-High Pressure Water", 2012 The Materials Research Society (MRS) Fall Meeting, November 25-30, 2012, Manuscript No: C2.05, Boston, Massachusetts, USA
9. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "A New Environmentally Friendly Technique: Hydrothermal Electrolysis to Decompose Organic Contaminants", The 4<sup>th</sup> International Student Conference on Advanced Science and Technology (ICAST2010), May 25-26, 2010, Izmir, Turkey
10. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Degradation of Glycerol by Electrolysis in Sub-critical Water", 12<sup>th</sup> European Meeting on Supercritical Fluids, May 9-12, (2010), ISBN: 978-2905267-72-6, Manuscript No: P-19, Graz, Austria
11. Mitsuru Sasaki, Takanari Oshikawa, Hiromichi Koga, **Asli Yuksel**, Wahyu Diono, Motonobu Goto, "Reaction Pathway Analysis for Electrolysis of Alcohols and Sugars in Sub-Critical Water", 09AIChE Annual Meeting, (2009), P-262 ISBN: 978-0-8169-1058-6, Nashville, TN, USA
12. Wahyudiono, Taku Kuroda, **Asli Yuksel**, Mitsuru Sasaki and Motonobu Goto, "Hydrothermal Processes for Removal of Wastewater Containing Organic Pollutants", The 6<sup>th</sup> International Symposium on Supercritical Fluid Technology (Supergreen 2009), (2009), Sendai, JAPAN, Manuscript No: P2-319
13. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Treatment of Biodiesel Wastewater by Electrolysis in Sub-critical Water", The 6<sup>th</sup> International Symposium on Supercritical Fluid Technology (Supergreen 2009), (2009), Sendai, JAPAN, Manuscript No: P2-311
14. **Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, Motonobu Goto, "Treatment of BDF Wastewater with Hydrothermal Electrolysis", Proceedings of 9<sup>th</sup> International Symposium on Supercritical Fluids (ISSF2009), (2009), Arcachon, FRANCE, Manuscript No: C33-CO90
15. Motonobu Goto, **Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, "Hydrothermal Electrolysis of BDF Wastewater Containing Glycerol", The 4<sup>th</sup> International Symposium on Material Cycling Engineering, (2009), Osaka, JAPAN, Manuscript No: P-20

16. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Electrolysis of Organic Compounds in Sub-critical Water", Proceedings of the 21<sup>st</sup> International Symposium on Chemical Engineering, (2008), Saga, JAPAN, Manuscript No: OC-13
17. Motonobu Goto, Hiromichi Koga, **Asli Yuksel**, Mitsuru Sasaki, Yutaka Kuwahara, "Electrochemical Reaction of Alcohols in Sub-Critical Water", 08AIChE Annual Meeting, (2008), P-255 ISBN: 978-0-8169-1050-2, Philadelphia, USA
18. Motonobu Goto, **Asli Yuksel**, Hiromichi Koga, Rumiko Hayashi, Wahyudiono, Mitsuru Sasaki, "Reaction of Organic Compounds by Hydrothermal Electrolysis in Subcritical Water", The 3<sup>rd</sup> International Symposium on Material Cycling Engineering, (2008), Osaka, JAPAN, Manuscript No: PS-1-13
19. **Asli Yuksel**, Wahyudiono, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Electrolysis of Various Alcohols in Sub-critical Water", The 5<sup>th</sup> International Symposium on Supercritical Fluid Technology (Supergreen 2007), (2007), Seoul, KOREA, Manuscript No:P02-43
20. **Asli Yuksel**, Wahyudiono, Rumiko Hayashi, Mitsuru Sasaki, Motonobu Goto, "Electrical Treatment of Various Alcohols in Sub-critical Water for Understanding Electrochemical Reaction Behavior", Proceedings of International Symposium on EcoTopia Science (ISETS07), ISSN: 240711, (2007), Nagoya, JAPAN
21. **Asli Yuksel**, Wahyudiono, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Electrolysis of Organic Contaminants", 07 AIChE Annual Meeting, (2007), P-246 ISBN: 978-08169-1022-9, Salt Lake City, Utah, USA

## RESEARCH PROJECTS

- "Synthesis of Cellulose-based Lithium Selective Adsorbents and Utilization of them in Batch Adsorption Studies", Principal Investigator, Scientific Research Projects of Izmir Institute of Technology, 2019 (IYTE BAP 2019), Project No: 2019IYTE0178, Turkey (08.04.2019-08.04.2020)
- "Selective Catalytic Hydrothermal Electrolysis of Cellulose into Sorbitol by a Bifunctional Catalyst", **Principal Investigator**, The Scientific and Technological Research Council of Turkey, 2018 (TUBITAK 1002 Short Term R&D Funding Program), Project No: 217M931, Turkey (15.01.2018-15.01.2019)
- "The Valorization of Sugar Beet Wastewater for Hydrogen Production by Photocatalytic Oxidation", **Principal Investigator**, The Scientific and Technological Research Council of Turkey, 2018 (TUBITAK 3501 Career Development Program), Project No: 217M272, Turkey (15.01.2018-15.01.2020)
- "Hydrogen Production from Sucrose Solution by Photocatalytic Oxidation", **Principal Investigator**, Scientific Research Projects of Izmir Institute of Technology, 2017 (IYTE BAP 2017), Project No: 2017IYTE42, Turkey (01.01.2018-30.12.2018)
- "Selective Conversion of Hazelnut Shell to Value-added Chemicals in Subcritical Water", **Principal Investigator**, Scientific Research Projects of Izmir Institute of

Technology, 2017 (IYTE BAP 2017), Project No: 2017IYTE55, Turkey (05.02.2018-05.02.2019)

- “Production of Bio-oil from Olive Branches and Leaves by Sub- and Supercritical Ethanol”, **Principal Investigator**, Scientific Research Projects of Izmir Institute of Technology, 2017 (IYTE BAP 2017), Project No: 2017IYTE56, Turkey (15.01.2018-15.01.2019)
- “Development of Catalysts for Selective Production of Value-added Chemicals from Cellulose in Hot-pressurized Water”, **Principal Investigator**, Scientific Research Projects of Izmir Institute of Technology, 2016 (IYTE BAP 2016), Project No: 2016IYTE42, Turkey (December 2016-December 2017)
- “Conversion of Olive Pruning Wastes into High-value Chemicals in the Liquid Phase by Using Subcritical Water”, **Principal Investigator**, Scientific Research Projects of Izmir Institute of Technology, 2015 (IYTE BAP 2015), Project No: 2015IYTE22, Turkey (June 2015-June 2016)
- ‘Recovery of Bioactive Polyphenols by Hybrid Extraction Process with Supercritical Carbon Dioxide and Water’, **Principal Investigator**, The Scientific and Technological Research Council of Turkey (TUBITAK-BIDEB-2219 Program), Project No: 1059B191400662, (July 08-October 04 2014)
- “Synthesis of Biomass Sourced Value Added Chemicals by Hydrothermal Electrolysis Technique (HYDELTECH)”, **Principal Investigator**, Marie Curie Career Integration Grants 2012 (FP7-PEOPLE-2012-CIG), Project No: PCIG11-GA-2012-321741, (September 2012-September 2016)
- “Degradation of Azo-dyes in Sub-critical Water Reaction Medium”, **Principal Investigator**, Scientific Research Projects of Izmir Institute of Technology, 2012 (IYTE BAP 2012), Project No: 2012IYTE01, Turkey (September 2012-March 2014)
- “Technology Development for High Efficiency Biomass Energy Conversions by Hydrothermal Electrolysis”, **Researcher**, NEDO (New Energy and Industrial Technology Development Organization), Japan (April 2006-March 2009): 525,000TL (23,000,000 Japanese Yen)
- “Development of Effective Detoxification Technology of Persistent Organics in Wastewater by Hydrothermal Electrolysis”, **Researcher**, Ministry of Environment of Japan (April 2007-March 2009)
- “Treatment of BDF Wastewater with Hydrothermal Electrolysis”, **Principal Investigator**, Global COE (Center of Excellence) Acceleration Research, Japan (May 2008-March 2009) (300,000 Yen)
- “Biodiesel Wastewater (BDF) Treatment by Using Hydrothermal Electrolysis Technique”, **Principal Investigator**, Global COE Acceleration Research, Japan (May 2009-March 2010) (200,000 Yen)

- “Treatment of Nitrogen Containing Wastewater by Hydrothermal Electrolysis Technique”, **Principal Investigator**, Global COE Acceleration Research, Japan (May 2010-March 2011) (250,000 Yen)

## LIST OF INTERNATIONAL CONFERENCE PRESENTATIONS

1. **Asli Yuksel** and Ceren Orak, ‘Hydrogen Production from Sugar Beet Wastewater in the Presence of Perovskite Type Catalysts by Photocatalytic Oxidation’, 257<sup>th</sup> American Chemical Society (ACS) National Meeting, March 31-April 04, 2019, Manuscript No: 3064023, Orlando, Florida, USA
2. **Aslı Yüksel**, Gökalp Gözaydın, ‘How to Add Value to Waste Hazelnut Shell by Using Subcritical Water as a Reaction Medium?’, 12<sup>th</sup> International Symposium on Supercritical Fluids (ISSF2018), 22-25 Nisan 2018, Antibes-Juan-Les-Pins- FRANSA
3. Çağlar Ersanlı and **Aslı Yüksel Özşen**, ‘Mineralization of Olive Mill Wastewater via Hydrothermal Degradation Reactions in Subcritical Water Medium’, International Water and Environment Congress’, 22-24 March 2018, Bursa-TURKEY
4. **Asli Yuksel**, Okan Akin, ‘Conversion of Cellulose to High Value Platform Chemicals by Applying Direct Current in Hot-compressed Water, 16<sup>th</sup> European Meeting on Supercritical Fluids (EMSF 2017), April 25-28, 2017, Lisbon, PORTUGAL
5. Okan Akin, **Asli Yuksel**, “Conversion of Microcrystalline Cellulose to Value-Added Chemicals in Hot Compressed Water”, 1<sup>st</sup> International Conference on Green Chemistry and Sustainable Technologies (GCSTI2015), September 30-October 03, 2015, Izmir, TURKEY
6. Gökalp Gözaydın, **Asli Yuksel**, “Liquefaction of Various Biomasses by Using Subcritical Water as a Reaction Media”, 1<sup>st</sup> International Conference on Green Chemistry and Sustainable Technologies (GCSTI2015), September 30-October 03, 2015, Izmir, TURKEY
7. **Asli Yuksel**, Okan Akin, “Acid-catalyzed Degradation of Biomass with Hydrothermal Electrolysis for the Production of Value-added Chemicals”, AMADEUS-4<sup>th</sup> International Solvothermal and Hydrothermal Association Conference, October 26-29, 2014, Bordeaux, FRANCE
8. Okan Akin, **Asli Yuksel**, “Software Simulation of Electrolysis Reaction of Biomass Under Hydrothermal Conditions”, AMADEUS-4<sup>th</sup> International Sovothermal and Hydrothermal Association Conference, October 26-29, 2014, Bordeaux, FRANCE
9. **Asli Yuksel**, “Acid-catalyzed Degradation of Biomass with Hydrothermal Electrolysis for the Production of Value-added Chemicals”, American Chemical Society (ACS) Meeting, March 16-20, 2014, Manuscript No: 455, Dallas, Texas, USA
10. **Asli Yuksel**, “Degradation of Azo-Dyes by Hydrothermal Electrolysis Technique”, The 6th International Perspective on Water Resources & The Environment, January 7-9, 2013, İzmir, TURKEY
11. **Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, “Electrolysis of Alcohols in High Temperature-High Pressure Water”, 2012 The Materials Research Society (MRS) Fall Meeting, November 25-30, 2012, Boston, Massachusetts, USA

- 12. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Electrolysis Reaction Mechanism for Glycerol in Sub-critical Water", The 5<sup>th</sup> International Student Conference on Advanced Science and Technology (ICAST2010), December 15-16, 2010, Kumamoto, JAPAN
- 13. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Electrolysis Reaction Pathway for Glycerol in Sub-critical Water", SCEJ (The Society of Chemical Engineers, Japan), November 18-19, 2010, Nagasaki, JAPAN
- 14.** Takanari Oshikawa, **Asli Yuksel**, Koga Hiromichi, Mitsuru Sasaki, Motonobu Goto, "Reaction Mechanism of Glycerol and Saccharides by Hydrothermal Electrolysis", Society of Chemical Engineers, Japan The 42<sup>nd</sup> Autumn Meeting, September 06-08, 2010, Kyoto, JAPAN
- 15. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "A New Green Technology: Hydrothermal Electrolysis for the Treatment of Biodiesel Wastewater", The 2<sup>nd</sup> International Solvothermal and Hydrothermal Association Conference 2010 (ISHA2010), July 27-29, 2010, Beijing, CHINA
- 16. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "A New Environmentally Friendly Technique: Hydrothermal Electrolysis to Decompose Organic Contaminants", The 4<sup>th</sup> International Student Conference on Advanced Science and Technology (ICAST2010), May 25-26, 2010, Izmir, TURKEY
- 17. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Degradation of Glycerol by Electrolysis in Sub-critical Water", 12<sup>th</sup> European Meeting on Supercritical Fluids, May 9-12, 2010, Graz, AUSTRIA
- 18.** Mitsuru Sasaki, **Yuksel Asli**, Wahyudiono, Motonobu Goto, "Continuous Degradation of Model BDF Production Waste Using Hydrothermal Electrolysis", The 5<sup>th</sup> International Symposium on Applications of Supercritical Fluids in Green Chemistry and Material Sciences, March 8-9, 2010, TAIWAN
- 19.** Mitsuru Sasaki, Takanari Oshikawa, Hiromichi Koga, **Asli Yuksel**, Wahyu Diono, Motonobu Goto, "Reaction Pathway Analysis for Electrolysis of Alcohols and Sugars in Sub-Critical Water", 09AIChE Annual Meeting, November 8-13, 2009, Nashville, TN, USA
- 20. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Treatment of Biodiesel Wastewater with Hydrothermal Electrolysis", SCEJ (The Society of Chemical Engineers, Japan) 2<sup>nd</sup> Three-Branch Joint Meeting, October 30-31, 2009, Kitakyushu, JAPAN
- 21.** Wahyudiono, Taku Kuroda, **Asli Yuksel**, Mitsuru Sasaki and Motonobu Goto, "Hydrothermal Processes for Removal of Wastewater Containing Organic Pollutants", The 6<sup>th</sup> International Symposium on Supercritical Fluid Technology (Supergreen 2009), October 15-17, 2009, Tohoku University, Sendai, JAPAN
- 22. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Treatment of Biodiesel Wastewater by Electrolysis in Sub-critical Water", The 6<sup>th</sup> International Symposium on Supercritical Fluid Technology (Supergreen 2009,) October 15-17, 2009, Tohoku University, Sendai, JAPAN
- 23. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Electrolysis of BDF Wastewater by Batch and Flow Type Reactors", 2<sup>nd</sup> Hope Meeting "Art in Science" (together with Nobel laureates), September 27-October 1, 2009, Hakone, Kanagawa Prefecture, JAPAN



- 24. Asli Yuksel**, Mitsuru Sasaki and Motonobu Goto, "Treatment of Model Biodiesel Wastewater by Autoclave Electrolysis in Sub-critical Water", Kumamoto University Global COE Program "Global Initiative Center for Pulsed Power Engineering" International COE Forum on Pulsed Power Engineering & Young Researcher Training Camp, September 13-16, 2009, Kumamoto, JAPAN
- 25.** Mitsuru Sasaki, Takanari Oshikawa, **Asli Yuksel**, Hiromichi Koga, Yutaka Kuwahara, Motonobu Goto, "Electrolysis Reaction Pathways for Alcohols and Sugars in Sub-Critical Water," International Conference on High Pressure Science and Technology (Joint AIRAPT-22 & HPCJ-50), July 26-31, 2009, Odaiba, Tokyo, JAPAN
- 26. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Treatment of Model Biodiesel Wastewater by Autoclave Electrolysis in Sub-critical Water", 46th Godo Conference, July 11, 2009, Kitakyushu, JAPAN
- 27. Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, Motonobu Goto, "Treatment of BDF Wastewater with Hydrothermal Electrolysis", 9<sup>th</sup> International Symposium on Supercritical Fluids (ISSF 2009), May 18-20, 2009, Arcachon, FRANCE
- 28.** Motonobu Goto, **Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, "Hydrothermal Electrolysis of BDF Wastewater Containing Glycerol", The 4<sup>th</sup> International Symposium on Material Cycling Engineering, March 10-11, 2009, Osaka, JAPAN
- 29. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Electrolysis of BDF Wastewater by Batch and Flow Type Reactors", Green & Sustainable Chemistry Network 2009 (GSCN), March 9-10, 2009, Tokyo, JAPAN
- 30. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, "Electrolysis of Organic Compounds in Sub-critical Water", Japan-South Korea International Joint Symposium, December 6-8, 2008, Saga, JAPAN
- 31.** Motonobu Goto, Hiromichi Koga, **Asli Yuksel**, Mitsuru Sasaki, Yutaka Kuwahara, "Electrochemical Reaction of Alcohols in Sub-Critical Water", 08AIChE Annual Meeting, November 16-21, 2008, Philadelphia, USA
- 32. Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Electrolysis of Various Alcohols in Sub-critical Water for Understanding Electrochemical Reaction Behavior", International Solvothermal and Hydrothermal Association Conference 2008 (ISHA2008), September 8-10, 2008, Nottingham, UK
- 33. Asli Yuksel**, Hiromichi Koga, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Electrolysis of Organic Compounds in Sub-critical Water", 2<sup>nd</sup> International Symposium on Applications of Supercritical Fluids in Green Chemistry and Material Science, June 26-28, 2008, Kumamoto, JAPAN
- 34.** Motonobu Goto, **Asli Yuksel**, Hiromichi Koga, Rumiko Hayashi, Wahyudiono, Mitsuru Sasaki, "Reaction of Organic Compounds by Hydrothermal Electrolysis in Subcritical Water", The 3<sup>rd</sup> International Symposium on Material Cycling Engineering, March 13-14, 2008, Osaka, JAPAN
- 35. Asli Yuksel**, Wahyudiono, Mitsuru Sasaki, Motonobu Goto, "Hydrothermal Electrolysis of Various Alcohols in Sub-critical Water", The 5<sup>th</sup> International Symposium on Supercritical Fluid Technology (Supergreen 2007), November 28-30, 2007, Seoul National University, Seoul, SOUTH KOREA
- 36. Asli Yuksel**, Wahyudiono, Rumiko Hayashi, Mitsuru Sasaki, Motonobu Goto, "Electrical Treatment of Various Alcohols in Sub-critical Water for Understanding

Electrochemical Reaction Behavior”, International Symposium on Eco Topia Science 2007, November 23-25, 2007, Nagoya, JAPAN

**37. Asli Yuksel**, Wahyudiono, Mitsuru Sasaki, Motonobu Goto, “Hydrothermal Electrolysis of Organic Contaminants”, 07 AIChE Annual Meeting, November 4-9, 2007, Salt Lake City, Utah, USA

**38. Asli Yuksel**, Mitsuru Sasaki, Motonobu Goto, “Hydrothermal Electrolysis of Organic Compounds”, Society of Chemical Engineers, Japan The 39<sup>th</sup> Autumn Meeting, September 13-15, 2007, Sapporo, JAPAN

**39. Asli Yuksel**, Taku Kuroda, Rumiko Hayashi, Mitsuru Sasaki, Motonobu Goto, “Hydrothermal Electrolysis of Organic Wastewater Contaminants”, 1<sup>st</sup> International Symposium on Applications of Supercritical Fluids in Green Chemistry and Material Science, March 2-6, 2007, Beijing, CHINA

## LIST OF NATIONAL CONFERENCE PRESENTATIONS

1. Gökalp Gözaydın, **Aslı Yüksel Özşen**, ‘Hydrothermal Degradation of Various Biomasses into Value-Added Chemicals, 12<sup>th</sup> National Chemical Engineering Conference (UKMK2016), August 23-26, 2016, Wyndham Grand Hotel, İzmir, TURKEY
2. Meral Dukkanci, **Asli Yuksel**, Gonul Gunduz, Wet Air Oxidation of Formic Acid inside Wastewaters, 7<sup>th</sup> National Chemical Engineering Conference (UKMK-7), September 5-8, 2006, Eskisehir, TURKEY

## HONORS & AWARDS & SCHOLARSHIPS

- “**IZTECH The Best Academician Award**”, July 12, 2019, IZTECH, TURKEY
- “**Post Doctoral Fellowship Award**” by The Scientific and Technological Research Council of Turkey (TUBITAK-BIDEB-2219 First Term Program).
- “**Academic Excellence (University President's) Award**”, New Frontier Sciences, Kumamoto University, March 25, 2011, JAPAN
- **Invited Researcher** by JSPS (Japan Society for the Promotion of Science) to attend a workshop called “3<sup>rd</sup> Hope Meeting” together with Nobel laureates, March 7-11, 2010, Tokyo, JAPAN
- **Grantee by JSPS** as a young researcher to attend a workshop called “2<sup>nd</sup> Hope Meeting: Art in Science” together with Nobel laureates, September 27-October 1, 2009, Hakone, Kanagawa Prefecture, JAPAN
- **Japanese Government (Monbukagakusho:Mext) Scholarship for Ph.D. Course** in Graduate School of Science and Technology, Kumamoto University, Japan (2008-2011)
- **Japanese Government (Monbukagakusho:Mext) Scholarship for M.Sc. Course** in Graduate School of Science and Technology, Kumamoto University, Japan (2006-2008)

- **Best student graduation award** (90.11/100) from Ege University, Chemical Engineering Department in 2005-2006 autumn semester **and second best student graduation award** from Faculty of Engineering in the same semester
- **Ege University Science and Technology Research Center Scholarship (EBİLTEM)**, Turkey (2005-2006)

#### **Awards from International Conferences:**

- **“Best PhD Student Presentation Award”** from SCEJ (The Society of Chemical Engineers, Japan) November 18-19, 2010, Nagasaki, Japan
- **“The Excellence Award”** in oral presentation competition for students at the 2nd International Solvothermal & Hydrothermal Association Conference (ISHA2010), July 27-29, 2010, Beijing, CHINA
- **“Best Presentation Award”** from 4th International Symposium on Material Cycling Engineering, March 10, 2009, Osaka, JAPAN
- **“Best Poster Award”** from Supergreen 2007 the 5th International Symposium on Supercritical Fluid Technology, November 28-30, 2007, Seoul, Korea
- **“Best Presentation Award”** from 1st International Symposium on Applications of Supercritical Fluids in Green Chemistry and Material Science, March 2-6, 2007, Beijing, China

### **GIVEN LECTURES**

#### **Under Graduate Lectures:**

- CHE 220 Thermodynamics I (Credit: 3)
- CHE 411 Chemical Engineering Lab III (Credit: 4)
- CHE 302 Chemical Kinetics and Reactor Design (Credit: 4)
- CHE 312 Separation Processes (Credit: 4)
- CHE 420 Engineering Economics and Design (Credit: 4)
- CHE 421 Engineering Design (Credit: 4)

#### **Graduate Lectures:**

- CHE 553 Supercritical Fluid Technologies (Credit: 3)
- CHE 542 Water and Waste Treatment (Credit: 3)

### **GRADUATE STUDENT SUPERVISING**

#### **Master Students:**

Saken Dadenov, Biotechnology (2013- 2015)  
 Gökalp Gözaydın, Chemical Engineering (2014- 2016)  
 Orkan Dal, Chemical Engineering (2017- 2019)  
 Duygu Şengün, Chemical Engineering (2016- 2018)  
 Çağlar Erşanlı, Chemical Engineering (2016- 2018)  
 Ayca Sapmaz, Chemical Engineering (2019- Continue)  
 Gülin Gümüşbulut, Chemical Engineering (2019- Continue)

**PhD Students:**

Okan Akin, Chemical Engineering (2013-2017)

Ceren Orak, Chemical Engineering (2017- continue)

Yaşar Kemal Recepoğlu, Chemical Engineering (2017-continue)

**PROFESSIONAL ASSOCIATIONS**

- American Chemical Society (ACS)
- The Materials Research Society (MRS)
- International Solvothermal & Hydrothermal Association (ISHA)
- Chemical Engineering Society of Japan
- American Institute of Chemical Engineers (AIChE)
- Ege University Science and Technology Association

**LANGUAGE SKILLS**

English : Advanced (TOEFL-IBT: 82 / 120 (2011) ; TOEIC: 710 / 900 (2006))

Japanese: Intermediate (Japanese Language Proficiency Test (JLPT): 308 / 400 (2010))