



BURCU SIRMA

PERSONAL DETAILS

Date of birth: March 31, 1991

Nationality: Turkish

✉ burcusirma@iyte.edu.tr

☎ +90 232 750 66 74

♥ İzmir Institute of Technology
Department of Chemical Engineering
Office number: 115
Urla, 35430 İzmir/Turkey

LANGUAGES

Turkish: Native Language

English: Professional working proficiency

RESEARCH FIELDS

- Biomaterials
- Peptide based materials
- Polymeric coatings
- Processing techniques
- Liquid crystal polymer coatings
- Light sensitive smart materials
- Oscillating coatings

IT PROFICIENCY

- Mathcad
- Origin
- Minitab
- MS Office 2003-2016
- Windows and Ubuntu

EDUCATION

| | | |
|--------------|---|---------------------------------|
| 2018-present | İzmir Institute of Technology Ph.D. - Chemical Engineering GPA: 4.00/4.00 (ongoing) | ♥ İzmir, Turkey |
| 2015-2018 | Ege University M.Sc. - Chemical Engineering GPA: 3.47/4.00 | ♥ İzmir, Turkey |
| 2016-2017 | Eindhoven University of Technology Research Project Chemical Engineering and Chemistry GPA: 30/30 | ♥ Eindhoven, The Netherlands |
| 2011-2015 | İstanbul University B.Sc. - Chemical Engineering GPA: 3.67/4.00 | ♥ İstanbul, Turkey |
| 2010-2011 | İstanbul University Preparatory Class | |
| 2006-2010 | İzmir Atatürk High School Physical Sciences GPA: 79/100 | ♥ İzmir, Turkey |

WORK EXPERIENCES

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|------------------------|---|--------------------|
| May 2018-present | Research Assistant İzmir Institute of Technology Department of Chemical Engineering | ♥ İzmir, Turkey |
| Jul. - Sept. 2014 | Manufacturing Intern Material and Production Planning Esen Plastic San. Tic. A.Ş. | ♥ İzmir, Turkey |
| Sept. 2013 - June 2014 | Student Assistant İstanbul University Department of Chemical Engineering | ♥ İstanbul, Turkey |
| Jul - Sept. 2013 | Laboratory Intern Process and Quality Control Laboratory Kansai Altan Boya San. A.Ş. | ♥ İzmir, Turkey |



PROJECT EXPERIENCES

- Sept. 2016-Jul. 2017 **Master's Thesis Project:** "Enhanced Surface Topographies in Liquid Crystal Polymer Networks"
Eindhoven University of Technology
- Sept. 2016-Jul. 2017 **Collaborative Research Project:** "Photoresponsible Liquid Crystal Polymer Droplets"
Eindhoven University of Technology & South China University of Technology
- Sept. 2014-Jul. 2015 **Bachelor's Thesis Project:** "Recycling of poly(ethylene terephthalate)"
İstanbul University



SYMPOSIUMS, CONGRESS AND CONFERENCES

- Oral Presentation: "Smart Layered System Based on Liquid Crystal Polymer Networks", IV. International Ege Composite Materials Symposium KOMPEGE 2018, Sept. 6-8, 2018, İzmir/Turkey
(Presentation was awarded 1st place of the best oral presentation of all)
- Poster Presentation: "Permanent Surface Deformations on Light-Responsive Liquid Crystal Polymer Network Droplets", IV. International Ege Composite Materials Symposium KOMPEGE 2018, Sept. 6-8, 2018, İzmir/Turkey
- Poster Presentation: "Physicochemical, Functional, Antioxidant and Antibacterial Properties of Chitosan Extracted from Shrimp Wastes", International Workshop on Special Topics on Polymeric Composites, Ege University-Mechanical Engineering Department, Feb. 24-26, 2016, İzmir/Turkey
- Poster Presentation: "Chemical Recycling of Poly(ethylene terephthalate)", 3rd National Students Congress of Chemical Engineering, İstanbul University, Mar. 27-29, 2015, İstanbul/Turkey
- Poster Presentation: "Comparison of Solid-Liquid Equilibrium Data for the Adsorption of Propionic Acid from Aqueous Solution onto Amberlite XAD-16", 11th National Chemical Engineering Congress, Eskişehir Osmangazi University, Sept., 2-5, 2014, Eskişehir/Turkey



PUBLICATIONS

- Hendrikx, M., Sirma, B., Schenning, A. P., Liu, D., & Broer, D. J. (2018). Compliance-Mediated Topographic Oscillation of Polarized Light Triggered Liquid Crystal Coating. *Advanced Materials Interfaces*, 5(20), 1800810



CERTIFICATES

- Ege University: Mechanical Engineering Department - International Workshop on Special Topics on Polymeric Composites - Certificates of Attendance
- İstanbul Business Institute: Production Management -Certificates of Attendance
- İstanbul Business Institute: TS EN ISO 9001 Quality Management System- Certificate of Attendance
- İstanbul University: Industrial and Quality Club - Traditional, Development Enterprise Days Certificate
- İstanbul University: Industrial and Quality Club and Global CV Business Solutions Certificate