Unknown of Recycling for Innovative Solutions

İbrahim BİLİCİ
Chemical Engineering at the Hitit University : Associate Professor

https://doi.org/10.5109/5909050

出版情報：Proceedings of International Exchange and Innovation Conference on Engineering & Sciences (IEICES). 8, pp.21-22, 2022-10-20. Interdisciplinary Graduate School of Engineering Sciences, Kyushu University
バージョン：

Keynote Speaker

Short Biography

İbrahim BİLİCİ is Associate Professor of Chemical Engineering at the Hitit University. He received M.Sc. degree about chemical engineering at same university in 2006. Ph.D. thesis was about waste evaluation from Ankara University Chemical Engineering Department in 2012. He worked as R&T at Gazi University, Hitit University, and Ankara University respectively. He has been as a post doctorate and visiting researcher in Waterloo University, Ontario, Canada, and Abu Dhabi Petroleum Institute, Abu Dhabi UAE. His main research interest lies in the area of recycling, composite materials and waste plastics. He has been funded for several research projects from government and industry. He is currently advising on the establishment of a PMMA factory and assistant director of Hitit University Central Research and Application Laboratory (HUBTUAM).

Unknown of Recycling for Innovative Solutions

Abstract

For many, environmentalism begins with the recycling symbol and ends at the recycling bin. The simple act of throwing something away into a large box marked with a recycling sign is enough to make some of us feel like we've done our part. However, recycling is a lot more complicated, and the process of recycling plastics has significantly lots of constrains.

It's a system dictated by market demand, price determinations, local regulations, the success of which is contingent upon everyone, from the product-designer to the trash-thrower, to the waste collector, to the recycling factory worker.

The consumers and recycle methods or recycling factories play a much more critical role than we might imagine– depending on how we use our products and their value and quality post-use. Recycled goods have to compete with new products in the market; who wants to buy something of lower quality? Another important key is the carbon footprint during recycling. Is the action worth it?