

Establishment of sustainable bioplastic economy via closed carbon loop

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Recently, plastic wastes causes serious social and environmental problems including Plastic Island in ocean. Because conventional plastic recycling process can't solve the problems, other technologies have been actively developed. To solve the problems, numerous solutions have been reported. Among them, two technologies including biodegradable plastic and repurposing technology for unutilized resources or wastes have been gained attention to solve the recent social. By biodegradable plastic, the accumulation of plastic waste can be managed. Here, closed carbon loop which combine biodegradable plastic technology with repurposing technology of plastic wastes has been suggested to establish sustainable plastic economy for the first time. Detailed will be presented in seminar