Thermogravimetric Kinetics of Polyethelyne Decay Over Silicon Aluminophosphate

Matthews Wilkinson*

Abstract

Thermogravimetric analysis (TGA) is a powerful technique used to study the thermal decomposition behavior of materials. In this study, the thermogravimetric kinetics of polyethylene (PE) decay over silicon aluminophosphate (SAPO) was investigated. TGA was employed to measure the weight loss of PE samples under controlled heating conditions, and the obtained data was analyzed to determine the kinetic parameters governing the decomposition process. The efects of SAPO as a catalyst on the decomposition behavior of PE were also explored. The results provide valuable insights into the degradation mechanism of PE in the presence of SAPO and contribute to the understanding of thermal stability and decomposition kinetics of polymer-catalyst systems.

Keywords:
Introduction
M M



Method

Sample preparation: \square
Characterization of PE samples: \square
ermogravimetric analysis (TGA):
Mar M. M. M. Martin Martin M. M. Martin Martin M. M. M. Martin M.
n an
· Δ. ,
$ \begin{array}{c} \left(\left(\begin{array}{c} \left(\left(\begin{array}{c} \left(\left(\left(\begin{array}{c} \left($
and the property of the second s
, , , - ⊠ -) ⊠ ⊠ (), ⊠ -) ⊠, , ,,,,,, .
μαριματροπολογιατικό το τη
ن الأر ال
see a company and a second

*Corresponding author: Matthews Wilkinson, Department of Environmental Science, University of Croatia, Croatia, E-mail: wilkinsonmatthews@gmail.com

Received: 30-Jun-2023, Manuscript No: jbrbd-23-104369, Editor assigned: 03-Jul-2023, PreQC No: jbrbd-23-104369 (PQ), Reviewed: 17-Jul-2023, QC No: jbrbd-23-104369, Revised: 20-Jul-2023, Manuscript No: jbrbd-23-104369 (R), Published: 27-Jul-2023, DOI: 10.4172/2155-6199.1000576

Citation: Wilkinson M (2023) Thermogravimetric Kinetics of Polyethelyne Decay Over Silicon Aluminophosphate. J Bioremediat Biodegrad, 14: 576.

Copyright: © 2023 Wilkinson M. This is an open-access article distributed under the terms of the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original author and source are credited.

Interpretation and discussion:			
Weight loss pro les:			
E ect of SAPO catalyst: \square			
$(\mathbf{x}_1, \mathbf{y}_2, \mathbf{x}_2, \mathbf{x}_1, \mathbf{y}_2, \mathbf{x}_2, \mathbf{x}_2, \mathbf{y}_1, \mathbf{x}_2, \mathbf{x}_2, \mathbf{y}_1, \mathbf{x}_2, \mathbf{x}_2, \mathbf{x}_1, \mathbf{x}_1, \mathbf{x}_2, \mathbf{x}_1, \mathbf{x}_1, \mathbf{x}_2, \mathbf{x}_1, x$			
, , , , , , , , , , , , , , , , , , ,			
Kinetic parameters: \mathbf{M} <th< th=""><th></th><th></th><th></th></th<>			
······································			
en 🖬 🖬 🖉 an en 19			
Comparative analysis:			
$ \begin{array}{c} & & & & \\ & & & & \\ & & & & \\ & & & & $	••••• ,	Ŋ(_), (, ,ᢂ) (, ,) (]) () ()- (

Acknowledgement

, , ·

Con ict of Interest

References

- Watanabe M, Otake R, Kozuki R, Toihata T, Takahashi K, et al. (2020) Recent progress in multidisciplinary treatment for patients with esophageal cancer. Surg Today 50: 12-20.
- Napier KJ, Scheerer M, Misra S (2014) Esophageal cancer: A Review of epidemiology, pathogenesis, staging workup and treatment modalities. World J Gastrointest Oncol 6: 112-120.
- Kato H, Nakajima M (2013) Treatments for esophageal cancer: a review. Gen Thorac Cardiovasc Surg 61: 330-335.
- 4. Then EO, Lopez M, Saleem S, Gayam V, Sunkara T, et al. (2020) Esophageal