Web of Science

InCites

Journal Citation Reports

Essential Science Indicators

EndNote

Sign In 🔻

Help

English -

# Web of Science

Search

Search Results

My Tools ▼

Search History

**Marked List** 

Full Text from Publisher

**I Look Up Full Text** 



Save to EndNote online

Add to Marked List

230 of 723

# Influence of type of zinc salts on photoinitiated living cationic polymerization of vinyl ethers

By: Kahveci, MU (Kahveci, Muhammet U.)[1,2]; Oytun, F (Oytun, Faruk)[1]; Yagci, Y (Yagci, Yusuf)[ 1,3,4 ]

#### **POLYMER**

Volume: 54 Issue: 18 Pages: 4798-4801 DOI: 10.1016/j.polymer.2013.07.037

Published: AUG 16 2013 **View Journal Impact** 

#### Abstract

Activities of a series of zinc salts in Lewis-acid-mediated cationic photopolymerization of vinyl ethers have been studied. Readily soluble zinc salts including zinc stearate, zinc acetate and zinc oxide; zinc iodide; and metallic zinc were employed as a Lewis acid in propagation stage of the cationic polymerization initiated by photolysis of a substituted vinyl halide, 1-bromo-1,2,2-tris(pmethoxyphenyl)ethene (AAAVB). As a model monomer isobutyl vinyl ether (IBVE) was polymerized by the described system in the presence of the zinc salts or metallic zinc for investigation of efficiencies of the Lewis acids. Novel system containing organo-zinc compounds yielded polymers in more controlled manner. For further evaluation of potential living character of the system, polymerization of IBVE catalyzed by zinc stearate was monitored, and as a result, the polymerization showed quasi-living nature. Activity of the catalyst system in photo-induced crosslinking of difunctional vinyl ether was evaluated as well. (C) 2013 Elsevier Ltd. All rights reserved.

#### Keywords

Author Keywords: Photopolymerization; Cationic polymerization; Living polymerization KeyWords Plus: CARBOCATIONIC POLYMERIZATION; CYCLOHEXENE OXIDE; ROOM-TEMPERATURE; VISIBLE-LIGHT; INITIATING SYSTEMS; SULFONIUM SALT; DIVINYL ETHERS; LEWIS-ACID; HALIDES; IODIDE

## **Author Information**

Reprint Address: Kahveci, MU (reprint author)

Istanbul Tech Univ, Fac Sci & Letters, Dept Chem, TR-34469 Istanbul, Turkey.

#### Addresses:

🛨 [1] Istanbul Tech Univ, Fac Sci & Letters, Dept Chem, TR-34469 Istanbul, Turkey

[2] Yildiz Tekn Univ, Fac Chem & Met Eng, Dept Bioengn, TR-34220 Istanbul, Turkey

[3] King Abdulaziz Univ, Ctr Excellence Adv Mat Res, Fac Sci, Jeddah 21589, Saudi Arabia Organization-Enhanced Name(s)

King Abdulaziz University

[4] King Abdulaziz Univ, Dept Chem, Fac Sci, Jeddah 21589, Saudi Arabia

Organization-Enhanced Name(s)

King Abdulaziz University

E-mail Addresses: mkahveci@yildiz.edu.tr; yusuf@itu.edu.tr

#### **Publisher**

# Citation Network

3 Times Cited

44 Cited References

View Related Records



Create Citation Alert

(data from Web of Science Core Collection)

#### All Times Cited Counts

3 in All Databases

3 in Web of Science Core Collection

0 in BIOSIS Citation Index

0 in Chinese Science Citation Database

0 in Data Citation Index

0 in Russian Science Citation Index

0 in SciELO Citation Index

#### **Usage Count**

Last 180 Days: 3 Since 2013: 44

Learn more

#### **Most Recent Citation**

Dadashi-Silab, Sajjad. Photoinduced Electron Transfer Reactions for Macromolecular Syntheses. CHEMICAL REVIEWS, SEP 14 2016.

View All

This record is from: Web of Science Core Collection - Science Citation Index Expanded

#### Suggest a correction

If you would like to improve the quality of the data in this record, please suggest a correction.

**FEEDBACK** 

ELSEVIER SCI LTD, THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, OXON, ENGLAND

### Categories / Classification

Research Areas: Polymer Science

Web of Science Categories: Polymer Science

#### **Document Information**

Document Type: Article Language: English

Accession Number: WOS:000323240200005

ISSN: 0032-3861 elSSN: 1873-2291

#### **Journal Information**

Table of Contents: Current Contents Connect Impact Factor: Journal Citation Reports

#### **Other Information**

IDS Number: 202SP

Cited References in Web of Science Core Collection: 44 Times Cited in Web of Science Core Collection: 3

230 of 723

© 2017 CLARIVATE ANALYTICS TERMS OF USE PRIVACY POLICY