



ACS 介绍及演示

.....

iGroup 亚太资讯公司
2006年

Agenda

- ♣ **ACS**介绍
- ♣ **ACS**期刊介绍
- ♣ **ACS**在线期刊的使用

ACS (American Chemical Society 美国化学学会)

成立于**1876**年，是世界上最大的科技学会；会员数超过**16.3**万。



Agenda

- ♣ ACS介绍
- ♣ ACS期刊介绍
- ♣ ACS在线期刊的使用



ACS出版部门

一直致力于为全球化学研究机构、企业、个人提供高品质的文献资讯及服务，已成为享誉全球的科技出版机构。

High Quality High Impact



ACS期刊介绍

♣ **ACS**的期刊涵盖领域和列表

♣ **ACS**期刊的成就及最新信息

♣ **ACS**在线期刊的特色



ACS的出版物内容涵盖了**24**个主要的领域

传统化学范畴.....

C 代表 **Chemistry!**

- ♣ **Analytical Chemistry**
- ♣ **Physical Chemistry**
- ♣ **Chemical Engineering**
- ♣ **Inorganic and Organic Chemistry**



同时超越了传统化学领域

♣ C还代表Chemistry?

- ♣ Molecular Pharmaceuticals
- ♣ Pharmaceuticals
- ♣ Polymer and Materials Science
- ♣ Nanotechnology
- ♣ Microbiology
- ♣ Toxicology
- ♣ Plant Sciences

ACS出版的35种期刊列表

- ♣ Accounts of Chemical Research
- ♣ Analytical Chemistry
- ♣ Biochemistry
- ♣ Bioconjugate Chemistry
- ♣ Biomacromolecules
- ♣ Biotechnology Progress
- ♣ Chemical Research in Toxicology
- ♣ Chemical Reviews
- ♣ **Chemistry of Materials**

ACS出版的35种期刊列表

- ♣ Crystal Growth & Design
- ♣ Energy & Fuels
- ♣ Environmental Science & Technology
- ♣ Industrial & Engineering Chemistry Research
- ♣ Inorganic Chemistry
- ♣ Journal of Agricultural and Food Chemistry
- ♣ **Journal of the American Chemical Society**
- ♣ Journal of Chemical & Engineering Data

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- ♣ Journal of Chemical Information and Modeling
- ♣ Journal of Chemical Theory and Computation
- ♣ Journal of Combinatorial Chemistry
- ♣ Journal of Medicinal Chemistry
- ♣ Journal of Natural Products
- ♣ The Journal of Organic Chemistry
- ♣ The Journal of Physical Chemistry A
- ♣ **The Journal of Physical Chemistry B**
- ♣ Journal of Proteome Research

ACS出版的35种期刊列表

- 
- 
- ♣ **Langmuir**
 - ♣ **Macromolecules**
 - ♣ **Modern Drug Discovery**
 - ♣ **Molecular Pharmaceutics**
 - ♣ **Nano Letters**
 - ♣ **Organic Letters**
 - ♣ **Organic Process Research & Development**
 - ♣ **Organometallics**
 - ♣ **Chemical & Engineering News(单独订购)**
 - ♣ **ACS Chemical Biology (*New in 2006!*)**



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ACS期刊成就

早在**1927**年, 《**Science**》杂志就评价:

“对于任何一所美国大学来说, 其首先必备的
化学学科馆藏就是**ACS**出版的完整的:

**The Journal of the American Chemical
Society, Chemical Abstracts和 The
Journal of Industrial and Engineering
Chemistry ”**

——P.K.L. Gross and E. M. Gross, **Science**,
New Series, Vol.66, No. 1713(Oct.28,1927), 385-389

ACS 期刊的成就

被ISI的Journal Citation Report (JCR)评为：
化学领域中，被引用次数最多之化学期刊。

ACS在7类化学刊物中引用排名第一：（2005年）

- ♣ **Journal of the American Chemical Society** 引用排名第1 (257810)
- ♣ **Journal of Organic Chemistry** 引用排名第1 (79573)
- ♣ **Macromolecules** 引用排名第1 (71840)
- ♣ **Analytical Chemistry** 引用排名第1 (64301)
- ♣ **The Journal of Physical Chemistry B** 引用排名第1 (59826)
- ♣ **Inorganic Chemistry** 引用排名第1 (56284)
- ♣ **Environmental Science & Technology** 引用排名第1 (39785)
- ♣ **Journal of Medicinal Chemistry** 引用排名第1 (35053)
- ♣ **Journal of Agricultural and Food Chemistry** 引用排名第1 (32470)

ACS部分期刊影响因子

(在各自刊物类别内)

- ♣ Chemical Reviews (综合化学类)
影响因子排名第1 (20.869)
- ♣ Analytical Chemistry (分析化学类)
影响因子排名第1 (5.635)
- ♣ Environmental Science & Technology (环境工程类)
影响因子排名第一 (4.054)
- ♣ Nano Letters (纳米科技类, 新类别)
影响因子排名第1 (9.847)

若要了解有关ACS刊物引用排名的更多信息, 请访问
Librarian Resource Center的 ISI Journal Citation Reports Analyses,
网址为 <http://pubs.acs.org/4librarians>

Journal of the American Chemical Society

- ❖ 创刊于**1879**年，是**ACS**期刊中历史最悠久、最负盛名的期刊；
- ❖ 每周出版，出版的文章超过**17000**页
- ❖ 关注化学研究的方方面面；
- ❖ 影响因子**7.419**在综合化学类期刊中排名第五
- ❖ 以**257,810**的引用次数在化学类的期刊中排名第一，且比第二名的三倍还高，占了此类别总引用量的一半

The Journal of Physical Chemistry B

- ♣ 在物理化学类**111**本期刊中，以**59826** ... 的总引用量排名第一；
- ♣ **2005**年影响因子达到**4.033**；
- ♣ 由于**The Journal of Physical Chemistry C**将出版，**2007**年起本期刊的内容将更专注于大分子、表面活性剂、薄膜、统计力学、热动力学、媒介作用和生物物理化学的研究



Chemistry of Materials

- ♣ 特别关注与开发具有新颖性、可用光学、电学、磁性特性的材料想关的研究
- ♣ 影响因子**4.818**，在发表文章超过**100**篇的材料学期刊中排名第五
- ♣ **10**多年来在材料化学类期刊中引用次数排名第一
- ♣ **2005**年引用次数达到**33,648**，比**2004**年增加了**27%**



更多关于**ACS**期刊影响因子、被引用的情况

请访问：

<http://pubs.acs.org/4librarians/isi.html#multichem>



2007特别介绍...

The Journal of Physical Chemistry C

- 具有辉煌的历史- 目前已经有110年的历史
- 在最近10年, 每年刊登文章的页数的增长都超过了70%
- 新的编辑领导 -

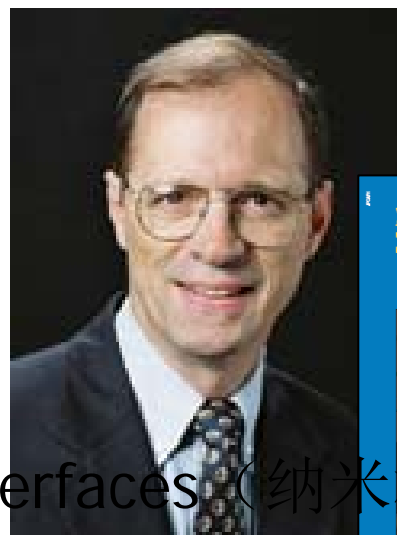
Dr. George C. Schatz (2005)

- 按照学科的子类别进行重组

→ Part A – molecules (分子)

→ Part B – materials (材料)

→ Part C – nanomaterials and interfaces (纳米材料和界面)





2007中旬...

- 将推出一本**ACS**的新期刊，暂时定名位：

NanoScience and NanoTechnology

- 作为依托化学领域旗舰学会的期刊，将刊登关于纳米等级研究的全文、综述和特别热论文章
- 作为已经高度成功的***Nano Letters***和**ACS**出版的其它物理化学和材料学的期刊的补充
- 题目包括: **nanoparticles, engineered nanostructures, nanomaterials, nanocomponents, and nanodevices**
- **2007**年所有**ACS**网络版的机构订户都可免费访问



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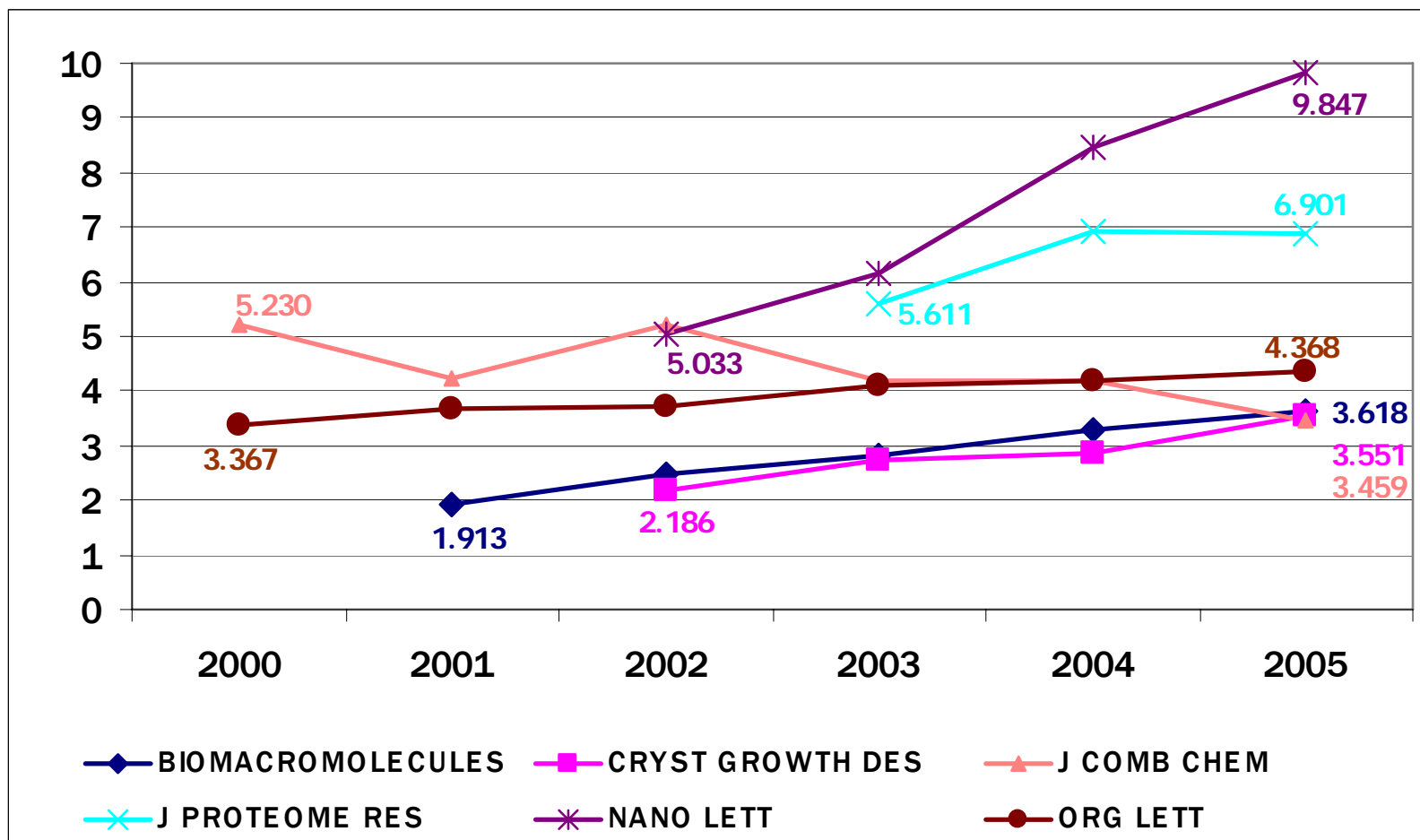
今年推出的新刊 **ACS Chemical Biology** 已经取得成功

- 2006将出版**12**期
- 已经可以通过网络访问并设有被广泛认可的开放性“社团”、吸引著名作者和研究人员的特色社论版(“Ask the Expert”, WIKI)
- 被**Nature**引用并有 **1,000**员工
- 已经被 **ISI**收录
- 特色文章集中在 教育和化学生物学领域
- 接触一个广泛的科学团体
- 目前全文的浏览已经超过了**50,000**篇





ACS 的新期刊的高影响因子





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- ♣ ACS的期刊涵盖领域和列表
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- ♣ ACS在线期刊的特色



ACS 在线期刊的特色

♣ **Articles ASAPsm**

最新文章检索，包括了还未正式发行出版的文章，**ACS** 在线期刊的使用者可以在**24到48** 小时最快的时间内查阅到被作者授权发布的文章。

♣ **CAS Linking**

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ACS 在线期刊的特色

♣ Browsing and Searching

可以检索或浏览全文与书目的资讯，並连接到ACS的期刊资料库。

♣ Enhanced graphics

各种图形表示，包含了3D彩色分子结构图；动画；图表等。

♣ 可选择HTML或PDF格式下载文献。



ACS 在线期刊的特色

- ♣ **Links To References In Other ACS Journals and Databases**

引用非ACS的文章时，也可以做与其他资料库的连接，包括PubMed ; Medline ; GenBank和Protein Data Bank等。

- ♣ **COUNTER-compliant usage statistics**

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- ♣ ACS在线期刊的使用



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- ♣ 浏览器为: **Netscape 4.0**或**Internet Explorer (IE) 5.0**或更高版本。
- ♣ **Cookies** 必须激活, 以使用户登录。
- ♣ **Adobe Acrobat Reader: 4.0**以上版本

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Print Edition ISSN: 0002-7883

Web Edition ISSN: 1520-5126

Volume: 128, 51 issues

Articles ASAP The Most Recently Published Research

Web Release Date: October 21, 2006

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 Eva M. Goldys, Krystyna Drozdowicz-Tomsia, Sun Jinjun, Dosi Dosev, Ian M. Kennedy,
 Sergey Yatsunenkov, and Marek Godlewski

 Web Release Date: 21-Oct-2006; (Article) DOI: [10.1021/ja062160z](https://doi.org/10.1021/ja062160z)
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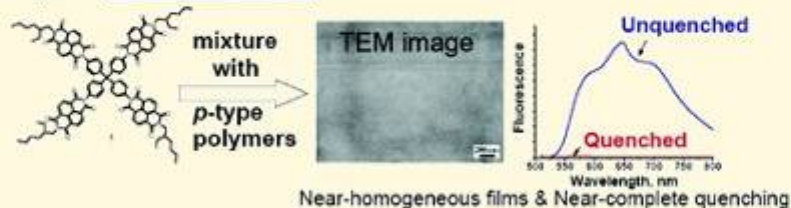
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 Palaniswamy Ganesan, Xiaoni Yang, Joachim Loos, Tom J. Savenije, Ruben D. Abellon, Han Zuilhof, and Ernst J. R. Sudhölter
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Michael J. Colaneri, Joseph A. Potenza, Harvey J. Schugar, and Jack Peisach
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J. Am. Chem. Soc.; **(Book Review)**; 1997; 119(49); 12028-12028. DOI: [10.1021/ja975609n](https://doi.org/10.1021/ja975609n)

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Perfect Electrochemical Molecular Sieving by Thin and Ultrathin Metallopolymeric Films

Belanger, S.; Stevenson, K. J.; Mudakha, S. A.; Hupp, J. T.

Langmuir; **(Correction)**; 1999; 15(3); 900-900. DOI: [10.1021/ja9900021](https://doi.org/10.1021/ja9900021)

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Bridging versus Hydride Shift in Gaseous Cations: Hydroxy as a Vicinal Substituent [*J. Am. Chem. Soc.* 1997, 119, 8342-8349]. VIET NGUYEN, JACQUELINE S. BENNETT, AND THOMAS HELLMAN MORTON*
Page 8348: The left-hand side of eq 7 should read T_{H_2} .

JA9754259
S0002-7863(97)05425-5

Book Reviews *

Aqueous Biphasic Separations: Biomolecules to Metal Ions
Edited by Robin D. Rogers (Northern Illinois University) and Mark A. Esteman (University of Georgia). Plenum, New York, 1995. viii + 191 pp. \$79.50. ISBN 0-306-45019-4.
This book, another in the useful series of volumes produced from research, including generation and characterization of carbocations, development and application of spectroscopic techniques, as well as synthetic transformations under stable-ion conditions.
J. D. Robert's foreword and G. A. Olah's introductory chapter present two main actors' personal views on the history of carbocation chemistry.

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Efficient **Electrochemical** Deprotection of Carboxylic and Amino Acids from Their 2-(Hydroxymethyl)-1,3-dithiane (Dim) Esters

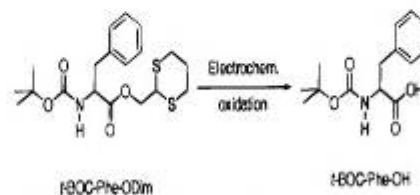
Loren A. Barnhurst, Yongqin Wan, and Andrei G. Kutateladze*

Department of Chemistry and Biochemistry, University of Denver, Denver, Colorado 80208-2436

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Received January 12, 2000

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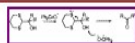


Carboxylic acids and amino acids are electrochemically deprotected from their 2-(hydroxymethyl)-1,3-dithiane (Dim) esters.



Carboxylic acids and amino acids are e

Earlier we found that photoinduced s



Our attempts to electrochemically indu
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esters (Dim esters) as *electrochemica*.

We first synthesized the Dim esters of
electrolysis in a divided cell³ (isol



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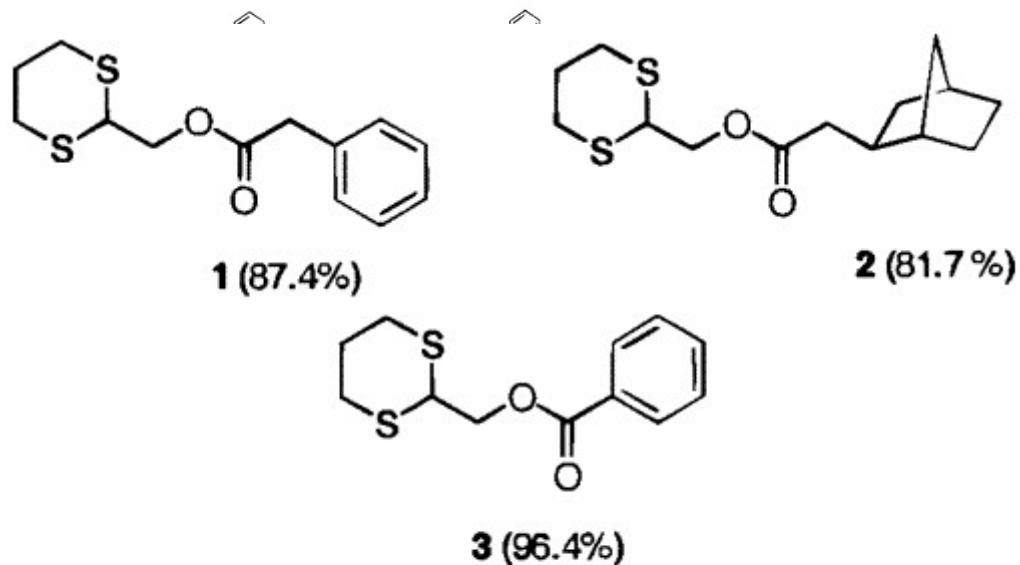
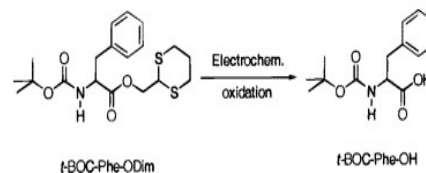


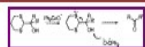
Figure 1 t

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Carboxylic acids and amino acids are electrochemically deprotected from their 2-(hydroxymethyl)-1,3-dithiane (Dim) esters.

Earlier we found that photoinduced single-electron transfer in Corey-Seebach dithiane-carbonyl adducts [1](#) leads to efficient C-C bond cleavage:²



Our attempts to electrochemically induce this reaction in the adducts carrying alkyl substituents ($R, R' = \text{H, Alk}$) led to partial dehydration, furnishing 2-alkylidene-substituted 1,3-dithianes instead. This facile elimination prompted us to explore the possibility of utilizing 2-(hydroxymethyl)-1,3-dithiane esters (Dim esters) as *electrochemically* removable protecting groups for carboxylic acids in general and, specifically, amino acids.

We first synthesized the Dim esters of simple carboxylic acids, phenylacetic (1), norbornylacetic (2) and benzoic (3), and were able to deprotect them via electrolysis in a divided cell³ (isolated yields of the deprotected acids are shown in parentheses in Figure 1).



Figure 1 t

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1. For a review see: Grobel, B.-T.; Seebach, D. *Synthesis* **1977**, 357. [[ChemPort](#)]

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An Efficient Photo-SET-Induced Cleavage of Dithiane-Carbonyl Adducts and Its Relevance to the Development of Photoremovable Protecting Groups for Ketones and Aldehydes

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McHale, William A.; Kutateladze, Andrei G.

Journal of Organic Chemistry (1996), 63(26), 9924-9931 CODEN: JOCEAH; ISSN: 0022-3263. English

Irradiation of dithiane-aldehyde/ketone adducts in the presence of benzophenone leads to C-C bond cleavage regenerating the carbonyl compounds. It is established that the mechanism of this reaction involves photochemically induced single electron transfer from the dithiane moiety to the excited molecule of ET-photosensitizer, accompanied by mesolytic C-C cleavage in the generated cation-radical, which is assisted by the anion-radical of benzophenone. This mechanism is confirmed by a Hammett plot study of the cleavage in the dithiane adducts of substituted aromatic aldehydes and a deuterium kinetic isotope effect study. Ab initio computations at UHF/6-31G* and MP2/6-31G* levels of theory in conjunction with self-consistent reaction field (self-consistent isodensity-polarized continuum model), to account for the solvent effect, also support the experimental findings. The reaction is most efficient for protection of aromatic aldehydes and ketones and aliphatic ketones, and is a novel method for protecting carbonyl



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