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- Wiley & Wiley Online Library简介
- Wiley Online Library (WOL) 化学资源介绍
- Wiley Online Library (WOL) 平台使用指南
- Wiley 的中文网站与社交媒体

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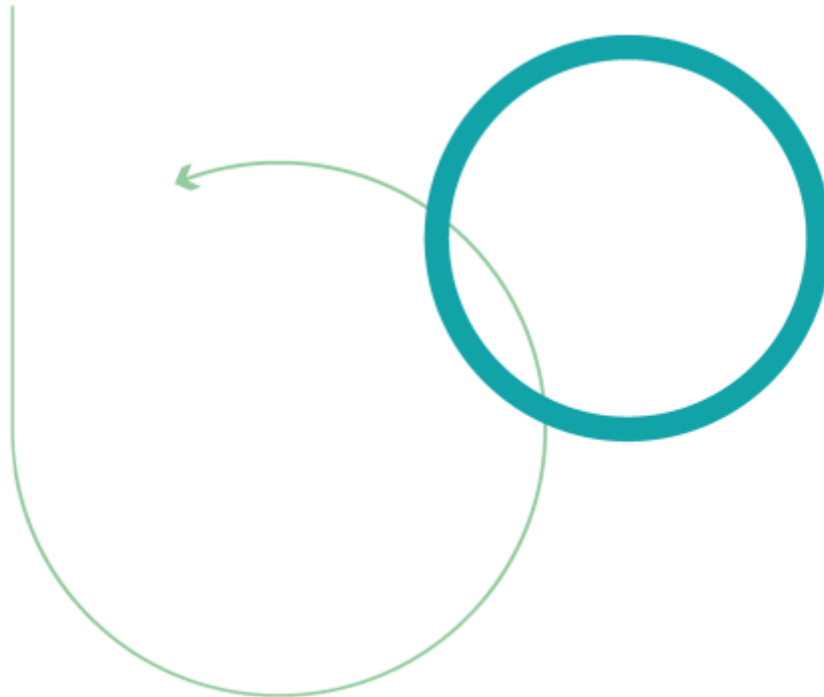
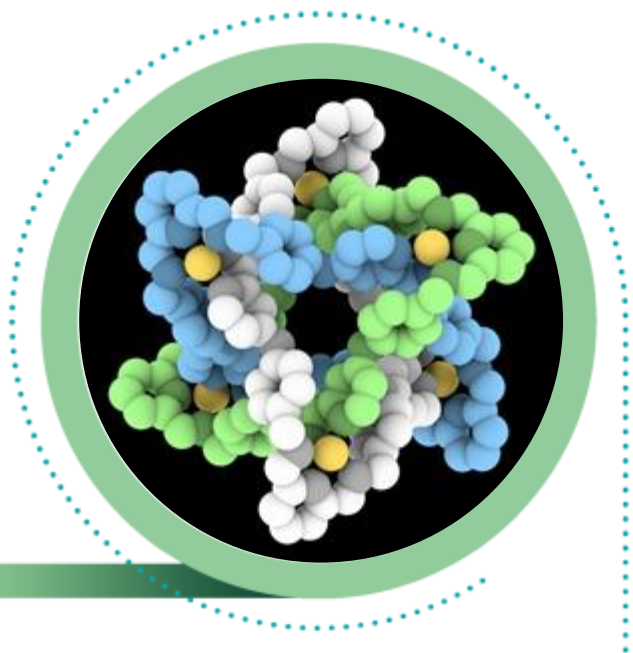
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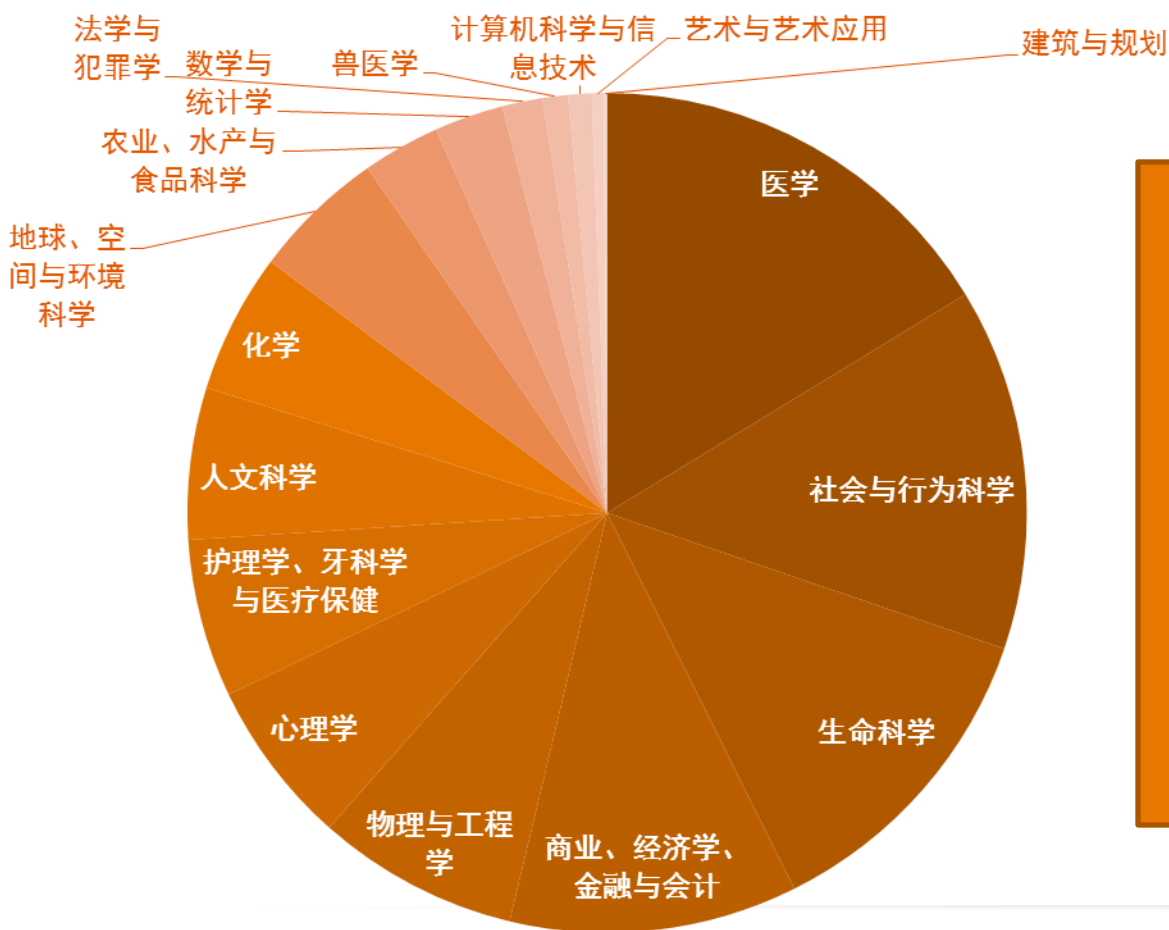
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Three-dimensional Ceramic/Camphene-based Coextrusion for Unidirectionally Macrochanneled Alumina Ceramics with Controlled Porous Walls

Young-Wook Moon¹, Kwan-Ha Shin¹, Young-Hag Koh^{1,2,*}, Hyun-Do Jung³ and Hyoun-Ee Kim³

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We report the utility of three-dimensional ceramic/camphene-based coextrusion, newly developed in this study, for the production of unidirectionally macrochanneled alumina ceramics with three-dimensionally interconnected porous alumina walls. In this technique, a continuous ceramic/camphene filament with a diameter of 1 mm, comprised of a pure camphene core and a frozen alumina/camphene shell, was produced by the coextrusion process and then deposited in a layer-by-layer sequence using a computer-controlled 3-axis moving table. Unidirectionally aligned macrochannels (~400 µm in diameter) and three-dimensionally interconnected pores (several tens of micrometers in size) in the alumina walls were created by removing the camphene core and the camphene dendrites formed in the alumina/camphene region, respectively. The sample showed much higher compressive strength in the macrochannel direction than in the perpendicular direction. In addition, the compressive strength of the sample could increase with an increase in initial alumina content owing to a decrease in the total porosity.

1. Introduction

The creation of highly oriented pores in ceramics is one of the most active research areas in bone tissue engineering^[1] as it can resemble the anisotropic porous structure of natural cancellous bone and provide outstanding mechanical properties (i.e., high specific strength).^[2] Extrusion using flammable fibers^[3] and coextrusion^[4, 5] traditionally have been used to produce porous ceramics with unidirectional pores. However, these techniques generally result in poor interconnection between the unidirectional pores, which limits their applications for bone tissue regeneration, where three-dimensionally interconnected pores are necessary.

More recently, unidirectional freeze casting has demonstrated its usefulness for creating highly aligned pores with excellent three-dimensional interconnectivity.^[6–10] In

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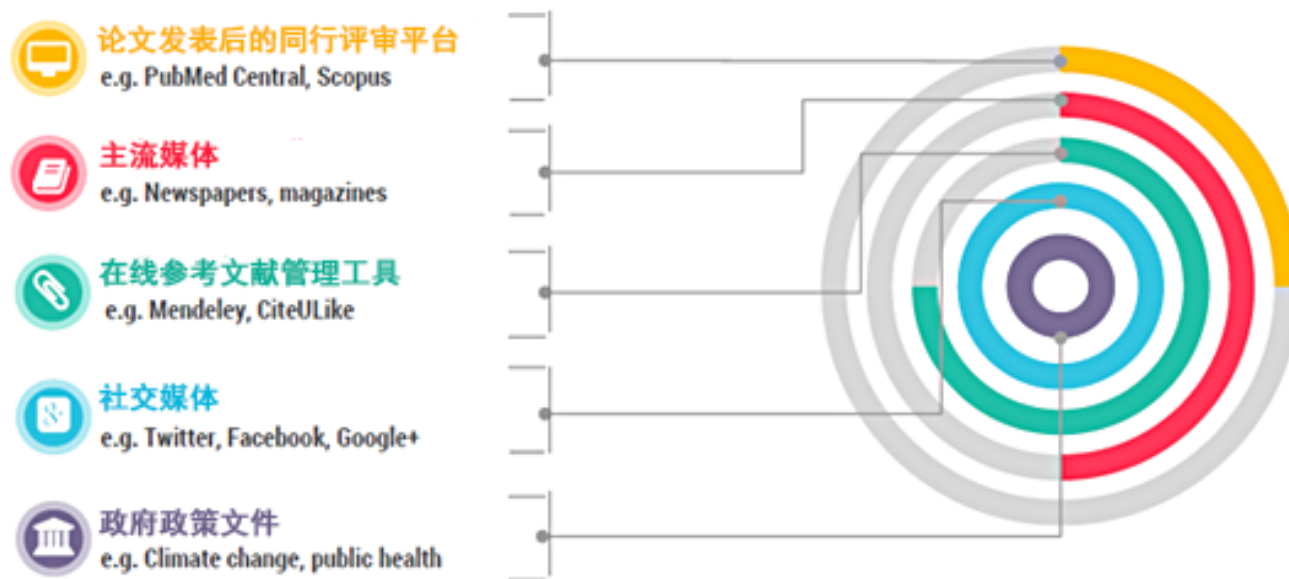
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II. Experimental Procedure

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IV. Conclusions

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Three-dimensional ceramic/camphene-based coextrusion for Unidirectionally Macrochanneled Alumina Ceramics with Controlled Porous Walls

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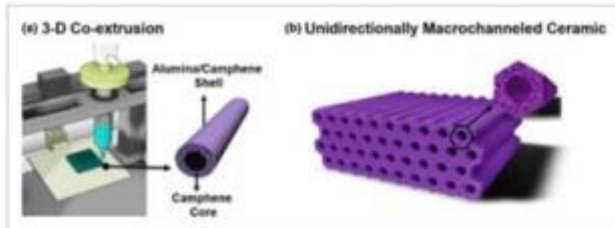
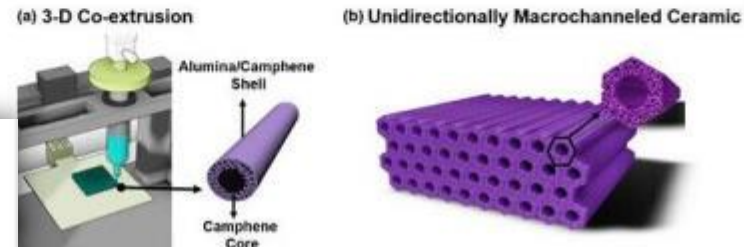


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II. Experimental Procedure

Commercial alumina powder (Kojundo Chemical Co., Ltd, Saitama, Japan) with a mean particle size of 0.3 μm was used as the ceramic component, and camphene ($\text{C}_{10}\text{H}_{16}$; Sigma Aldrich, St. Louis, MO) with a purity of 95% was used as the freezing vehicle and binder.

Schematic diagrams of three-dimensional ceramic/camphene-based coextrusion (3D-CoEx) for the production of unidirectionally macrochanneled alumina ceramics with three-dimensionally interconnected porous walls: (a) The 3-D co-extrusion process and (b) unidirectionally macrochanneled alumina ceramics with three-dimensionally interconnected porous walls after freeze drying.

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Three-dimensional Ceramic/Camphene-based Coextrusion for Unidirectionally Macrochanneled Alumina Ceramics with Controlled Porous Walls

Young-Wook Moon,¹ Kwan-Ha Shin,¹ Young-Hag Koh,^{1,5,7} Hyun-Do Jung,⁵ and Hyoun-Ee Kim⁵

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We report the utility of three-dimensional ceramic/camphene-based coextrusion, newly developed in this study, for the production of unidirectionally macrochanneled alumina ceramics with three-dimensionally interconnected porous alumina walls. In this technique, a continuous ceramic/camphene filament with a diameter of 1 mm, comprised of a pure camphene core and a frozen alumina/camphene shell, was produced by the coextrusion process and then deposited in a layer-by-layer sequence using a computer-controlled 3-axis moving table. Unidirectionally aligned macrochannels (~400 µm in diameter) and three-dimensionally interconnected pores (several tens of micrometers in size) in the alumina walls were created by removing the camphene core and the camphene dendrites formed in the alumina/camphene region, respectively. The sample showed much higher compressive strength in the macrochannel direction than in the perpendicular direction. In addition, the compressive strength of the sample could increase with an increase in initial alumina content owing to a decrease in the total porosity.

I. Introduction

THE creation of highly oriented pores in ceramics is one of the most active research areas in bone tissue engineering,¹ as it can resemble the anisotropic porous structure of natural cancellous bone and provide outstanding mechanical properties (i.e., high specific strength).² Extrusion using fusible fibers³ and coextrusion^{4,5} traditionally have been used to produce porous ceramics with unidirectional pores. However, these techniques generally result in poor interconnection between the unidirectional pores, which limits their application for bone tissue regeneration, where three-dimensionally interconnected pores are necessary.

More recently, unidirectional freeze casting has demonstrated its usefulness for creating highly aligned pores with excellent three-dimensional interconnectivity.^{6–9} In this technique, a highly aligned porous structure can be achieved by removing a frozen vehicle network grown preferentially along the freezing direction.¹¹ However, it is difficult in practice to maintain the continuous preferential growth of dendrites during the entire process, limiting the degree of pore alignment throughout the sample.

We herein propose a novel manufacturing method for creating unidirectionally aligned macrochannels with

three-dimensionally interconnected pores using three-dimensional ceramic/camphene-based coextrusion, denoted as “3D-CoEx”. This 3D-CoEx technique can directly deposit a continuous ceramic/camphene filament consisting of a pure camphene core and a frozen alumina/camphene shell, which can be produced by ceramic/camphene-based coextrusion,¹² in a layer-by-layer sequence using a computer-controlled moving machine [Fig. 1(a)]. Subsequently, unidirectional macrochannels and three-dimensionally interconnected pores can be created after removing the camphene core and the camphene dendrites formed in the alumina/camphene region, respectively [Fig. 1(b)]. The porous structure and compressive strength of the samples produced using various alumina contents (15, 20, and 25 vol%) after sintering at 1600°C for 3 h were examined.

II. Experimental Procedure

Commercial alumina powder (Kojundo Chemical Co., Ltd, Sakuma, Japan) with a mean particle size of 0.3 µm was used as the ceramic component, and camphene (C₁₀H₁₆, Sigma Aldrich, St. Louis, MO) with a purity of 95% was used as the freezing vehicle and binder.

Alumina/camphene slurries with various alumina contents (15, 20, and 25 vol%) were prepared by mixing the alumina powder and molten camphene by ball-milling at 60°C for 24 h with the assistance of 3 wt% of an oligomeric polyester dispersant (Hypermer KD-4, Uniqema, Everburg, Belgium). Subsequently, initial feedrods for coextrusion were prepared by casting the prepared alumina/camphene slurries in molds with a diameter of 30 mm containing a camphene core with a diameter of 10 mm and kept at room temperature for 30 min to allow for complete solidification.

The prepared feedrods were coextruded through a reduction die with a diameter of 1 mm at a constant speed of 1 mm/min and then three-dimensionally deposited in a layer-by-layer sequence using a computer-controlled moving machine (Jenstor Co., Seoul, Korea). The green bodies were gently pressed into a rigid mold to improve bonding between the deposited filaments and then heat-treated at 43°C for 6 h in an oven to induce continual growth of the camphene dendrites formed in the alumina/camphene region. Subsequently, the samples were freeze dried to remove the camphene core and camphene dendrites in the alumina/camphene region, followed by sintering at 1600°C for 3 h to densify the alumina walls.

The pore structure of alumina ceramics produced using various initial alumina contents (15, 20, and 25 vol%) was characterized by field-emission scanning electron microscopy (FE-SEM; JSM-6701F; JEOL, Tokyo, Japan). The overall porosity of the samples was calculated from their

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10.1111/jace.12634

Three-dimensional Figures

Figure 1 | Schematic diagrams of three-

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Three-dimensional Macro

Young-Wook Moon,[†] Kwan-Ha Shin,[‡] Young-Hag Koh,^{†,§,*} Hyeon-Do Jung,[†] and Hyeon-Ee Kim[†]

[†]Department of Dental Laboratory Science and Engineering
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We report the utility of three-dimensional ceramic/camphene-based coextrusion, newly developed in this study, for the production of unidirectionally macrochanneled porous alumina walls with three-dimensionally interconnected porous alumina walls. In this technique, a continuous ceramic/camphene filament with a diameter of 1 mm, comprised of a pure camphene core and a frozen alumina/camphene shell, was produced by the coextrusion process and then deposited in a layer-by-layer sequence using a computer-controlled 3-axis moving table. Unidirectionally aligned macrochannels (~400 μm in diameter) and three-dimensionally interconnected pores (several tens of micrometers in size) in the alumina walls were created by removing the camphene core and the camphene dendrites formed in the alumina/camphene region, respectively. The sample showed much higher compressive strength in the macrochannel direction than in the perpendicular direction. In addition, the compressive strength of the sample could increase with an increase in initial alumina content owing to a decrease in the total porosity.

I. Introduction

THE creation of highly oriented pores in ceramics is one of the most active research areas in bone tissue engineering,¹ as it can resemble the anisotropic porous structure of natural cancellous bone and provide outstanding mechanical properties (i.e., high specific strength).² Extrusion using flameable fibers³ and coextrusion^{4,5} traditionally have been used to produce porous ceramics with unidirectional pores. However, these techniques generally result in poor interconnection between the unidirectional pores, which limits their applications for bone tissue regeneration, where three-dimensionally

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Continuous ceramic/camphene filament consisting of a pure camphene core and a frozen alumina/camphene shell, which can be produced by ceramic/camphene-based coextrusion,¹² in a layer-by-layer sequence using a computer-controlled moving machine [Fig. 1(a)]. Subsequently, unidirectional macrochannels and three-dimensionally interconnected pores can be created after removing the camphene core and the camphene dendrites formed in the alumina/camphene region, respectively [Fig. 1(b)]. The porous structure and compressive strength of the samples produced using various alumina contents (15, 20, and 25 vol%) after sintering at 1600°C for 3 h were examined.

II. Experimental Procedure

Commercial alumina powder (Kojundo Chemical Co., Ltd, Saitama, Japan) with a mean particle size of 0.3 μm was used as the ceramic component, and camphene (C₁₀H₁₆; Sigma Aldrich, St Louis, MO) with a purity of 95% was used as the freezing vehicle and binder.

Alumina/camphene slurries with various alumina contents (15, 20, and 25 vol%) were prepared by mixing the alumina powder and molten camphene by ball-milling at 60°C for 24 h with the assistance of 3 wt% of an oligomeric polyester dispersant (Hypermer KD-4; UniQema, Everburg, Belgium). Subsequently, initial feedstocks for coextrusion were prepared by casting the prepared alumina/camphene slurries in molds with a diameter of 20 mm containing a camphene core with

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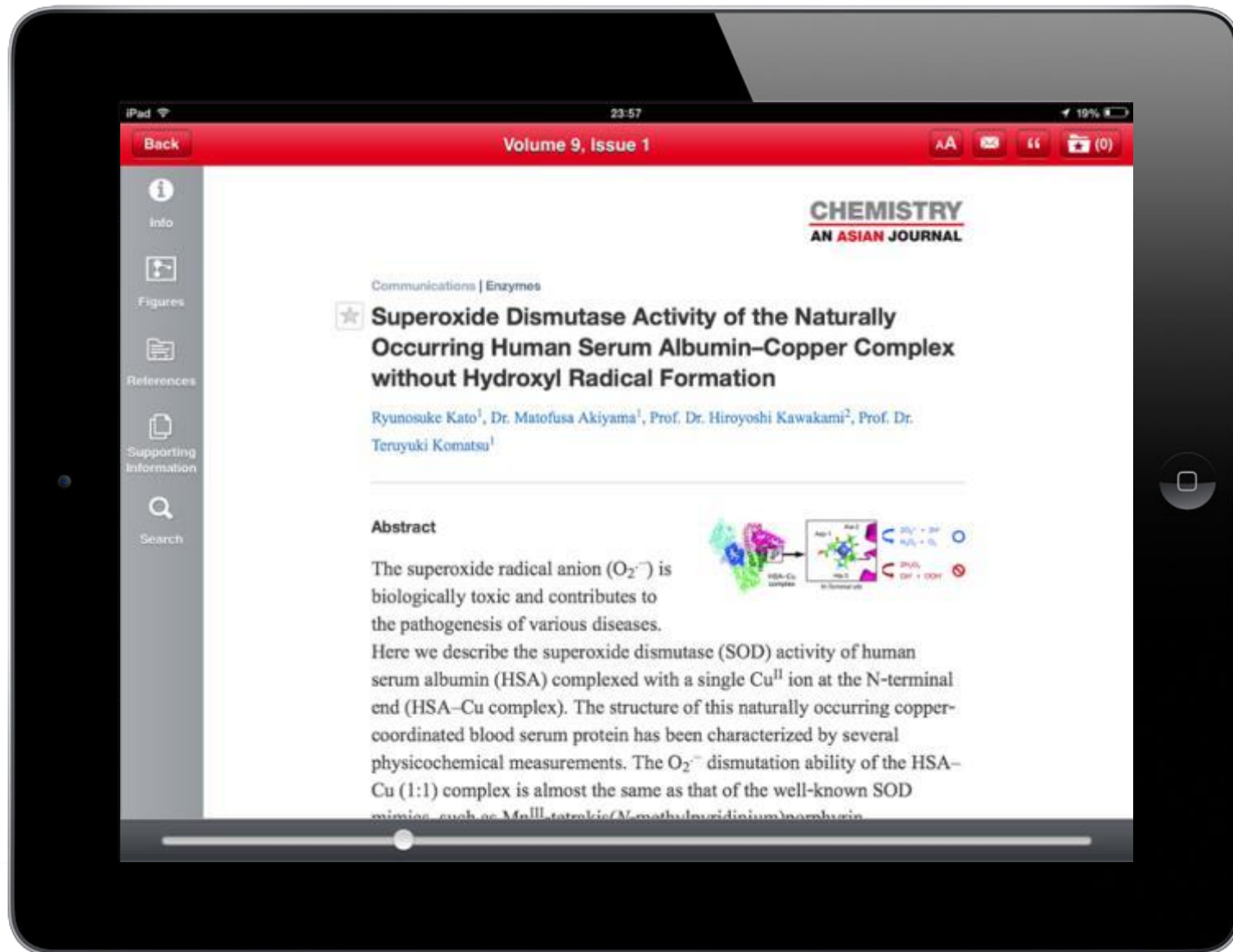


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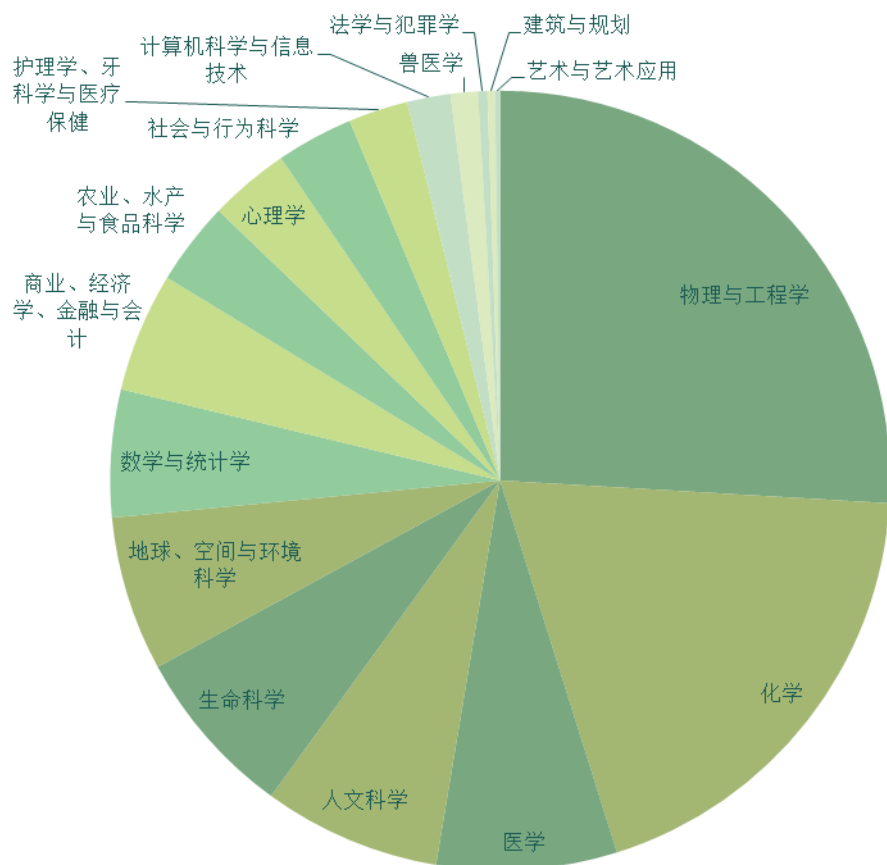
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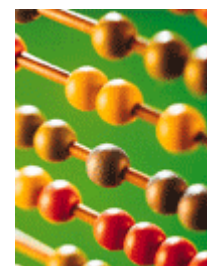
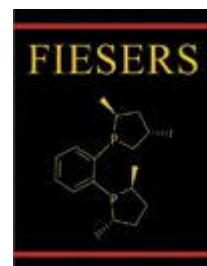
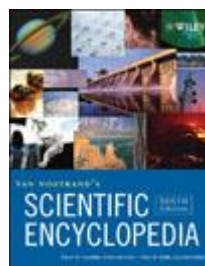
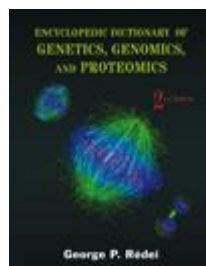
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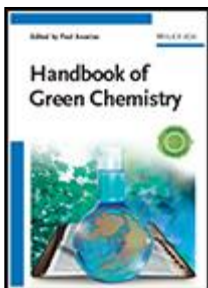
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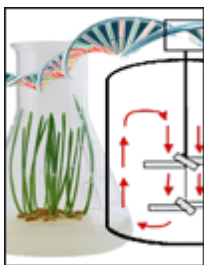
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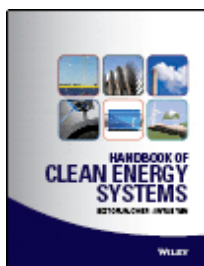
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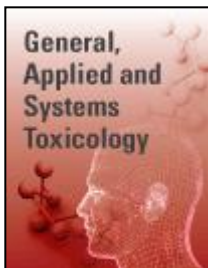
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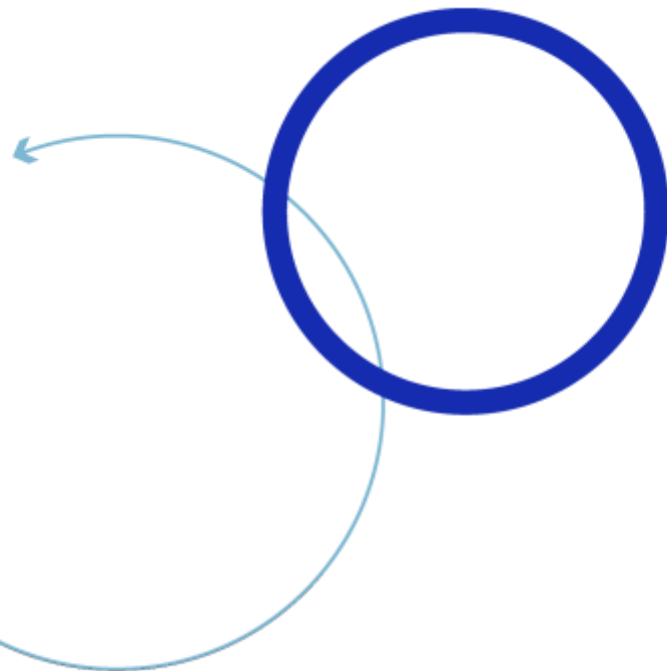
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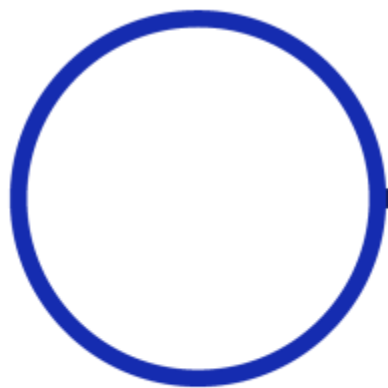
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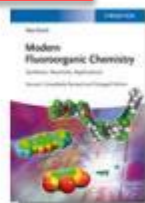
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☐ **Nucleophilic and acid catalyst behavior of a protic ionic liquid in a molecular reaction media. Part 1**
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Article first published online : 30 DEC 2008, DOI: 10.1002/poc.1501
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Volume 12, Issue 3, June 2012, Pages: 329–355, Divia Dinesh Patel a Lee
Article first published online : 18 JUN 2012, DOI: 10.1002/tcr.201100003
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Volume 89, Issue 6, June 2014, Pages: 771–786, Davide Ciceri, Jiliska Geoffrey W. Stevens
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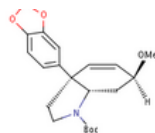
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Volume 40, Issue 39, September 29, 2009, Page: no, Meng-Xue Wei, Lei Feng, Xue-Qiang Li, Xue-Zhang Zhou and Zhi-Hui Shao

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Formal Synthesis of (±)-Morphine

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Volume 8, Issue 6, June 2013, Pages: 1105–1109, Jing Li, Guo-Liang Liu, Xian-He Zhao, Ji-Yuan Du, Hu Qu, Wang, Pei-Rong Yin, Xu Bao, Xiao-Yan Ma, Xian-He Zhao, Guo-Biao Zhang and Prof. Dr. Chun-An Fan

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