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Sept 2023



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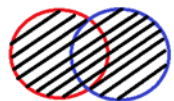


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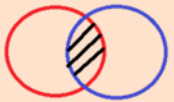
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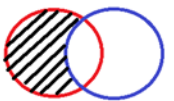
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Accented characters 重音字符	To search for the name Fürst, enter Fürst or Furst.
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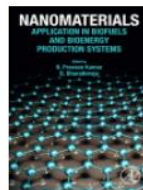
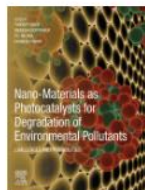
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Chemical Engineering Journal

Volume 435, Part 3, 1 May 2022, 134976



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Review

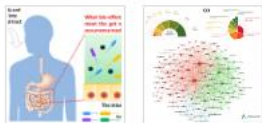
文章標題

Recent advances in understanding the effects of nanomaterials on gut microbiota

作者

Jiani Xie^{a, b, 1}, Maoru Zhao^{b, c, 1}, Chengyan Wang^{b, c}, Yuan Yong^a, Zhanjun Gu^{b, c, d, e}

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Highlights 文章重點

- Nanomaterials can interact with gut microbiota and induce its alterations.
- Nanomaterials' physicochemical properties are crucial to cause the alterations.

快速查看參考文獻並檢視全文

J.C. Clemente, L.K. Ursell, L.W. Parfrey, R. Knight
The impact of the gut microbiota on human health: an integrative view
Cell, 148 (6) (2012), pp. 1258-1270

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1. Introduction

Gut microbiota, a diverse microbial ecosystem, is located in the human digestive tract [1].



[2]. Considerable evidence has demonstrated that the gut microbiota plays an indispensable role in the maintenance of human health which influences, modulates, and



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Review

Recent advances in understanding the effects of nanomaterials on gut microbiota

Jiani Xie^{a b 1}, Maoru Zhao^{b c 1}, Chengyan Wang^{b c}, Yuan Yong^f, Zhanjun Gu^{b c d e}  

In recent years, nanomaterials with special size-dependent chemical, electronic, and optical properties have been applied in many fields, such as food, agriculture, and medicine [10], [11], [12], [13], [14], [15], [16]. Such widespread **nanomanufacturing** and nanoapplications in human life have brought extensive public attention to the effects of nanomaterials on gut microbiota because they represent increased opportunities for

快速查詢專有名詞定義, 相關術語, 並透過專業書籍深入了解

Nanomanufacturing System

'Nanomanufacturing' is defined as the intentional synthesis, generation or control of nanomaterials, or fabrication steps in the nanoscale for commercial purpose applied to produce nano-objects or nanostructured materials.

From: *Nanoengineering*, 2015

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Haili Yan, ..., Hui Zhang

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Abatement of Environmental Pollutants

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ACOPS Yearbook 1986–87

Advisory Committee on Pollution of the Sea, London

Book • 1987

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期刊名

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Ultrananocrystalline Diamond

書名

Book • Second Edition • 2012

出版年份



作者

Edited by:
Olga A. Shenderova and Dieter M. Gruen

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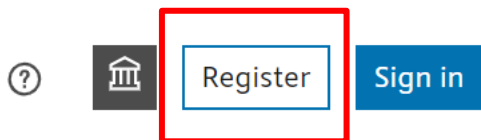
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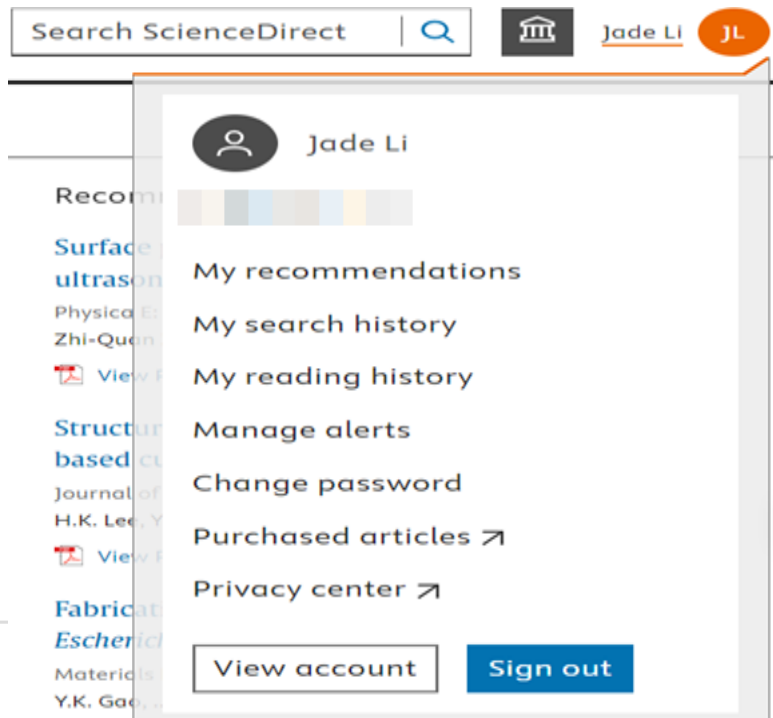
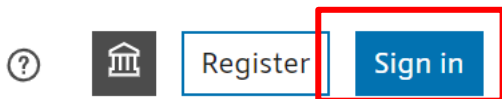
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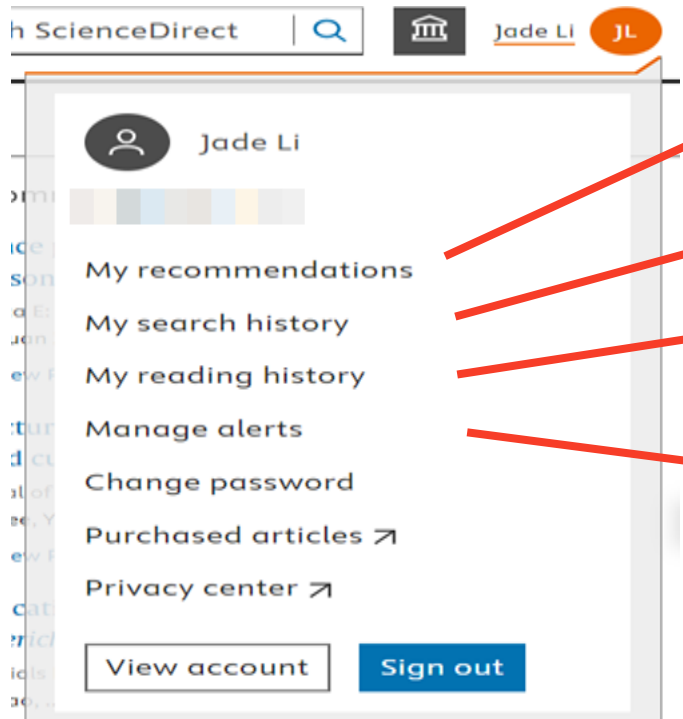
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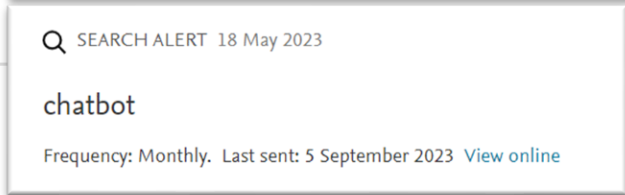
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Volume 474, 15 October 2023, 145615



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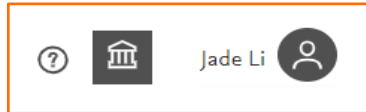
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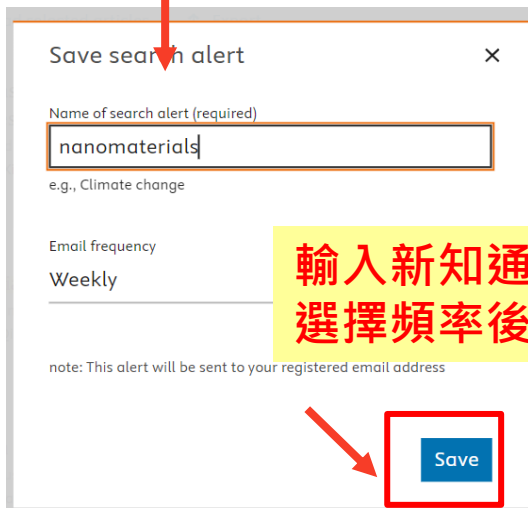
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