

Water Intelligence Online

使用手冊



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一・資料庫簡介

WIO (Water Intelligence Online) 是由目前世界最大的水資源協會--國際水協會 (IWA, International Water Association) 出版的研究資源, 提供各樣關於水、廢水及相關環境領域的資訊服務。WIO 包含超過 1000 份文件, 來自主要的參考書籍、書籍章節、研討會論文、研究報告, 是包含最多關於水資訊研究材料的線上資料庫。

收錄內容包括和 水 / 廢水 / 污水 相關的主題如下:

工程方面 - 排水工法、再利用、監測 & 控制、品質、效用、分佈等

社會方面 - 財務、規定、政策、國際事務

健康方面 - 污染、水中微生物

Water Intelligence Online 包含下列幾種形式的資訊:

- IWA 出版的書籍
- 經過同儕評論的研究論文
- IWA 和產業相關的研討會報告
- 來自 EU, STOWA, KIWA, WERF 精選的研究報告

二・連線及瀏覽介紹

WIO (Water Intelligence Online) 連線網址: <http://www.iwaponline.com/wio/default.htm>

Water Intelligence Online

An Online Water, Wastewater and Environmental Information Service

Water Intelligence Online is an online information service for librarians and individuals providing access to a wealth of reference books, research reports, research papers and conference proceedings covering water, wastewater and related environmental topics.

Subscription to Water Intelligence Online gives you online access to the archive of IWA Publishing books and research reports, in addition to new publications in the current year. Alternatively you can view the full text on a pay-per-view basis.

The archive comprises over 90 major reference books, 150 research reports, from WERF, The European Commission and other publications.

Water Intelligence Online contains the following types of information:

- ① **IWA Publishing Books**
WERF research reports
Selected research reports from IWA and industry related conference papers
Peer reviewed research papers

Abstracts are free to search and browse; full text viewed with a subscription or via pay-per-view on an item-by-item basis.

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依照出版期數瀏覽

Water Intelligence Online

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當連結至 WIO 後，在首頁，您有以下幾種開始瀏覽 WIO 的方式：

1. 依出版類型瀏覽 -- WIO 特將其中所收錄的 IWA 出版的書籍獨立出來，您可以從首頁下方 [IWA Publishing Books](#) 點選進入瀏覽，或是點選 [WERF](#) research reports 觀看 WERF 出版的研究報告。

Search Results
122 document(s) retrieved
Items 1 - 10 [Next 10](#)

目前收錄的書籍總數

- 1: [2nd IWA Leading-Edge on Sustainability in Water-Limited Environments - MB Beck & A Speers](#)
- 2: [2nd IWA Leading-Edge on Water and Wastewater Treatment Technologies - Mark Van Loosdrecht & Jonathan Clement](#)
- 3: [A new legal framework for managing the world's shared groundwaters - Fadia Daibes-Murad](#)
- 4: [Activated Sludge and Aerobic Biofilm Reactors - Marcos Von Sperling](#)
- 5: [Activated Sludge Models ASM1, ASM2, ASM2d and ASM3 - M. Henze et al](#)
- 6: [Activated Sludge Separation Problems - V Tandoi, D Jenkins & J Wanner](#)
- 7: [Advanced Biological Treatment Processes for Industrial Wastewaters - F Cervantes, S Pavlostathis, A van Haandel](#)
- 8: [Advanced Oxidation Processes for Water and Wastewater Treatment - Simon Parsons](#)
- 9: [Aerobic Granular Sludge - S Bathe, MK de Kreuk, BS McSwain, N Schwarzenbeck](#)
- 10: [Aerobic Granule Reactor Technology - MK de Kreuk, LMM de Bruijn](#)

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每頁顯示十筆，看下十筆書

可於此直接點選欲瀏覽的書籍名稱進入觀看

於上頁選擇書籍名稱之後，即可進入該書籍的摘要頁面，如下方所示

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2nd IWA Leading-Edge on Water and Wastewater Treatment Technologies

Mark Van Loosdrecht, Jonathan Clement

ABSTRACT
Wastewater and drinking water treatment are essential elements of urban infrastructure. In the course of the last century there has been enormous technical development, so successful that for the general public in industrialized countries this infrastructure is hardly noticed.

Nevertheless there is ongoing activity to further improve the existing processes. The IWA Leading Edge Technology conference held in Prague helped to stimulate this development and this book helps disseminate the results.

A selection of presentations from the conference are included in this volume. Wastewater and drinking-water treatment are normally considered as two separate fields due to the very different boundary conditions that apply. Nevertheless several issues such as membrane processes, removal of micropollutants and water reuse are of crucial importance to both. This potential for cross-fertilization further enhances the value of this collection of high-quality articles that delineate the leading edge of research and development in water and wastewater treatment.

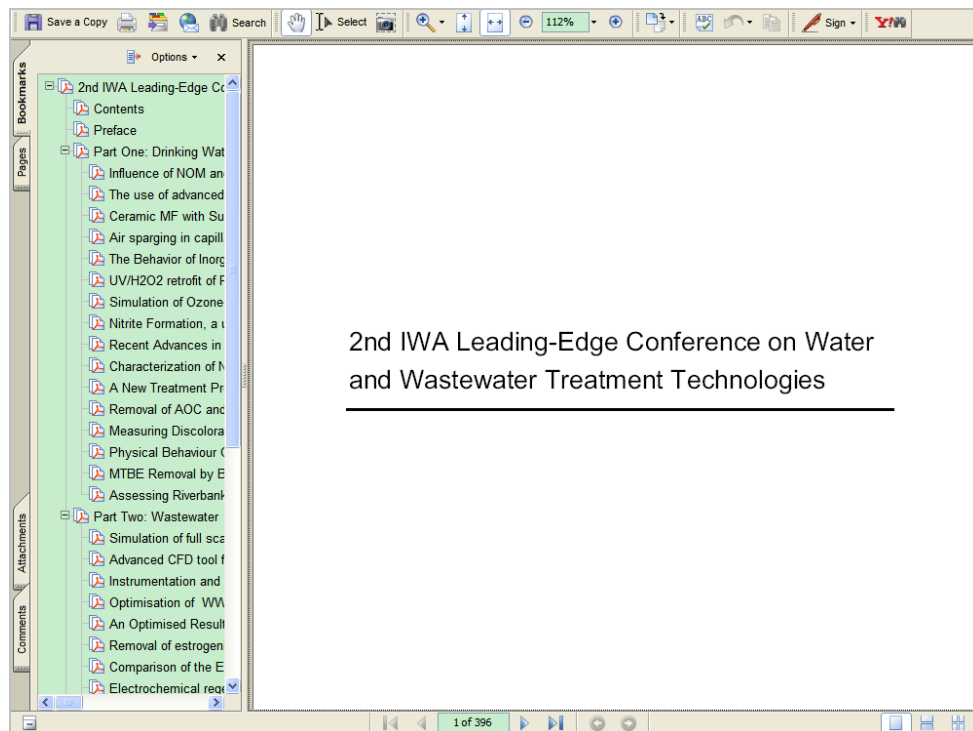
Full Text PDF **下載 PDF 全文**

書籍摘要

FULL TEXT (PDF Format 4.9MB / 396 pages) WIO SUBSCRIBERS ONLY

下載 PDF 全文，由此可見檔案的大小和頁數

開啟 PDF 全文，可使用 Adobe 工具列配合閱讀，可透過頁面左方書籍的章節目錄，跳至欲閱讀的內容。PDF 全文可複製、儲存、列印。




- WIO 每月會新增內容至資料庫中，您可以依照出版的期數(issue) 進行瀏覽，在首頁右上方點選 Current issue 觀看收錄於當期的內容，或是點選 Browse Archive 觀看之前出版的內容。當點選 Browse Archive 後，可再選擇按照出版的年代及月份進行瀏覽，最早回溯至 2002 年

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可點選 Abstract 瀏覽摘要，或點選 Full Text PDF 開啟全文。

The screenshot shows the 'Water Intelligence Online' website for January 2008. The header includes the IWA Publishing logo and navigation links for Journals, Subscriptions, Authors, Users, Librarians, and FAQs. A 'Previous issue / Next issue' link is highlighted with a dashed orange box. The main content area lists several articles with their respective abstract, full text PDF, and reference book links. The article 'Leakage Management Technologies' is highlighted with a dashed orange box and an orange arrow pointing to it. A callout box on the left indicates that clicking on the abstract link will provide more information about the article. Another callout box points to the 'Reference Book' link, indicating the file type. The right sidebar contains links for the current issue, browse archive, search archive, sample issue, subscribe, online submission, and contents alert, along with the ISSN and publisher information.

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Risk Management for Water and Wastewater Utilities
[Abstract](#) | [Full Text PDF](#) | [Reference Book](#)

Leakage Management Technologies
[Abstract](#) | [Full Text PDF](#) | [AwwaRF Report Reference: 91180](#)

Triple Bottom Line Reporting of Sustainable Water Utility Performance
[Abstract](#) | [Full Text PDF](#) | [AwwaRF Report Reference: 91179](#)

Long-Term Variability of BDOM and NOM as Precursors in Watershed Sources
[Abstract](#) | [Full Text PDF](#) | [AwwaRF Report Reference: 91186](#)

Removal of EDCs and Pharmaceuticals in Drinking and Reuse Treatment Processes
[Abstract](#) | [Full Text PDF](#) | [AwwaRF Report Reference: 91188](#)

Research Digest: Promoting Equitable Consideration of Decentralized Wastewater Options
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假設於上頁文章目錄中選取 Leakage Management Technologies 此篇 AwwaRF 報告，點選 Abstract 可獲得更多關於該篇研究報告的資訊。頁面如下所示。

[Issue contents](#) / [Previous abstract](#) / [Next abstract](#)

[回該期目錄/ 前一篇文章摘要/後一篇文章摘要](#)

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Leakage Management Technologies

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作者及作者
機構

摘要

ABSTRACT

Discover the best leak management techniques in this research report of North American and international leakage management practices.

Leak detection equipment and techniques, including listening devices, leak noise correlators and loggers, tracer gas, ground penetrating radar, new leak detection equipment, and new leak management software, are described, tested, and summarized. Analytical methods and tools, including calculations for real losses from reported and unreported breaks and leaking and overflowing tanks, are also provided.

The report offers guidelines and tools for successfully implementing leakage management techniques. It provides guidance for developing an optimal leakage management strategy and determining the most cost-effective loss reduction strategies for your utility.

This research compared leakage management techniques at utilities in England, Wales, Germany, Canada, and the United States. England, Wales, and Germany are world leaders in water loss control.

關鍵字

Keywords: Distribution Systems Operations; Metering; Pressure Transients; Water Loss Control; AwwaRF

[Full article \(PDF Format\)](#)

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三・檢索頁面介紹

除瀏覽之外，WIO 亦提供檢索功能，幫助使用者搜尋欲查找的主題內容。

進入檢索頁面的路徑為點選頁面左上方的 Search Archive



檢索頁面如下方所示：

Water Intelligence Online

Search Criteria: [\[Search tips\]](#)

① **Type of material:**

② **Category:**

③ **Author:**
(Last name First initial)

④ **Title contains:**

⑤ **Abstract contains:**

⑥ **Keywords:**

⑦ **Publication date:** From: To:

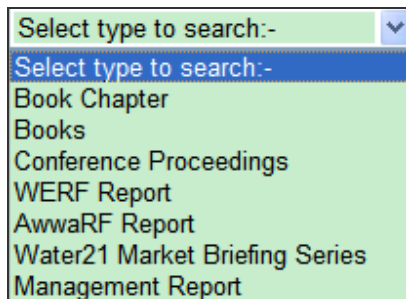
Search Options: [\[Search tips\]](#)

⑧ ☐ Fuzzy Searching
☐ Stemming
☐ Phonic Searching
☐ Synonym expansion

⑨ **Sort results by:**

⑩ **Results per page:**

1. **Type of material**：限定檢索的文章類型，包括書籍篇章、書籍、研討會論文、研究報告……等



2. **Category**：限定檢索的主題類別

如：發展中國家、飲用水品質、經濟、
環境、地下水、
與健康相關的水中微生物、
工業廢水處理、監測和控制
污染、公用事業管理、
水條例、政策和管理
水分布、永續性、
水資源、水供應、水處理
水及廢水再利用等

Select a category to search:-
Developing Countries
Drinking Water Quality
Economics/Financing
Environment
Groundwater
Health-Related Water Microbiology
Industrial Treatment
Institutional Affairs
Landfill/Waste Management
Modelling & Statistics
Monitoring & Control
Policy/Legislation/Governance
Pollution - Point Source
Pollution - Non-Point Source
Regulation
Sludge Management
Sustainability
Urban Drainage/Sewerage
Utility Management
Wastewater Treatment
Water Distribution
Water Resources
Watershed/Catchment/River Basin
Water Supply
Water Treatment
Water & Wastewater Reuse

3. **Author**：檢索作者名稱，可使用 Last name 的最初開頭

4. **Title contains**：檢索包括於文章標題的字詞

5. **Abstract contains**：檢索包括於文章摘要的字詞

6. **Keywords**：檢索包括於文章關鍵字的字詞

7. **Publication date**：可限定欲檢索的文章年代範圍

8. 檢索選項

-- **Fuzzy Searching**：使用 Fuzzy searching 將找到即便拼法錯誤的檢索詞，舉例來說，使用 Fuzzy Search 尋找 *apple*，搜尋結果也會找到 *apple* 錯別字。當檢索文件可能隱含印刷上的錯誤時，或是因為該文件是透過掃描後經由 OCR 文字辨識軟體產生，Fuzzy searching 會是有幫助的。

有兩種加上 Fuzzy searching 的方式

1. 勾選 "Fuzzy searching" 選項，使您輸入的檢索詞均會搜尋可能的錯別字
2. 您也可以加上 % 字元，代表可能的相異處，每一個 % 字元代表一個相異處，% 輸入的位置代表在 % 之前的字元必須完全符合，如：
 - *ba%nana* 可檢索以 *ba* 開頭，並和 *banana* 有至多一個字元的差異
 - *b%%anana* 可檢索以 *b* 開頭，並和 *banana* 有至多兩個字元的差異

-- **Stemming**：Stemming 可延伸包含檢索詞文法上的變化型，如搜尋 *fish*，檢索結果亦會包含 *fishing*；搜尋 *applied*，檢索結果亦會包含 *applying*, *applies*, 和 *apply*

有兩種加上 stemming searching 的方式

1. 勾選 "Stemming" 選項，使您輸入的檢索詞均會延伸搜尋相關的時態
2. 您也可以檢索詞後方加上 ~ 字元，如 *apply~*

-- **Phonic Searching**：Phonic searching 搜尋讀音類似且以同樣字母起首的字。舉例而言：搜尋 Smith，也會同時找到 Smithe 和 Smythe。要尋找發音類似的字，可於檢索詞前方加上 # 字元，如 #smith, #johnson

您也可以勾選 "Phonic searching" 選項，使所有您鍵入的關鍵字皆會一併搜尋發音類似的字，但是如此將會比其他檢索選項花費較長的檢索時間，所以建議僅在欲使用 Phonic searching 的檢索詞前加上 # 字元較佳。

-- **Synonym expansion**：將會一併搜尋檢索詞的同義詞，例如：檢索 fast 也會找到 quick。您可以勾選 "Synonym expansion" 選項，使所有您輸入的關鍵字皆擴展搜尋同義字，或是您也可以欲擴展搜尋同義字的檢索後方加上& 字元，例如：fast&

9. Sort results by：檢索結果排列方式，可選擇依日期、名稱或是檔案大小排列

10. Results per page：每頁顯示檢索結果筆數

檢索技巧

布林邏輯	意 義	範 例
and	兩者皆須出現	apple and pear
or	部分符合，包含任一關鍵字即可	apple or pear
not	排除特定概念，若非置於句首，須加 and 或 or	apple and not pear

代表字元	意 義	範 例
?	代表任何單一字母	appl?，可查詢 apply 或 apple
*	代表多個字母	appl*，可查詢 application
~	Stemming	apply~ 可查詢 apply, applies, applied
%	Fuzzy search	ba%nana 可查詢 banana, bananna
#	Phonic search	#smith 可查詢 smith, smythe
&	Synonym search	fast& 可查詢 quick
~~	數字範圍	12~~24 可查詢 18.
w/5	兩個關鍵字相隔不超過 5 個字	apple w/5 pear

四・檢索範例及檢索結果頁面

檢索同時包含 groundwater 和 protect* (包含檢索 protect 開頭，如 protecting, protection 等字)

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Search Criteria: [\[Search tips\]](#)

Type of material:

Category:

Author:

Title contains:

Abstract contains:

Keywords:

Publication date: From: To:

檢索年代自 2005 年起

Search Options: [\[Search tips\]](#)

☒ Fuzzy Searching ☐ Stemming ☐ Phonic Searching ☐ Synonym expansion

Sort results by:

Results per page:

檢索結果按出版日期排列，每頁顯示 10 筆

擴大搜尋可能的錯別字

檢索關鍵字
出現在摘要

檢索結果頁面如下

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共有 44 筆符合的檢索結果

- 1: [Protecting Groundwater for Health - O Schmoll, G Howard, J Chilton & I Chorus](#)
- 2: [Groundwater Management in Large River Basins](#)
- 3: [Design, Operation, and Maintenance for Sustainable Underground Storage Facilities](#)
- 4: [Characterizing Groundwater Recharge: A Comprehensive Isotopic Approach - 90941F](#)
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- 7: [Geochemical Controls on Chromium Occurrence, Speciation, and Treatability](#)
- 8: [Evaluating Risks and Benefits of Soil Amendments Used in Agriculture - 99PUM1](#)
- 9: [LOWRGREP: Landscape-use optimisation with regards to the groundwater resources protection in mountain hardrock areas](#)
- 10: [Water Intelligence Online \(2002\) - A. Meulengracht Olsen - Demand management and the new European Union Water Framework Directive](#)

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下 10 筆檢索結果

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