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2024 April

By Jade Li 李麗娟 Customer Success Manager A&G, Elsevier



Agenda

- **Scopus 簡介**

- 內容涵蓋範圍
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- 期刊資訊介紹(含期刊指標, 來源出版物)介紹
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- **Mendeley 介紹**

- 匯入新增, 註記, 引用功能介紹

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Journal of Hydrology 642 (2021) 129762

Contents lists available at ScienceDirect

Journal of Hydrology

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Research papers

Assessing hydrological and water quality responses to dynamic landuse change at watershed scale in Mississippi

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ARTICLE INFO

This manuscript was handled by Elizabeth Thompson, Editor in Chief, with the assistance of Teon Hunter, Associate Editor.

Keywords:

Landuse change

Hydrology

Surface runoff

Soil

ABSTRACT

The hydrology and water quality modeling in a watershed are affected by land use land cover (LULC) inputs. This study differs from numerous LULC change studies by introducing multi-year LULC inputs in a single simulation of Soil and Water Assessment Tool (SWAT) model. The proposed approach highlighted the superperformance of the model with dynamic LULC inputs (DM) over static LULC inputs (SM) based on the magnitude and direction of the hydrological responses. The difference between DM and SM outputs allowed for analyzing effects of historical LULC change. Additionally, agricultural management operation inputs enabled more realistic simulation of runoff, sediment, total nitrogen (TN), and total phosphorus (TP). The SM used static landuse data layers for 2000, and DM used landuse data layers for 2000, 2015, and 2018 to represent changes in LULC distribution over time. The expansion of agricultural land (10.9%) and forest cover (3.5%), as well as the reduction of grassland, water, and barren areas (1.4%), were the significant LULC changes from 2000 to 2018. Even though the expansion of forest cover was identified from 2009 to 2015, a declining trend was observed from 2015 to 2018. The agricultural land cover increased continuously from 2009 to 2018. The expansion of agricultural land increased average annual surface runoff, sediment, TN, and TP loads by 3.2%, 5.4%, 3.8%, and 5.9%, respectively at watershed scale as determined by DM model simulation results. At sub-watershed scale, agricultural land expansion increased runoff, sediment, TN, and TP loads by up to 5%, 10%, 15%, and 15%, respectively whereas, the expansion of forest cover resulted in reduction in same parameters by up to 10%, 15%, 20%, and 20%, respectively. In general, the study demonstrated that the integration of dynamic LULC and agricultural operations in SWAT allows a more accurate representation of agricultural watersheds for hydrological and water quality analysis.

1. Introduction

Land use land cover (LULC) change is a critical issue in the field of environmental research, as it can have significant impacts by hydrological processes and water quality (Geay et al., 2019; Shrestha et al., 2018). These could involve alterations in surface runoff generation (Changue et al., 2021; Shi et al., 2007), sediment yield and nutrient loads (Dinh-Nguyen et al., 2018; Yan et al., 2013), seasonal variation of streamflow, total suspended solids (TSS), total nitrogen (TN) and total phosphorus (TP) (Shi et al., 2007); evapotranspiration (Wang et al., 2014), groundwater recharge (Jadhav et al., 2010), flash hydrology and peak runoff (Elgohar et al., 2013; Ruppert et al., 2017). The main factors contributing to land use changes are human perturbations and

climate drivers (Wang et al., 2009). Water scarcity and degradation of water quality may arise from LULC changes in areas with limited water resources. Therefore, it is necessary to study the impacts of LULC change on hydrology and water quality to manage water resources at watershed scale (Shi et al., 2015).

To evaluate the effects of LULC change on hydrological and water quality responses of a watershed, Geographic Information Systems (GIS), remote sensing technology and hydrological modeling are useful (Gonzalez et al., 2014). The LULC information obtained from remotely sensed data have been utilized in hydrological modeling studies to study surface and groundwater hydrology and water quality (Yildirim et al., 2017). In two separate studies, the Hydrologic Modeling System (HEC-HMS) model was used to assess the impacts of LULC change on stream discharge

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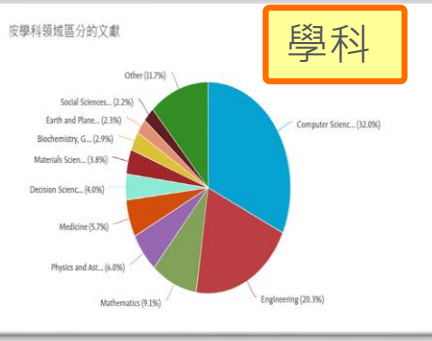
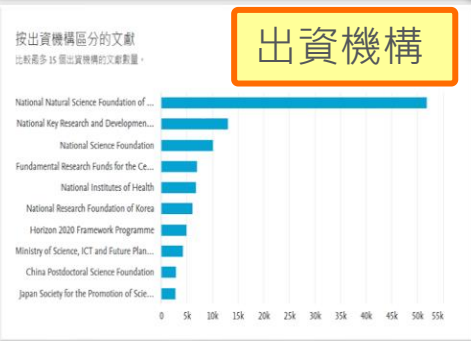
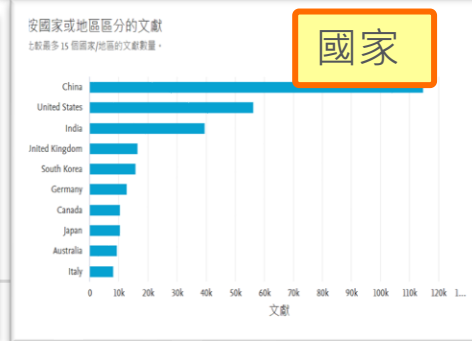
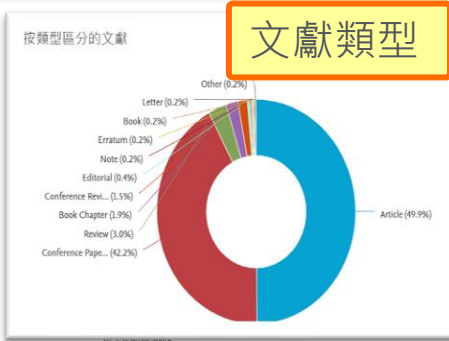
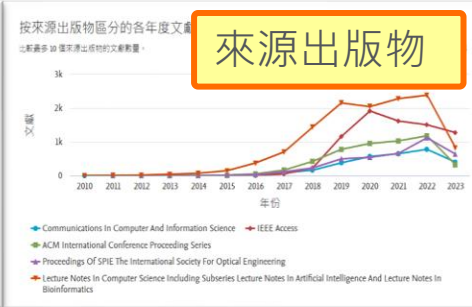
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Nature • 卷 521, 期 7553, 頁 436 - 444 • 27 May 2015

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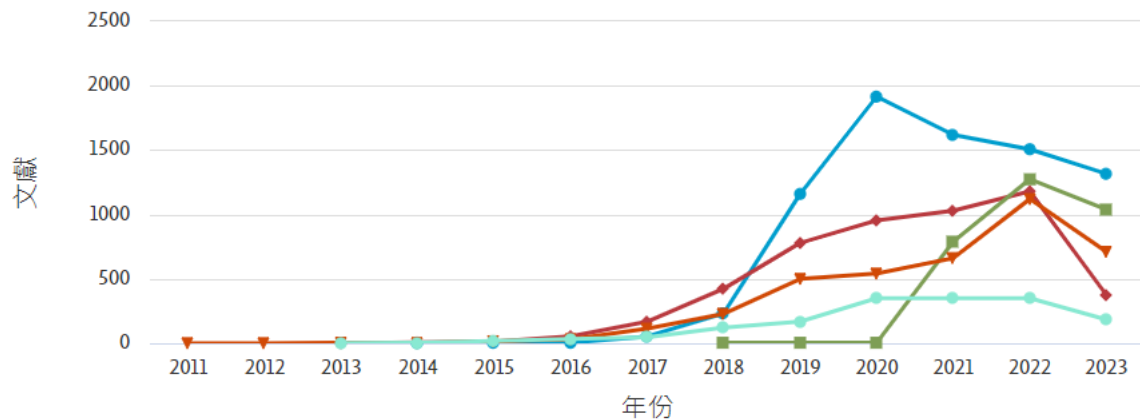
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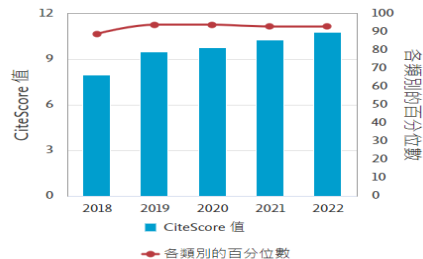
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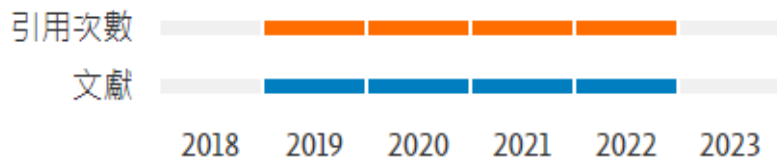
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Neurocomputing

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SJR 2022

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SNIP 2022

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期刊指標- SJR, SNIP

SJR

Scimago Journal & Country Rank

SJR (SCImago Journal Rank) 全名為 SCImago Journal Rank , 是由 SCImago 研究團隊來自西班牙國家研究機構的 Félix de Moya 教授等三位所提出 , 其核心概念來自 Google 的 PageRank 演算法。SJR 指標是不受大小影響的計量方法 , 旨在衡量期刊目前的「**文章平均聲望**」。



SNIP (Source Normalized Impact per Paper) 全名為 Source Normalized Impact per Paper (標準化影響係數) 由荷蘭萊頓大學 (University of Leiden) CWTS團隊 Henk Moed 教授所提出 , 是根據某個主題領域的總引用次數、給予引用權重 , 進而衡量上下文引用所造成的影響。其目的在允許直接比較不同主題領域內的資料來源。可以突破傳統 Impact Factor 無法考量**不同研究領域**的引用情形。

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作者與研究人員搜尋

搜尋重要作者

1

🔍 文獻 👤 作者 🔍 搜尋研究人員 (Researcher Discovery) ^{新增} 🏢 機構

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2

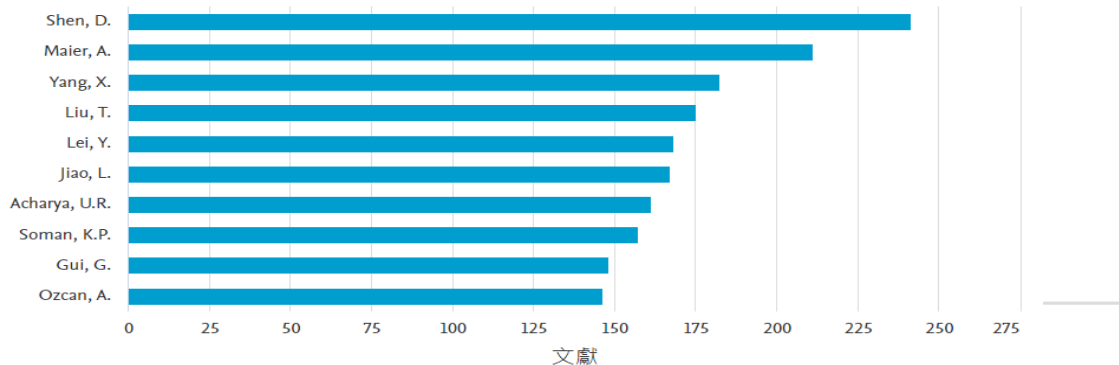
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文獻 ↓

<input type="checkbox"/> Shen, D.	241
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<input type="checkbox"/> Yang, X.	182
<input type="checkbox"/> Liu, T.	175
<input type="checkbox"/> Lei, Y.	168
<input type="checkbox"/> Jiao, L.	167
<input type="checkbox"/> Acharya, U.R.	161
<input type="checkbox"/> Soman, K.P.	157

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比較最多 15 位作者的文獻數量。



重要作者- 作者檔案

Yang, Xiaofeng

Emory University, Atlanta, United States

36712893800

<https://orcid.org/0000-0001-9023-5855>

6,809

引用 by 3,358 文獻

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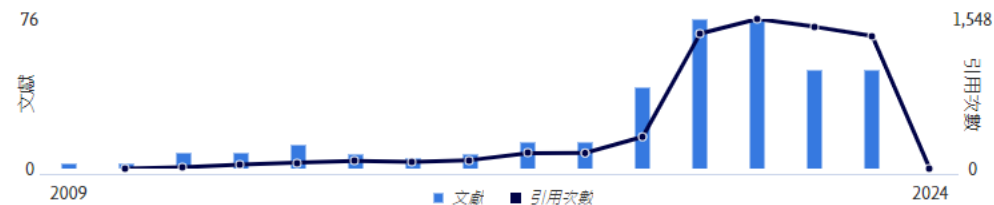
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h-index 是由美國加利福尼亞大學聖地亞哥分校的 Jorge E. Hirsch 教授所發展的混合量化指標，用於評估研究者的學術產出數量與學術產出影響力

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41 篇文獻

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作者資訊	比對到的的文獻數量	引用總數	所有文獻	h-指數
Maier, Andreas K. Friedrich-Alexander-Universität Erlangen-Nürnberg, Germany 預覽檔案	208	6420	864	42
Shen, Dinggang Shanghai Clinical Research and Trial Center, China 預覽檔案	205	30158	1352	109

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論文名稱、摘要、關鍵字



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Yang, Xiaofeng

 Emory University, Atlanta, United States

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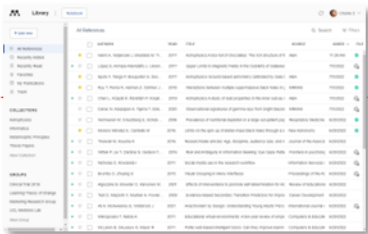


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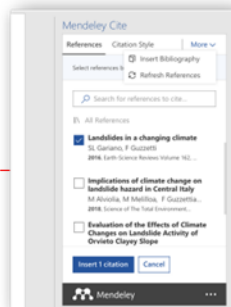
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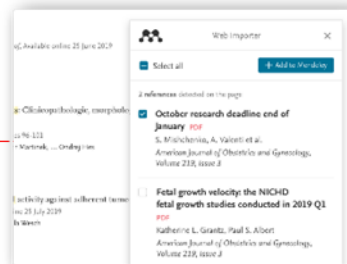
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	AUTHORS	YEAR	TITLE	SOURCE	ADDED	FILE
<input type="checkbox"/>	Amina Helmi, Jovan Vejan	2017	A box full of chocolates: The rich structure of the nearby stellar halo revealing...	Astrophysics	08/04/19	
<input checked="" type="checkbox"/>	N. Canac, K. N. Abazajian	2016	Observational Signatures of Gamma Rays from Bright Blazars and Wakefield...	High Energy Astro...	07/04/19	
<input checked="" type="checkbox"/>	L. Chen, A. Kospal, et al.	2017	A study of dust properties in the inner sub-au region of the Herbig Ae star HD...	Solar and Stellar	07/04/19	
<input checked="" type="checkbox"/>	F. Spoto, P. Tanga, et al.	2015	The HI Distribution Observed toward a Halo Region of the Milky Way	Astrophysics	07/04/19	
<input checked="" type="checkbox"/>	S. Bouquillon, J. Desmars,	2016	Halpna imaging observations of early-type galaxies from the ATLAS3D survey	Instrumentation an...	07/04/19	
<input type="checkbox"/>	M. Funagalli, A. Boselli et al.	2017	Cosmic-ray Antimatter	Astronomical Jour...	07/04/19	
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<input type="checkbox"/>	D. Berge, S. Bernhard, et al.	2017	Atomic Clock Ensemble in Space (ACES) data analysis	Earth and Planetary	06/04/19	
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<input type="checkbox"/>	M. Knight, C. Snodgrass	2016	Ground-based astrometry calibrated by Gaia DR1: new perspectives in astero...	Solar and Stellar	06/04/19	
<input type="checkbox"/>	N. Canac, K. N. Abazajian	2017	Gemini and Lowell Observations of 67P/Churyumov-Gerasimenko During the...	Astrophysics	06/04/19	
<input checked="" type="checkbox"/>	L. Chen, A. Kospal, et al.	2015	Observational Signatures of Gamma Rays from Bright Blazars and Wakefield...	Instrumentation an...	06/04/19	
<input type="checkbox"/>	F. Spoto, P. Tanga, et al.	2016	A study of dust properties in the inner sub-au region of the Herbig Ae star HD...	Astronomical Jour...	06/04/19	
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Collection	Item	Year	Author
Recently Read	<input checked="" type="checkbox"/>	2017	Amina Helmi, Jovan Veljan
Favorites	<input type="checkbox"/>	2016	N. Canac, K. N. Abazajian
My Publications	<input type="checkbox"/>	2017	L. Chen, A. Kospal, et al.
Trash	<input type="checkbox"/>	2015	F. Spoto, P. Tanga, et al.
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Metamorphic Principles	<input type="checkbox"/>	2017	M. Fumagalli, A. Boselli et al.
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High Energy Masses	<input type="checkbox"/>	2016	N.C. Santos, S.C. Barros,
Dark matter	<input checked="" type="checkbox"/>	2017	D. Berge, S. Bernhard, et al.
Thesis Papers	<input type="checkbox"/>		

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建立客製化館藏

後設資料補齊

The screenshot shows the Mendeley Library interface. On the left is a sidebar with navigation options like 'All References', 'Recently Added', and 'Collections'. The main area is divided into a list of references and a detailed view of a selected reference. The selected reference is about air pollution in China. Below the title, there are sections for 'IDENTIFIERS' (DOI, PII, ISSN, Scopus, SGR, PUI) and 'CITATION KEY'. A checkbox for 'Share this reference anonymously with Mendeley Web Catalog' is checked.

A.	AUTHORS	YEAR
	<input type="checkbox"/> Wang L, Dai Y, Kong D	20...
	<input type="checkbox"/> Morawska L, Zhu T, Liu N,...	20...
	<input type="checkbox"/> Yerema C, Managi S	20...
	<input type="checkbox"/> Shi Y, Zhang L, Li W, Wan...	20...
	<input type="checkbox"/> Deng Y, Liao J, Zhou B, Z...	20...
	<input type="checkbox"/> Chu Z, Bian C, Yang J	20...
	<input type="checkbox"/> Wei F, Yu Z, Zhang X, Wu ...	20...
	<input type="checkbox"/> Chen S, Zhang D	20...
	<input type="checkbox"/> Yang Y, Zhang X, Fu Y	20...
	<input type="checkbox"/> Kirk-Reeve S, Gehricke S,...	20...
	<input type="checkbox"/> Pandey A, Brauer M, Crop...	20...
	<input type="checkbox"/> Brauer M, Casadei B, Har...	20...

IDENTIFIERS

- DOI: 10.1016/j.jcorpfin.2021.102067
- PII: S0929119921001899
- ISSN: 09291199
- Scopus: 2-s2.0-85112548400
- SGR: 85112548400
- PUI: 2014088800

CITATION KEY

Add a citation key, e.g. Parker2005

MENDELEY CATALOG

- Share this reference anonymously with **Mendeley Web Catalog**

普遍接受的參考碼會顯示在 Identifiers。您也可以藉由一些識別碼搜尋如DOI和PMID來更新後設資料

允許該參考文獻被新增到 Mendeley 網路目錄以便其他研究者能找到該研究

重點標示, 註記, 選擇顏色, 加入筆記本

The screenshot shows a PDF reader interface with several key elements highlighted in red boxes:

- Top Bar:** Includes a search icon, a hand icon, a pencil icon, a comment icon, a color selection dropdown (set to 'Yellow'), and page navigation controls (1 / 11).
- Left Sidebar:** Features a menu icon and a '筆記本' (Notebook) button.
- Annotation Tools:** A 'Change color' palette with various colored circles and a 'Add to Notebook' button are visible.
- Text:** A yellow highlight covers the text: "Today, information technology is growing and advancing very fast, dramatically changing our lives and businesses in many ways".
- Right Panel:** Shows a 'Notebook' section with a quote: "Today, information technology is growing and advancing very fast, dramatically changing our lives and businesses in many ways".

重點標示, 註記, 選擇顏色

筆記本

可將重點標示的文字加入筆記本



引用

使用 for Microsoft Word Mendeley Cite
增益集

使用 Mendeley Cite: 在Word內做引用

File Home Insert Draw Design Layout **References** Mailings Review View Help

Table of Contents Update Table Insert Endnote Next Footnote Show Notes Search Researcher Manage Sources Style: APA Insert Table of Figures Update Table Cross-reference Mark Entry Mark Citation ABC Acronyms Mendeley Cite

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References Citation Settings

All References

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Internet of things empowering operations management; A systematic review based on bibliometric and content analysis
Rezaee N, Zanjirchi S, [...] Bamakan S
Telematics and Informatics Reports
Insert citation | Cited

Rezaee et al. 2023

Insert 1 citation Cancel

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Thank you

