TODD DIGBY - CHAIR, LIBRARY INFORMATION TECHNOLOGY

Enhancing the Institutional Repository: Increasing Access to Academic Articles and Manuscripts through Integration of Publisher APIs

UF George A. Smathers Libraries
UNIVERSITY of FLORIDA

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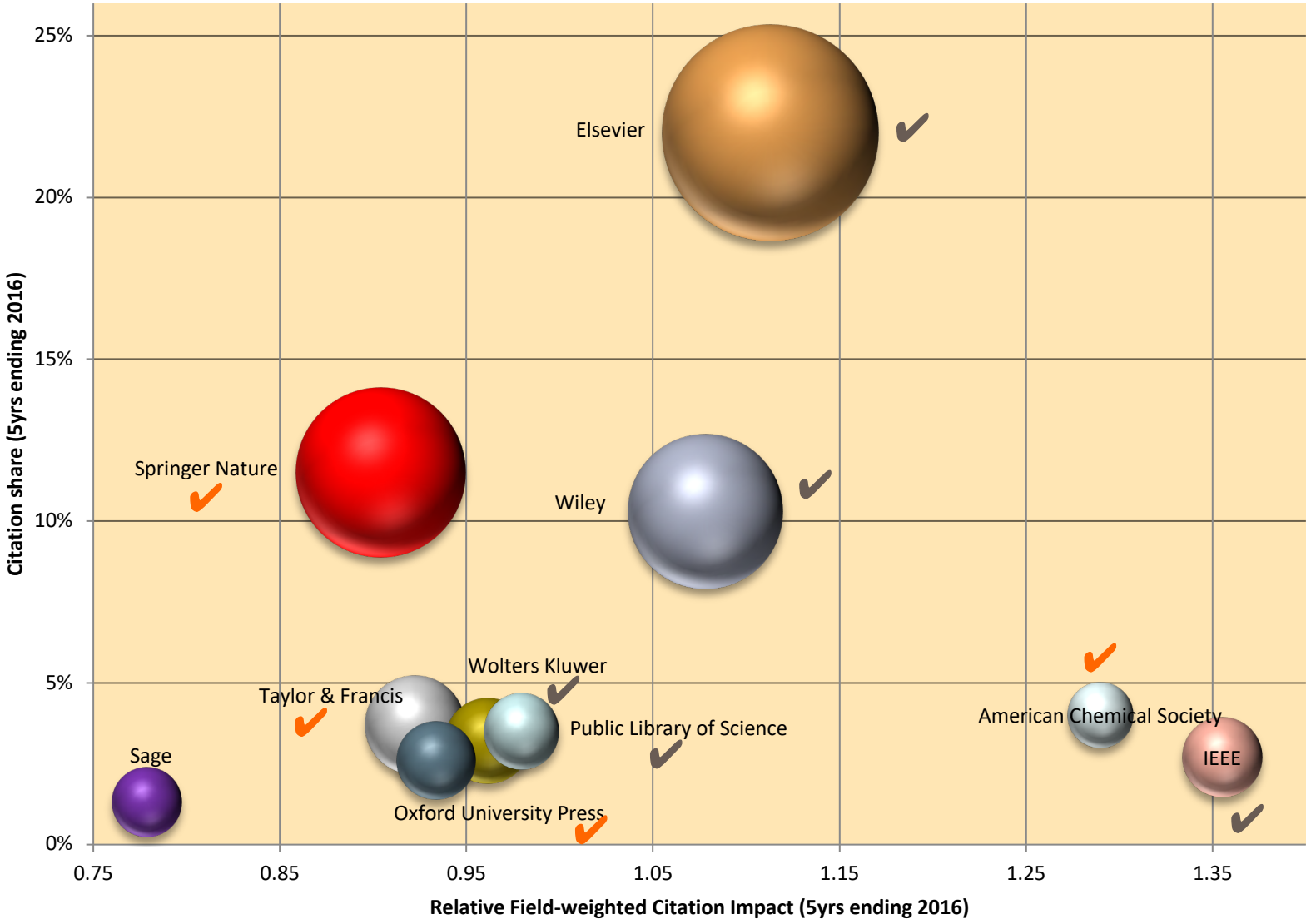
The University of Florida Libraries are engaged in two projects that demonstrate collaboration between academic libraries and publishers for interoperability between information systems that benefit for both.

- **Elsevier Pilot Project**
- **CHORUS Pilot Project**

Portfolio Analysis: UF Articles by Publisher 2016



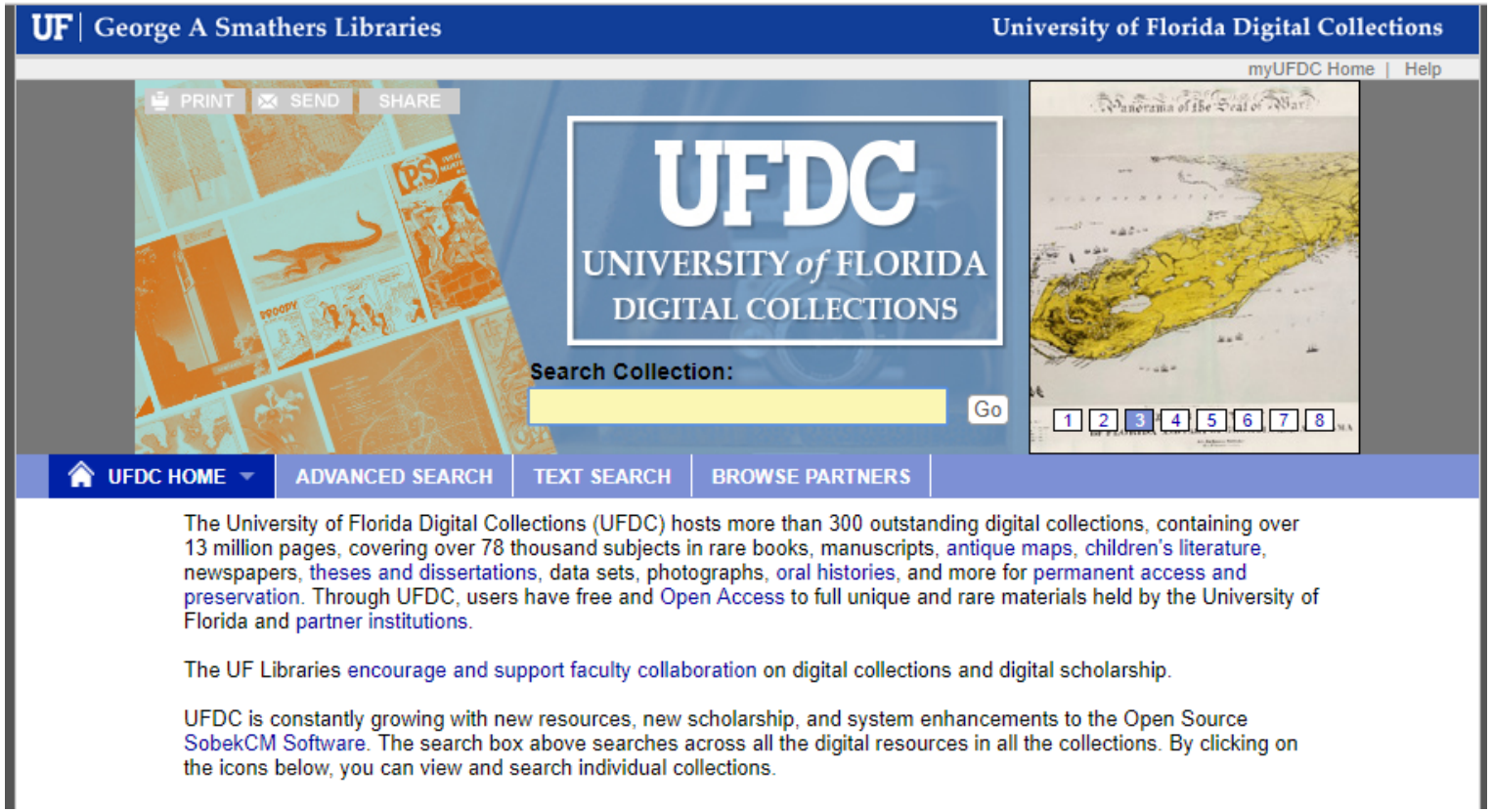
Bubble size represents number of UF-authored articles published in 2016

✔ Pilot participant and CHORUS member publisher
✔ CHORUS member publisher (as of January 2016)

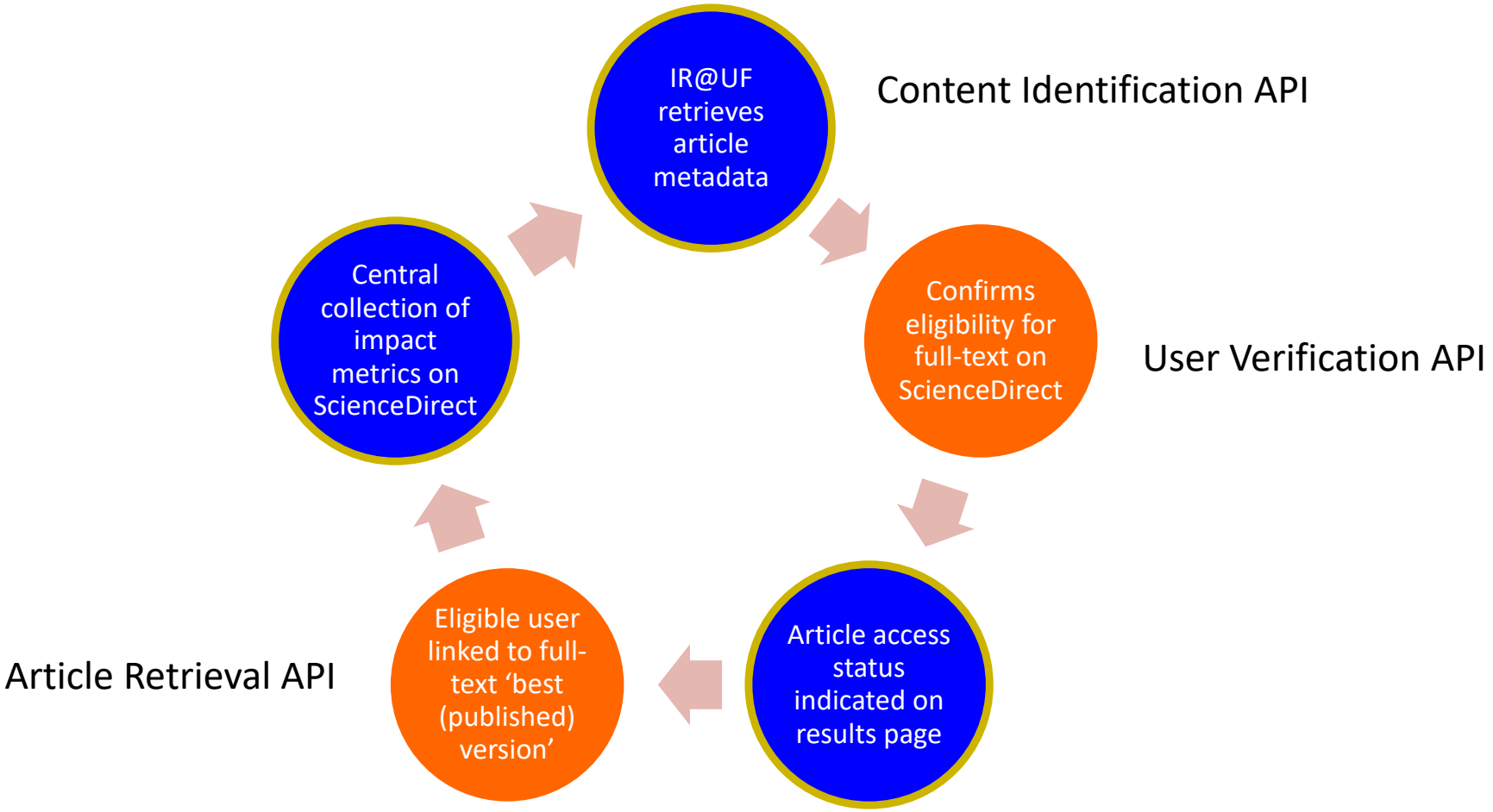
UF/Elsevier Project - Phase I: Implement the Elsevier API Infrastructure to Deliver Enhanced Repository Services

- Increase comprehensiveness of coverage of Elsevier-published content by UF authors through the IR@UF.
- Provide subscribers with access to the best available (published) version through the IR@UF.
- Integrate published articles with other IR@UF content.

Implementation Using the IR@UF on the Sobek^{CM} Platform



Elsevier APIs for Institutional Repositories



Adapted from Spears, IFLA 2016

View of Results with Elsevier Articles from IR@UF

The Institutional Repository at the University of Florida IR @ UF

HOME | SEARCH OPTIONS | BRIEF VIEW | TABLE VIEW | THUMBNAIL VIEW | PRINT | SEND | SAVE | SHARE

Your search of *Institutional Repository at the University of Florida (IR@UF)* for 'marine' anywhere and 'geology' anywhere

FIRST | PREVIOUS | 41 - 56 of 56 matching titles | Sort By: Rank

NARROW RESULTS BY:

Creator
Hodell, David A. (11)
Martin, Jonathan B (9)
Kamenov, George D. (8)
Channell, J.E.T (8)
Dekov, Vesselin (6)
Stummeyer, Jens (6)
Curtis, Jason H. (5)
Dekov, Vesselin M. (4)
Department of Geology, University of Florida, Gainesville, Fla. U.S.A. (host institution) (4)
Savelli, Carlo (4)
Show More >>

Language
English (84)

Publisher
Elsevier B.V. (65)
Elsevier Ltd (9)
University of Florida (6)
Elsevier Inc. (2)
Minerals Management Service (1)
U.S. Dept. of the Interior, Fish and Wildlife Service (1)

Subject: Genre
serial (45)
article (31)
bibliography (7)
electronic thesis or dissertation (6)
theses (6)
government publication (state, provincial, territorial, dependent) (5)
born-digital (5)
non-fiction (2)

Subject: Topic
geochemistry (4)
sediment (4)
paleoclimate (3)
mediterranean (3)
Diagenesis (2)
stratigraphy (2)
glacimarine (2)
sapropel (2)
Pliocene (2)
Ecology (2)
Show More >>

Subject: Geographic Area
Tampa Bay Watershed (2)
Suwannee River Valley (Ga. and Fla.) (1)
Tampa Bay Watershed (Fla.) (1)
Florida (1)

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Publisher version
You have access

Paleoclimate of Southwestern China for the Past 50,000 yr Inferred from Lake Sediment Records

Links: (external resource | internal citation)
Publication Date: 1999
Creator: Department of Geology, University of Florida, Gainesville, Florida, 32611 (host institution)
Curtis, Jason H. (author)
Hodell, David A. (author)
Brenner, Mark (author)
Kanfoush, Sharon L. (author)
Stoner, Joseph S. (author)
Xueliang, Song (author)
Yuan, Wu (author)
Whitmore, Thomas J. (author)
Publisher: Elsevier Inc.
Format: Pages 369-380
Subjects: Paleoclimate
China
Geochemistry
Stable isotopes
paleolimnology
monsoon
Yunnan Province
Source Institution: Elsevier Inc.

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Publisher version
Check access

Paleoecology of shallow-marine carbonate environments, middle Eocene of Peninsular Florida

Links: (external resource | internal citation)
Publication Date: 1990
Creator: Department of Geology, University of Florida, Gainesville, FL 32611 U.S.A. (host institution)
Portell, Roger W. (author)
Jones, Douglas S. (author)
Randazzo, Anthony F. (author)
Kosters, Mieke (author)
Publisher: Elsevier B.V.
Format: Pages 1-11
Source Institution: Elsevier B.V.

View of Results with Elsevier Articles from IR@UF

Publisher version
Open access

Prevention of Atrial Fibrillation by Bucindolol Is Dependent on the Beta1389 Arg/Gly Adrenergic Receptor Polymorphism

Links:	(external resource | internal citation)
Publication Date:	2013-08-31
Creator:	O'Connor, Christopher M. (author)
	Fiuzat, Mona (author)
	Davis, Gordon (author)
	Abraham, William T. (author)
	Anand, Inder S. (author)
	Liggett, Stephen B. (author)
	Bristow, Michael R. (author)
	Section of Cardiac Electrophysiology, University of Colorado Denver, Denver, Colorado (host institution)
	Aleong, Ryan G. (author)
	Sauer, William H. (author)
	Murphy, Guinevere A. (author)
	Port, J. David (author)
Publisher:	American College of Cardiology Foundation. Published by Elsevier Inc.
Format:	Pages 338-344
Subjects:	Arrhythmia
	genetics
	Norepinephrine
	Heart Failure
	beta adrenergic receptors
Source Institution:	American College of Cardiology Foundation. Published by Elsevier Inc.

UF/Elsevier Project - Goals and Discoveries

Phase I Goals:

- Metadata and links for ~32,000 articles by UF authors in IR@UF from 1949 - 2017
- Indexing based on metadata, including abstracts

Phase I Discoveries:

- More gold OA publishing than anticipated (601 articles by 1,443 unique UF authors between 2009 and early 2016)

Phase II Goals:

- Streaming final articles or accepted manuscripts (around 3,000) to IR@UF
- Indexing based on metadata and full-text
- Learning from usability testing

UF/Elsevier, Phase II: Refine the API Infrastructure and Expand Enhanced Repository Services:

- Provide an access option for users without a subscription: viewing of the post-embargo accepted manuscripts (2013 forward).
- Offer full text searching through the IR@UF, with links to the published article on ScienceDirect.
- Usability testing by Elsevier and UF.
- Research on open access publishing by UF authors and use of Elsevier metadata for other University purposes, including compliance.
- Notification of content to authors.

View of Search Result for Accepted Manuscript Item

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UFDC Home

UFDC University of Florida Digital Collections

UFDC HOME | SEARCH OPTIONS | BRIEF VIEW | THUMBNAIL VIEW | TABLE VIEW | PRINT

Your search of *All Collection Groups* for 'riparian' anywhere and 'sediment' anywhere and 'ancient' anywhere resulted in one matching record.

1 - 1 of 1 matching titles Sort

Accepted Manuscript

Diversity, abundance and community structure of ammonia-oxidizing archaea and bacteria in riparian sediment of Zhenjiang ancient canal

Links:	(publisher version | internal citation)
Publication Date:	2016-05-31
Creator:	Zhou, Xiaohong (author)
	School of the Environment and Safety Engineering, Jiangsu University, Zhenjiang, Jiangsu, 212013, China (host institution)
	Li, Yimin (author)
	Zhang, Jinping (author)
	Liu, Biao (author)
	Wang, Mingyuan (author)
	Zhou, Yiwen (author)
	Lin, Zhijun (author)
	He, Zhenli (UF author)
Publisher.Display:	Elsevier B.V.
Format:	Pages 447-458
Subjects.Display:	Nitrification
	Ammonia-oxidizing bacteria
	Ammonia-oxidizing archaea
	Riparian sediment
	Ancient canal
Source Institution:	Elsevier B.V.

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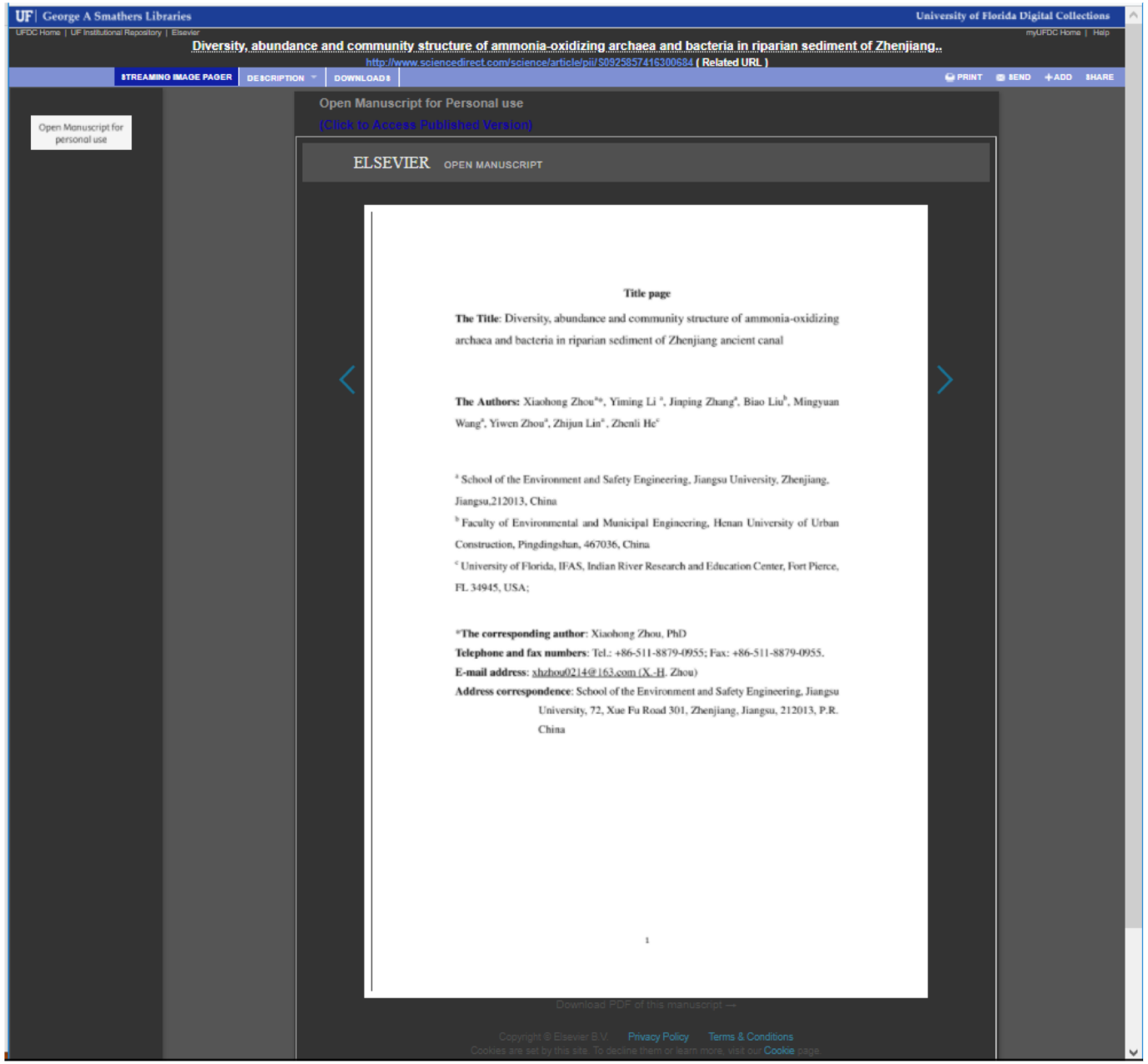

UF | George A Smathers Libraries — University of Florida Digital Collections

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Diversity, abundance and community structure of ammonia-oxidizing archaea and bacteria in riparian sediment of Zhenjiang..

http://www.sciencedirect.com/science/article/pii/S0925857416300684 (Related URL)

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Open Manuscript for Personal use

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ELSEVIER OPEN MANUSCRIPT

Title page

The Title: Diversity, abundance and community structure of ammonia-oxidizing archaea and bacteria in riparian sediment of Zhenjiang ancient canal

The Authors: Xiaohong Zhou[a*], Yiming Li [a], Jinping Zhang[a], Biao Liu[b], Mingyuan Wang[a], Yiwen Zhou[a], Zhijun Lin[a], Zhenli He[c]

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[b] Faculty of Environmental and Municipal Engineering, Henan University of Urban Construction, Pingdingshan, 467036, China

[c] University of Florida, IFAS, Indian River Research and Education Center, Fort Pierce, FL 34945, USA;

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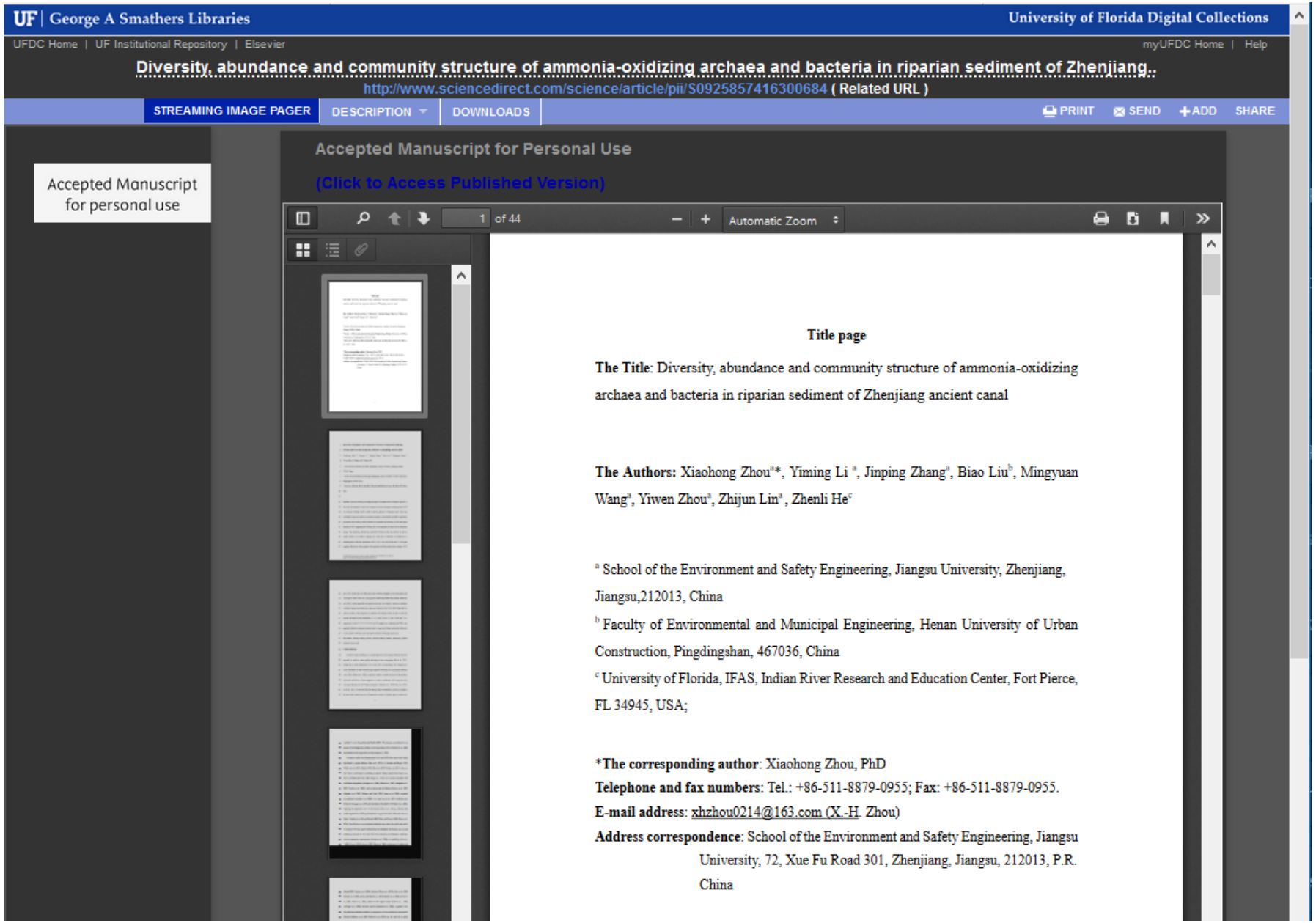
Accepted Manuscript Streaming Viewer



Benefits of Collaboration Through Linking

- Maximizing research impact for articles by UF authors
- Delivering the best available (published) version on ScienceDirect
- Displaying the search results with data sets and related content in the IR@UF and the published article with links to related content on ScienceDirect
- Assuring the reliability and trustworthiness of content

Other Benefits of Collaboration

- Collect information without burden on UF faculty publishing in Elsevier journals
- Facilitate University oversight of compliance with public access mandates
- Achieve cost savings and efficiencies for the Libraries and UF through automation
- Test and refine Elsevier APIs to provide smooth scalability of process with future academic collaborators
- Improve understanding of publisher and academic library perspectives and address constraints inherent in these roles

Challenges

- Identification of UF authors with existing metadata
  - Need reliable identifiers like ORCID Connecting Research and Researchers
  - Funders and publishers should require use of standard identifiers
- Arriving at a common understanding of distinctive approaches and unique roles for content provision by publishers and academic libraries
- Adaptation of unique IR@UF platform (SobekCM) with Elsevier APIs

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digby@ufl.edu
@todddigby

Photograph by Catherine Russell

Link to UF / Elsevier search
http://ufdc.ufl.edu/ielsevier