

High-Level Accessibility Evaluation (WCAG 2.1)

SpingerLink Platform

August 8, 2023

Prepared for:

BTAA-Library Accessibility Alliance

Prepared by:

Emily Mason, UX Researcher User-Experience Lab CCI Research & Innovation Center (RIC) University of Tennessee uxl@utk.edu

Primary Point of Contact:

Amy Forrester, RIC Assistant Director aforres4@utk.edu

TABLE OF CONTENTS

Summary		3
То	pp Findings	3
Ве	est Practices	3
Acces	SSIBILITY FINDINGS	4
1.	Initial Interface	4
2.	Search Results	5
3.	Individual Results	6
4	Advanced Search	7





SUMMARY

This report reflects the findings of a high-level assessment of the SpringerLink platform for its conformance with the W3C Web Content Accessibility Guidelines version 2.1 (WCAG 2.1).

There are very few WCAG 2.1 compliance issues with the platform. Those identified are very minor overall and center on the landing page and the advanced search. The evaluation of the PDF document, however, did reveal major accessibility issues. Below are the most critical issues to address to improve system compliance.

Top Findings

- 1. **PDF Content**: There are many issues with the PDF content. Please refer to the <u>Section 508</u> <u>Guidelines for PDF Content</u> for more information about accessibility requirements for PDF documents. There are also free resources available for <u>Training on PDF Remediation</u>.
- 2. **Compatibility:** There are few issues surrounding compatibility, in particular with the use of unique ID's. These can cause issues with screen reader support, keyboard navigation, and the overall navigability of the site if not addressed. When authoring for ARIA be sure to reference the WAI-ARIA Best Practices from W3.
- 3. **Navigation:** The main navigation of the site has some minor issues in the way the list is set up.

Best Practices

Simple corrections can make a sizable difference.

- ◆ ARIA role should be appropriate for the element.
- Page should contain a level-one heading.
- ♦ Form elements should have a visible label.
- ♦ All page content should be contained by landmarks.
- Document should not have more than one contentinfo landmark.
- Contentinfo landmark should not be contained in another landmark.
- ♦ Ensure landmarks are unique.





ACCESSIBILITY FINDINGS

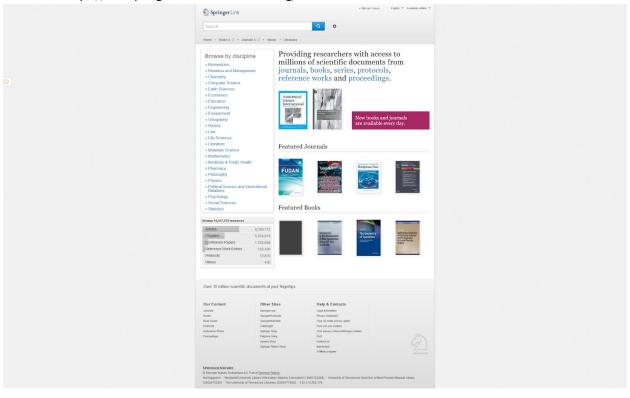
This report was conducted against the SpringerLink Platform and covers a selection of pages and features that were to be tested as a representative sample of the database's conformance to the WCAG 2.1 AA standards.

The resource was reviewed using a combination of manual and automatic review tools and assistive technologies, including the WAVE Accessibility Assessment tool, Axe Accessibility Assessment tool, WCAG Color Contrast Checker, and NVDA screen reader. PDF content was tested against Section 508 requirements using Adobe Acrobat's accessibility tools and manual analysis. All problems identified by automatic tools were verified manually. This evaluation was performed using Firefox on Windows 11.

Below are the errors revealed during the accessibility evaluation of the SpringerLink platform. Each result shows a summary of accessibility issues and the reason it was flagged. Screenshots are included.

1. Initial Interface

Test Case: Test initial interface/landing page to ensure menus, sub-menus, search box, images, icons, etc. are accessible. https://link-springer-com.utk.idm.oclc.org/







SC 1.3.1: elements must be contained in a or .

Location(s):

- #global-nav > li:nth-child(1)
- #global-nav > li:nth-child(2)
- #global-nav > li:nth-child(3)
- #global-nav > li:nth-child(4)
- #global-nav > li:nth-child(5)

Reason flagged:

List item does not have a , parent element without a role, or a role="list"

SC 1.4.1: Links must be distinguishable without relying on color.

Location(s):

- journals
- books
- series
- protocols
- reference works
- proceedings

Reason flagged:

- The link has insufficient color contrast of 2.92:1 with the surrounding text.
 (Minimum contrast is 3:1, link text: #417db9, surrounding text: #333333)
- The link has no styling (such as underline) to distinguish it from the surrounding text.

SC 1.4.4: Zooming and scaling must not be disabled.

Location(s):

- <meta name="viewport" content="width=device-width, minimum-scale=1, maximum-scale=1">

Reason flagged:

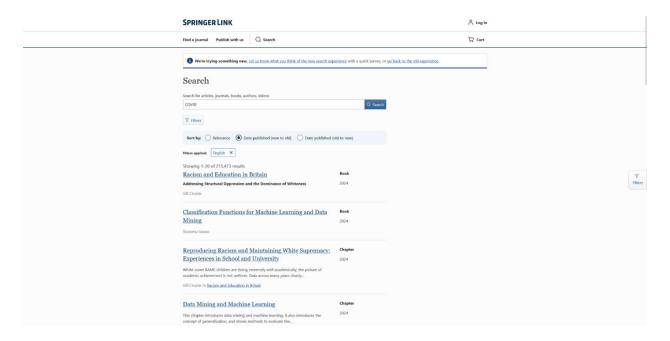
maximum-scale on <meta> tag disables zooming on mobile devices.

2. Search Results

Test Case: From the initial landing page, conduct a search for: COVID. Test search results page, including filters/refine search: filter by language: English, and sort by date published (new to old).







SC 4.1.1: id attribute value must be unique.

Location(s): There are multiple instances of this issue on the page.

Reason flagged:

Document has multiple static elements with the same id attribute: a

3. Individual Results

Test Case: Test individual search result landing page & test actual document (PDF, video, etc.).



No Issues Found

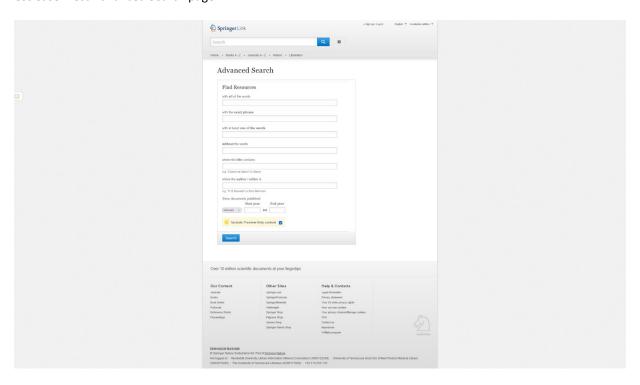




PDF Area Assessed	Failed issues
Document	Tagged PDF
	Title
Page Content	Tagged Content
	Tagged Annotation Failed
	Tab Order
Forms	None
Alternate Text	Figures Alternate Text
	Nested Alternate Text
	Associated with Content
	Hides Annotation
	Other Elements Alternate Text
Tables	Rows
	TH and TD
	Headers
	Regularity
Lists	List Items
	Lbl and LBody
Headings	Appropriate Nesting

4. Advanced Search

Test Case: Test Advanced Search page.







SC 1.3.1: elements must be contained in a or .

Location(s):

- #global-nav > li:nth-child(1)
- #global-nav > li:nth-child(2)
- #global-nav > li:nth-child(3)
- #global-nav > li:nth-child(4)
- #global-nav > li:nth-child(5)

Reason flagged:

List item does not have a , parent element without a role, or a role="list"

SC 1.4.4: Zooming and scaling must not be disabled.

Location(s):

- <meta name="viewport" content="width=device-width, minimum-scale=1, maximum-scale=1">

Reason flagged:

maximum-scale on <meta> tag disables zooming on mobile devices.

Disclaimer: This high-level evaluation was conducted for the Library Accessibility Alliance and represents a good faith effort conducted within a limited time frame. It should not be assumed to be complete or free from error. No warranties or guarantees are implied. UT is not responsible for direct, indirect, or incidental damages based on this work; its use or interpretation by any individual, group, or organization; or on conditions beyond our control.



