



Center *for* Research Libraries
GLOBAL RESOURCES NETWORK

PORTICO E-BOOK PRESERVATION: PROGRESS MADE, LESSONS LEARNED, AND FUTURE DIRECTIONS

CRL webinar



PORTICO



AGENDA

- Overview of Portico's services
- E-Book preservation progress and new developments
- Preserving and delivering e-books
- Future Possibilities

PORTICO



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BEYOND SERIALS—LESSONS LEARNED AND FUTURE DIRECTIONS FOR E-BOOK PRESERVATION

I T H A K A

ITHAKA is a not-for-profit organization that helps the academic community use digital technologies to preserve the scholarly record and to advance research and teaching in sustainable ways.

ARTSTOR

Artstor provides 2+ million high-quality images and digital asset management software to enhance scholarship and teaching.



Ithaka S+R is a not-for-profit research and consulting service that helps academic, cultural, and publishing communities thrive in the digital environment.



JSTOR is a not-for-profit digital library of academic journals, books, and primary sources.



PORTICO

Portico is a not-for-profit preservation service for digital publications, including electronic journals, books, and historical collections.



**E-JOURNAL
PRESERVATION
SERVICE**



**E-BOOK
PRESERVATION
SERVICE**

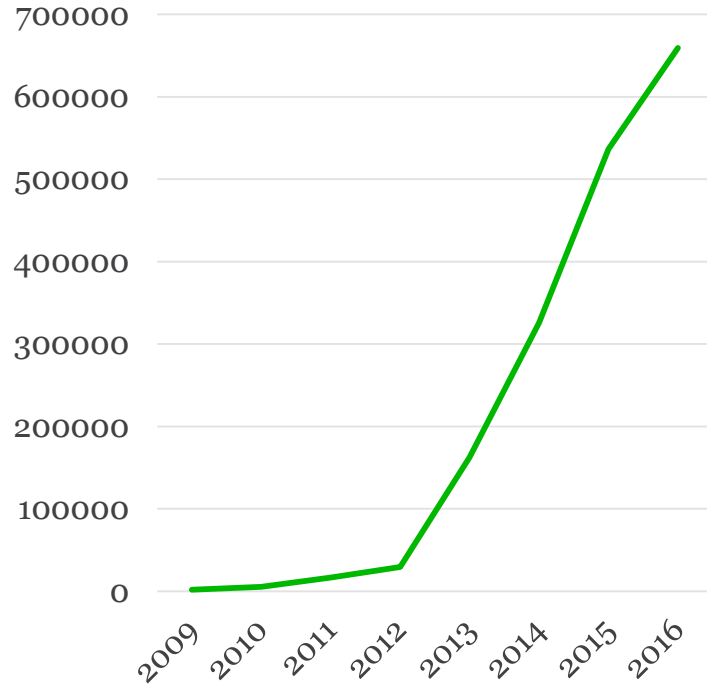


**D-COLLECTION
PRESERVATION
SERVICE**

Publisher & Library fees

Publisher fees,
no Library fees

E-Book Preservation



669,430 e-books preserved today

4 e-reference books preserved today

98,354 e-reference entries preserved today

131 e-book publishers committed today

404 e-books fulfilling PCA claims

1 e-book (e-reference) triggered

Received E-Book Formats

- ONIX + PDF (lots of it)
- JATS, BITS, or proprietary headers + full book PDF
- JATS, BITS, or proprietary headers + chapter level PDFs
- JATS, BITS, or proprietary full-text XML+ full book PDF
- JATS, BITS, or proprietary full-text XML+ chapter level PDFs

Note: e-book packaging can be quite complex and, as all the librarians in the room will no doubt attest, the bibliographic metadata is frequently not as robust as we would like.

RECENT DEVELOPMENTS

More complex products

- reference databases
- digital products based on print volumes

With more than just metadata + PDF or a self-contained format

- additional mapping
- complex relationships
- updates

Requires decisions regarding content type and business models

PRESERVING E-BOOKS

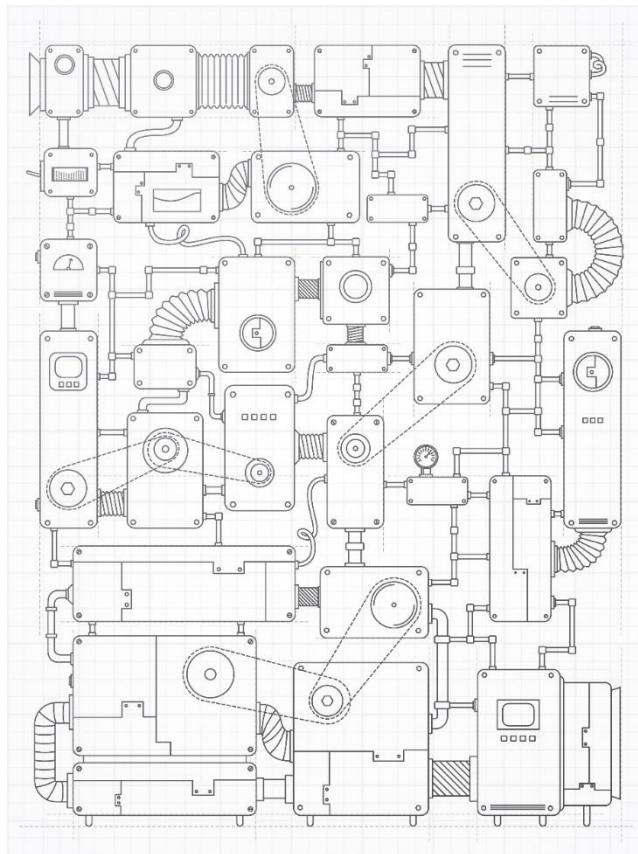
Portico defines fully managed digital preservation as the series of policies and activities necessary to ensure the usability, authenticity, discoverability, and accessibility of content over the very long-term.

- Format based migration strategy
- Preservation metadata
- Practical preservation
- Archive is self-describing
- Dark archive with audit access

Files Arrive



Files Are Processed



Content Preserved



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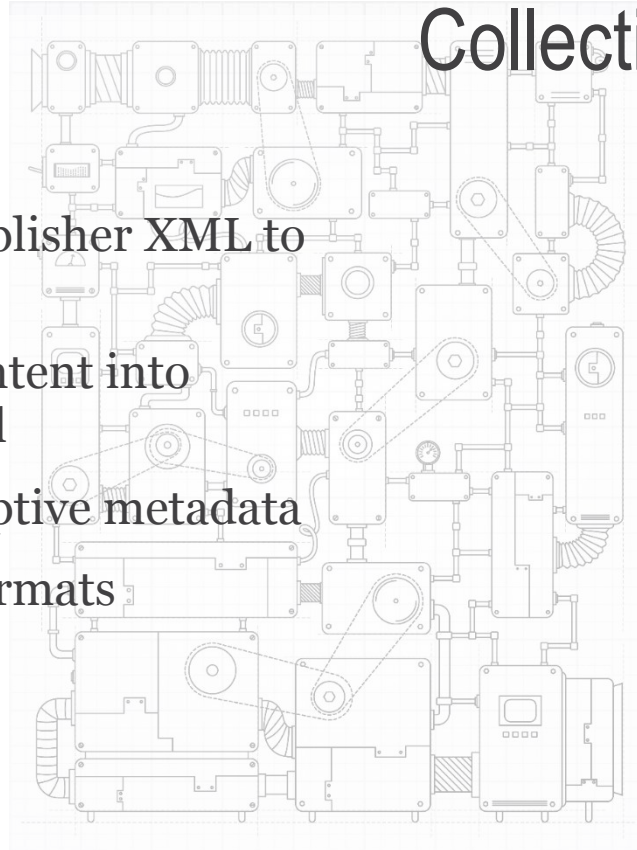
E-Journal and E-Book

D(igitized Historic)

Processing

Collections Processing

- Transform publisher XML to Portico XML
- Repackage content into archival model
- Extract descriptive metadata
- Identify file formats
- Validate files



E-Journal and E-Book

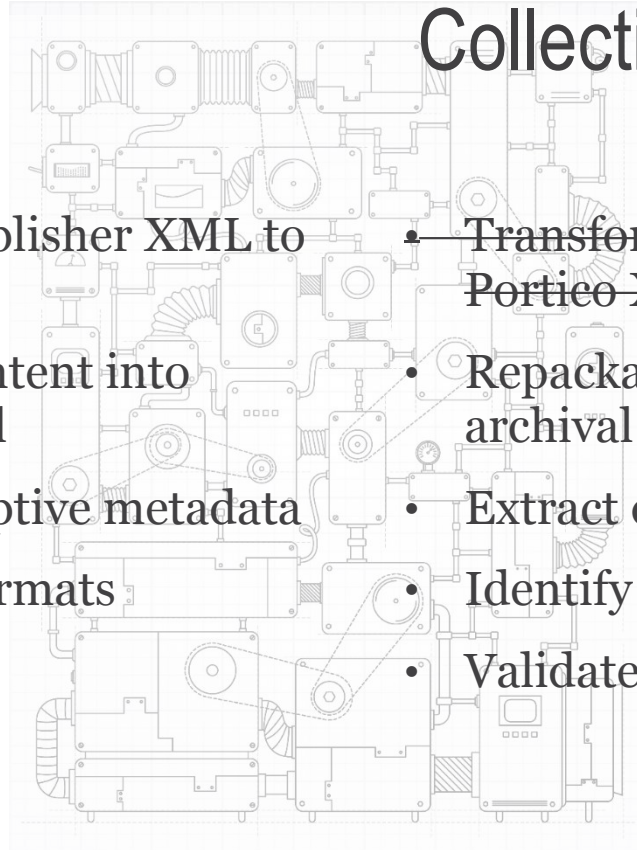
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Collections Processing

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DELIVERING E-BOOKS



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COMPARE VIEW

Group IV Elements, IV-IV and III-V Compounds. Part a - Lattice Properties

O. Madelung, U. Rössler, M. Schulz (2001)

Portico Content Set: Springer E-Books

Portico Item ID: ark:/27927/pbb6h2jg5

Agreement Name

Springer-Verlag GmbH E-Book Agreement, Version 1.0 (July 7, 2009)

PCA allowed

Yes

Stable URL

<http://portico.org/stable?au=pbb6h2jg5>

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Additional Information

PDFs

Group IV Elements, IV-IV and III-V Compounds. Part a - Lattice Properties

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O. Madelung, Editor, U. Rössler, Editor, M. Schulz, Editor

1: General Introduction. Collaboration: Authors and editors of the volumes III/17A-22A-41A1a, Pages 1-47.

Available Rendition(s) for Section: [PDF](#)

2: List of frequently used symbols and abbreviations, conversion factors. Collaboration: Authors and editors of the volumes III/17A-22A-41A1a, Pages 1-7.

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3: Boron nitride (BN) structure. Collaboration: Authors and editors of the volumes III/17A-22A-41A1a, Pages 1-3.

Available Rendition(s) for Section: [PDF](#)

4: Boron nitride (BN) phase diagram, equation of state. Collaboration: Authors and editors of the volumes III/17A-22A-41A1a, Pages 1-8.

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5: Boron nitride (BN) phase transition data. Collaboration: Authors and editors of the volumes III/17A-22A-41A1a, Pages 1-3.

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6: Boron nitride (BN) lattice parameters. Collaboration: Authors and editors of the volumes III/17A-22A-41A1a, Pages 1-12.



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substance: boron nitride (BN)

property: structure

Structure, mechanical, and thermal properties, phase diagrams, electrical transport properties, electronic band structure, optical, luminescence, Raman, and infrared spectroscopy, defect and alloy properties are reviewed in [94E].

Boron nitride crystallizes in three modifications: BN_{hex} (hexagonal BN), BN_{cub} (cubic BN, zincblende structure), and BN_w (wurtzite structure). BN_{hex} is stable under normal conditions, BN_{cub} is metastable under normal conditions. The BN_w phase is metastable under all conditions.

No change of phase has been observed at temperatures between 4 and 1433 K [75S]. The growth of cubic BN films requires high substrate temperatures [97J]. For the stress and strain of cubic BN films as a function of the substrate temperature between 700 and 1200 °C, see [98Z].

Under pressure, hexagonal BN can be transformed into the zincblende form between 2500 and 4000 K and to the wurtzite structure at lower temperature [63B, 72W]. The transition from hexagonal to wurtzite-structure BN occurs at 10.4 GPa (298 K), 9.8 GPa (597 K), 8.5 GPa (873 K) [86W]. From OLCAO calculations, the hexagonal phases are more stable than the close-packed modifications by 350 meV/atom [91X], while from ab-initio pseudopotential calculations the denser modifications are much more stable by 60 meV/atom [94F]; the zincblende phase is calculated to have a lower energy than the wurtzite phase by 75 [91Y], 27 [86W], 20 [94E]



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THE NEW PARTRIDGE DICTIONARY OF SLANG AND UNCONVENTIONAL ENGLISH

Publisher Taylor & Francis Group
Agreement Name Taylor & Francis Group E-Book Agreement, Version 1.0 (August 3, 2010)
PCA allowed No
Stable URL <http://portico.org/stable?cs=Partridge Dictionary of Slang Online>

All 0-9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z Other

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\$.02, 1995
The New Partridge Dictionary of Slang and Unconventional English (June 26, 2015)
Portico Content Set: Partridge Dictionary of Slang Online
ISBN: 9781317372516
Portico Item ID: [ark:/27927/phx4jmq3dp](http://portico.org/stable?cs=Partridge Dictionary of Slang Online)
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'arold (noun)
The New Partridge Dictionary of Slang and Unconventional English (June 26, 2015)
Portico Content Set: Partridge Dictionary of Slang Online
ISBN: 9781317372516
Portico Item ID: [ark:/27927/phx4jvqz85](http://portico.org/stable?cs=Partridge Dictionary of Slang Online)
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'Arry's gators, 1958
The New Partridge Dictionary of Slang and Unconventional English (June 26, 2015)
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'Beam (noun), 1979
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'bout it (adjective)
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'burb (noun), 1971
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Portico Content Set: Partridge Dictionary of Slang Online

ISBN: 9781317372516

Portico Item ID: ark:/27927/phx4ktx4zk

Agreement Name

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No

http://portico.org/stable?au=phx4ktx4zk

HTML

Book

ISBN: 9781317372516

The New Partridge Dictionary of Slang and Unconventional English

'Beam

a Sunbeam motorcycle (in production from 1912-57)

Date

1979

FUTURE POSSIBILITIES

Expand standard preservation services to accommodate less traditional e-books

Explore the need to move beyond scholarly markets (e.g. trade)

Develop preservation models for digital scholarship, dynamic content, and other nonserial formats

Preservation community “collection policy” to make sure there are no significant gaps



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Discussion

Please join us for a discussion with our presenters.
Submit your questions and comments in the Q&A box.



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UPCOMING CRL EVENTS

CRL Global Resources Collections Forum 2017 (following the Annual Council Meeting)

Shaping CRL's Agenda:

I. Licensing Global Data II. Digitizing Global Collections

Friday, April 21, 1:00-3:30 p.m. Central Time

Visit www.crl.edu/events to register for events



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