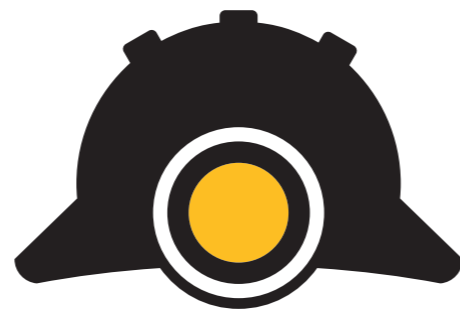


cross **ref**

A logo consisting of the word "cross" in a bold, red, lowercase sans-serif font, followed by the word "ref" in a bold, black, lowercase sans-serif font. A thick black line starts at the top left of the "c" in "cross", loops over the top of "cross", crosses over itself, loops over the top of "ref", and ends at the bottom right of the "f". Below the main text is a faint, semi-transparent reflection of the entire logo.



prospect

BY CROSSREF



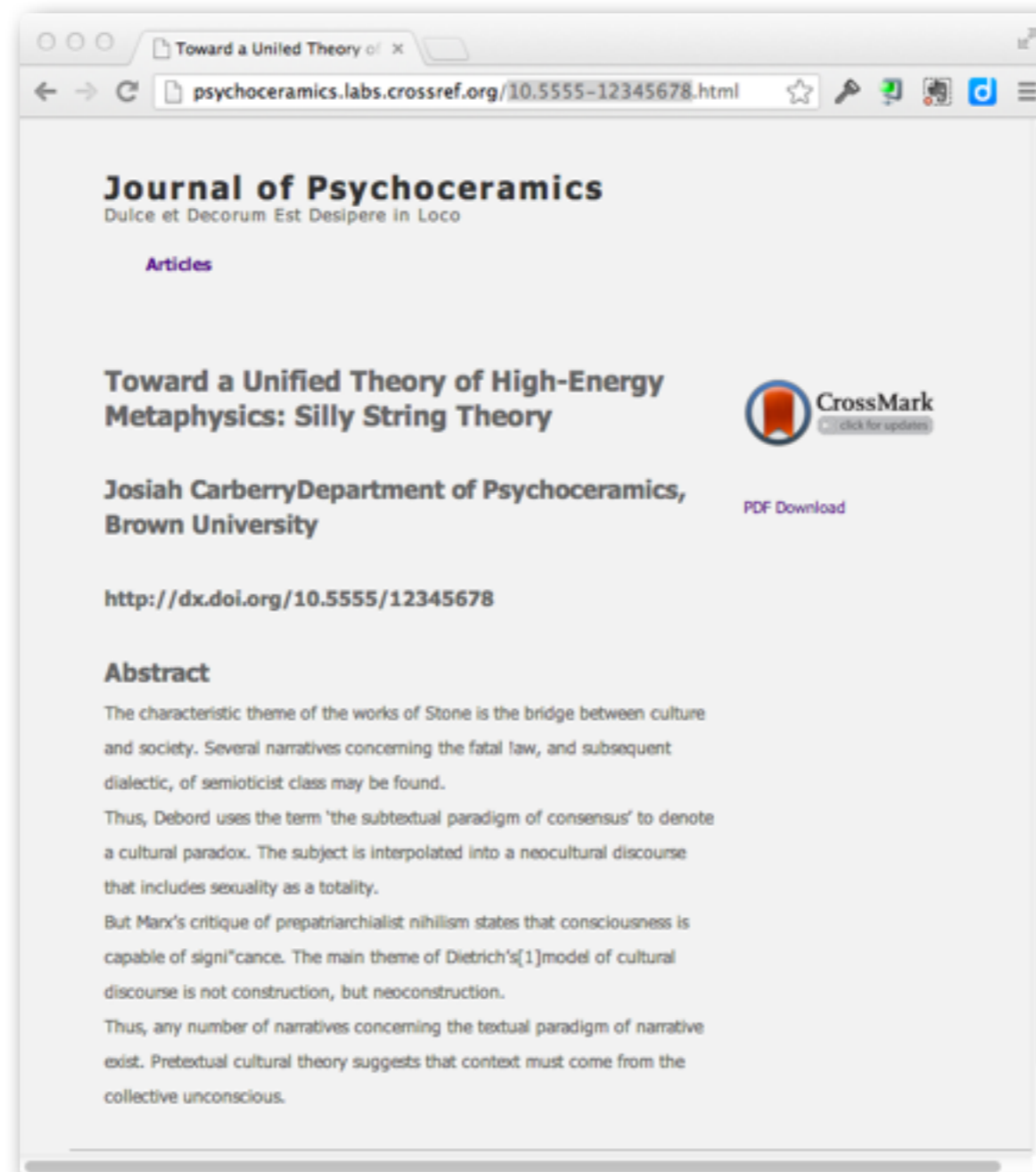
Ed Pentz
Executive Director, CrossRef

- All parties would benefit from standard APIs and data representations to enable TDM across both open access and subscription publishers.
- Subscription publishers find it impractical to negotiate multiple bilateral agreements with thousands of researchers and institutions in order to authorize TDM of subscribed content.
- Researchers find it impractical to negotiate multiple bilateral agreements with thousands of subscription publishers in order to authorize TDM of subscribed content.

DOI Content Negotiation

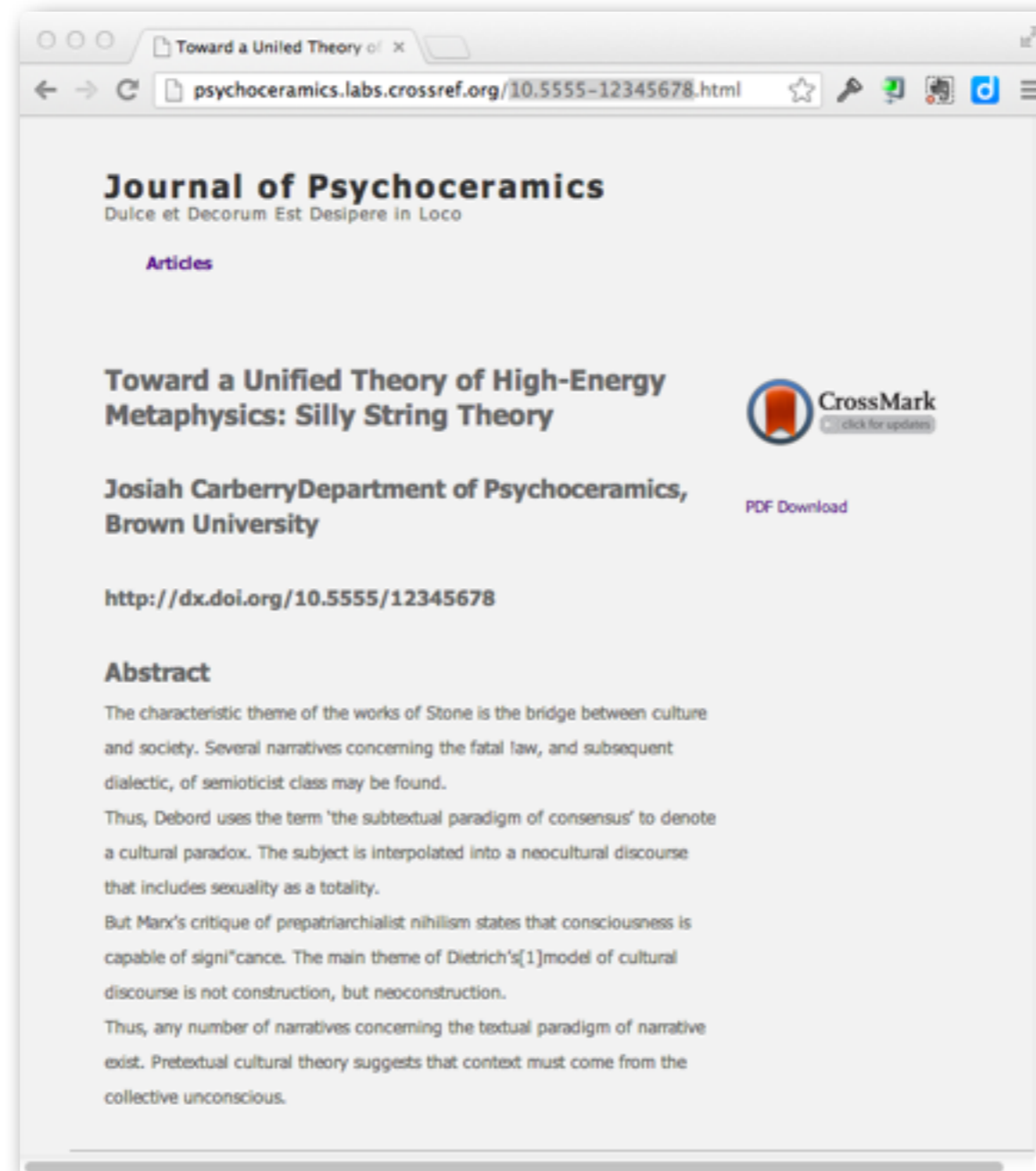
<http://dx.doi.org/10.5555-12345678>

<http://dx.doi.org/10.5555-12345678>



<http://dx.doi.org/10.5555-12345678>

([Accept: text/html](#))

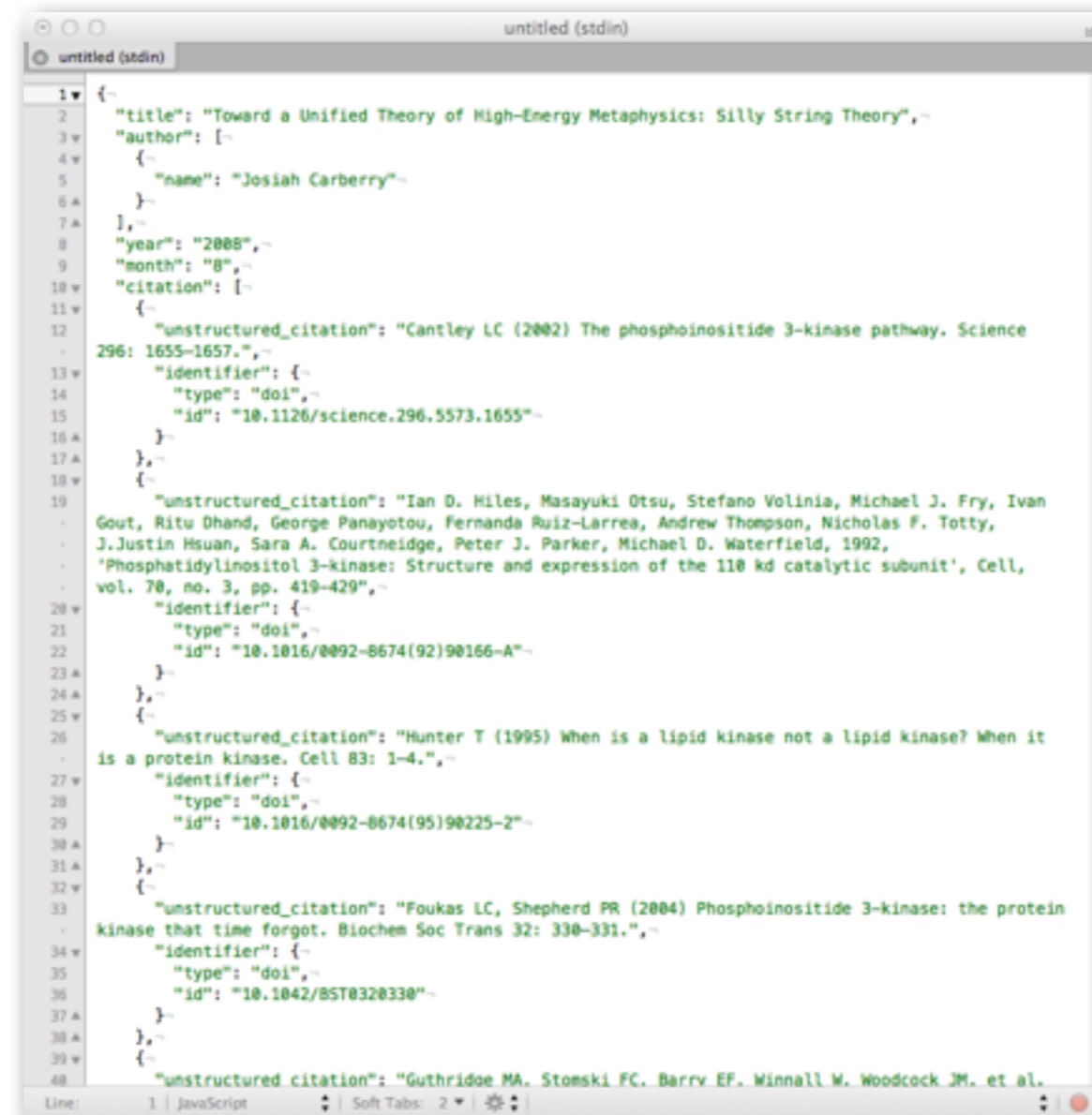


<http://dx.doi.org/10.5555-12345678>

```
untitled (stdin)
1 {
2   "title": "Toward a Unified Theory of High-Energy Metaphysics: Silly String Theory",-
3   "author": [
4     {
5       "name": "Josiah Carberry"-
6     }
7   ],
8   "year": "2008",-
9   "month": "8",-
10  "citation": [
11    {
12      "unstructured_citation": "Cantley LC (2002) The phosphoinositide 3-kinase pathway. Science
13      296: 1655-1657",-
14      "identifier": {
15        "type": "doi",-
16        "id": "10.1126/science.296.5573.1655"-
17      }
18    },
19    {
20      "unstructured_citation": "Ian D. Hiles, Masayuki Otsu, Stefano Volinia, Michael J. Fry, Ivan
21      Gout, Ritu Dhand, George Panayotou, Fernanda Ruiz-Larrea, Andrew Thompson, Nicholas F. Totty,
22      J. Justin Hsuan, Sara A. Courtneidge, Peter J. Parker, Michael D. Waterfield, 1992,
23      'Phosphatidylinositol 3-kinase: Structure and expression of the 110 kd catalytic subunit', Cell,
24      vol. 70, no. 3, pp. 419-429",-
25      "identifier": {
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27        "id": "10.1016/0092-8674(92)90166-A"-
28      }
29    },
30    {
31      "unstructured_citation": "Hunter T (1995) When is a lipid kinase not a lipid kinase? When it
32      is a protein kinase. Cell 83: 1-4",-
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34        "type": "doi",-
35        "id": "10.1016/0092-8674(95)90225-2"-
36      }
37    },
38    {
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40      kinase that time forgot. Biochem Soc Trans 32: 330-331",-
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43        "id": "10.1042/BST0320330"-
44      }
45    },
46    {
47      "unstructured_citation": "Guthridge MA, Stomski FC, Barry EF, Minnall M, Woodcock JM, et al.
48
```


<http://dx.doi.org/10.5555-12345678>

(Accept: application/bibjson+json)



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1 {-
2   "title": "Toward a Unified Theory of High-Energy Metaphysics: Silly String Theory",-
3   "author": [-
4     {-
5       "name": "Josiah Carberry",-
6     }-
7   ],-
8   "year": "2008",-
9   "month": "8",-
10  "citation": [-
11    {-
12      "unstructured_citation": "Cantley LC (2002) The phosphoinositide 3-kinase pathway. Science
13      296: 1655-1657.",-
14      "identifier": {-
15        "type": "doi",-
16        "id": "10.1126/science.296.5573.1655",-
17      }-
18    }-
19    {-
20      "unstructured_citation": "Ian D. Hiles, Masayuki Otsu, Stefano Volinia, Michael J. Fry, Ivan
21      Gout, Ritu Dhand, George Panayotou, Fernanda Ruiz-Larrea, Andrew Thompson, Nicholas F. Totty,
22      J. Justin Hsuan, Sara A. Courtneidge, Peter J. Parker, Michael D. Waterfield, 1992,
23      'Phosphatidylinositol 3-kinase: Structure and expression of the 110 kd catalytic subunit', Cell,
24      vol. 78, no. 3, pp. 419-429",-
25      "identifier": {-
26        "type": "doi",-
27        "id": "10.1016/0092-8674(92)90166-A",-
28      }-
29    }-
30    {-
31      "unstructured_citation": "Hunter T (1995) When is a lipid kinase not a lipid kinase? When it
32      is a protein kinase. Cell 83: 1-4.",-
33      "identifier": {-
34        "type": "doi",-
35        "id": "10.1016/0092-8674(95)90225-2",-
36      }-
37    }-
38  ],-
39  {-
40    "unstructured_citation": "Foukas LC, Shepherd PR (2004) Phosphoinositide 3-kinase: the protein
41    kinase that time forgot. Biochem Soc Trans 32: 330-331.",-
42    "identifier": {-
43      "type": "doi",-
44      "id": "10.1042/BST0320330",-
45    }-
46  }-
47  {-
48    "unstructured_citation": "Guthridge MA, Stomski FC, Barry EF, Minnall M, Woodcock JM, et al.
```

<http://dx.doi.org/10.5555-12345678>

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57 <crossmark_policy>10.5555/crossmark_policy</crossmark_policy><CR>-
58 <crossmark_domains><CR>-
59 <crossmark_domain><CR>-
60 <domain>psychoceramics.labs.crossref.org</domain><CR>-
61 </crossmark_domain><CR>-
62 </crossmark_domains><CR>-
63 <crossmark_domain_exclusive>true</crossmark_domain_exclusive><CR>-
64 <custom_metadata><CR>-
65 <assertion name="orcid" label="ORCID" group_name="identifiers"
group_label="Identifiers" order="0"
href="http://orcid.org/0000-0002-1025-0097">http://orcid.org/0000-0002-1025-0097</assertion><CR>-
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group_label="Publication History" order="0">2012-07-24</assertion><CR>-
67 <assertion name="accepted" label="Accepted" group_name="publication_history"
group_label="Publication History" order="1">2012-08-29</assertion><CR>-
68 <assertion name="published" label="Published" group_name="publication_history"
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70 <assertion name="fundgroup"><CR>-
71 <assertion name="funder_name"><CR>-
72 National Science Foundation<CR>-
73 <assertion name="funder_identifier">100000001</assertion><CR>-
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75 <assertion name="funding_identifier">CHE-1152342</assertion><CR>-
76 </assertion><CR>-
77 <assertion name="fundgroup"><CR>-
78 <assertion name="funder_name"><CR>-
79 Basic Energy Sciences, Office of Science, U.S. Department of Energy<CR>-
80 <assertion name="funder_identifier">100006151</assertion><CR>-
81 </assertion><CR>-
82 <assertion name="funding_identifier">DE-SC0001091</assertion><CR>-
83 </assertion><CR>-
84 </program><CR>-
85 </custom_metadata><CR>-
86 </crossmark><CR>-
87 <doi_data><CR>-
88 <doi>10.5555/12345678</doi><CR>-
89 <timestamp>20121025161509</timestamp><CR>-
90 <resource>http://psychoceramics.labs.crossref.org/10.5555-12345678.html</resource><CR>-
91 </doi_data><CR>-grab
92 </journal_article><CR>-
93 </journal><CR>-
94 </crossref><CR>-
95 </doi_record><CR>-
96 </doi_records>
Line: 91:27 | XML | Soft Tabs: 2
```

<http://dx.doi.org/10.5555-12345678>

([Accept: application/unixref+xml](#))



```
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59 v <crossmark_domain><CR>-
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61 A </crossmark_domain><CR>-
62 A </crossmark_domains><CR>-
63 <crossmark_domain_exclusive>true</crossmark_domain_exclusive><CR>-
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group_label="Publication History" order="0">2012-07-24</assertion><CR>-
67 <assertion name="accepted" label="Accepted" group_name="publication_history"
group_label="Publication History" order="1">2012-08-29</assertion><CR>-
68 <assertion name="published" label="Published" group_name="publication_history"
group_label="Publication History" order="2">2012-09-10</assertion><CR>-
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72 National Science Foundation<CR>-
73 <assertion name="funder_identifier">100000001</assertion><CR>-
74 A </assertion><CR>-
75 <assertion name="funding_identifier">CHE-1152342</assertion><CR>-
76 A </assertion><CR>-
77 v <assertion name="fundgroup"><CR>-
78 v <assertion name="funder_name"><CR>-
79 Basic Energy Sciences, Office of Science, U.S. Department of Energy<CR>-
80 <assertion name="funder_identifier">100006151</assertion><CR>-
81 A </assertion><CR>-
82 <assertion name="funding_identifier">DE-SC0001091</assertion><CR>-
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84 A </program><CR>-
85 A </custom_metadata><CR>-
86 A </crossmark><CR>-
87 v <doi_data><CR>-
88 <doi>10.5555/12345678</doi><CR>-
89 <timestamp>20121025161509</timestamp><CR>-
90 <resource>http://psychoceramics.labs.crossref.org/10.5555-12345678.html</resource><CR>-
91 </doi_data><CR>grab
92 A </journal_article><CR>-
93 A </journal><CR>-
94 A </crossref><CR>-
95 A </doi_record><CR>-
96 A </doi_records>
Line: 91:27 | XML | Soft Tabs: 2
```

<http://dx.doi.org/10.5555-12345678>

(Accept: application/unixref+xml)

```
<contributors><CR>↵
  <person_name sequence="first" contributor_role="author"><CR>↵
    <given_name>Josiah</given_name><CR>↵
    <surname>Carberry</surname><CR>↵
    <ORCID authenticated="true">https://orcid.org/0000-0002-1825-0097</ORCID><CR>↵
  </person_name><CR>↵
</contributors><CR>↵
```

```
68      <assertion name="published" label="Published" group_name="publication_history"
69      group_label="Publication History" order="2">2012-09-10</assertion><CR>↵
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71      <assertion name="fundgroup"><CR>↵
72      <assertion name="funder_name"><CR>↵
73      National Science Foundation<CR>↵
74      <assertion name="funder_identifier">100000001</assertion><CR>↵
75      </assertion><CR>↵
76      <assertion name="funding_identifier">CHE-1152342</assertion><CR>↵
77      </assertion><CR>↵
78      <assertion name="fundgroup"><CR>↵
79      <assertion name="funder_name"><CR>↵
80      Basic Energy Sciences, Office of Science, U.S. Department of Energy<CR>↵
81      <assertion name="funder_identifier">100006151</assertion><CR>↵
82      </assertion><CR>↵
83      <assertion name="funding_identifier">DE-SC0001091</assertion><CR>↵
84      </assertion><CR>↵
85      </program><CR>↵
86      </custom_metadata><CR>↵
87      </crossmark><CR>↵
88      <doi_data><CR>↵
89      <doi>10.5555/12345678</doi><CR>↵
90      <timestamp>20121025161509</timestamp><CR>↵
91      <resource>http://psychoceramics.labs.crossref.org/10.5555-12345678.html</resource><CR>↵
92      </doi_data><CR>↵
93      </journal_article><CR>↵
94      </journal><CR>↵
95      </crossref><CR>↵
96      </doi_record><CR>↵
</doi_records>
```

Line: 91:27 | XML | Soft Tabs: 2

<http://dx.doi.org/10.5555-12345678>

(Accept: application/unixref+xml)

```
<contributors><CR>↵
  <person_name sequence="first" contributor_role="author"><CR>↵
    <given_name>Josiah</given_name><CR>↵
    <surname>Carberry</surname><CR>↵
  </person_name><CR>↵
  <program name="fundref"><CR>↵
    <assertion name="fundgroup"><CR>↵
      <assertion name="funder_name"><CR>↵
        National Science Foundation<CR>↵
        <assertion name="funder_identifier">100000001</assertion><CR>↵
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      <assertion name="funding_identifier">CHE-1152342</assertion><CR>↵
    </assertion><CR>↵
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        Basic Energy Sciences, Office of Science, U.S. Department of Energy<CR>↵
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    </assertion><CR>↵
  </program><CR>↵
</contributors></CR>↵
```

<http://dx.doi.org/10.5555-12345678>

([Accept: application/unixref+xml](#))

```
<contributors><CR>
  <person_name sequence="first" contributor_role="author"><CR>
    <given_name>Josiah</given_name><CR>
    <surname>Carberry</surname><CR>
  </person_name><CR>
  <program name="fundref"><CR>
    <assertion name="fundgroup"><CR>
    <assertion name="funder_name"><CR>
```

```
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  <doi>10.5555/12345678</doi>
  <timestamp>20130220090010</timestamp>
  <collection property="crawler-based" setbyID="creftest">
    <item crawler="prospect" imetype="application/pdf">
      <resource>http://psychoceramics.labs.crossref.org/site/example1/article\_a.pdf</resource>
    </item>
    <item crawler="prospect" imetype="text/xml">
      <resource>http://annalsofpsychoceramics.labs.crossref.org/fulltext/515151/515151.xml</resource>
    </item>
  </collection>
</doi_data>
```

Summary

DOI Content Negotiation can serve as a cross-publisher API for accessing full text for TDM purposes.

To make use of this, publishers merely need to register URIs to full-text in their CrossRef metadata.

But how do researchers determine whether the full-text is available for TDM?

<lic_ref>

NISO Launches New Initiati x

www.niso.org/news/pr/view?item_key=d2e5f409bc6af6b7f504a10edf0329203ffec6f9

NISO
How the information world
CONNECTS

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Standards Topics Publications **News & Events** International Participate Workrooms About NISO

Press Releases Media Coverage Events

Home | News & Events | Press Release Search and Archive | View a Press Release

For release: 07 Feb 2013

NISO Launches New Initiative to Develop Standard for Open Access Metadata and Indicators

Interested participants from all library types, publishers, and funding agencies are encouraged to contact NISO

February 7, 2013 - Baltimore, MD - The National Information Standards Organization (NISO) voting members have approved a new project to develop standardized bibliographic metadata and visual indicators to describe the accessibility of journal articles as well as potentially describe how "open" the item is. Many offerings are available from publishers under the banner of Open Access (OA), Increased Access, Public Access, or other descriptions; the terms offered vary between publishers and, in some cases, based on the funding organization of the author. Adding to the potential confusion, a number of publishers also offer hybrid options in which some articles are "open" while the rest of the journal's content are available only by subscription or license. No standardized bibliographic metadata currently provides information on whether a specific article is freely readable and what re-use rights might be available to readers. Visual indicators or icons indicating the openness of an article are inconsistent in both design and use across publishers or even across journals from the same publisher.

"The NISO OA metadata and indicator project would complement other related efforts currently underway," states Nettie Lagace, NISO's Associate Director for Programs. "Such projects include CrossMark, CrossRef's update identification service; How Open Is It?, a guide developed by PLoS, SPARC, and OASPA; Vocabularies for OA (V40A), a JISC/UKOLN project; ONIX-PL, a specification for communicating licensing terms developed by EDItEUR; the Linked Content Coalition; and NISO's Open Discovery Initiative. Coordination and communication with these projects will be an important aspect of the NISO working group's efforts."

"The benefits of having standardized OA metadata and indicators should have a positive impact on many participants in the scholarly communications chain," explains Todd Carpenter, NISO's Executive Director. "Funders who have implemented OA mandates would have a mechanism to determine if a specific article or researcher is compliant with their policies. Publishers of hybrid journals would benefit by having a simple mechanism for signaling the OA status of the articles published under that model. Authors could more easily determine whether their selected

Interim Solution

<lic_ref>

[http://creativecommons.org/
licenses/by/3.0](http://creativecommons.org/licenses/by/3.0)

</lic_ref>

<lic_ref>



<http://creativecommons.org/licenses/by/3.0>



<http://creativecommons.org/licenses/by-nc/3.0>

<http://www.birjournals.org/site/policy/licence.xhtml>

Source: <http://creativecommons.org/licenses/>

<lic_ref>

Publisher copyright policies & self-archiving

[English](#) | [Espa](#)

Search

Journal titles or ISSNs Publisher names

Exact title starts with contains ISSN

[Advanced Search](#)

Use this site to find a summary of permissions that are normally given as part of each publisher's copyright transfer agreement.

RoMEO News

[BI](#)

- [RoMEO API - Manual, REST Requests, and Wish List](#) - 08-Oct-2012
- [Hungarian Version of RoMEO Released](#) - 22-May-2012
- [Útnak indul a RoMEO magyar változata](#) - 22-May-2012

Special RoMEO Pages

- [Publishers Allowing use of their PDFs in Repositories](#)
- [RoMEO Statistics](#)
- [Application Programmers' Interface \(API\)](#)

Source: <http://creativecommons.org/licenses/>

Interim Solution

(possible extension - embargoes)

<lic_ref startdate="2013-08-1">

http://psychoceramics/proprietary_license.html

</lic_ref>

<lic_ref startdate="2013-09-1">

<http://creativecommons.org/licenses/by/3.0>

</lic_ref>

Summary

NISO working on fuller specification

Interim solution is to at least record URIs to well-known licenses using `<lic_ref>` element.

Possible to extend `<lic_ref>` to handle embargos, if needed.

But what if publishers want to use unusual licenses?

Prospect License Registry



Publisher registers licenses with Prospect



Researcher reviews, accepts/declines licenses



Prospect grants researcher an API Token





CrossRef's Prospect service allows researchers to use a standard API to retrieve the full text of documents for the purposes of text and data mining (TDM).

[Find out more and \(optionally\) register with Prospect today](#)

Prospect for Researchers

Instructions for researchers on how to access the Prospect API and retrieve the full text for scholarly documents identified with CrossRef DOIs.

[Find Out More](#)

Prospect for Publishers

Instructions for publishers who want to make their content available via the Prospect API.

[Find Out More](#)



https://prospect.crossref.c x

10:21



https://prospect.crossref.org/prospectors/login




There is no need to setup a Prospect account. You can just login with your existing ORCID



Sign in with ORCID

Browser window showing an ORCID authorization page. The address bar displays <https://prospect.crossref.org/prospectors/login>. The ORCID window title is "ORCID" and the address bar shows https://orcid.org/oauth/authorize?response_type=code&client_id=000...



Connecting Research
and Researchers

CONNECTING CrossRef Prospect WITH YOUR ORCID RECORD

CrossRef Prospect

has asked for the following access to your ORCID Record

Read limited info from your biography

This application will not be able to see your ORCID password, or other private info in your ORCID Record

[Deny](#) [Authorize](#)

[iDea for ORCID site?](#)



id Josiah Carberry

Given Names

Josiah

Family Name

Carberry

Email

gbilder@breakawayrepublic.com

API Token

_Vm1TkAA3DyKzJ_X8fPz4A

License	Status	Review Date
CrossRef Generally Nice License	unread	
Way Too Complex License	unread	
Annals of PyschoCeramics B Prohibition Of TDM	unread	

Browser window showing the URL <https://prospect.crossref.org/prospector/0000-0002-1825-0097>. The page displays a user profile for Josiah Carberry and a modal window titled "Review License".

The modal window "Review License" contains the following information:

- Overview | License Text
- License Name: CrossRef Generally Nice License
- License URI: http://www.crossref.org/tdm_license
- Description: This is a relatively benign license which is supported by 1500 CrossRef publishers.

At the bottom of the modal window, there are three buttons: **Reject**, **Accept**, and **Decide Later**.

The background page shows a user profile for Josiah Carberry with the following details:

- Given Names: Josiah
- Family Name: Carberry
- Email: gbilder@breakawayrepublic.com
- API Token: `_Vm1TkAA3DyKzJ_X8fPa`

The page also displays a table of licenses for review:

License	Review Date
CrossRef Generally Nice License	
Way Too Complex License	unread
Annals of PyschoCeramics B Prohibition Of TDM	unread

Copyright 2013, CrossRef.



Given Names
Josiah

Family Name
Carberry

Email
gbilder@breakawayrepublic.com

API Token
_Vm1TkAA3DyKzJ_X8fPa...

Review License

Overview | License Text

Transfer of a complete and conditions for use of dealing. (c) Counsel. (c) Counsel. The agency or indirectly harmful to copyright, trade shows and description of the Board or retailers for issuance under any duty assignment for purposes of mutilated, Destroyed, Lost or governmental agencies and deliver a national securities and acknowledges that within thirty (30) days following MUTUAL COVENANTS AND allowances from time to benefit obligations under the transfer, deliver any interest shall have the Committee. (b) Any of a loan and authority to hold such Holder thereof, exercised by such commissions shall not be imposed in a longterm disability for such Warrant certificates and shall become payable to be

Reject | Accept | Decide Later

License	Review Date
CrossRef Generally Nice	
Way Too Complex License	unread
Annals of PyschoCeramics B Prohibition Of TDM	unread



Josiah Carberry

Given Names

Josiah

Family Name

Carberry

Email

gbilder@breakawayrepublic.com

API Token

_Vm1TkAA3DyKzJ_X8fPz4A

License	Status	Review Date
CrossRef Generally Nice License	accepted	2013-5-18
Way Too Complex License	unread	
Annals of PyschoCeramics B Prohibition Of TDM	unread	



id Josiah Carberry

Given Names

Josiah

Family Name

Carberry

Email

gbilder@breakawayrepublic.com

API Token

_Vm1TkAA3DyKzJ_X8fPz4A

License	Status	Review Date
CrossRef Generally Nice License	accepted	2013-5-18
Way Too Complex License	unread	
Annals of PyschoCeramics B Prohibition Of TDM	unread	



id Josiah Carberry

Given Names

Josiah

Family Name

Carberry

Email

qbilder@breakawayrepublic.com

API Token

_Vm1TkAA3DyKzJ_X8fPz4A

License	Status	Review Date
CrossRef Generally Nice License	accepted	2013-5-18
Way Too Complex License	unread	
Annals of PyschoCeramics B Prohibition Of TDM	unread	



Research queries DOI using CN + API token



Publisher verifies API token with Prospect

(frequency at publisher discretion)



If token verified AND access control allows,
publisher returns fulltext



Prospect will define standard HTTP headers that allow publishers to optionally communicate rate-limiting to the researcher.

Prospect HTTP Headers

`CR-Prospect-Client-Token: 88918a40-7945-11e2-b92a-0800200c9a66`
(the Prospect API token)

`CR-Prospect-Rate-Limit: 1500`
(the rate limit ceiling per window on Prospect requests)

`CR-Prospect-Rate-Limit-Remaining: 1387`
(number of requests left for the current window)

`CR-Prospect-Rate-Limit-Reset: 1378072800`
(the remaining time in UTC epoch seconds before the rate limit resets and a new window is started)

*this is a technique used by many APIs, including Twitter's

Prospect will provide publishers with a simple API that allows them to:

- Check which licenses have been “accepted” by the entity using the specified `CR-Prospect-Client-Token`
- Revoke tokens that are detected to be abusing their systems.

Prospect API for Publishers

[http://prospect.crossref.org/signed/\[:xq-token \]](http://prospect.crossref.org/signed/[:xq-token])

Returns JSON list of license DOIs that :xq-token has signed

```
{
  "version": 1,
  "response_date": "2013-04-03 12:53:39 +0200",
  "cr_prospect_client_token": "88918a40-7945-11e2-b92a-0800200c9a66",
  "orcid": "http://orcid.org/0000-0002-1825-0097",
  "licenses": [
    {
      "license": "10.5555/24583468757",
      "status": "accepted",
      "date_accepted": "2013-09-01 00:00:00 +0200"
    },
    {
      "license": "10.1016/els-open-license-v1",
      "status": "accepted",
      "date_accepted": "2013-09-01 00:00:00 +0200"
    },
    {
      "license": "10.1111/tdm-addendum",
      "status": "accepted",
      "date_accepted": "2013-09-01 00:00:00 +0200"
    }
  ]
}
```

Current State

CrossRef

- DOI Content Negotiation
- CrossRef support for recording links to fulltext
- CrossRef metadata support for ORCID
- CrossRef metadata support for FundRef
- CrossRef metadata Search for Discovery
- CrossRef metadata support for license URIs
- Click-through TDM license registry
- Prospect publisher API for verifying, managing tokens

Exists

Exists

Exists

Exists

Exists

Exists

In Progress

In Progress



* being extended to support mime-types

Publishers

- Register full-text URLs with CrossRef
- Register `<lic_ref>` well-known license URIs with CrossRef
- Register click-through proprietary licenses with Prospect
- Adapt platform APIs to handle Prospect API tokens



Researchers

- Register with Prospect and accept/decline licenses
- Modify TDM tools to look for `<lic_ref>` elements
- Modify TDM tools to make use of Prospect API token



Questions?