

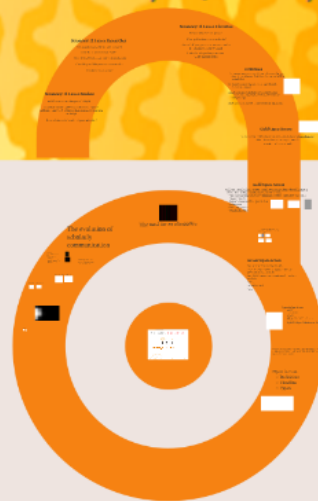
Open Access and its Impact on Research and Scholarship

29th May 2015

Dolmen Resort Hotel, Qawra, St. Paul's Bay



UNIVERSITY OF MALTA
L-Università ta' Malta



Presentation available on: <http://prezi.com/qxb666-w6hlt>



AN OVERVIEW OF OPEN ACCESS AND OPEN SCIENCE

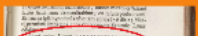
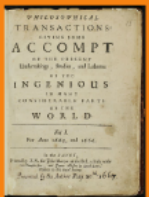
29 May 2015

Dr Milena Dobрева

Library Information and Archive
Sciences Department,
University of Malta



The evolution of scholarly communication



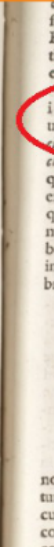
Once upon a time...

1665 Philosophical Transactions of the Royal Society

Dissemination and protection

Christiaan Huygens

- De Saturni luna observatio nova [New observation of a moon of Saturn] (The Hague, 1656)
- Systema Saturnium... (1659)



PHILOSOPHICAL
TRANSACTIONS: 18
GIVING SOME
ACCOMPT
OF THE PRESENT
Undertakings, Studies, and Labours
OF THE
INGENIOUS
IN MANY
CONSIDERABLE PARTS
OF THE
WORLD.

Vol I.

For *Anno* 1665, and 1666.

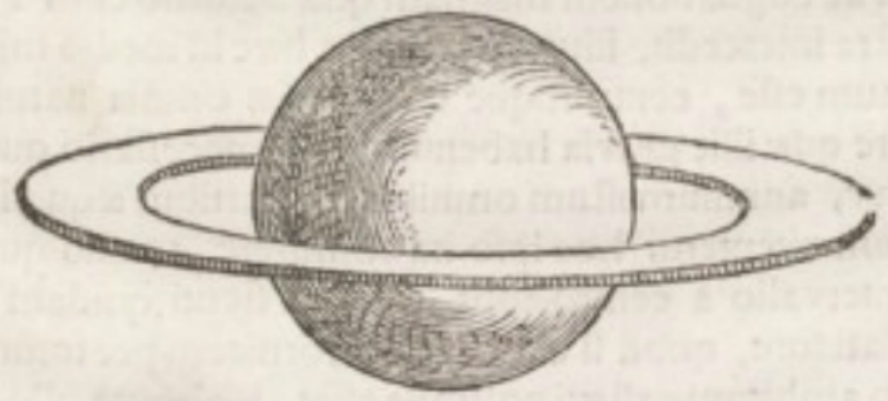
In the SAVOY,
Printed by T. N. for *John Martyn* at the Bell, a little with-
out *Temple-Bar*, and *James Allestry* in *Duck-Lane*,
Printers to the *Royal Society*.

Presented by the Author May. 30th 1667.

ea quam dixi annu inclinatione, omnes mirabiles Saturni
 facies sicut mox demonstrabitur, eo referri posse inveni.
 Et hæc ea ipsa hypothesis est quam anno 1656 die 25 Mar-
 tij permixtis literis una cum observatione Saturniæ Lunæ
 edidimus.

Erant enim Literæ a a a a a a c c c c c d e e e e e g i
 i i i i i l l l l m m n n n n n n n n o o o o p p q r r s t t t t
 u u u u u; quæ suis locis repositæ hoc significant, *Annulo*
cingitur, tenui, plano, nusquam coherente, ad eclipticam in-
clinato. Latitudinem vero spatij inter annulum globum-

que Saturni interjecti, æquate ipsius annuli latitudinem vel
 excedere etiam, figura Saturni ab aliis observata, certius-
 que deinde quæ mihi ipsi conspecta fuit, edocuit: maxi-
 mamque item annuli diametrum eam circiter rationem ha-
 bere ad diametrum Saturni quæ est 9 ad 4. Ut vera pro-
 inde forma sit ejusmodi qualem apposito schemate adum-
 bravimus.



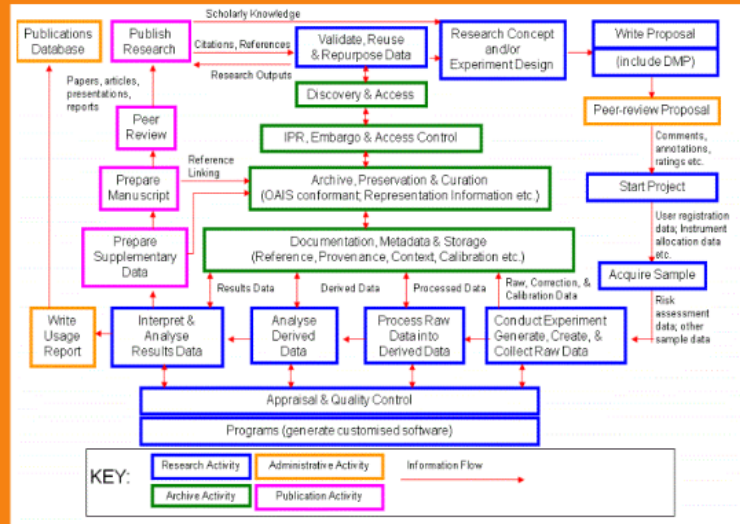
Cæterum obiter hic iis respondendum censeo, quibus
 novum nimis ac fortasse absolum videbitur, quod non tan-
 tum alicui cælestium corporum figuram ejusmodi tribuam,
 cui similis in nullo hætenus eorum deprehensa est, cum
 contra pro certo creditum fuerit, ac veluti naturali ratione

*Occurri-
 turis quæ
 de annulo
 objici pos-
 sent.*

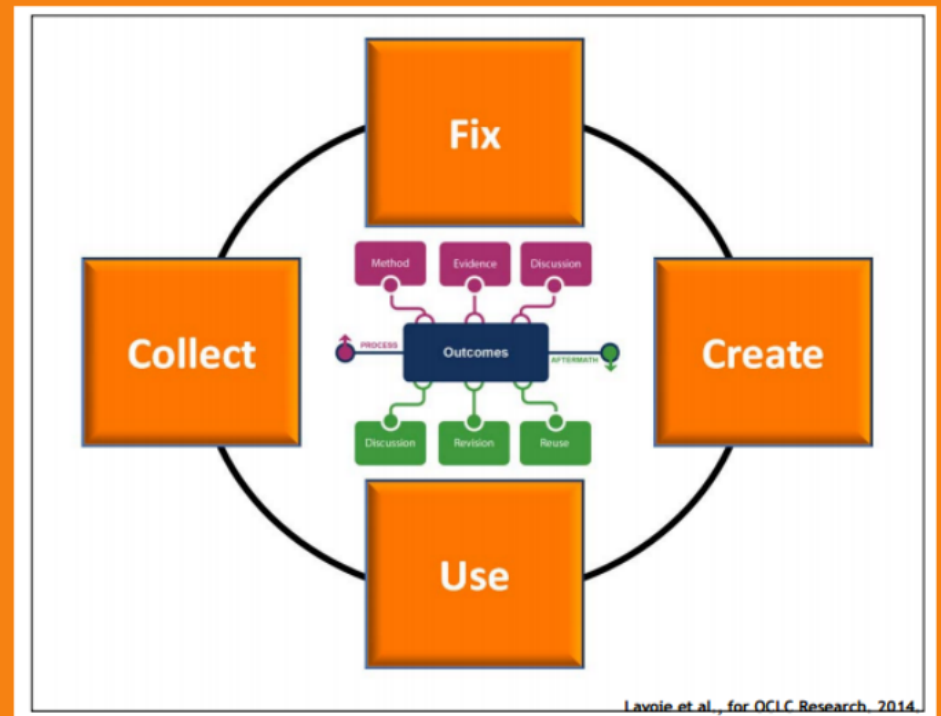
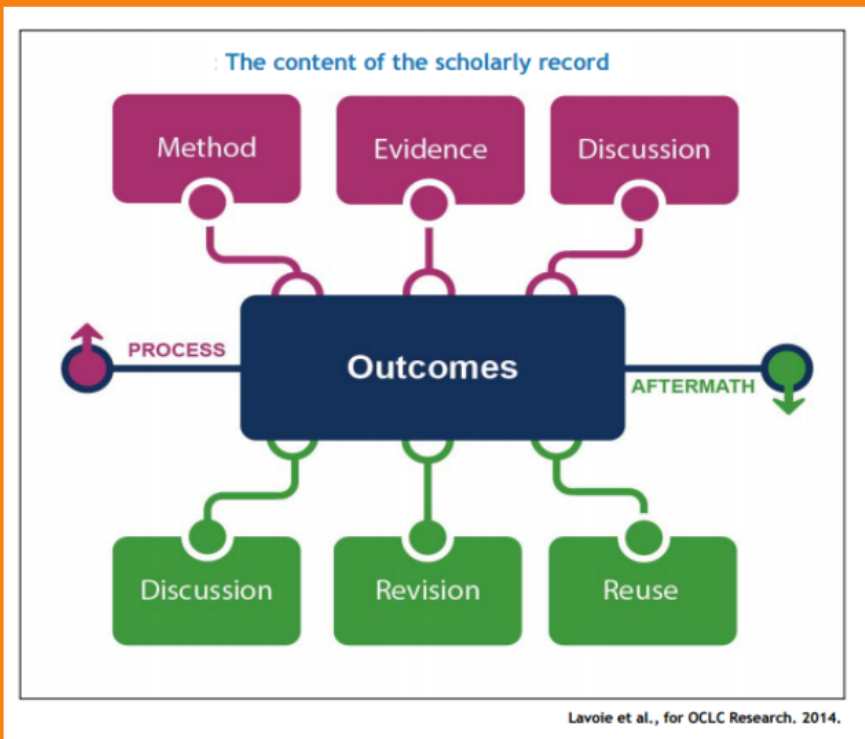
a a a a a a c c c c c d e e e e e h i i i i i i l l l l m m n n
n n n n n n n o o o o p p q r r s t t t t t u u u u u.

Annulo cingitur, tenui, plano, nusquam cohaerente, ad
eclipticam inclinato [*It is surrounded by a thin flat ring,
nowhere touching, and inclined to the ecliptic*].

Research lifecycle and the place of publishing



Evolution of the understanding on scholarly record

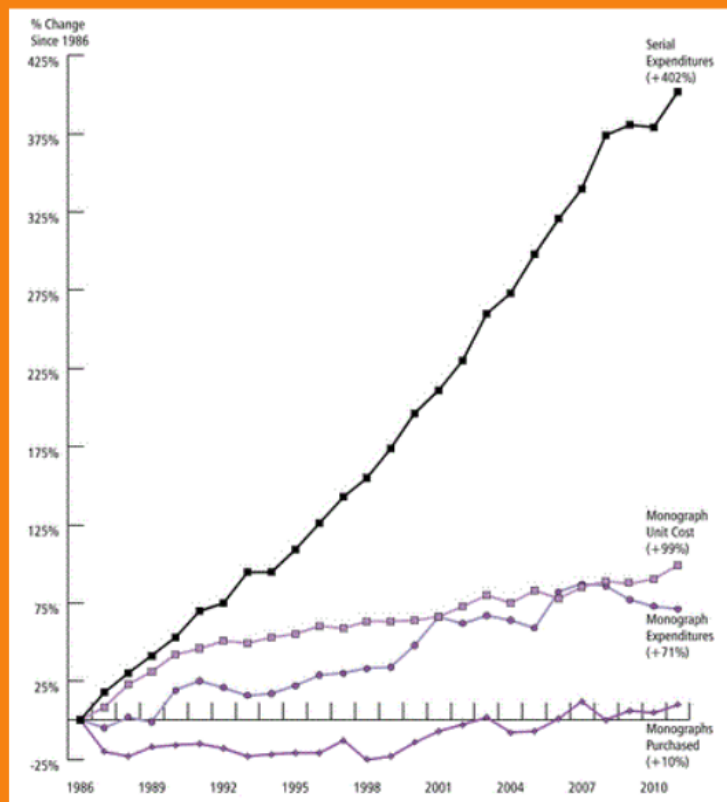


Current Funding Cycle for Research Articles

Limited dissemination, economic efficiency and social impact



Traditional publishing model not convenient for scholars, students, and the general public and puts libraries under huge financial strain...



Discipline	2012 Average Price	% Change 11-12	% Change 10-11	% Change 09-10
Agriculture	\$244.80	-9.0%	-12.7%	7.7%
Biology	\$476.09	1.0%	11.0%	-7.2%
Botany	\$233.50	2.8%	2.4%	-1.7%
Business & Economics	\$222.16	4.8%	12.8%	-4.6%
Chemistry	\$2,219.00	4.0%	5.7%	-0.1%
Education	\$119.43	2.6%	0.2%	-9.5%
Engineering	\$1,955.00	9.8%	16.7%	1.5%
Food Science	\$523.50	2.1%	1.7%	-48.4%
General Science	\$284.56	3.1%	5.1%	-25.8%
Geography	\$219.00	5.3%	11.2%	46.1%
Geology	\$1,030.28	4.2%	-0.6%	-5.6%
Health Sciences	\$796.16	5.0%	6.7%	4.4%
History	\$46.00	0.0%	7.0%	0.0%
Language & Literature	\$313.00	6.1%	25.5%	-6.0%
Math & Computer	\$1,231.97	5.6%	16.5%	16.8%
Music	\$200.00	11.1%	0.0%	9.1%
Philosophy & Religion	\$75.00	0.0%	0.0%	0.0%
Physics	\$350.00	15.3%	16.5%	-5.6%
Political Science	\$260.00	4.8%	5.1%	4.9%
Psychology	\$1,025.00	2.3%	13.1%	10.1%
Sociology	\$159.50	4.8%	3.2%	3.7%
Technology	\$1,615.21	10.5%	4.7%	6.4%
Zoology	\$343.69	3.8%	-2.7%	-5.2%



The need for an alternative

Open Access

- Definition
- Timeline
- Types

1991	2000	2001	2002	2003	2006	2007	2008
arXiv.org Repository Launched	PubMed Central Repository Launched	OJS (Open Journal Systems) Software Released	Creative Commons Licenses Released	OpenDOAR (Directory of Open Access Repositories) Launched	DOAJ (Directory of Open Access Journals) Launched	Celebration of Open Access Week Started	OA Scholarly Publishers Association (OASPA) Launched
	EPrints software Released	SPARC Launched	Budapest OA Initiative (Declaration)	WISIS Action Lines Launched	OpenDOAR (Directory of Open Access Repositories) Launched		
	PLOS Journals Launched	DSpace software Released	Berlin, Bethesda Declarations	OAlster Database Launched			
	BioMed Central Journals Launched						



"Open Access is the free, immediate, online availability of research articles, coupled with the rights to use these articles fully in the digital environment." (ARL)

Open Access

1991	arXiv.org Repository Launched
2000	PubMed Central Repository Launched
	EPrints software Released
	PLOS journals Launched
	BioMed Central journals Launched
2001	OJS (Open Journal Systems) Software Released
	SPARC Launched
	DSpace software Released
2002	Creative Commons Licenses Released
	Budapest OA Initiative (Declaration)
	OAlster Database Launched
2003	Berlin, Bethesda Declarations
	WSIS Action Lines Launched
	DOAJ (Directory of Open Access Journals) Launched
2006	OpenDOAR (Directory of Open Repositories) Launched
2007	Celebration of Open Access Week Started
2008	OA Scholarly Publishers Association (OASPA) Launched

Types of Open Access

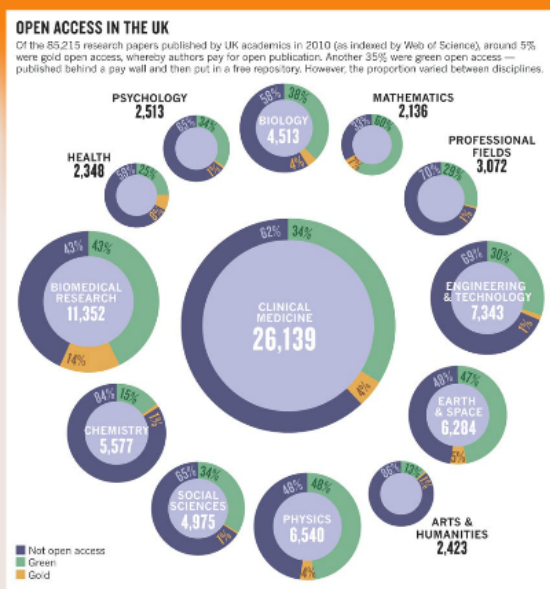
Gold

Open Access Journals

Green

Institutional and Subject repositories: are you familiar with OAR?

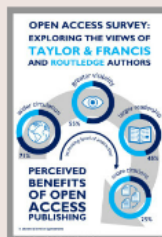
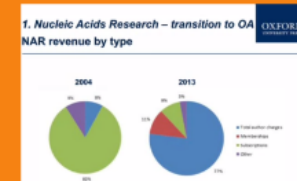
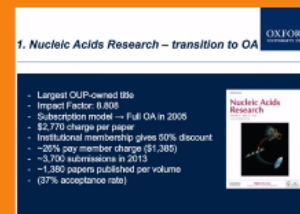
Hybrid, Delayed, Short-term, Partial



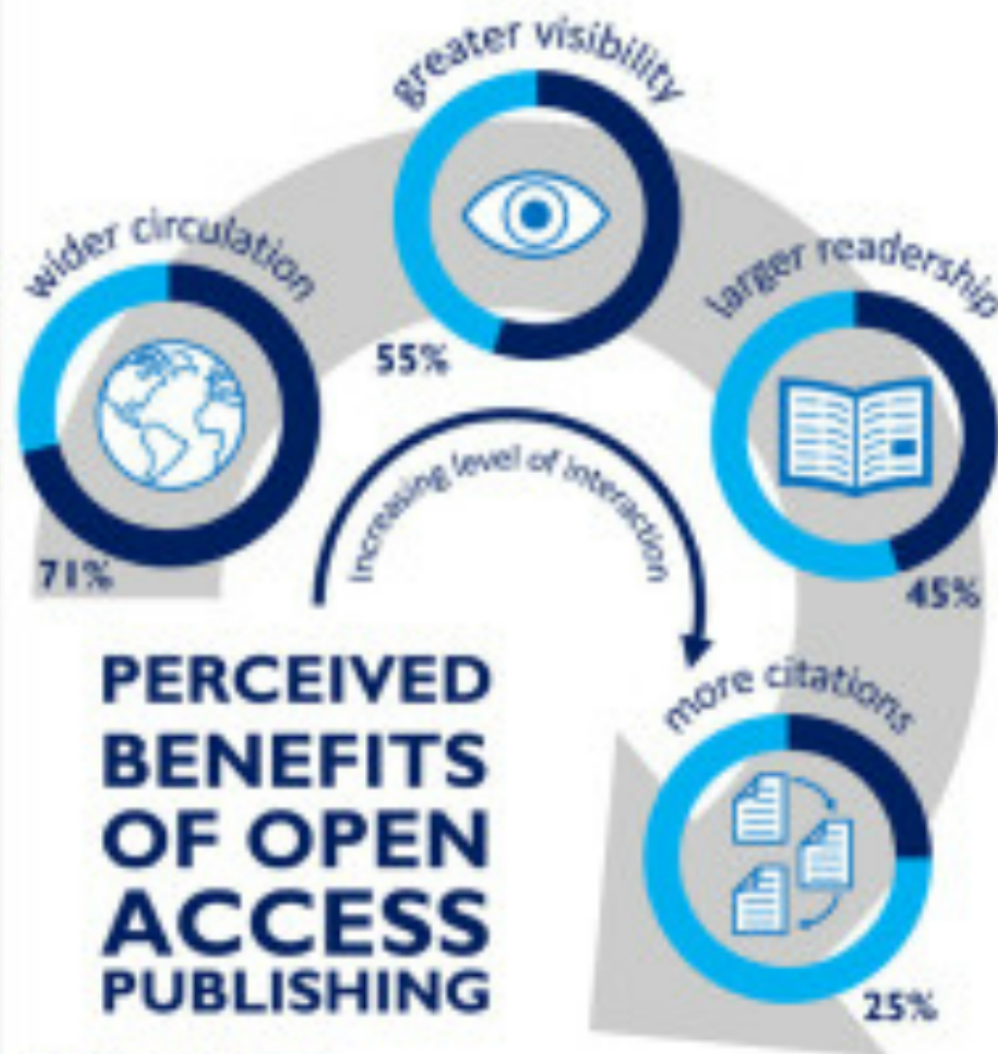
Gold Open Access

Gold OA journals charge an APC (Article Processing Charge) for publication or receive their funding through a variety of other means...

- National, learning society or institutional subsidies - university, hospital, or research centre
- Revenue from traditional publication
- Advertising
- Auxiliary services
- Membership dues



OPEN ACCESS SURVEY: EXPLORING THE VIEWS OF **TAYLOR & FRANCIS** AND **ROUTLEDGE** AUTHORS



**PERCEIVED
BENEFITS
OF OPEN
ACCESS
PUBLISHING**

% shows a level of agreement

Gold Open Access

Directory of Open Access Journals (DOAJ) - 10,586 Journals, <https://doaj.org/>
Public Library of Science (PLOS) - 7 Journals
BioMed Central - 279 Journals



– Journals vs Articles

Journals x

+ Subject

+ Article processing charges (APCs)

+ Journal license

+ Publisher

+ Country of publisher

+ Full Text language

+ Peer review

+ Date added to DOAJ

Journals vs Articles: Journals x

1 – 6 of 6



ELSA Malta Law Review

ISSN: 2225-210X (Print)

<http://elsamaltalawreview.com/>

Subject: Law: Law in general. Comparative and uniform law. Jurisprudence

Date added to DOAJ: 4 Sept 2012



Postcolonial Directions in Education

ISSN: 2304-5388 (Print)

<http://www.um.edu.mt/pde/index.php/pde1>

Subject: General Works

Date added to DOAJ: 29 May 2013



Malta Journal of Health Sciences

ISSN: 2312-5705 (Online)

<http://www.um.edu.mt/healthsciences/mjhs>

Double blind peer review

Subject: Medicine: Medicine (General)

Date added to DOAJ: 27 Jun 2014



International Journal of Emotional Education

ISSN: 2073-7629 (Print)

<http://www.um.edu.mt/edres/ijee>

Subject: Education: Education (General)

Date added to DOAJ: 19 May 2013



Mediterranean Journal of Educational Studies

ISSN: 1024-5375 (Print)

<http://www.um.edu.mt/emcer/mjes>

Subject: Education: Education (General)

Date added to DOAJ: 15 Apr 2009



Malta Medical Journal

ISSN: 1813-3339 (Print)

<http://www.mmj-web.org/>

Subject: Medicine: Medicine (General)

Date added to DOAJ: 30 Oct 2006

Green Open Access

One in Malta (OAR, Library of UoM)

Registry of Open Access Repositories (ROAR) -
2695 repositories worldwide

OpenDOAR - repository of institutional repositories
worldwide

ArXiv

PubMed Central

E-LIS

First steps of Green Open Access in Malta

Open Access Repository at the Library of the University launched in 2014

Extensive training opportunities offered

The screenshot shows the 'Statistics' section of the repository. It lists various documents with their respective view counts:

Document Title	Views
Primary hyperparathyroidism in pregnancy - case report and review	439
Purpura/ Streptococcus pneumoniae endocarditis - a case report and literature review	436
The reconstructing bladder: an unusual cause of haematuria	434
Medico-Legal Litigation - the clinical contractual nature of the Obstetric Anaesthetist/Parturient relationship	423
Gabriela Killa - 184en title	322
Creating inclusive schools - guidelines for the implementation of the National Curriculum policy on inclusive education	302
Talk in Malta's 18th century	197
BOOKMARK - Issue 3	189
Adult learning theories and medical education - a review	175
The needs of Maltese families with dependent children - a focus group study among professionals	157

This screenshot shows the 'Statistics' page with a focus on monthly visits and file-specific views.

Total Visits Per Month

Primary hyperparathyroidism in pregnancy : case report and review	November 2014	December 2014	January 2015	February 2015	March 2015	April 2015	May 2015
	0	0	5	10	129	292	5

File Visits

2010 Vol22 Issue1 A6.pdf	Views
	10

This screenshot shows the repository interface with a search bar and the 'Statistics' section. The search bar contains the text 'Primary hyperparathyroidism in pregnancy - case report and review'.

This screenshot shows a Google Scholar search result for the document 'Digital Programme Review - State of the Art Analysis'. The search results show the document title, author 'Dr. Andrew Gatt', and the number of citations '200'. The snippet of the document text is also visible.



Statistics

Total Visits

	Views
Primary hyperparathyroidism in pregnancy : case report and review	439
Puerperal Streptococcus pneumoniae endometritis : a case report and literature review	436
The menstruating bladder, an unusual cause of haematuria	434
Medico-Legal Litigation : the clinical contractual nature of the Obstetric Anaesthetist-Patient relationship	423
Gabra ta' Kitba : it-tieni ktieb	322
Creating inclusive schools : guidelines for the implementation of the National Curriculum policy on inclusive education	202
Taħt in-Nar u l-ġeneru tad-djarju	197
BOOKMark : Issue 3	189
Adult learning theories and medical education : a review	175
The needs of Maltese families with dependent children : a focus group study among professionals	157

Search OAR@UoM

[Advanced Search](#)

Administrative

- [Access Control](#)
- [People](#)
- [Groups](#)
- [Authorizations](#)
- [Registries](#)
- [Metadata](#)
- [Format](#)
- [Items](#)
- [Withdrawn Items](#)
- [Private Items](#)
- [Control Panel](#)
- [Statistics](#)
- [Import Metadata](#)
- [Curation Tasks](#)

Statistics

[View Usage Statistics](#)

Statistics

Total Visits

	Views
Primary hyperparathyroidism in pregnancy : case report and review	439

Total Visits Per Month

	November 2014	December 2014	January 2015	February 2015	March 2015	April 2015	May 2015
Primary hyperparathyroidism in pregnancy : case report and review	0	0	5	10	129	290	5

File Visits

	Views
2010.Vol22.Issue4.A6.pdf	10

Top country views

Views

Top cities views

Views



Statistics

Total Visits

	Views
Digital Preservation Services : State of the Art Analysis	124

Total Visits Per Month

	November 2014	December 2014	January 2015	February 2015	March 2015	April 2015	May 2015
Digital Preservation Services : State of the Art Analysis	8	10	13	19	7	13	27

File Visits

	Views
dobeva_Preservation_Services_study.pdf	422

Top country views

[Views](#)

Top cities views

[Views](#)

Search OAR@UoM

- Search OAR@UoM
- This Collection

[Advanced Search](#)

Administrative

- Access Control
 - [People](#)
 - [Groups](#)
 - [Authorizations](#)
- Registries
 - [Metadata](#)
 - [Format](#)
- Items
 - [Withdrawn Items](#)
 - [Private Items](#)
 - [Control Panel](#)
 - [Statistics](#)
 - [Import Metadata](#)
 - [Curation Tasks](#)

Context

- [Edit this item](#)
- [Export Item](#)
- [Export Metadata](#)

Statistics

[View Usage Statistics](#)



Digital Preservation Services : State of the Art Analysis



Scholar

My Citations

Articles

Case law

My library

Any time

Since 2015

Since 2014

Since 2011

Custom range...

Sort by relevance

Sort by date

include patents

include citations

Digital Preservation Services: State of the Art Analysis

R Ruusalepp, M Dobrevá - 2012 - um.edu.mt

An overview of the state of the art in service provision for digital preservation and curation. Its focus is on the areas where bridging the gaps is needed between e-Infrastructures and efficient and forward-looking digital preservation services. Based on a desktop study and ...

Cited by 4 Related articles Cite Save

[PDF] from um.edu.mt

Showing the best result for this search. See all results

[About Google Scholar](#) [Privacy](#) [Terms](#) [Provide feedback](#)

Criticisms

The peer reviewing process in OA journals is not exhaustive
Open Access Scholarly Publishers Association (OASPA)
accreditation

Article processing charge (APC) is a major obstacle
Institutional support

Impact of research published in OA journals is lower
... but it is building up (<http://library.tue.nl/catalog/OAImpact.csp>)

Duplication of entries in different institutional repositories



Summary: if I am a Librarian

Fewer embargoes for patrons

More publications + research data!

Accessibility to green open access is easier
to integrate in discovery tools

Institutional repository can serve
wider societal needs

Criti

The peer reviewing proces

Summary: if I am a Researcher

OA mandatory for EC-funded research!

Contribute to Green OA: OAR

Find the Gold OA opportunities in my domain

Consider providing access to research data

Explore citizen science

Summary: if I am a Student

OAR searches are integrated in HyDi

Consultation with gold OA publications requires additional search - find out the best sources in your area of study!

Research impact of students grows with OA!



Facilitate Open Science Training for European Research



University of Malta
L-Università ta' Malta

