Communication in the Multiverse of a Library
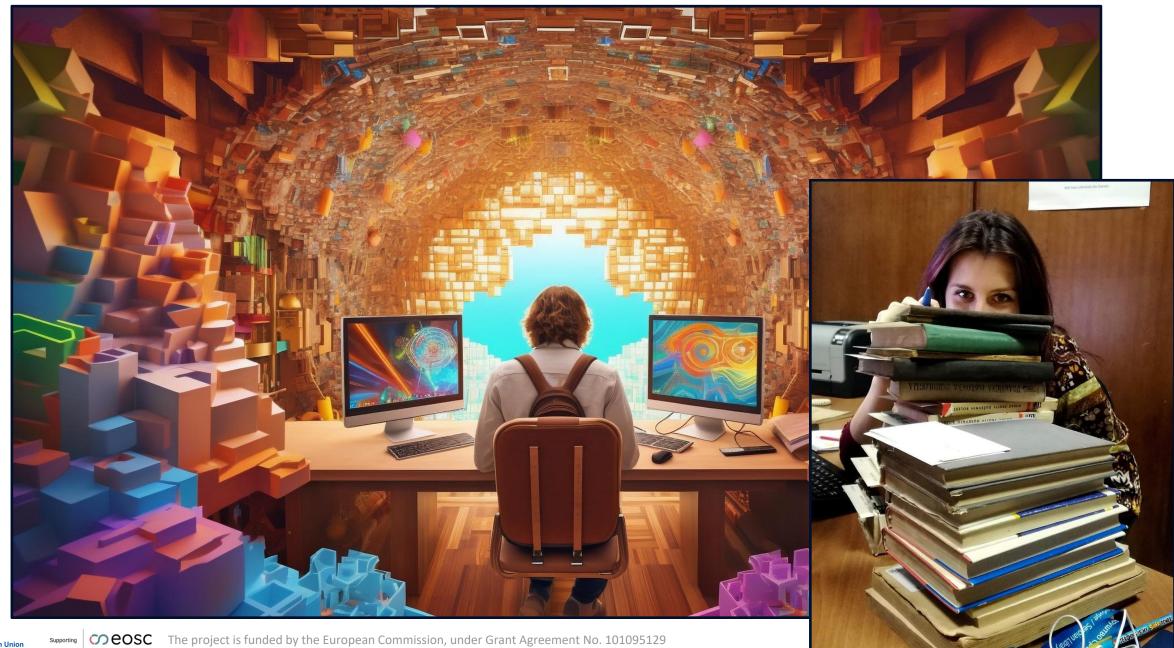
Ana Đorđević
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Faculty of Chemistry

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Funded by the European Union

What is Open Science?

Open Science is the movement to make scientific research (including publications, data, physical samples, and software) and its dissemination accessible to all levels of society.

Transparent and accessible knowledge is shared and developed through collaborative networks.

UNESCO Recommendation on Open Science

National Open Science Platform

- Adopted in July 2018

- In that time in Serbia was the lack of institutionalized training for librarians and researchers

- Training on Open Science was provided mainly through international projects

- Libraries has started to focus on developing skills for Open Science

Skills for librarians

In a rapidly changing digital world, libraries are regularly re-assessing existing services and offering new ones to support the work of both faculty (research) and students (education).

OPEN SCIENCE SKILLS

FAIR DATA

INFORMATION AND DATA LITERACY
- Data Analysis & Visualization
- Data & Text Mining
- Searching Open Data Sources
- Management of Big Data Sets
- Cleaning Data
- Reproducibility & Re-Use of Data

DIGITAL CONTENT CREATION
- Metadata for Digital Collections and Datasets
- Knowledge of Linked Data
- Storing, Saving, Archiving & Preserving Data
- Data Curation & Interoperability
- Data Management Planning
- Knowledge of Data Processing Software
- Data Curation & Publishing
- Knowledge of Data Policies - Institutional/Funder/National
- Fair Data Principles

METRICS & REWARDS

DIGITAL CONTENT CREATION
- Communicating Research Output via Social Media

COMMUNICATION & COLLABORATION
- Bibliometrics, Altmetrics & Research Impact Reporting

SCHOLARLY PUBLISHING

DIGITAL CONTENT CREATION
- Management & Use of Institutional Repositories
- New Open Publication Strategies (Contracts, relations with publishers, new funding models)
- OA University Presses
- Negotiating with Publishers for OA - Pay to Read/Pay to Publish
- Persistent Identifiers (ORCID, ISNI, URN, ISBN)
- Knowledge of Open Publication Options (Green, Gold, Hybrid)
- Knowledge of Existing Repositories (Article, Data, Disciplinary, Generic)

INFORMATION AND DATA LITERACY
- Development & Management of Current Research Information Systems

SAFETY
- Open Science Governance & Policy
- Licencing in the Digital Environment

RESEARCH INTEGRITY

INFORMATION AND DATA LITERACY
- Research Integrity & Ethics, GDPR

DIGITAL CONTENT CREATION
- Copyright & Intellectual Property in the Digital Environment

CITIZEN SCIENCE

COMMUNICATION & COLLABORATION
- Event management for Online Interactions, Crowd-sourcing
- Engaging the Public in Research

DIGITAL CONTENT CREATION
- Open Licences for Citizen Science

INFORMATION AND DATA LITERACY
- Responsible Research & Innovation (RRI)

· Discipline-specific skills needed to practice open science (does not include generic computer skills, wider librarianship skills and personal competencies)
· Mapped to LIBER OS Roadmap 7 focus areas, Digcomp 2.0 framework and FOSTER learning resources
· Produced by the LIBER Working Group on Digital Skills for Library Staff & Researchers with input from other LIBER Working Groups, 2020

Policies, repositories and Open Science in Serbia

Core training for librarians in Serbia

- Management of Institutional Repositories,
- Academic databases and search engines,
- Metadata standards (Dublin Core),
- Copyright and licensing (in detail),
- Sherpa Romeo, self-archiving policies (in detail),
- Research evaluation system,
- Handling various resource and file types,
- Bibliometrics and Altmetrics,
- Persistent Identifiers,
- Citation managers (handling metadata),
- FAIR principles…

User support team

Core training for researchers in Serbia

- Depositing data in institutional repositories,
- Open science policies,
- Metadata (basic information),
- Open Publication Options (Green, Gold, Hybrid),
- Self-archiving policies,
- Copyright and licensing,
- Dissemination through aggregators,
- File types,
- Altmetric (basic info),
- ORCID...

User support team

![graspos]

Faculty of Chemistry Repository - Cherry

University of Belgrade - Faculty of Chemistry

🏠 Cherry

Cherry Repository

http://cherry.chem.bg.ac.rs

CHERRY, ie CHEmistry RepositoRY is a joint digital repository of the all departments in University of Belgrade - Faculty of Chemistry. CHERRY provides open access to the publications, as well as to other outputs of the research projects implemented in this institution.

The software platform meets the current requirements that apply to the dissemination of scholarly publications and it is compatible with relevant international infrastructures.

You may use the external application *Authors, Projects, Publications (APP)* to browse and search authors and funding information. APP also enables metadata export and displays Altmetric scores and Dimensions, Scopus and Web of Science citation counts.

User Manual

Institutions/Communities
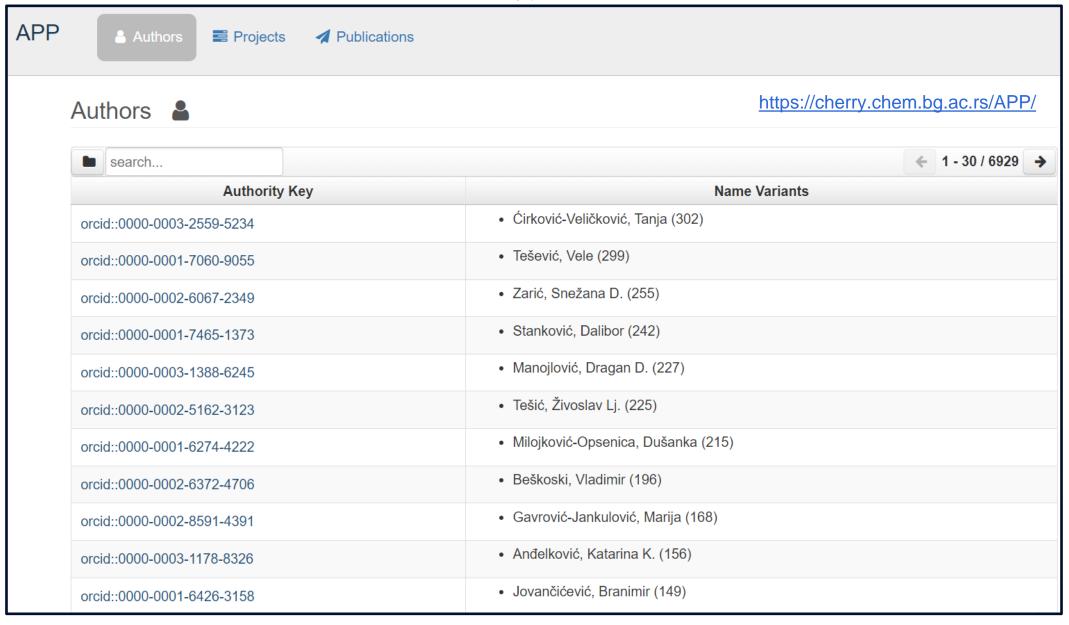
Select an institution/community

Hemijski fakultet / Faculty of Chemistry

Inovacioni centar / Innovation Centre

graspos

APP 👤 Authors   ☰ Projects   ✈ Publications

Authors 👤

📁 search...   ← **1 - 30 / 6929** →

Authority Key	Name Variants
orcid::0000-0003-2559-5234	• Ćirković-Veličković, Tanja (302)
orcid::0000-0001-7060-9055	• Tešević, Vele (299)
orcid::0000-0002-6067-2349	• Zarić, Snežana D. (255)
orcid::0000-0001-7465-1373	• Stanković, Dalibor (242)
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orcid::0000-0002-8591-4391	• Gavrović-Jankulović, Marija (168)
orcid::0000-0003-1178-8326	• Anđelković, Katarina K. (156)
orcid::0000-0001-6426-3158	• Jovančićević, Branimir (149)

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open research assessment dataspace
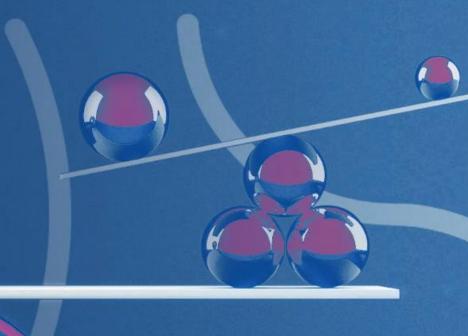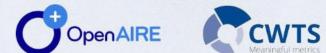
Next Generation Research Assessment to Promote Open Science

GraspOS project pilot study

This pilot aims at developing new generation metrics based on qualitative information deriving from the Cherry Repository that can support the University of Belgrade - Faculty of Chemistry to improve its research assessment practices.

About This Pilot

The institutional repository of the Faculty of Chemistry [Cherry](#) is used as a source of information for preparing annual reports listing research results. The data of the repository can be easily exported through a tailored external application [Authors, Projects, Publications (APP)](#); it is possible to calculate the percentage of OA resources and draw information about the structure of the deposited research outputs.

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Citation counts and Altmetric scores are displayed at the item level. Visits and downloads are tracked using the native DSpace module. However this information is not displayed in a visually attractive way and is overlooked by most users. This pilot aims at developing new generation metrics based on qualitative information deriving from the Cherry Repository that can support the Faculty of Chemistry to improve its research assessment practices.

Goals & links to *GraspOS*

- Develop an assessment protocol for in-departmental career assessment.

- Implement a researcher Openness Profile as an add-on to the local repository.

- Integrate information from OpenAIRE RG to the local researcher dashboard.

- Evaluate indicators and metrics on how they can improve researcher career assessment.

References:

Đorđević, Ana, Irena Nježić, Milica Ševkušić, and Biljana Kosanović. "Building Capacity for Open Science through Training for Institutional Repositories." Presented at the Open Science Fair, September 23, 2021. https://www.chem.bg.ac.rs/fakultet/Building_Capacity_for_Open_Science.pdf.

Gomes, Dylan G. E., Patrice Pottier, Robert Crystal-Ornelas, Emma J. Hudgins, Vivienne Foroughirad, Luna L. Sánchez-Reyes, Rachel Turba, et al. "Why Don't We Share Data and Code? Perceived Barriers and Benefits to Public Archiving Practices." *Proceedings of the Royal Society B: Biological Sciences* 289, no. 1987 (November 23, 2022): 20221113. https://doi.org/10.1098/rspb.2022.1113.

Hou, Jianhua, Yuanyuan Wang, Yang Zhang, and Dongyi Wang. "How Do Scholars and Non-Scholars Participate in Dataset Dissemination on Twitter." *Journal of Informetrics* 16, no. 1 (February 1, 2022): 101223. https://doi.org/10.1016/j.joi.2021.101223.

LIBER Europe. "LIBER Digital Skills for Library Staff & Researchers Working Group." Accessed June 29, 2023. https://libereurope.eu/working-group/liber-digital-skills-services-working-group/.

McCaffrey, Ciara, Thorsten Meyer, Clara Riera Quintero, Cecile Swiatek, Nathalie Marcerou-Ramel, Camilla Gillén, Karin Clavel, et al. *Open Science Skills Visualisation*. Zenodo, March 10, 2020. https://doi.org/10.5281/zenodo.3702401.

Parsons, Sam, Flávio Azevedo, Mahmoud M. Elsherif, Samuel Guay, Owen N. Shahim, Gisela H. Govaart, Emma Norris, et al. "A Community-Sourced Glossary of Open Scholarship Terms." *Nature Human Behaviour* 6, no. 3 (March 2022): 312–18. https://doi.org/10.1038/s41562-021-01269-4.

"Understanding Open Science," 2022. https://unesdoc.unesco.org/ark:/48223/pf0000383323.

"UNESCO Recommendation on Open Science," 2021. https://unesdoc.unesco.org/ark:/48223/pf0000379949.

Vicente-Saez, Ruben, and Clara Martinez-Fuentes. "Open Science Now: A Systematic Literature Review for an Integrated Definition." *Journal of Business Research* 88 (July 1, 2018): 428–36. https://doi.org/10.1016/j.jbusres.2017.12.043.

Woelfle, Michael, Piero Olliaro, and Matthew H. Todd. "Open Science Is a Research Accelerator." *Nature Chemistry* 3, no. 10 (October 2011): 745–48. https://doi.org/10.1038/nchem.1149.

Let's make it happen! Together.

THANK YOU

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