

# D3.1 REPORT ON THE TMMAGCAT WEBSITE



## TAILORING MOLECULAR MAGNETS AND CATALYSTS BASED ON TRANSITION METAL COMPLEXES

Project supported by the Science Fund of the Republic of Serbia, #7750288, through the program IDEAS

WP3 - Dissemination and outreach

WP3 Lead SRO: UBFC

Due date of deliverable: 23/04/2022 (M3)

Actual submission month: Month 3

## TMMagCat SROs

1. University of Belgrade – Institute of Chemistry, Technology and Metallurgy – National Institute of the Republic of Serbia (ICTM)
2. University of Belgrade – Faculty of Chemistry (UBFC)
3. Innovative Centre, Faculty of Chemistry, Belgrade, Ltd. (ICFC)

For more information on this document or TMMagCat, please contact:

Dr Matija Zlatar, TMMagCat PI

University of Belgrade – Institute of Chemistry, Technology and Metallurgy – National Institute of the Republic of Serbia (ICTM)

Njegoševa 12, 11000 Belgrade, Republic of Serbia

E-mail: [matija.zlatar@ihm.bg.ac.rs](mailto:matija.zlatar@ihm.bg.ac.rs)

Dr. Božidar Čobeljić, WP3 coordinator

University of Belgrade – Faculty of Chemistry (UBFC)

Studentski trg 12-16, Belgrade

E-mail: [bozidar@chem.bg.ac.rs](mailto:bozidar@chem.bg.ac.rs)

## Document information

<b>Title</b>	D4.1 Report on the kick-off meeting
<b>Contributing work package</b>	WP3: Dissemination and outreach
<b>Actual delivery date</b>	21/04/2022
<b>Dissemination level</b>	Public

## Revision history

Version	Date	Authors	Description / Comments
<b>V.1</b>	21/04/2022	Božidar Čobeljić, Matija Zlatar	Final version

## Executive summary

The objective of WP3 is to increase the visibility of the TMMagCat team through the dissemination of the Project's outcomes. Dissemination will be achieved by website, participation at conferences, scientific papers, organization of the workshop, research seminars at universities in Serbia and Europe, press releases and highlights, popular scientific lectures, and presence on social media networks. The visual identity of the TMMagCat will be consistent for the duration of the Project. Persistent coloring, the project acronym, a logo of the Project, logos of the Scientific Institutions involved in the Project (ICTM, UBFC, ICFC), and the Science Fund of the Republic of Serbia will be included in every communication activity related to the Project. In written documents, acknowledgment to the Science Fund will be encompassed. The Project will be entirely devoted to the principles of Open Science.

Deliverable D3.1, entitled *Report on the TMMagCat website*, aims to describe the design and contents of the TMMagCat website and present the designed logo for the Project.



## TMMagCat logo

TMMagCat logo will be used in all dissemination documents (written and online) of all project activities. It is crucial for the visual identity of the Project. The logo aims to capture the attention of the public. It also transmits the main idea of the Project.

The logo is designed in color in two versions - with and without the accompanying acronym of the Project (Figures 1 and 2). The logo is made in .svg, .png, .jpg and .ai formats. The colors present in the logo are blue, red, and grey. The symbol used in the logo is a stylized magnet with schematic lines between two poles, representing the potential energy curves of a chemical reaction with and without a catalyst.



Figure 1 TMMagCat logo with Project's acronym<sup>1</sup>

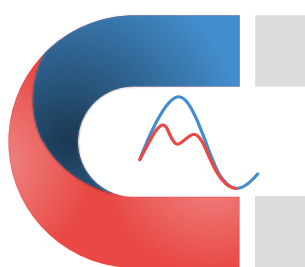


Figure 2 TMMagCat symbol<sup>1</sup>

In addition to the TMMagCat logo, logos of the Scientific Institutions involved in the Project (ICTM, UBFC, ICFC) and the Science Fund of the Republic of Serbia will be included in every communication activity related to the Project (Figure 3).

---

<sup>1</sup> TMMagCat logo is property of TMMagCat team. All Rights Reserved - ©2022 TMMagCat

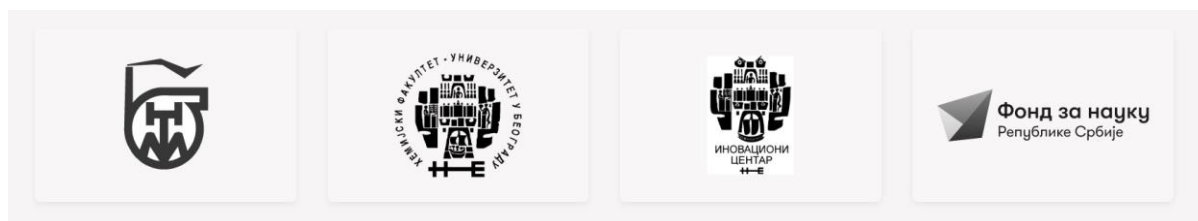


Figure 3 Institutional logos used on the TMMagCat website<sup>2</sup>

## TMMagCat website

TMMagCat project website aims to be the central platform for promoting the Project and its activities, enabling wide dissemination of information.

TMMagCat's website was created in the first part of April 2022. It is available under the link: <https://tmmagcat.rs/>, and it is bilingual in English and Serbian. The bilingual website provides general information on the Project, objectives of the Project, team members, results, dissemination materials, news, and deliverables. Educational material will also be posted. Most of the website content is an open public area with accession to everyone. There will be a password-protected part - a restricted internal area with access only for the team members. TMMagCat's website will be linked to the project page on Facebook, Twitter, and Instagram. It will be connected to the repository of the Project's results. Links to the TMMagCat website will be created on the websites of all three SROs.

All announcements will be made here. The website will be regularly updated and thus will give insight into the progress of the Project. All relevant information will be disseminated and communicated to the interested research community, students, industry, and public. The aim is to attract an audience and increase interest in subjects covered by the Project.

The website will be maintained for at least one year after completing the Project.

## TMMagCat website – technical details

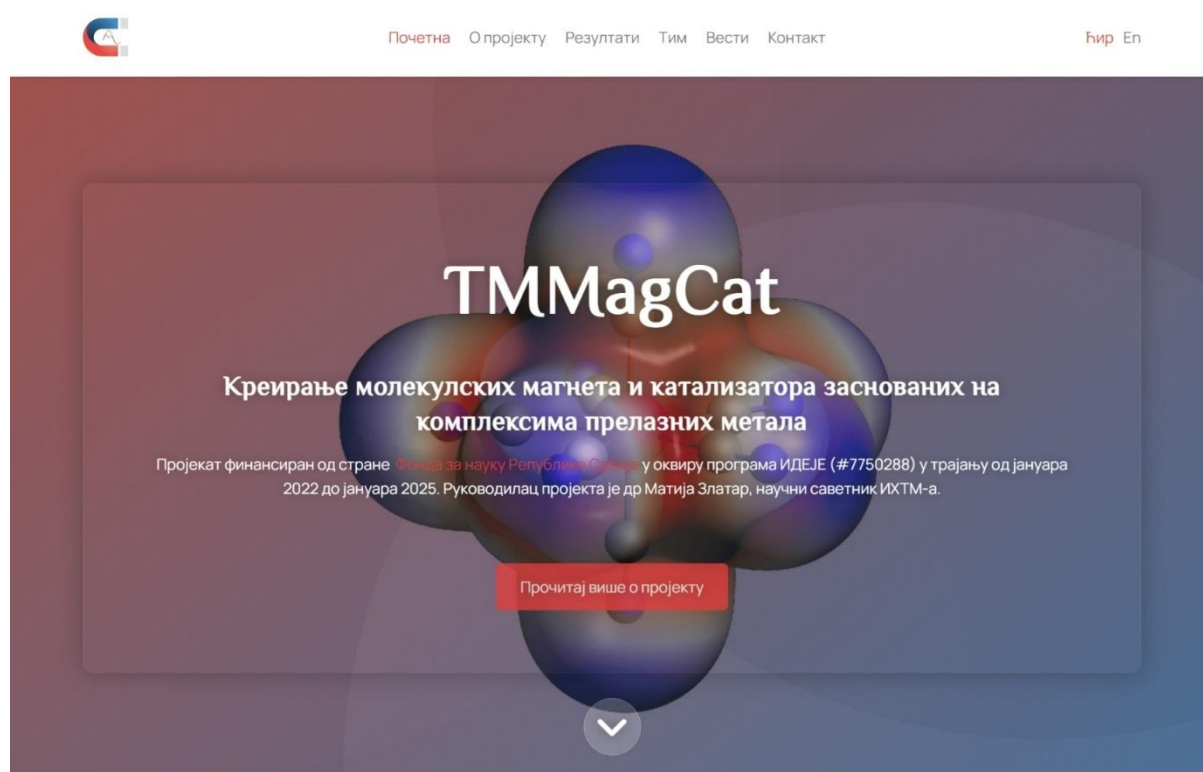
WordPress (version 5.9.3) was used to create the site. The backend custom theme, created exclusively for the Project, is written in object-oriented PHP programming language (version 8). Composer package manager was used to control PHP packages. The frontend part is in SCSS and JavaScript (ES6 version and newer). Complete code is synchronized to a private GitHub repository, where, using Laravel Mix, a build (.zip file) is created that contains one

<sup>2</sup> Institutional logos are property of the Institutions.

minified .css and .js file in the frontend part with file versioning. The build itself automatically gets its semantic release upon committing to GitHub. The website is "https" certified. Google Analytics is used for web analytics.

## TMMagCat website – illustrations

In the following, some screenshots of the website are given (Figures 4-6).



### Кратак опис пројекта

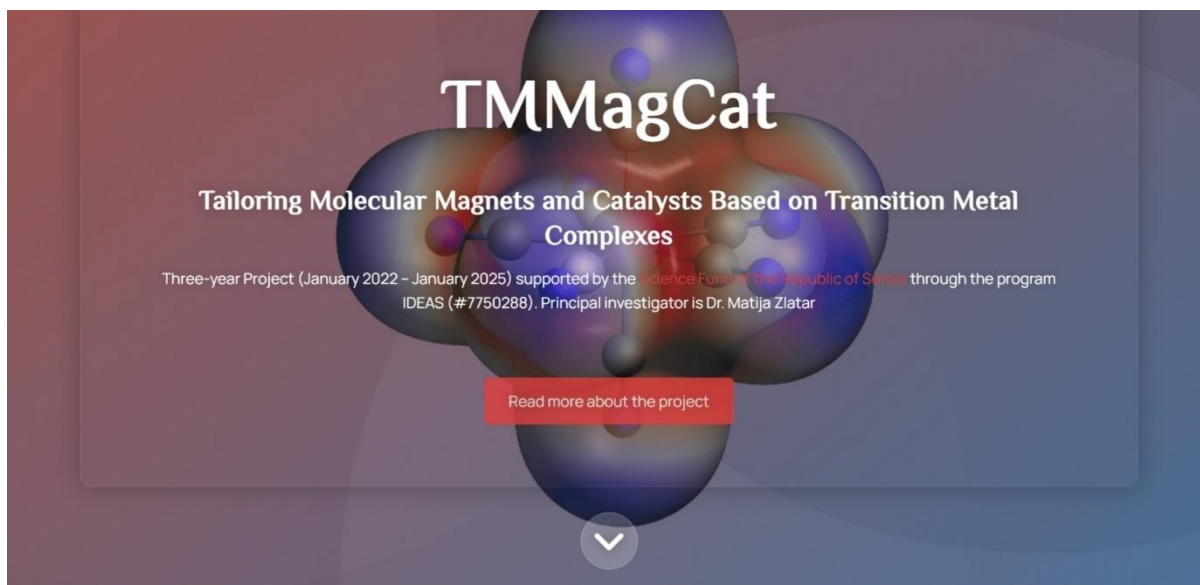
У оквиру TMMagCat пројекта планиран је рационални дизајн и синтеза нових комплекса прелазних метала који се могу користити као једно-молекулски магнети, али и као катализатори за реакције селективне оксидације.

Једно-молекулски магнети имају потенцијал за технолошке апликације као што је складиштење информација велике густине, спинтроника или квантни рачунари. Комплекси прелазних метала са одговарајућим карактеристикама су могући кандидати за овакву примену. Са друге стране, ови комплекси поштују принципе зелене хемије и могу се користити као нова генерација, еколошки прихватљивих, и селективних катализатора.

Креирање молекула са оваквим особинама захтева фундаментално разумевање свих фактора који могу утицати на њихове особине. Кључ за ову

**Figure 4** Part of the home page (<https://tmmagcat.rs/>). Accessed April 2022.

This research was supported by the Science Fund of the Republic of Serbia, #7750288, Tailoring Molecular Magnets and Catalysts Based on Transition Metal Complexes – TMMagCat. The content of this report is the sole responsibility of the TMMagCat team, and this content does not reflect the views of the Science Fund of the Republic of Serbia. This work is licensed under the [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/). ©2022 TMMagCat



**TMMagCat**

**Tailoring Molecular Magnets and Catalysts Based on Transition Metal Complexes**

Three-year Project (January 2022 – January 2025) supported by the Science Fund of the Republic of Serbia through the program IDEAS (#7750288). Principal investigator is Dr. Matija Zlataar

[Read more about the project](#)

▼

## Summary of the Project

The TMMagCat aims to judiciously design and synthesize the first-row transition metal complexes with the ambition to develop a new generation of single-molecular magnets and catalysts.

Single-molecular magnets have the potential for several technological applications, like ultrahigh-density information storage, spin-based electronics, and quantum computing. Transition metal complexes with appropriate characteristics are possible candidates for this application. On the other hand, these complexes respect the green-chemistry principles and can be used as a new generation of environmentally friendly, selective, and cheap catalysts.

Creating molecules with such properties requires a fundamental understanding of all the factors affecting their properties. The key to this *molecular architecture* is controlling the electronic structure of TM complexes. The electronic structure of TM complexes is responsible for their magnetism and, at the same time, determines their reactivity. The combination of experiments and modern computer methods will enable the achievement of project goals.

## Our team

The TMMagCat project brings together an interdisciplinary team of experienced and early-stage researchers from three institutions. Team members specialized in both experimental and theoretical inorganic chemistry will be joining their knowledge, experience and ideas in a highly synergistic approach.

[Meet TMMagCat team](#)



**Figure 5** Part of the homepage (<https://www.tmmagcat.rs/en/>). Accessed April 2022.

This research was supported by the Science Fund of the Republic of Serbia, #7750288, Tailoring Molecular Magnets and Catalysts Based on Transition Metal Complexes – TMMagCat. The content of this report is the sole responsibility of the TMMagCat team, and this content does not reflect the views of the Science Fund of the Republic of Serbia. This work is licensed under the [Creative Commons Attribution 4.0 International License](https://creativecommons.org/licenses/by/4.0/). ©2022 TMMagCat



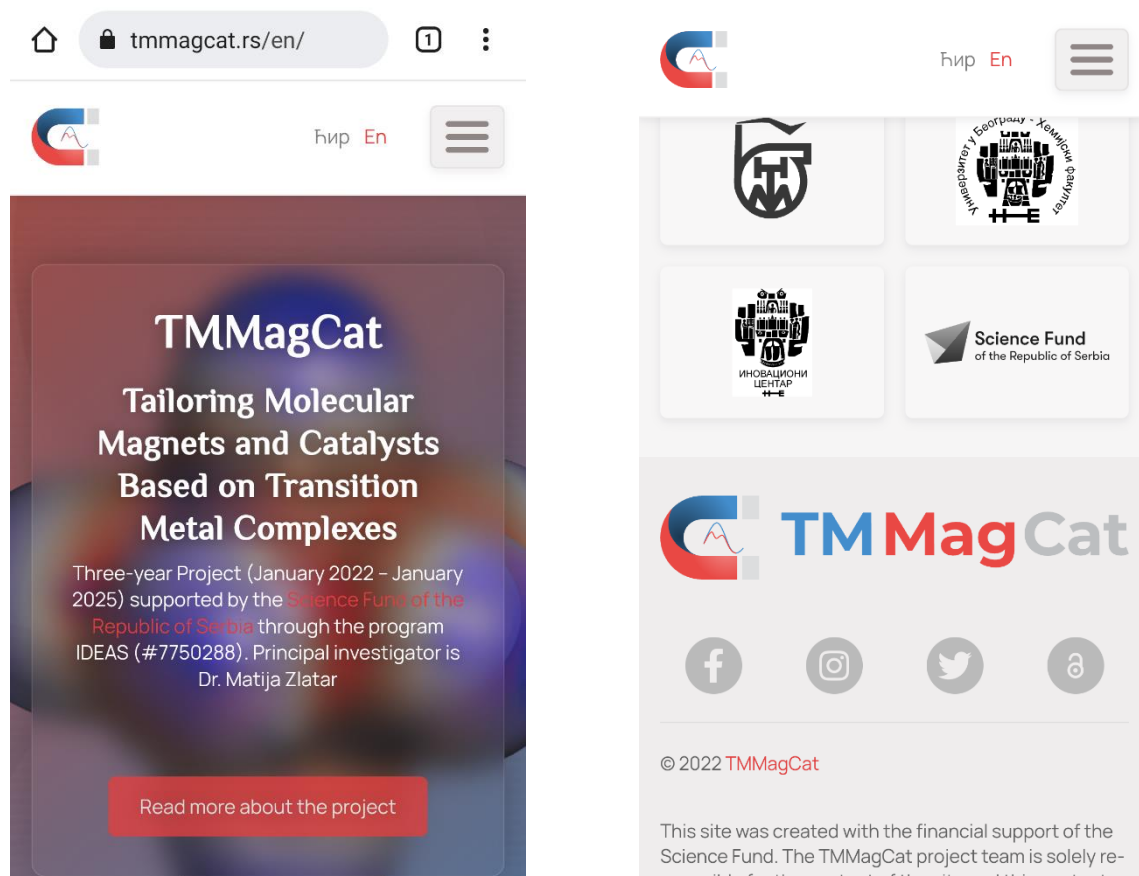


Figure 6 Parts of the website on mobile phone (<https://www.tmmagcat.rs/en/>). Accessed April 2022.