



PFAS
twin

Ensuring Open Access and Research Transparency

Ana Bošković

University of Belgrade – Faculty of Chemistry

Library

May 12, 2026

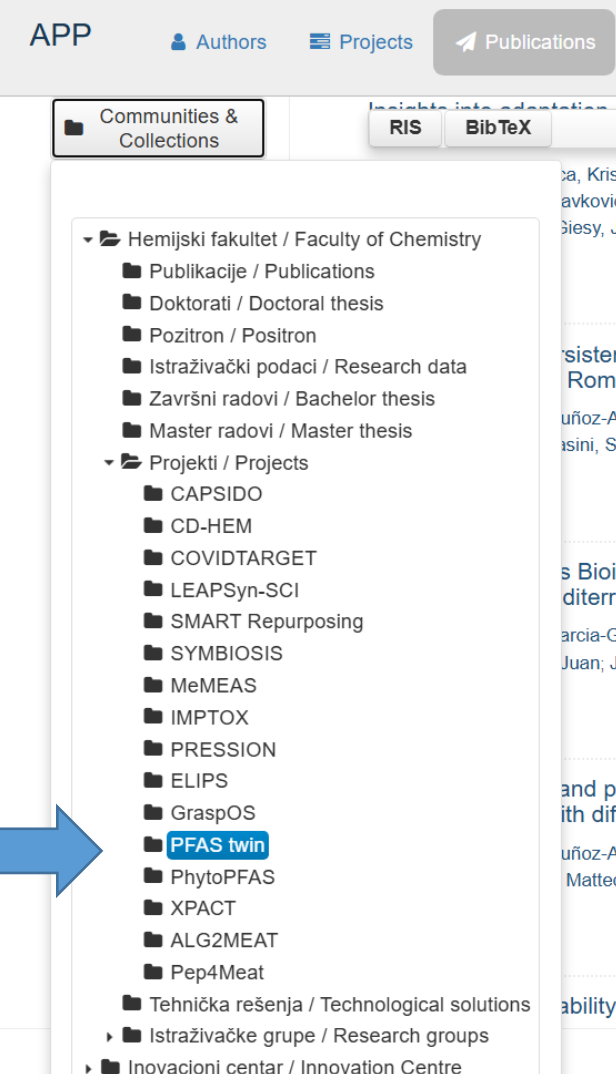
Project: 101059534 — **PFAS**twin
HORIZON-WIDERA-2021-ACCESS-02



Funded by the
European Union

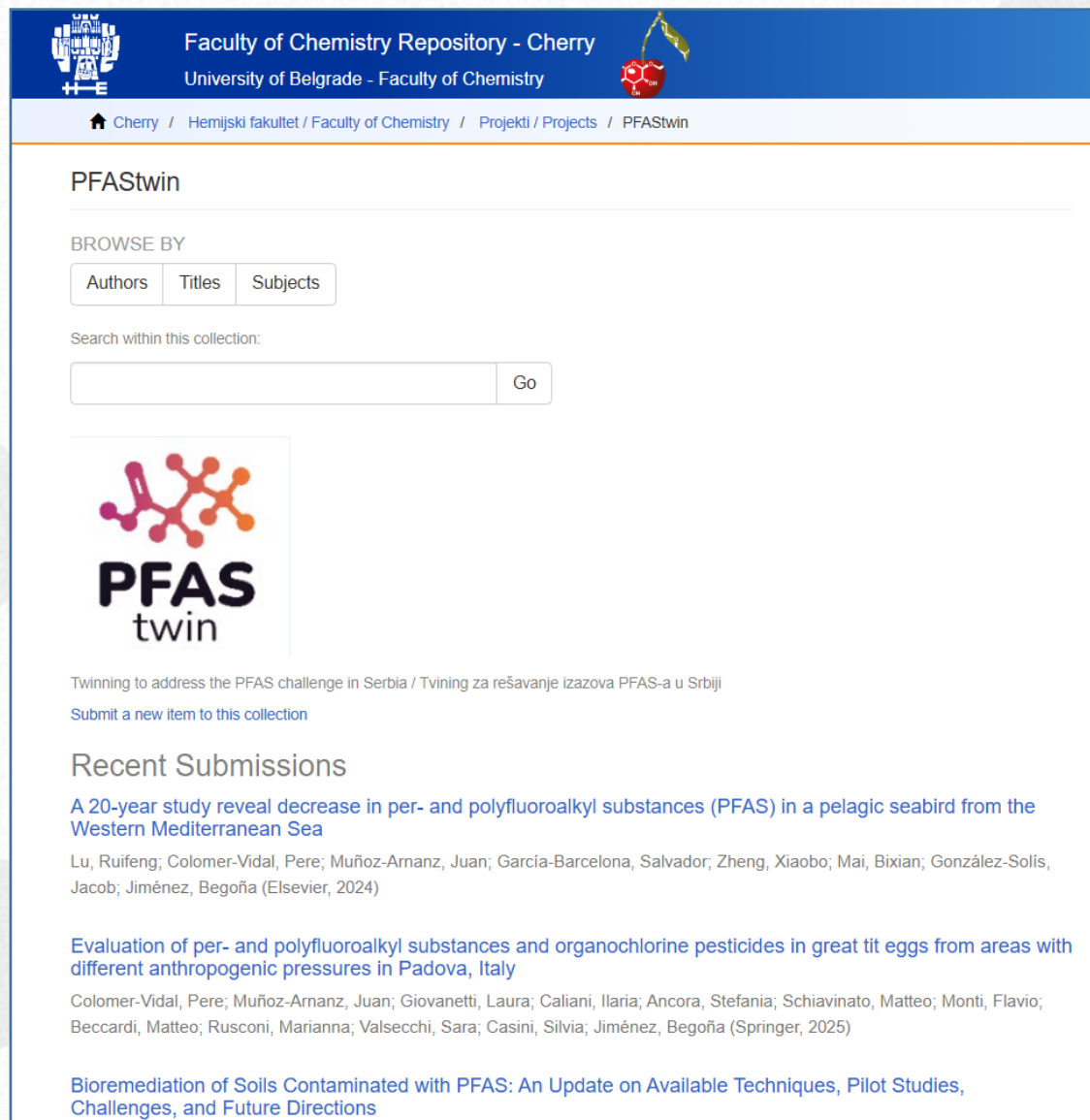
Cherry - Institutional Open Access Repository

- **Compatible with relevant international infrastructures:** Open AIRE, BASE, CORE, WorldCat, Unpaywal, re3data, OpenDOAR, ROAR, Google Scholar, ORCID.
- **Citation counts:** Web of Science, Scopus, Dimensions, OpenCitations, Altmetric, BIP! Ranker.
- **Metadata and PDF quality control - the role of librarian.**



The screenshot shows the Cherry repository interface. At the top, there are tabs for 'APP', 'Authors', 'Projects', and 'Publications'. Below this, there are buttons for 'Communities & Collections', 'RIS', and 'BibTeX'. The main content area displays a hierarchical tree structure under 'Hemijski fakultet / Faculty of Chemistry'. The tree includes categories like 'Publikacije / Publications', 'Doktorati / Doctoral thesis', 'Projekt / Projects', and 'Tehnička rešenja / Technological solutions'. A blue arrow points to the 'PFAS twin' folder, which is highlighted in blue in the list.

PFAS_{twin} Collection in the Cherry Repository



The screenshot shows the web interface of the Faculty of Chemistry Repository - Cherry at the University of Belgrade. The page is titled "PFAS_{twin}" and features a navigation bar with the university logo and a cherry icon. Below the navigation bar, there is a breadcrumb trail: "Cherry / Hemijski fakultet / Faculty of Chemistry / Projekti / Projects / PFAS_{twin}". The main content area includes a "BROWSE BY" section with buttons for "Authors", "Titles", and "Subjects". A search box is provided with the text "Search within this collection:" and a "Go" button. Below the search box is a logo for "PFAS_{twin}" consisting of a stylized molecular structure and the text "PFAS twin". Underneath the logo, there is a description: "Twinning to address the PFAS challenge in Serbia / Tvining za rešavanje izazova PFAS-a u Srbiji" and a link "Submit a new item to this collection". The "Recent Submissions" section lists two articles: "A 20-year study reveal decrease in per- and polyfluoroalkyl substances (PFAS) in a pelagic seabird from the Western Mediterranean Sea" and "Evaluation of per- and polyfluoroalkyl substances and organochlorine pesticides in great tit eggs from areas with different anthropogenic pressures in Padova, Italy". The bottom of the page features the PFAS_{twin} logo and project information: "Project: 101059534 — PFAS_{twin} HORIZON-WIDERA-2021-ACCESS-02".

Faculty of Chemistry Repository - Cherry
University of Belgrade - Faculty of Chemistry

Cherry / Hemijski fakultet / Faculty of Chemistry / Projekti / Projects / PFAS_{twin}

PFAS_{twin}

BROWSE BY

Authors Titles Subjects

Search within this collection:

PFASStwin Collection in the Cherry Repository

Filter Overview

Document Type
Conference object (39)
Report (10)
Article (5)
Book part (2)
Book (1)

Year published
2026 (2)
2025 (22)
2024 (13)
2023 (18)
2022 (2)

Journal/Monograph
SETAC Europe 34th Annual Meeting, Abstract book, May 2-6, 2024, Seville, Spain (4)
21st European Symposium on Fluorine Chemistry - ESFC Lisbon, E-Book of Abstracts, Lisbon, Portugal, 3-9 August 2025 (2)
24th European Meeting on Environmental Chemistry, Book of Abstracts, 26 – 29 November 2024, Alicante, Spain, 2024 (2)
25th European Meeting on Environmental Chemistry (EMEC 25), Book of Abstracts, 23-25 November 2025, Chania, Greece (2)
9th Symposium Chemistry and Environmental Protection EnviroChem2023, Book of Abstract, 4-7 June 2023, Kladovo, Serbia (2)

Version
Published version (55)
Accepted Version (2)

Access
Open Access (47)
Restricted Access (8)
Embargoed Access (2)

Subject
PFAS (17)
PFOA (7)
bioremediation (3)
remediation (3)
soil (3)
... View More



Bioremediation of Soils Contaminated with PFAS: An Update on Available Techniques, Pilot Studies, Challenges, and Future Directions

Authorized Users Only

Per- and polyfluoroalkyl substances (PFAS) have emerged as a significant class of pollutants due to their broad environmental and health implications. PFAS have been used in a range of industrial and consumer applications since the 1940s, leading to their widespread presence in the environment, including among others, water sources, soil, and even the human body. As a result, these man-made chemicals have gained substantial attention in recent years due to their persistence, bioaccumulative nature, and adverse effects on both ecosystems and human health. Increasing scientific and regulatory attention is being paid to the occurrence and fate of PFAS in drinking water, wastewater, and the environment in general. Particularly, PFAS-contaminated soil has become increasingly reported in many parts of the world, and is now being recognized as a serious environmental hazard. When these chemicals are present in soil, they can infiltrate the groundwater, potentially leading to drinking water and food conta...



Keywords:

Microbial remediation / PFAS / Phytoremediation / Soil

Source:

Soil Remediation Science and Technology. The Handbook of Environmental Chemistry, 2024, 130, 331-366

Publisher:

- Springer, Cham.

Funding / projects:

- PFASwin - Twinning to address the PFAS challenge in Serbia (EU-HE-101059534)

Note:

- Accepted, peer-reviewed version of the manuscript: <https://cherry.chem.bg.ac.rs/handle/123456789/7697>

Related info:

- Version of <https://cherry.chem.bg.ac.rs/handle/123456789/7697>

DOI: [10.1007/698_2023_1070](https://doi.org/10.1007/698_2023_1070)

ISBN: 978-3-031-60191-0

Scopus: [2-s2.0-85200507684](https://scopus.com/urn:sid:2-s2.0-85200507684)[\[Google Scholar \]](#)

2024

Authors

Beškoski, Vladimir

Lješević, Marija

Jimenez, Begona

Munoz-Armanz, Juan

Colomer Vidal, Pere

Inui, Hideyuki

Nakano, Takeshi

Book part (Published version)



Springer

Metadata

[Show full item record](#)

Bioremediation of Soils Contaminated with PFAS: An Update on Available Techniques, Pilot Studies, Challenges, and Future Directions

Per- and polyfluoroalkyl substances (PFAS) have emerged as a significant class of pollutants due to their broad environmental and health implications. PFAS have been used in a range of industrial and consumer applications since the 1940s, leading to their widespread presence in the environment, including among others, water sources, soil, and even the human body. As a result, these man-made chemicals have gained substantial attention in recent years due to their persistence, bioaccumulative nature, and adverse effects on both ecosystems and human health. Increasing scientific and regulatory attention is being paid to the occurrence and fate of PFAS in drinking water, wastewater, and the environment in general. Particularly, PFAS-contaminated soil has become increasingly reported in many parts of the world, and is now being recognized as a serious environmental hazard. When these chemicals are present in soil, they can infiltrate the groundwater, potentially leading to drinking water and food conta...



Keywords:

Microbial remediation / PFAS / Phytoremediation / soil

Source:

Soil Remediation Science and Technology. The Handbook of Environmental Chemistry, 2024, 130, 331-366

Publisher:

- Springer, Cham.

Funding / projects:

- PFASwin - Twinning to address the PFAS challenge in Serbia (EU-HE-101059534)

Note:

- Published version: <https://cherry.chem.bg.ac.rs/handle/123456789/6673>

Related info:

- Version of <https://cherry.chem.bg.ac.rs/handle/123456789/6673>

DOI: [10.1007/698_2023_1070](https://doi.org/10.1007/698_2023_1070)

ISBN: 978-3-031-60191-0

[\[Google Scholar \]](#)

2024

Download

bitstream_39676.pdf (1.385Mb)

Authors

Beškoski, Vladimir

Lješević, Marija

Jiménez, Begoña

Muñoz-Armanz, Juan

Colomer-Vidal, Pere

Inui, Hideyuki

Nakano, Takeshi

Book part (Accepted Version)



Metadata

[Show full item record](#)

Final Paper - Open Access Gold

Insights into adaptation mechanisms and survival strategies of *Pseudomonas chlororaphis* subsp. *aurantiaca*: A comparative proteomic study under PFOA exposure



Perfluorooctanoic acid (PFOA), increasingly detected at extreme concentrations in industrial hotspots, caused a reduction in growth and a prolonged lag phase in *Pseudomonas chlororaphis* subsp. *aurantiaca*. In order to reveal microbial adaptation mechanisms and survival strategies under exposure to PFOA, a comparative proteomic analysis was undertaken. The up-regulation of phosphoglycerol transferase, lipoproteins, and long-chain fatty acid synthesis, together with the down regulation of cis unsaturation of fatty acids and changes in specific membrane-embedded porins, indicate alterations in membrane structure, fluidity, and permeability. The up-regulation of the divalent cation-regulated outer membrane protein H1, accompanied by the down-regulation of zinc and other metal transporters, reflect changes in metal ion homeostasis. In particular, altered iron homeostasis and expression of iron-, Fe-S clusters-, and heme-containing proteins were detected, along with the reduced activity of so...



Keywords:
PFOA / Proteome / Enzymes / Survival strategies / Iron homeostasis

Source:
Ecotoxicology and Environmental Safety, 2026, 311, 119859-

Funding / projects:
• **PFAS_{Stwin} - Twinning to address the PFAS challenge in Serbia** (EU-HE-101059534)

DOI: [10.1016/j.ecoenv.2026.119859](https://doi.org/10.1016/j.ecoenv.2026.119859)

WoS: 001695491600001

[\[Google Scholar \]](#)

URI
<https://cherry.chem.bg.ac.rs/handle/123456789/7594>

Collections
PFAS_{Stwin}

Institution/Community
Hemijski fakultet / Faculty of Chemistry

[RIS](#) [BibTex](#) [APA](#) [Vancouver](#) [Chicago](#)

2026

Download
[bitstream_39333.pdf](#) (2.351Mb)

Authors

Lješević, Marija
Kasalica, Kristina
Medić, Ana
Lončarević, Branka
Khraibah, Abdullah
Li, Yingxi
Berezovski, Maxim
Minić, Zoran
Slavković Beškoski, Latinka
Izrael Živković, Lidija
Gojgjić-Cvijović, Gordana
Karadžić, Ivanka
Inui, Hideyuki
Giesy, John
Beškoski, Vladimir

[Article \(Published version\)](#)



Acknowledgements: An Essential Part of Every Scientific Paper

- Metadata
- PDF/presentation

(+ EU Emblem)

...

dc.publisher	Elsevier
dc.relation	info:eu-repo/grantAgreement/EC/HE/101059534/EU//
dc.relation	info:eu-repo/grantAgreement/MESTD/inst-2020/200168/RS//
dc.relation	info:eu-repo/grantAgreement/MESTD/inst-2020/200026/RS//
dc.relation.isversionof	https://cherry.chem.bg.ac.rs/handle/123456789/7705
dc.rights	embargoedAccess
dc.rights.uri	https://creativecommons.org/licenses/by-nc-nd/4.0/

...

e.g.

Acknowledgements

This work was supported by the European Commission under the Horizon Europe Framework Programme, Twinning Western Balkans (Grant Agreement No. 101059534), and by the Ministry of Science, Technological Development and Innovation of the Republic of Serbia

Funding This research has been funded by the Spanish Government (Protocolo MITERD-CSIC, 20218T003) and the EU (PFAS_{twin}, Proposal number: 101059534).

...

Two Main Sub-Tasks:

- (i) Publishing open-access papers in high-impact scientific journals and
- (ii) presenting research results at national and international conferences.

Planned vs. Achieved

-At least **3** peer-reviewed scientific papers...

- **5** peer-reviewed papers

- **1** book chapter

(+ 1 paper published shortly after the project ended)

Name of publication	Journal /Book	Year
Long-term bioelectricity generation in microbial fuel cell exposed to perfluorooctanoic acid	Bioresource Technology	2026
Insights into adaptation mechanisms and survival strategies of <i>Pseudomonas chlororaphis</i> subsp. <i>aurantiaca</i> : A comparative proteomic study under PFOA exposure	Ecotoxicology and Environmental Safety	2026
Photocatalytic degradation of PFOA over rGO-doped TiO ₂ coatings formed by plasma electrolytic oxidation	Journal of Environmental Chemical Engineering	2025
Evaluation of per- and polyfluoroalkyl substances and organochlorine pesticides in great tit eggs from areas with different anthropogenic pressures in Padova, Italy	Environmental Science and Pollution Research	2025
A 20-year study reveal decrease in per- and polyfluoroalkyl substances (PFAS) in a pelagic seabird from the Western Mediterranean Sea	Environmental Pollution	2024
Bioremediation of Soils Contaminated with PFAS: An Update on Available Techniques, Pilot Studies, Challenges, and Future Directions	Soil Remediation Science and Technology. The Handbook of Environmental Chemistry	2024
Per- i polifluoroalkil supstance (PFAS) - izvori zagađenja, izazovi remedijacije i potencijalni abiotički tretmani zagađenih voda.	Voda i sanitarna tehnika	2024

Planned vs. Achieved

- At least **5** conference



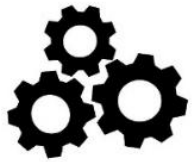

participation per year...

- total of **35** presentations

delivered at national and

international conferences.

Conference name	Place	No. of papers	Participant	Year
18 th International Conference on Chemistry and the Environment (ICCE 2023)	Venice, Italy	2	UBFC, IQOG-CSIC	2023
18 th Symposium on Chemistry and Environmental Protection (Envirochem23)	Kladovo, Serbia	2	UBFC	2023
European Meeting on Environmental Chemistry (EMEC23)	Budva, Montenegro	3	UBFC	2023
XXII Meeting of the Spanish Society of Chromatography and Related Techniques (SECYTA 2023)	Mallorca, Spain	1	IQOG-CSIC	2023
SETAC (Society of Environmental Toxicology and Chemistry Europe) 34 th Annual Meeting	Seville, Spain	5	UBFC, IQOG-CSIC	2024
XXIII Meeting of the Spanish Society of Chromatography and Related Techniques (SECYTA 2024)	Pamplona, Spain	1	IQOG-CSIC	2024
4 th International Conference on Microbial Ecotoxicology (EcotoxicoMic)	Gothenburg, Sweden	1	BRGM	2024
European Meeting on Environmental Chemistry (EMEC24)	Alicante, Spain	1	UBFC	2024
XXII European Conference on Analytical Chemistry (Euroanalysis 2025)	Barcelona, Spain	1	IQOG-CSIC	2025
19 th International Conference on Chemistry and the Environment (ICCE 2025)	Belgrade, Serbia	6	UBFC, BRGM, IQOG-CSIC,	2025
EGU General Assembly 2025	Vienna, Austria	1	BRGM	2025
International Conference on Environmental and Sustainable Research Solutions	Novi Sad, Serbia	2	UBFC	2025
4 th International and 16 th National Congress of the Serbian Society of Soil Science	Vrdnik, Serbia	1	UBFC	2025
IUPAC World Chemistry Congress 2025 & IUPAC General Assembly 2025,	Kuala Lumpur, Malaysia,	1	UBFC	2025
European Symposium on Fluorine Chemistry (ESFC)	Lisbon, Portugal	2	UBFC	2025
FEBS3+ Meeting – Advances in Molecular Biosciences: From Genes to Personalized Therapies	Belgrade, Serbia	1	UBFC	2025
European Meeting on Environmental Chemistry (EMEC25)	Chania, Crete	2	UBFC	2025
Conference of Young Chemists of Serbia	Kragujevac, Serbia	2	UBFC	2025

F indable	A ccessible	I nteroperable	R eusable
			

OPEN		ACCESS
------	-------------------------------------------------------------------------------------	--------

Thank you!

anadj@chem.bg.ac.rs



Project: 101059534 — PFAS^{twin}
HORIZON-WIDERA-2021-ACCESS-02



Funded by the
European Union