

A close-up photograph of a person with long dark hair and glasses, wearing a blue patterned lab coat, working in a laboratory. They are using a white and blue pipette to transfer liquid into a small vial. The background shows laboratory equipment and a metal grid.

EVALUATION OF SCIENTIFIC AND RESEARCH ACTIVITIES AT CZU FOR 2023



Czech University
of Life Sciences Prague

University full of life



University full of life

CZU.CZ

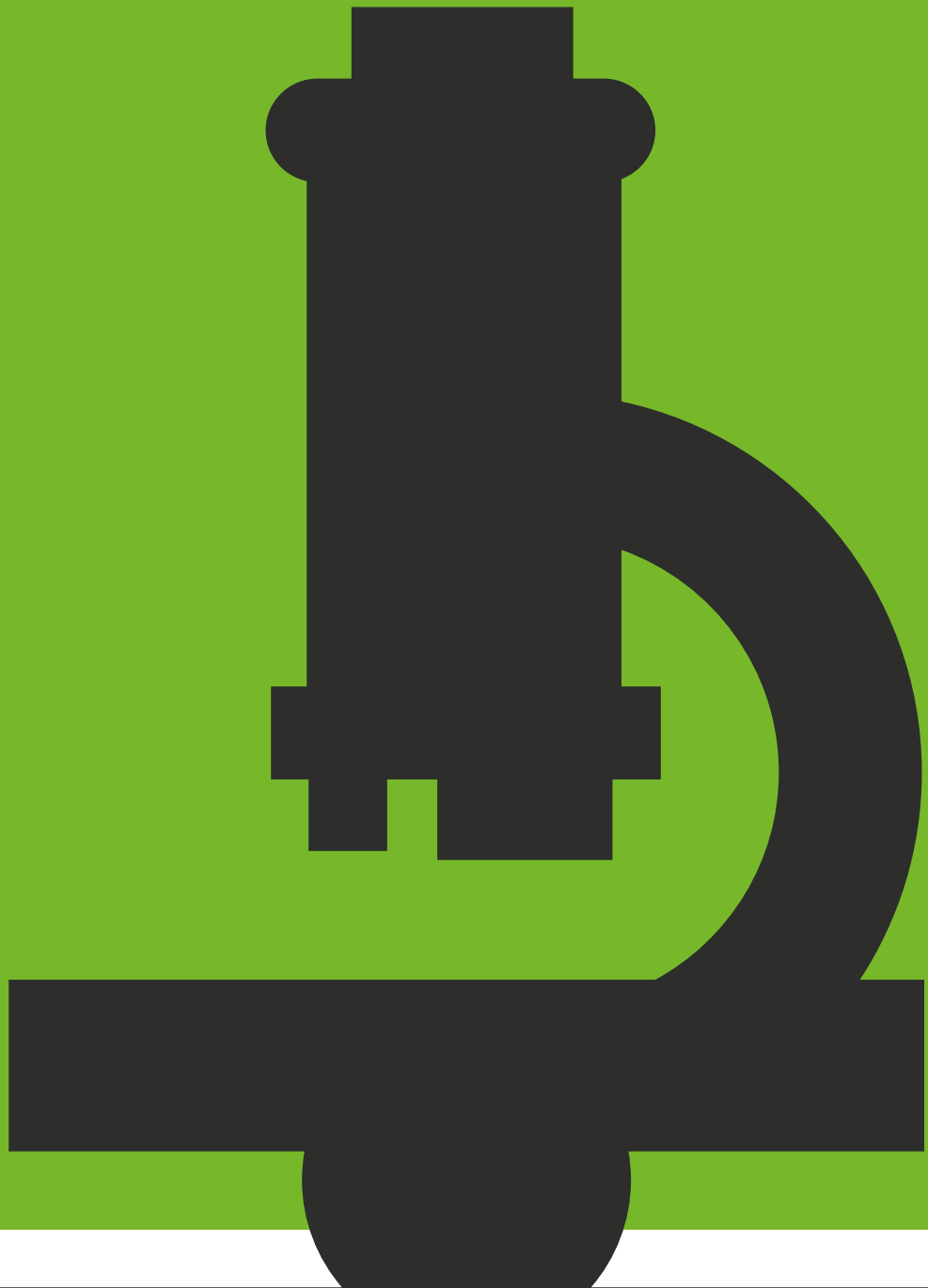


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01

Introduction



01 / Introduction

The Evaluation of Scientific and Research Activities at CZU for 2023 is divided into four parts concerning the evaluation of

- Research projects;
- Doctoral study programmes;
- Growth in staff qualifications;
- Publications.

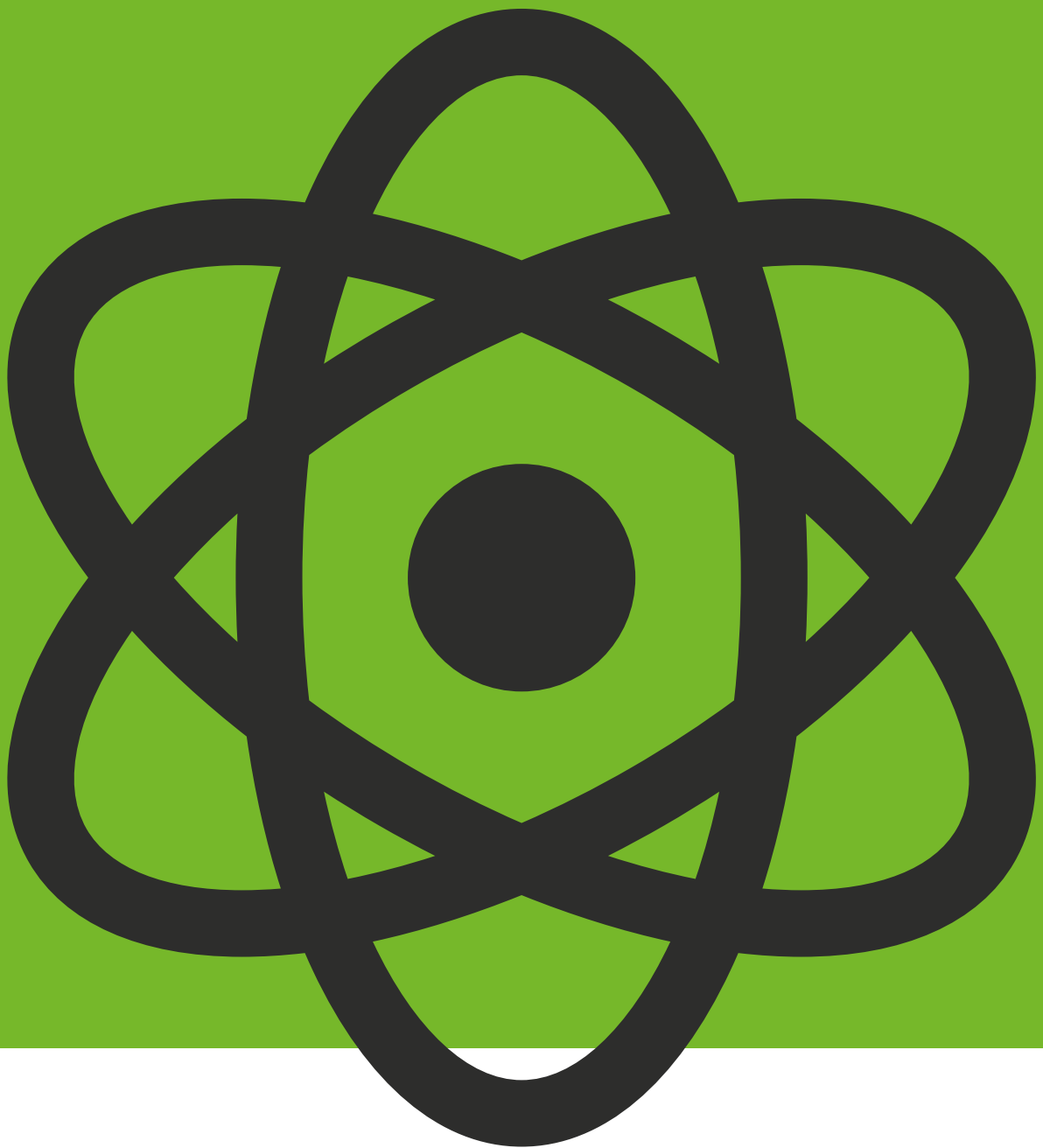
For convenience, the individual CZU faculties, the Institute and the Rectorate are distinguished by different colours in the charts below:	
FAPPZ	Faculty of Agrobiology, Food and Natural Resources
FZP	Faculty of Environmental Sciences
FLD	Faculty of Forestry and Wood Sciences
TF	Faculty of Engineering
PEF	Faculty of Economics and Management
FTZ	Faculty of Tropical AgriSciences
CZU-R	Rectorate of the Czech University of Life Sciences Prague
IVP	Institute of Education and Communication

LIST OF INSTITUTION ABBREVIATIONS:

ČVUT – Czech Technical University
ČZU – Czech University of Life Sciences Prague
JČU – University of South Bohemia
OU – University of Defence
MIT – Massachusetts Institute of Technology
MENDELU – Mendel University
MU – Masaryk University
SUO – Silesian University in Opava
TUL – Technical University of Liberec
TUO – Technical University of Ostrava
UHK – University of Hradec Králové
UJEP – J. E. Purkyně University
UK – Charles University
UPARD – University of Pardubice
UPOL – Palacký University Olomouc
UTB – Tomas Bata University
VFU Brno – University of Veterinary Sciences Brno
VŠCHT – University of Chemistry and Technology in Prague
VŠE – Prague University of Economics and Business
VÚT – Brno University of Technology
ZČU – University of West Bohemia

02

Research projects



02 / Research projects

A total of 242 research projects from domestic and foreign sources were addressed at CZU in 2023, which is three fewer projects than in 2022, 31 more projects than in 2021 and 62 more projects than in 2020 (considering the projects registered in the CEP and development aid projects). The number of projects solved in 2023, broken down by faculties and CZU-R is shown in Chart 1. The summary includes only those projects the funds for which are administered accounting-wise by CZU (i.e. the contract number has been assigned to such projects). The breakdown of grants for domestic and foreign projects is shown in Table 1. In addition to the numbers of grants shown in the Table, grants with international participation must be added (FZP 5, FTZ 4, Rectorate 1).

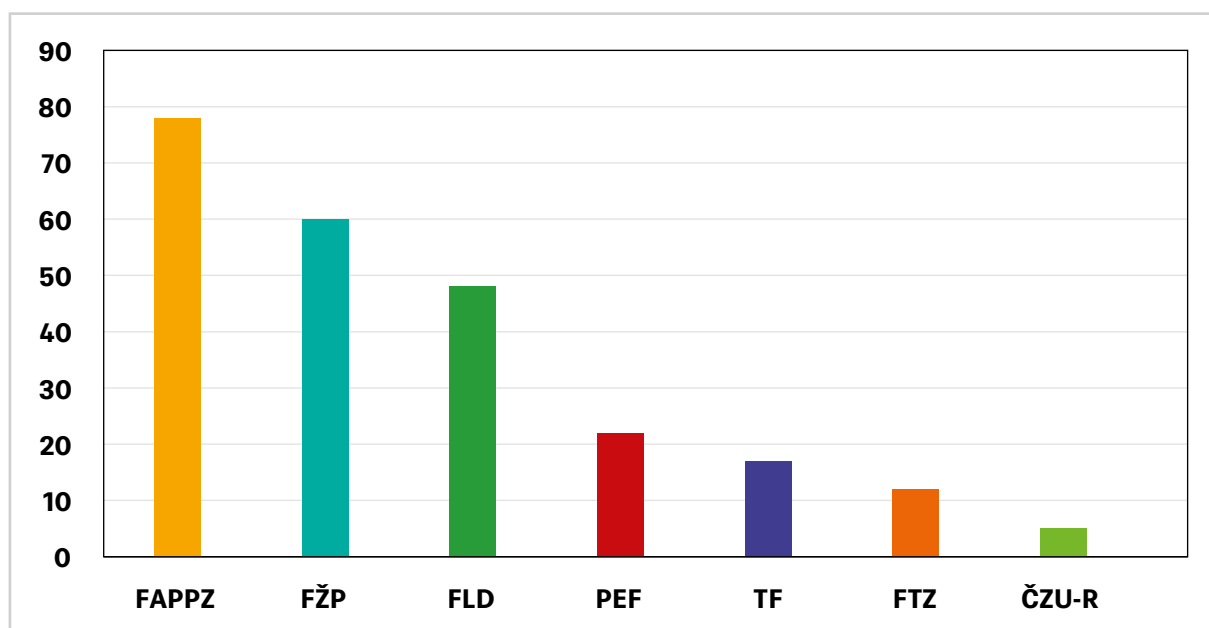
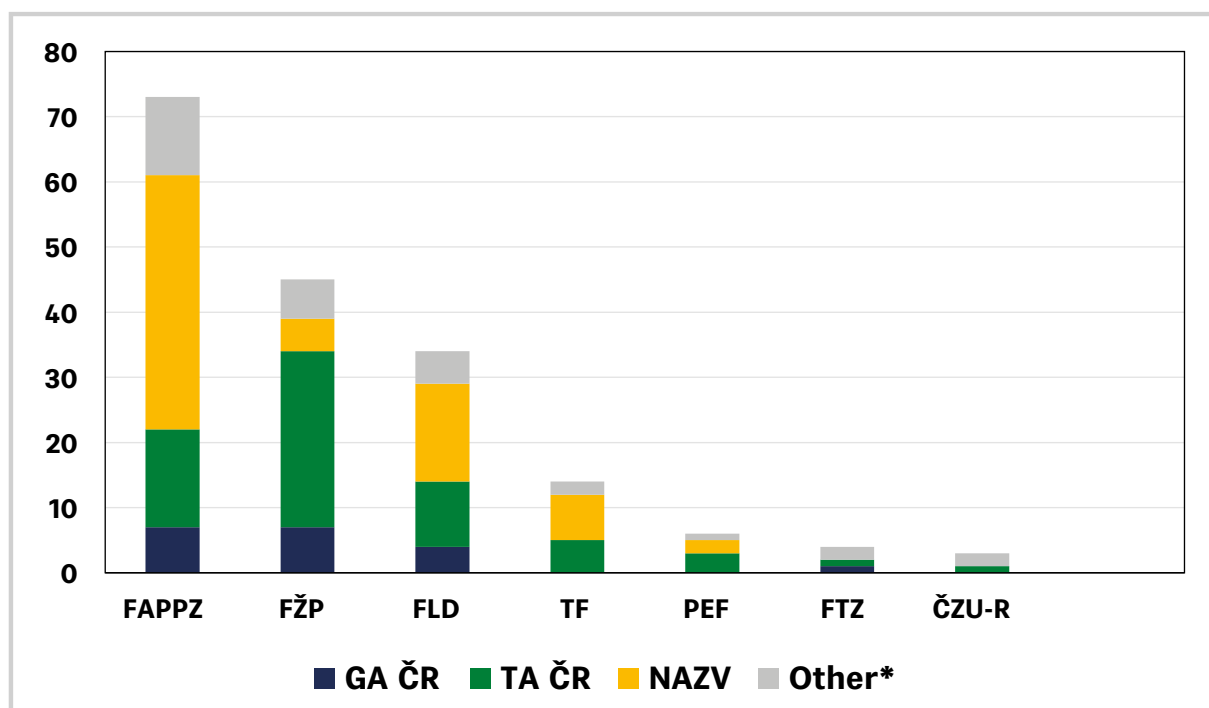


Chart 1. Number of pending research projects at CZU in 2023, broken down by faculties.

Table 1. Breakdown of domestic (CZ) and foreign (FRGN) projects in 2023 by the CZU faculties and comparison with 2018–2022.												
	2023		2022		2021		2020		2019		2018	
	CZ	FRGN	CZ	FRGN	CZ	FRGN	CZ	FRGN	CZ	FRGN	CZ	FRGN
FAPPZ	73	5	67	5	67	2	56	4	60	0	63	0
FZP	45	10	65	7	63	3	61	4	49	1	39	2
FLD	34	14	36	11	38	5	33	1	26	1	33	0
TF	14	3	14	3	17	1	14	1	7	0	16	0
PEF	6	16	2	19	10	4	12	3	15	0	8	3
FTZ	4	4	8	3	9	3	17	1	14	1	6	0
CZU-R	3	1	3	1	4	0	3	0	2	1	3	0
IVP	0	0	1	0	1	0	1	0	1	2	0	0
Total			196	49	209	18	197	14	174	6	168	5

In 2023, most of the grants were addressed via the Grant Agency of the Ministry of Agriculture (NAZV – 68 grants), Technology Agency of the Czech Republic (TAČR – 62 projects) and Grant Agency of the Czech Republic (GAČR – 19 projects). The breakdown of projects by providers is shown in Chart 2 by the individual faculties of CZU.



* The other grants include development aid projects, Ministry of Environment, Ministry of Education, Youth and Sports, Ministry of Interior and Ministry of Industry and Trade.

Chart 2. Number of projects solved in 2023 at CZU broken down by primary domestic providers.

The funds obtained by CZU in 2023 through external research projects amounted to CZK 424.554 million, which is 7.8 % less than in 2022, 4.5 % more than in 2021 and 10.6 % less than in 2020. The volume of funds obtained through research projects in 2023 and broken down by faculties, the Institute and CZU-R is shown in Chart 3.

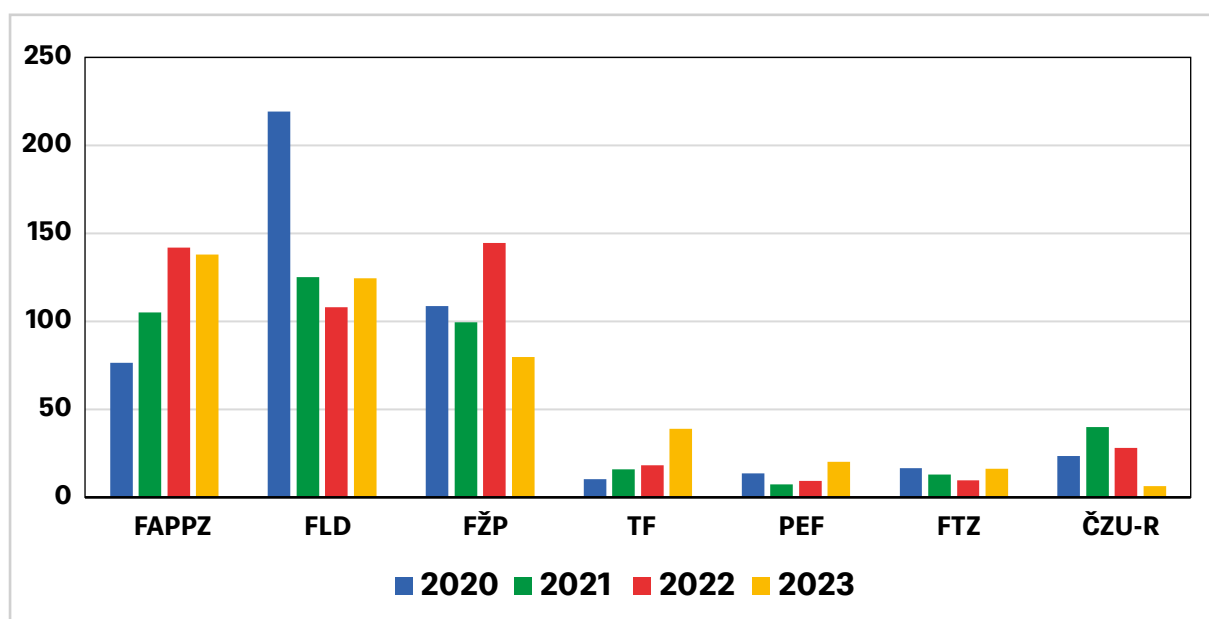


Chart 3. Funds from the CZU research projects (CZK million) in 2023, broken down by faculty in comparison to 2020, 2021 and 2022.

For a better insight into the aggregate sum of research funds of the individual faculties for research, funds from external research projects are presented together with the amount of institutional support for the development of research organisations, broken down by faculties and CZU-R. As in 2022, in 2023 CZU obtained the amount of CZK 315.417 million through institutional support for the development of research organisations, an increase by 9 % as opposed to 2021 (CZK 288.640 million). Accordingly, if the amount of the allocated institutional support is added to the funds obtained through grant agencies, **the total amount of CZU funds for science and research stood at CZK 739.971 million**, i.e. 4.9 % less than in 2022 and 6 % more than in 2021. **The share of foreign projects reached 9.3 %.**

From the HORIZON Europe programme, CZU obtained EUR 15.53 million for 2021–2024 in total, i.e. 8.35 % of the total amount distributed among universities in the Czech Republic. CZU thus ranks fifth after Masaryk University (29.2 %), Charles University (15.4 %), Czech Technical University (10.7 %) and Palacký University Olomouc (10.3 %). When calculated per FTE, CZU is placed second (EUR 15.44 thousand), after Masaryk University (EUR 22.48 thousand) and before Palacký University Olomouc (EUR 11.02 thousand), Brno University of Technology (EUR 10.55 thousand) and Czech Technical University (EUR 8.41 thousand).

Source: <https://vedavyzkum.cz>

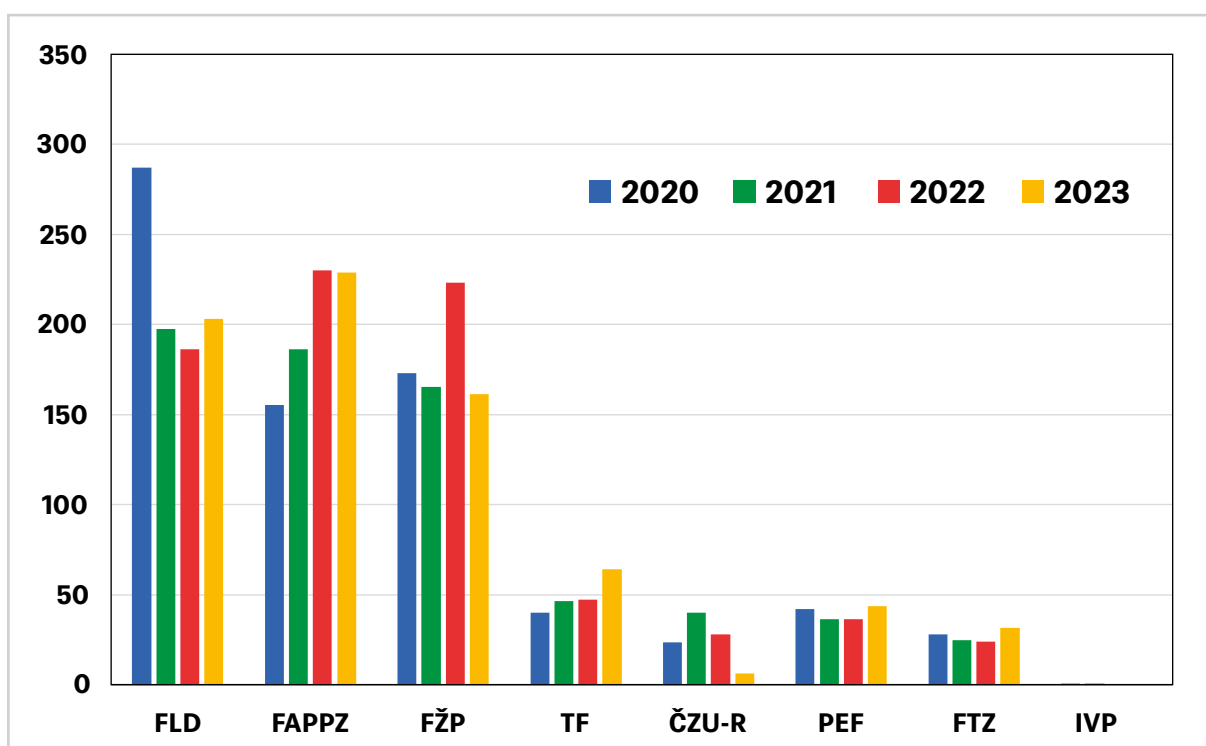


Chart 4. Funds from the CZU research projects (CZK million) in 2020–2023 increased by allocated institutional support funds, broken down by faculty.

Relatively, CZU obtained the largest portion of funds from domestic grants from NAZV (National Agency for Agricultural Research, 25 %), followed by TAČR (Technology Agency of the Czech Republic, 23 %), funds from the Operational Programmes (22 %), GAČR (Grant Agency of the Czech Republic, 12 %). The other funds were provided by the MEYS CR (Ministry of Education, Youth and Sports, 5 %), MOI CR (Ministry of Interior, 5 %) and MIT CR (Ministry of Industry and Trade, 2.5 %). The volume of funds in the projects obtained from the individual domestic grant agencies is shown in Chart 5.

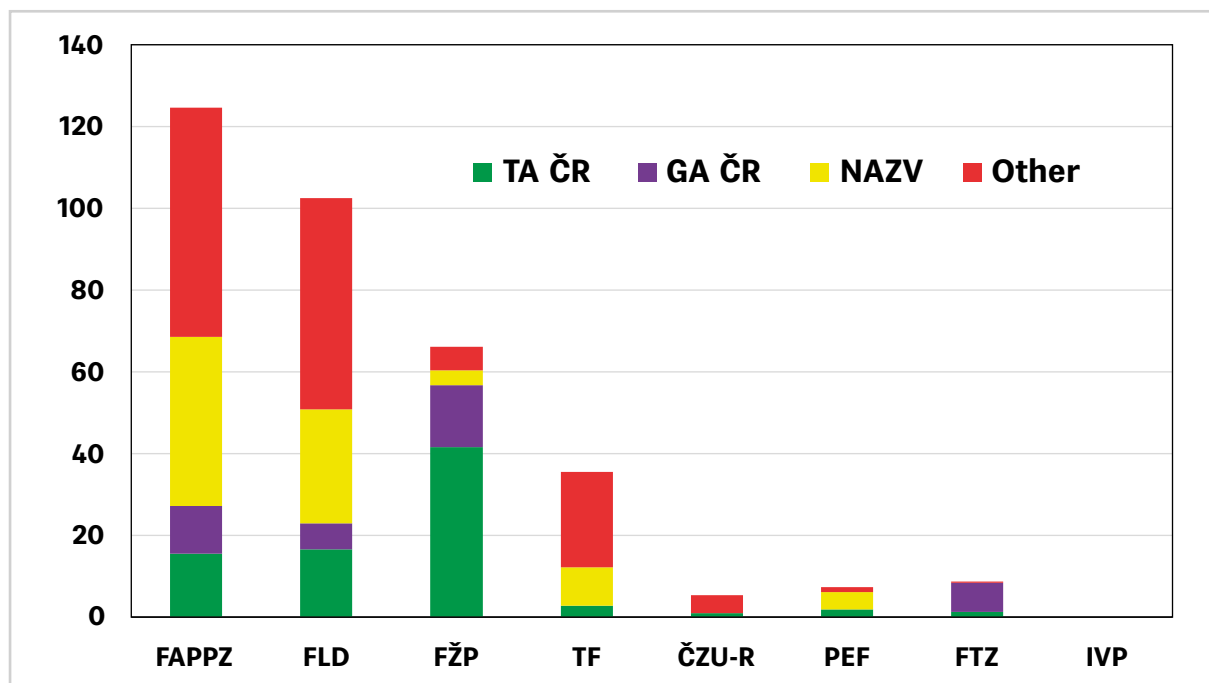


Chart 5. Funds from the CZU research projects (CZK million) in 2023 broken down by primary domestic providers.

Chart 6 illustrates the amounts from grant projects in 2021, 2022 and 2023 calculated per academic staff member of the individual faculties and the Institute.

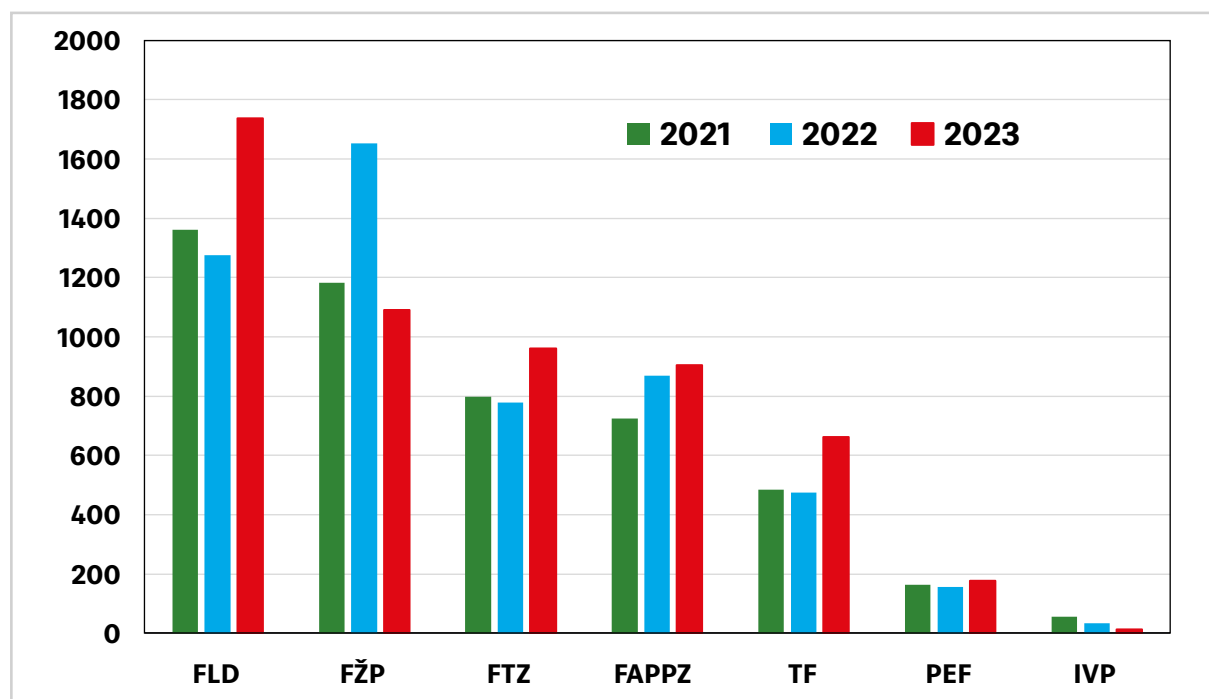


Chart 6. Grant funds (CZK thousand) obtained in 2021, 2022 and 2023 calculated per academic staff member by the individual faculties, including institutional support.

03

Students of doctoral study programmes



03 / Students of doctoral study programmes

In comparison to 2022, in 2023 the number of students of doctoral study programmes decreased by 19 students to 1,004 (including those students who have interrupted their studies), and by 81 contrasted to 2021. There were 735 active students, i.e. 46 fewer than in 2022 and 89 fewer than in 2021. The number of DSP students by faculties is provided in Table 2. The number of active DSP students as of 31 December 2023, broken down by faculty and the length of study, together with the number of supervisors and the number of students per supervisor (active supervisors, i.e. those supervisors who supervise over doctoral students, are included) are listed in Table 3. If only active students are included in the number of students per supervisor, CZU average in the number of students per supervisor stands at 2.86. If the students whose studies have been interrupted are included, the CZU average amounts to 4.91.

Table 2. Number of DSP students by faculty in 2018–2023.

Faculty	2018*	2019*	2020*	2021*	2022*	2023*
PEF	128/38	134/35	135/38	119/35	113/22	97/44
FAPPZ	188/94	198/68	223/61	236/55	225/69	213/75
TF	88/27	73/28	77/23	67/24	55/23	60/14
FZP	155/62	154/65	166/60	172/58	158/60	166/50
FLD	148/65	147/61	125/64	127/58	123/42	111/39
FTZ	77/32	90/30	101/27	103/31	107/26	88/47
CZU	784/318	796/287	827/273	824/261	781/242	735/269

* Active students/students who have interrupted their studies

Table 3. Number of DSP students as of 31 December 2023 by year of study and faculty.

Faculty	Students in regular study period				Total	Students per supervisor*		
	Year 1	Year 2	Year 3	Year 4		AS	INT	All
PEF	35	15	18	29	97	2,49	1,13	3,62
FAPPZ	54	41	53	65	213	2,92	1,03	3,95
TF	27	11	13	9	60	2,73	0,64	3,36
FZP	39	36	31	60	166	2,91	0,88	3,79
FLD	23	20	29	39	111	2,58	0,91	3,49
FTZ	23	21	10	34	88	3,83	2,04	6,05
CZU	201	144	154	236	735	2,86	1,05	4,91

* Active students/students with interrupted studies/all students

AS = active students

INT = students who have interrupted their studies

In 2023 as many as 103 students completed doctoral studies (Chart 7), which is 19 more students than in 2022 and 22 more students than in 2021. In the last five years, a total of 393 students completed doctoral studies successfully. The largest number of students graduated from the Faculty of Agrobiological Sciences (133), followed by the Faculty of Environmental Sciences (70), Faculty of Forestry and Wood Sciences (65), Faculty of Tropical AgriSciences (45), Faculty of Economics and Management (42) and Faculty of Engineering (38).

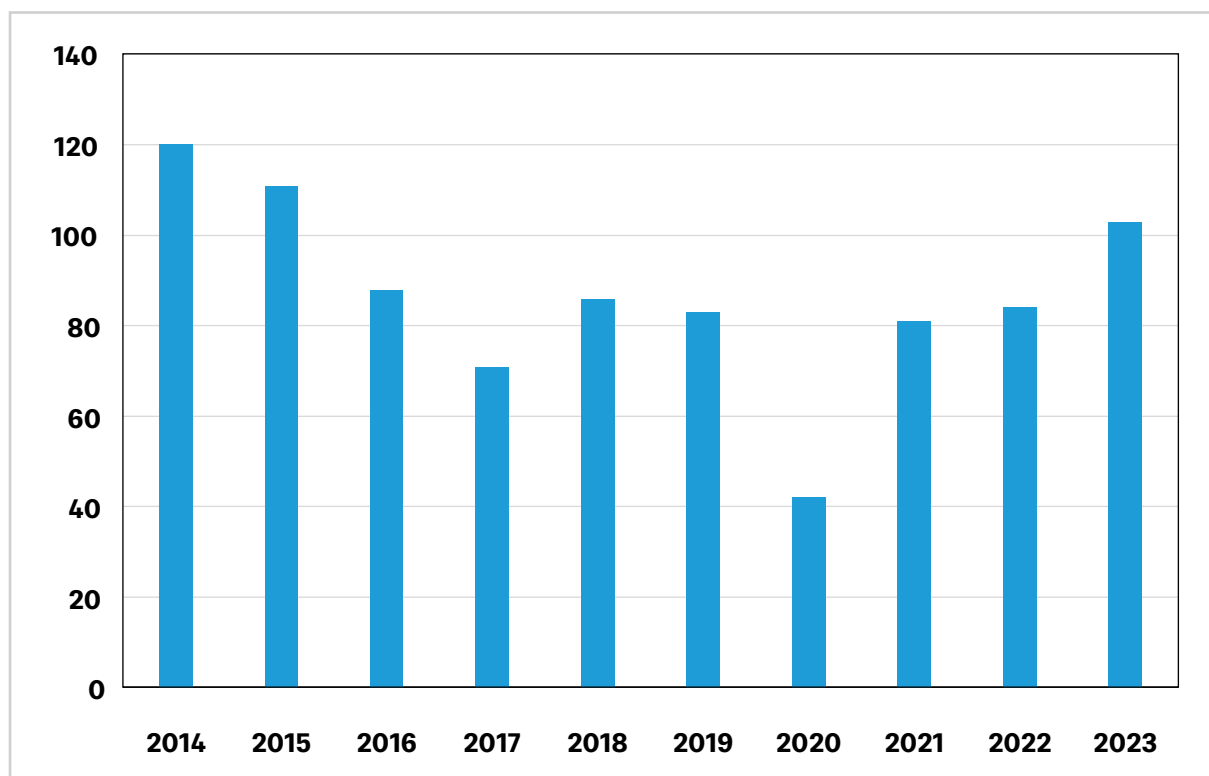
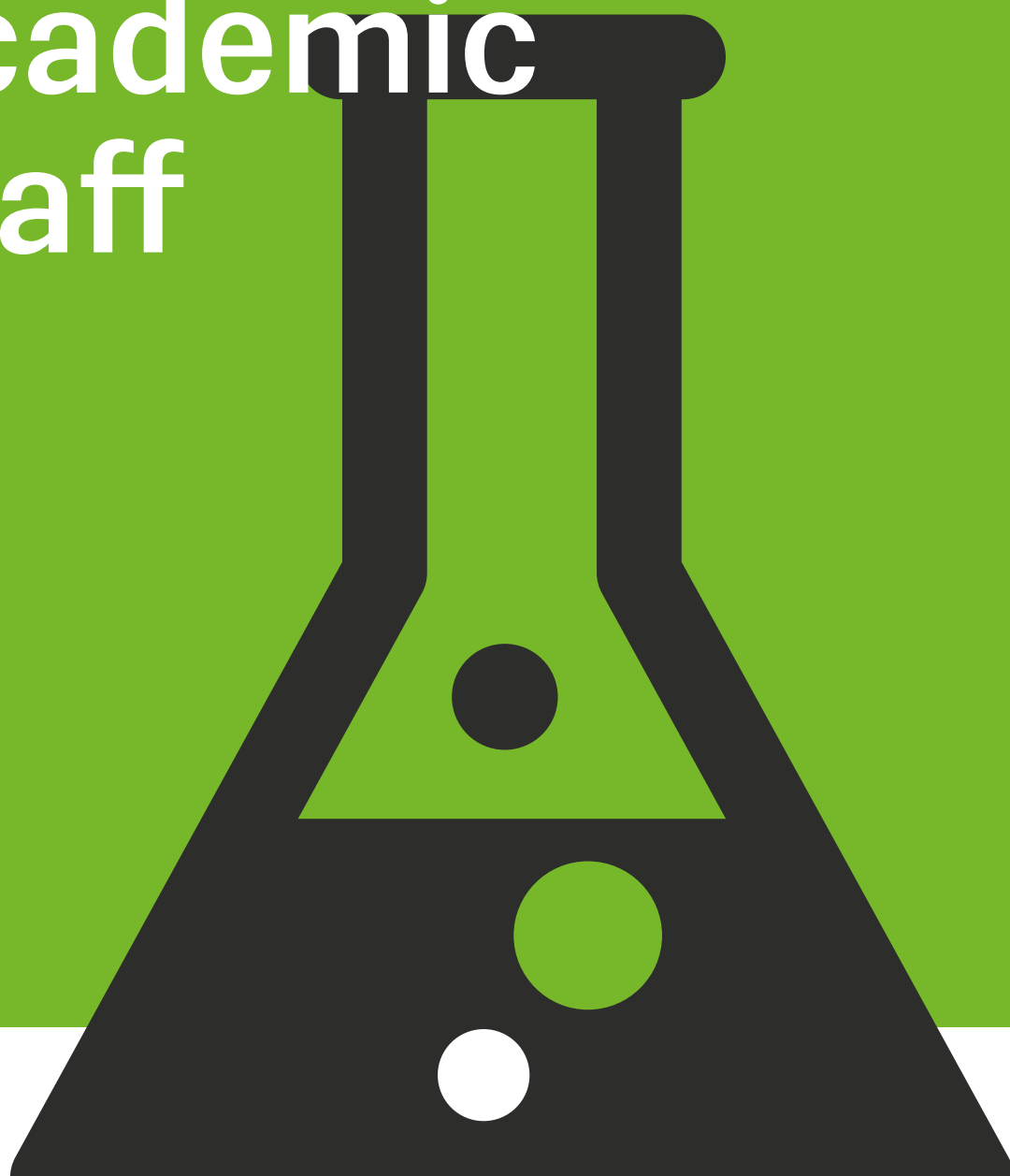


Chart 7. Number of DSP graduates in 2014–2023 at CZU.

04

Career development of the CZU academic staff



04 / Career development of the CZU academic staff

In 2023, 18 associate professorship procedures were commenced at CZU, i.e. 9 more than in the previous year, and 14 of those procedures were completed (21 associate professorship procedures were completed in 2023). In 2023 two full professorship appointment procedures were initiated (six of such procedures were commenced in 2022) and five of such procedures were completed (the same number applies to the year 2022). The number of initiated and completed associate professorship procedures and full professorship appointment procedures at the individual faculties is shown in Chart 8.

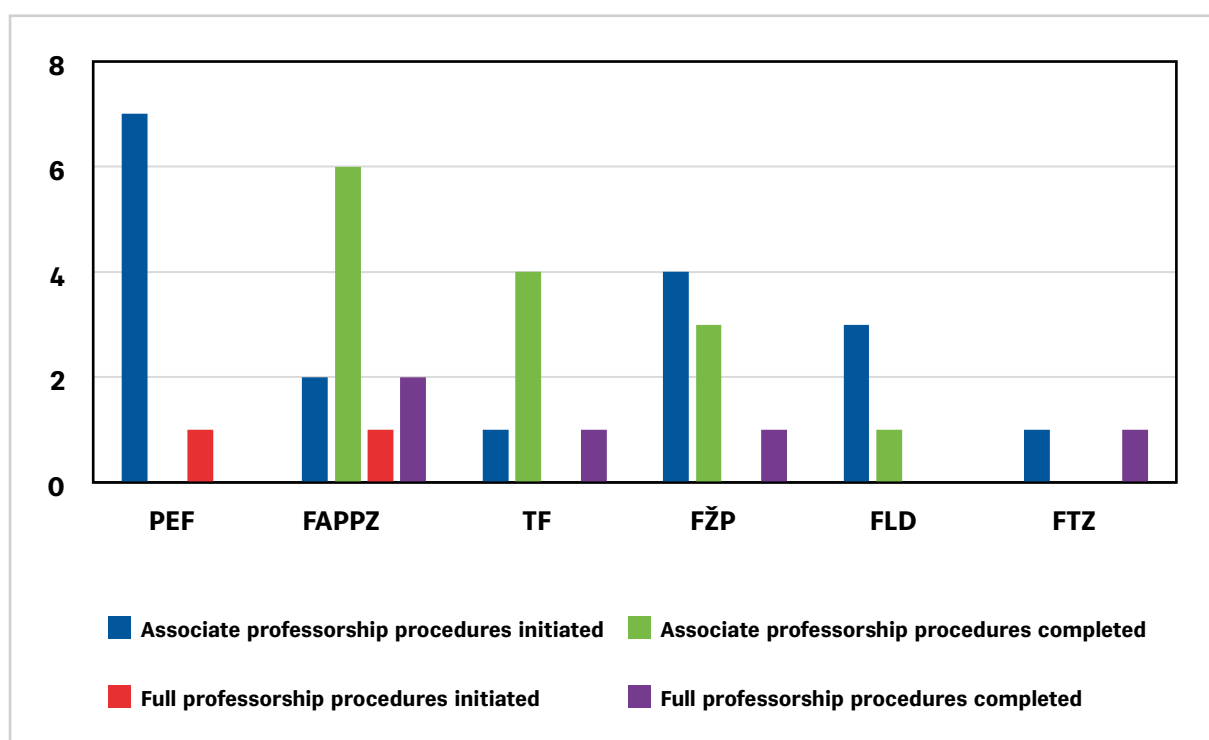


Chart 8. Number of associate professorship and full professorship procedures commenced and completed at CZU in 2023.

05

Publication activities at the CZU



05 / Publication activities at CZU

Chart 9 illustrates the development of the number of impact factor articles in Web of Science (with AIS since 2016). Only 62 articles were registered in the WoS database, while in 2023 there were 1,092 articles in the database. Compared to 2022, there were 54 more articles, but 60 fewer articles contrasted to 2021. Publication outputs by the individual faculties and the Institute are shown in Chart 10.

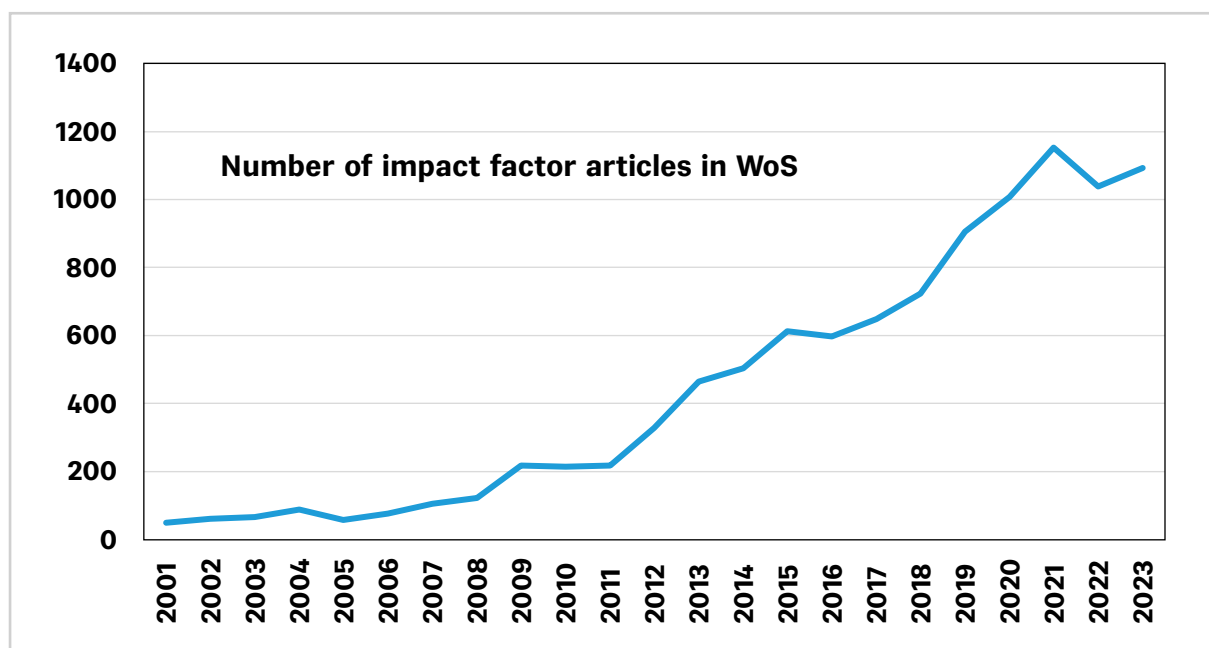


Chart 9. Number of impact factor articles in Web of Science published at CZU in 2001–2023.

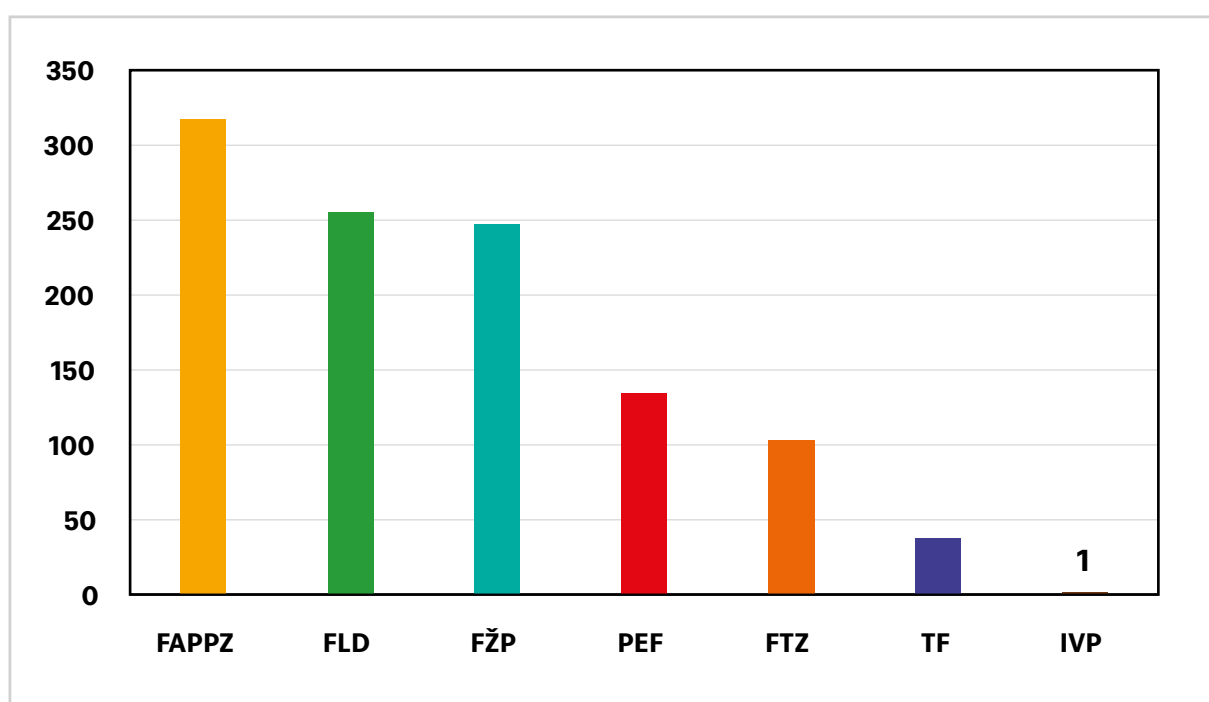


Chart 10. Number of impact factor articles in journals and registered in Web of Science databases in 2023.

Chart 11 shows the publications registered in the Web of Science database, broken down by quartile in terms of AIS in 2017–2023. **Importantly, the Chart clearly illustrates a steady increase in the number of articles in D1 category.** As opposed to 2017, the number of articles in the D1 category rose by 84 %, and by as much as 154 % in the Q1 category. In 2021, articles in Q1 and Q2 made up a full 81 % of the total number of articles in WoS. In contrast, the number of articles in Q4 decreased by a full 158 % between 2017 and 2023.

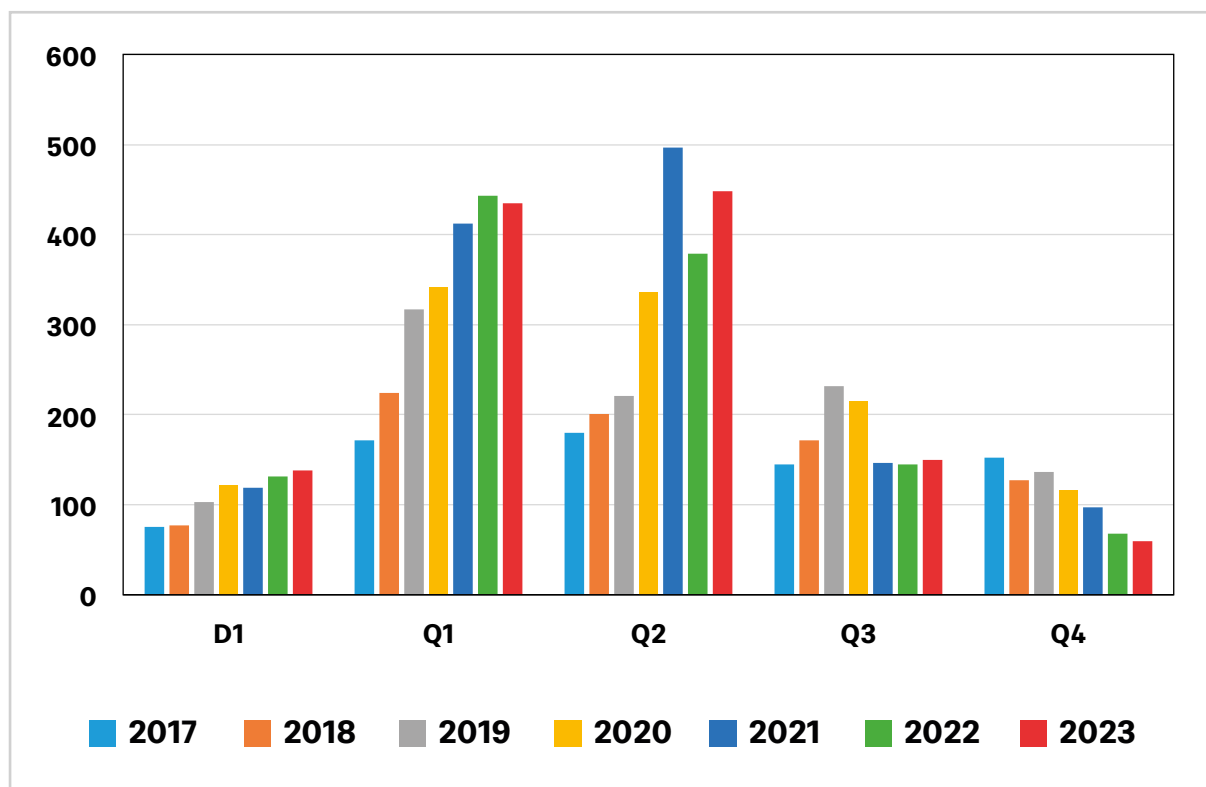


Chart 11. Number of articles written by the CZU staff, registered in Web of Science and broken down by AIS quartiles in 2017–2023. Articles in D1 category are included in the Q1 category.

The total number of articles in WoS for the individual faculties in the period 2017–2023 is shown in Chart 12. The Chart distinctly implies the increasing trend present in 2017–2023. At certain faculties, the increase in the number of articles is quite noteworthy in the period under review, while the increase is gradual for the other faculties. Chart 13 provides the number of impact factor/ AIS articles per staff member by the individual faculties, and Chart 14 illustrates the distribution of publications by the individual quartiles and deciles at the individual faculties during 2017–2023.

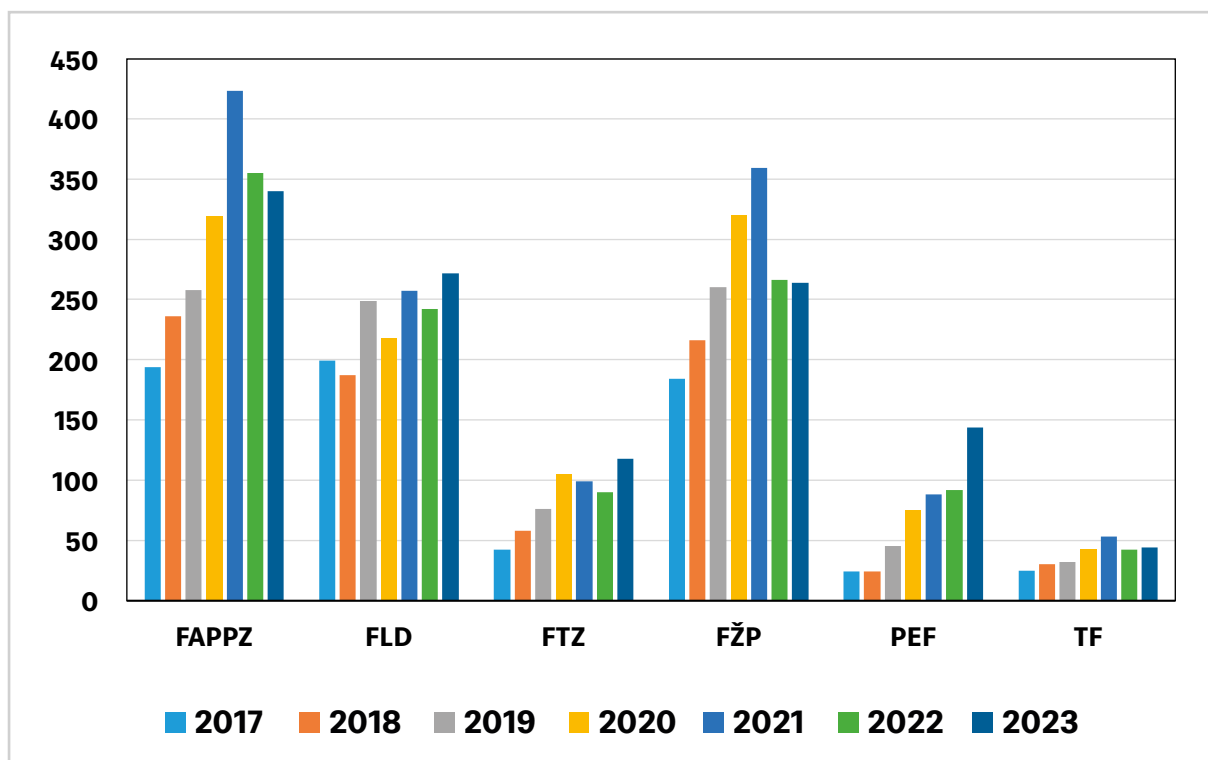


Chart 12. Total number of articles in Web of Science with IF/AIS at the individual faculties during 2017–2023 (IVP had 1 article with IF/AIS in 2023).

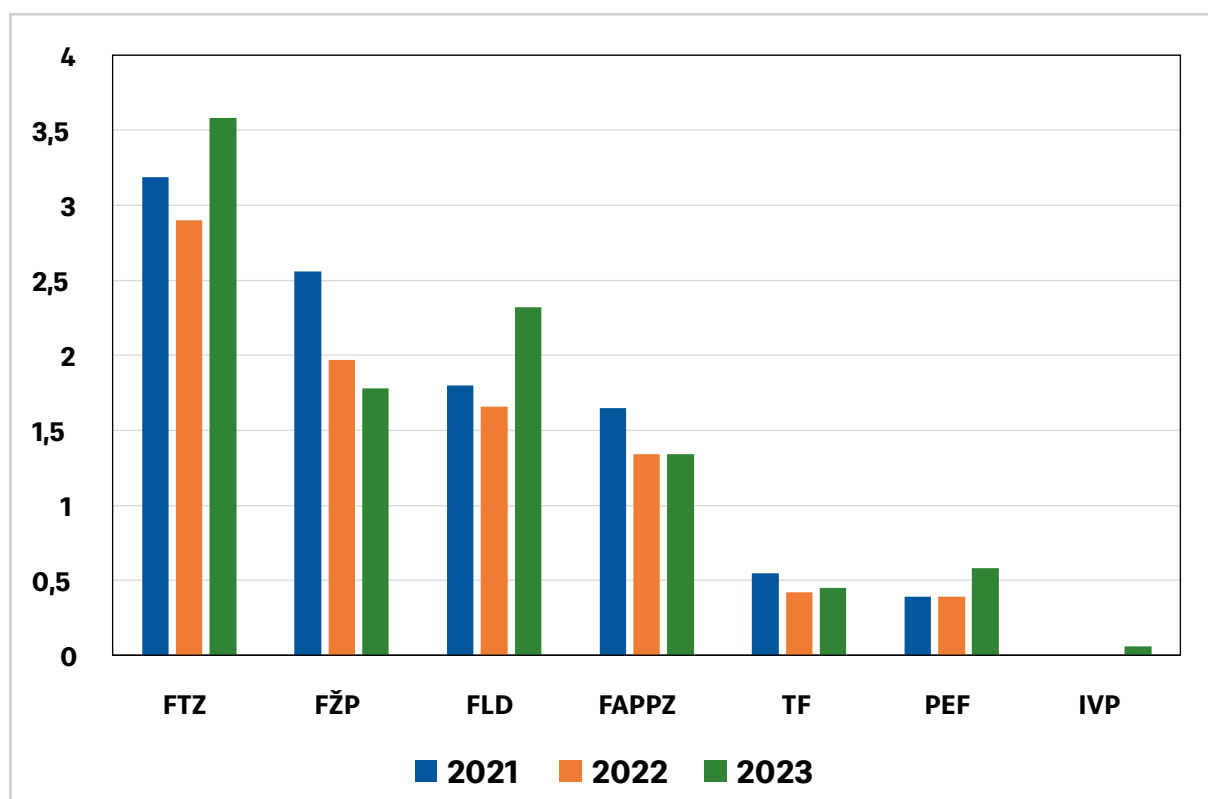


Chart 13. Number of articles with IF/AIS per academic staff member at the individual faculties of CZU in 2023 compared to 2021 and 2022.

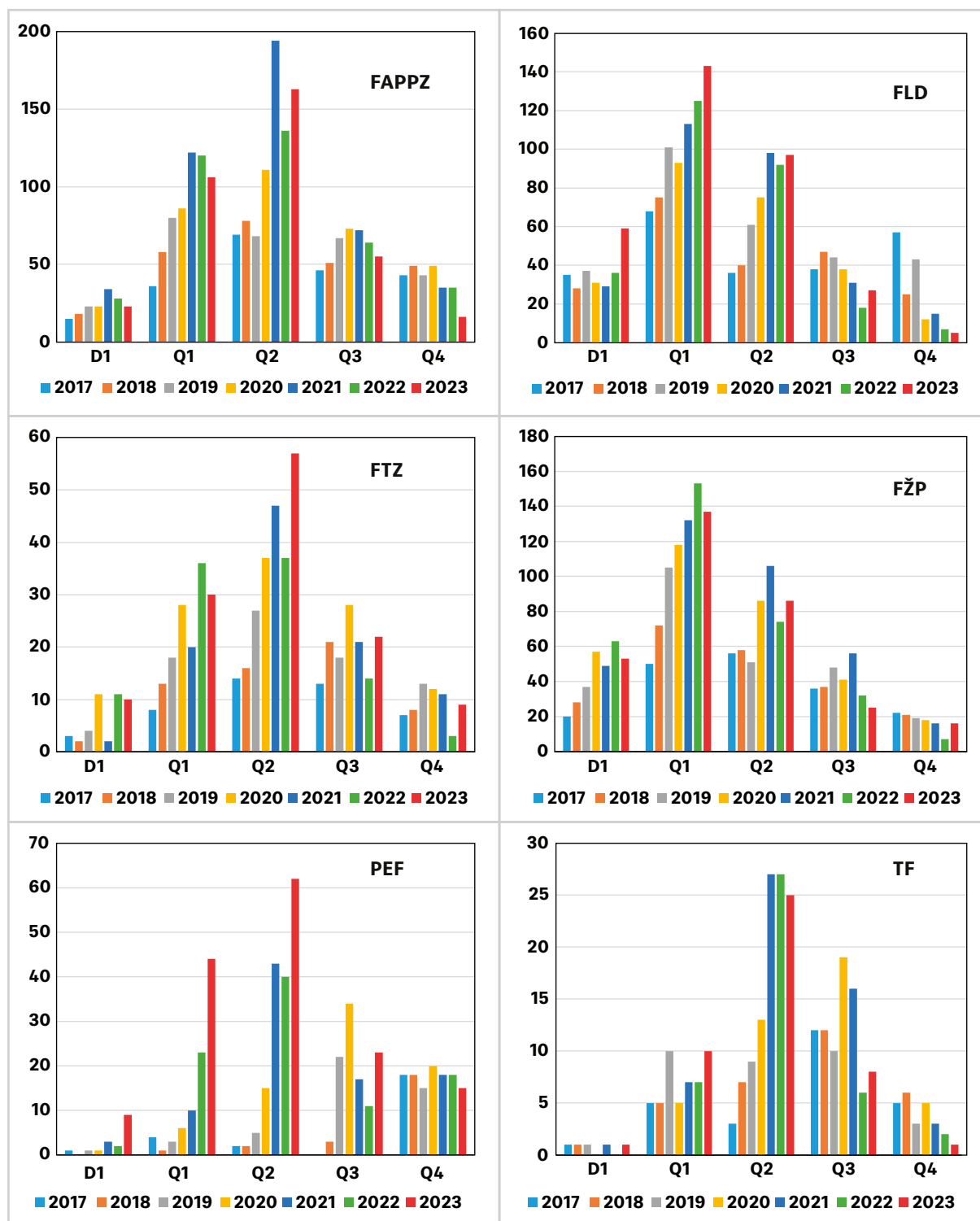


Chart 14. Distribution of publication outputs in Web of Science into quartiles by AIS for the individual faculties in 2017–2023.

Chart 15 compares CZU with nineteen universities in the Czech Republic, Euroleague for Life Sciences (ELLS) universities and selected leading world universities based on the percentage of articles in Q1 (IF) in Web of Science in 2023. **CZU ranks second among universities in the Czech Republic (63.74 %).** Compared to 2022 CZU „did worse” by losing one place; however, the number of articles in Q1 rose significantly (56.93 % in 2022). **The proportion of articles by the CZU staff members increased steadily (Chart 16): the proportion stood at a mere 16.67 % in 2003 and 32.04 % in 2013.**

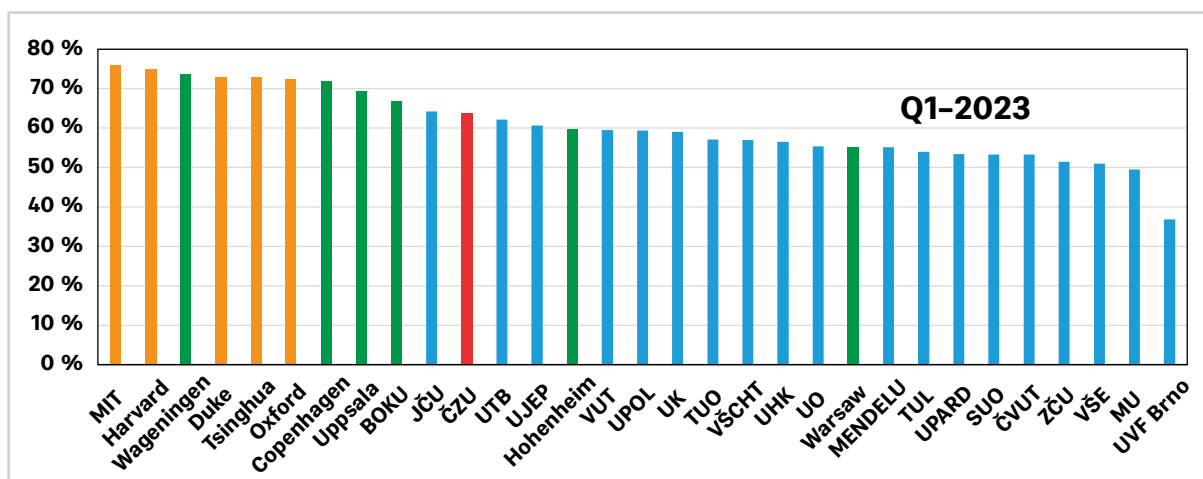


Chart 15. Percentage of articles from CZU (red) included in Q1 in Web of Science according to impact factor in 2023. For comparison, ELLS universities (green) and certain leading world universities are shown (yellow). Source: Clarivate, InCites

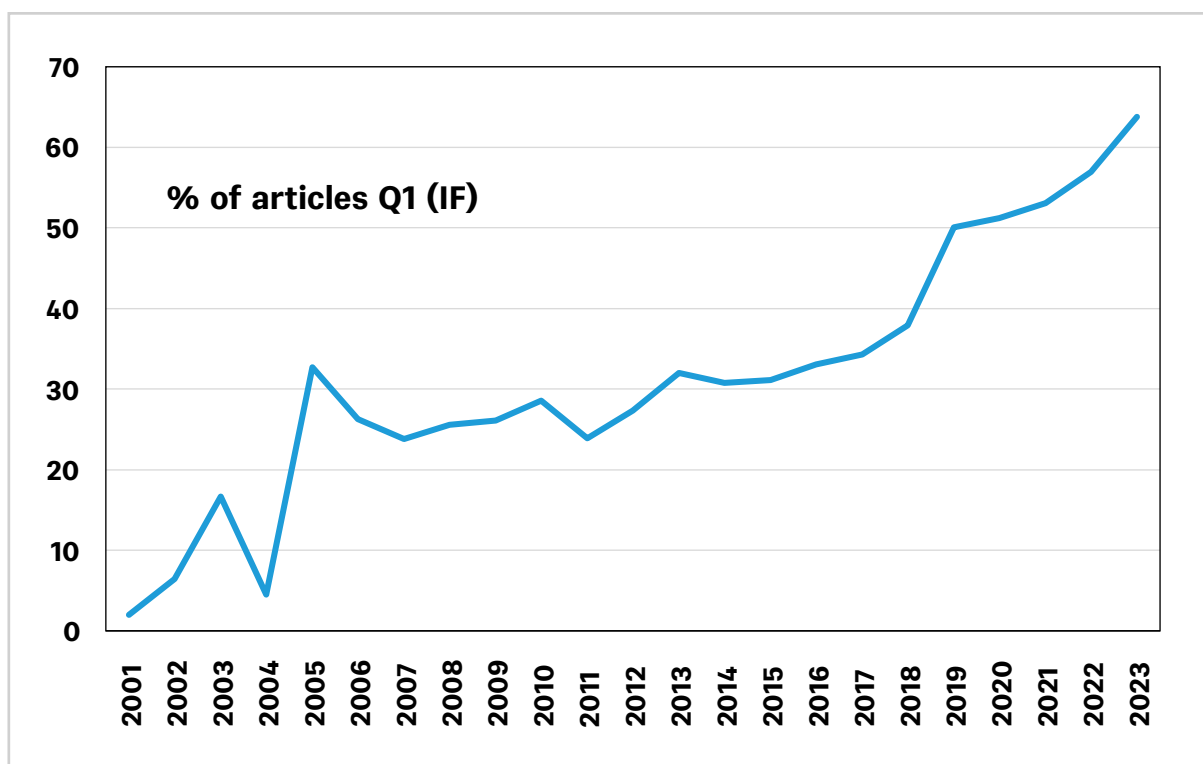


Chart 16. Percentage of articles in Q1 of the total number of articles published by the CZU staff members in 2001–2023. Source: Clarivate, InCites.

Chart 17 demonstrates the development of the number of publications by the CZU staff members in Q1 according to Web of Science during 2001–2023. An increasing trend over the whole period is clearly shown in the Chart. **While only one article was published in Q1 at CZU in 2001, that number stood at 698 in 2023.**

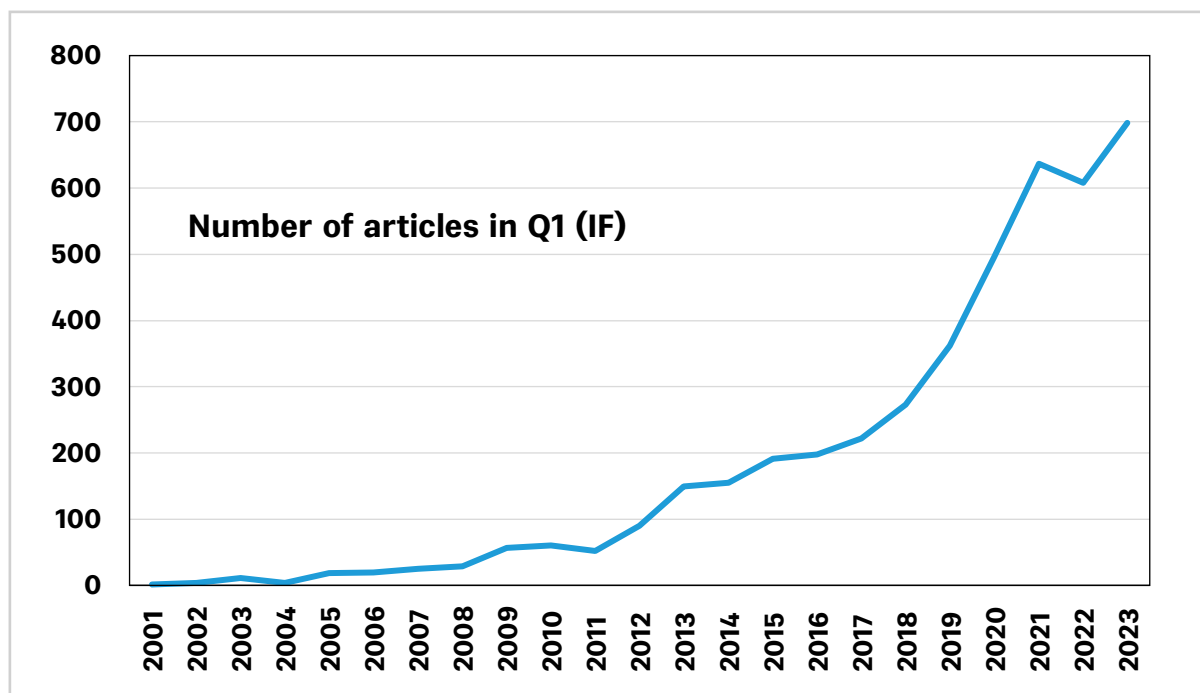


Chart 17. Number of publications of the CZU staff members in Q1 according to WoS during 2001–2023.
Source: Clarivate, InCites.

Chart 18 presents a similar comparison for articles that were classified in the first decile D1. **In 2023, CZU improved its position among universities in the Czech Republic** (ranking second compared to the fifth place in 2022), and **the percentage of articles in D1 increased on a year-on-year basis from 11.29 % to 12.59 %**. Needless to say, this is a significant increase contrasted with 2010 since in that year, CZU ranked in the 17th place among Czech universities (6.13 %).

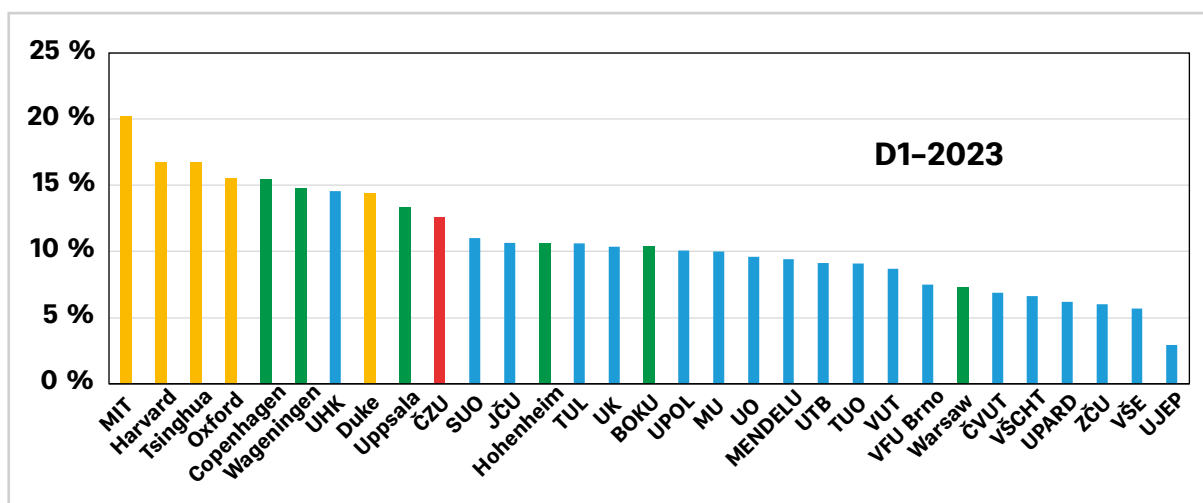


Chart 18. Percentage of articles from CZU (red) included in Q1 in Web of Science according to impact factor in 2023. For comparison, Euroleague universities (green) and certain leading world universities are shown (yellow).
Source: Clarivate, InCites.

Chart 19 shows the development of the number of articles by the CZU staff members in D1 category for the period 2001–2023. **In 2001, only one article was classified in the D1 category, and as many as 142 in 2023.** This constitutes an increase by 17 articles in comparison with the previous year, but the total of 161 articles was published in D1 in 2021. **The percentage of articles in the D1 category rose from 3.45 % in 2001 to 12.59 % in 2023** (Chart 20). This is the third best result since 2001, as more articles were published in D1 only in 2021 (13.12 %) and in 2020 (12.8 %).

In CWTS Leiden Ranking 2024, which assesses 1,506 major universities the world over, in 2019–2023 CZU was placed the second in terms of the percentage of articles published in D1 according to WoS (8.1 %), preceded by the University of South Bohemia (8.7 %) and followed by Palacký University Olomouc (7.9 %), Masaryk University (7.4 %) and Charles University (7.3 %).

Source: <https://vedavyzkum.cz>

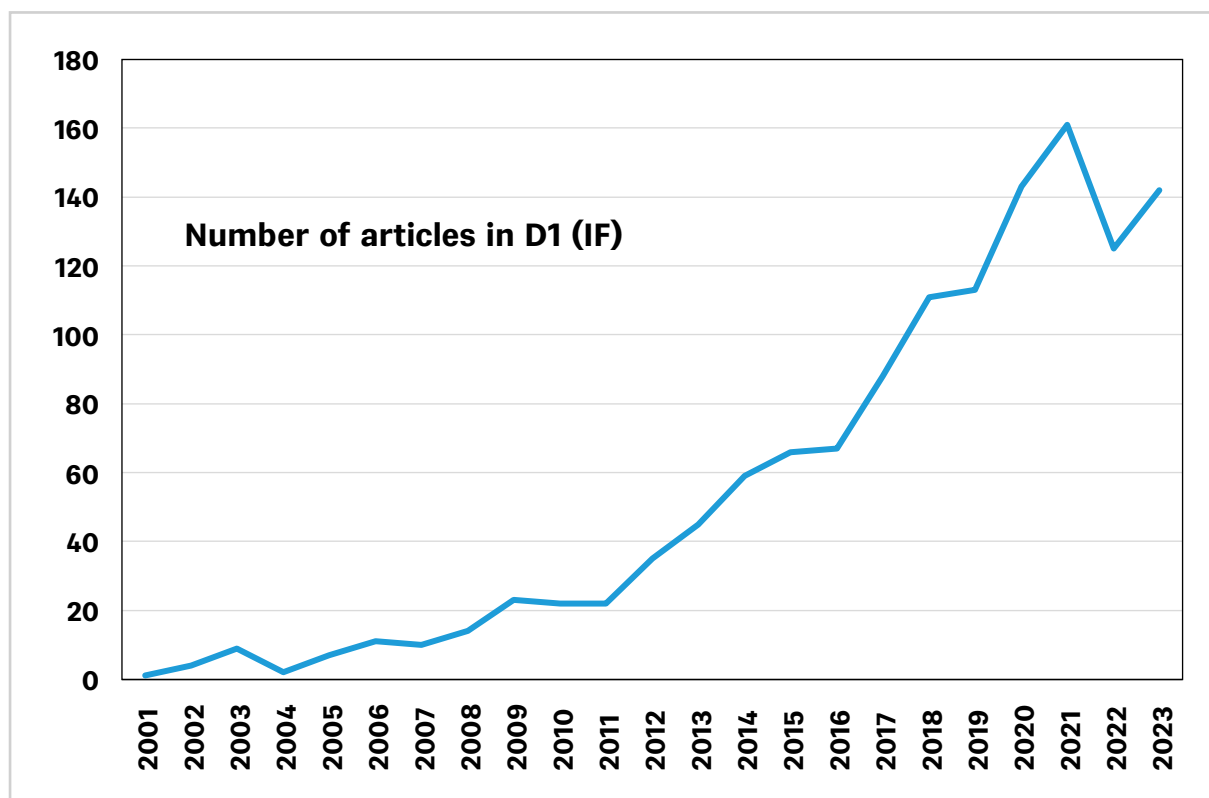


Chart 19. Number of publications of the CZU staff members according to WoS (IF) in 2001–2023.
Source: Clarivate, InCites.

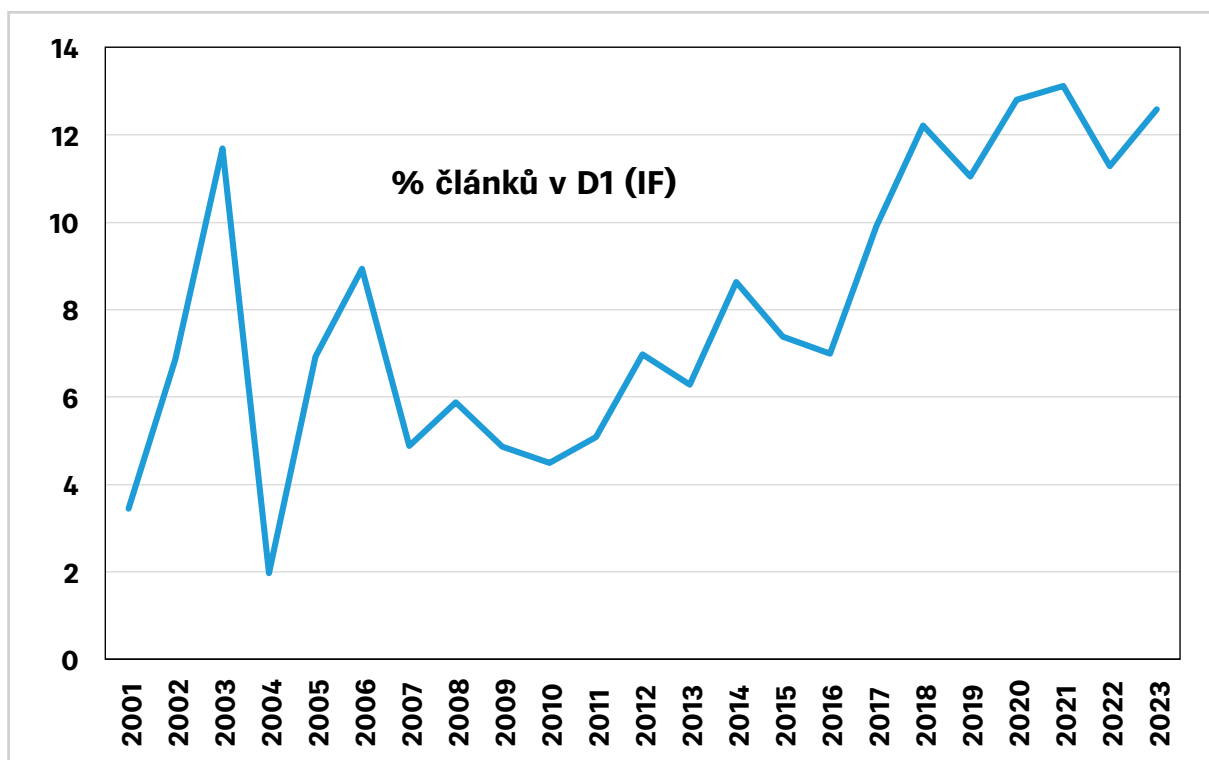


Chart 20. Percentage of articles in Q1 of the total number of articles published by the CZU staff members in 2001–2023. Source: Clarivate, InCites.

In addition to the increasing proportion of articles in D1 and Q1, the improvement of quality of articles by the CZU staff members is inevitably reflected in a considerable reduction in the proportion of articles in Q4 (Chart 21). **In 2023 it was a mere 1.92 %, and in this respect, CZU has the third lowest proportion of Q4 articles of all universities in the Czech Republic.** The year 2014 marked a trend of a significant decrease in the number of articles in the Q4 category (Chart 22) and, in particular, a noteworthy decrease in the percentage volume of Q4 articles. **In 2004 72.73 % of articles were placed in Q4 category, while this year, that number stood at 1.92 %** (Chart 23).

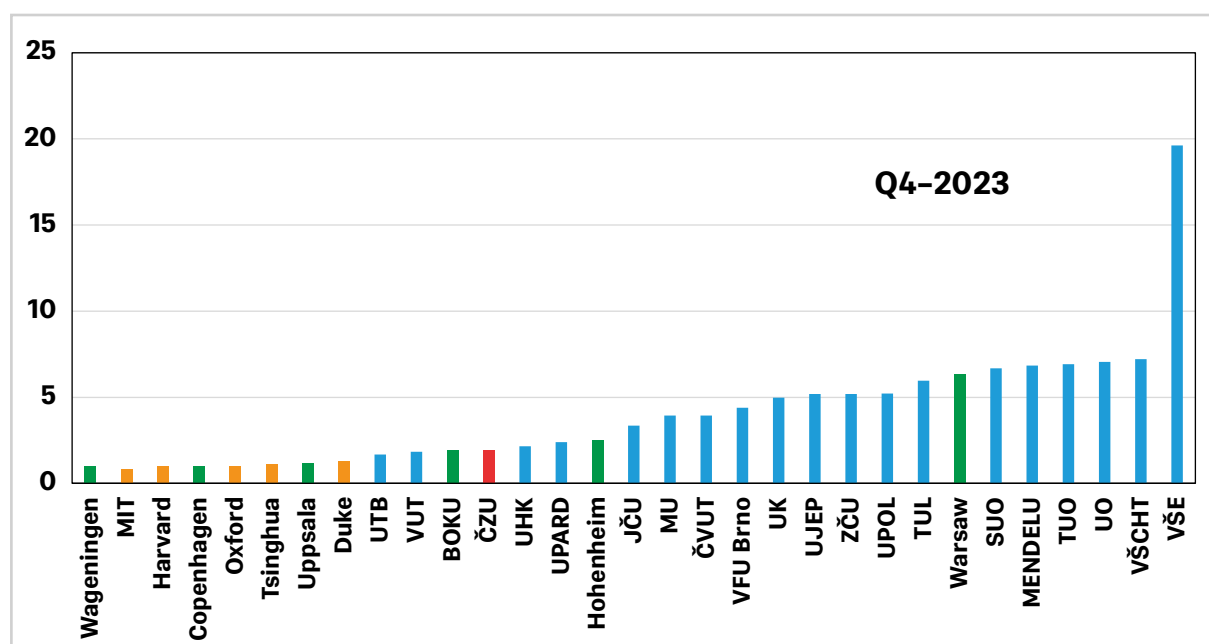


Chart 21. Percentage of articles from CZU (red) included in Q4 in Web of Science according to impact factor in 2023. For comparison, ELLS universities (green) and certain leading world universities are shown (yellow). Source: Clarivate, InCites.

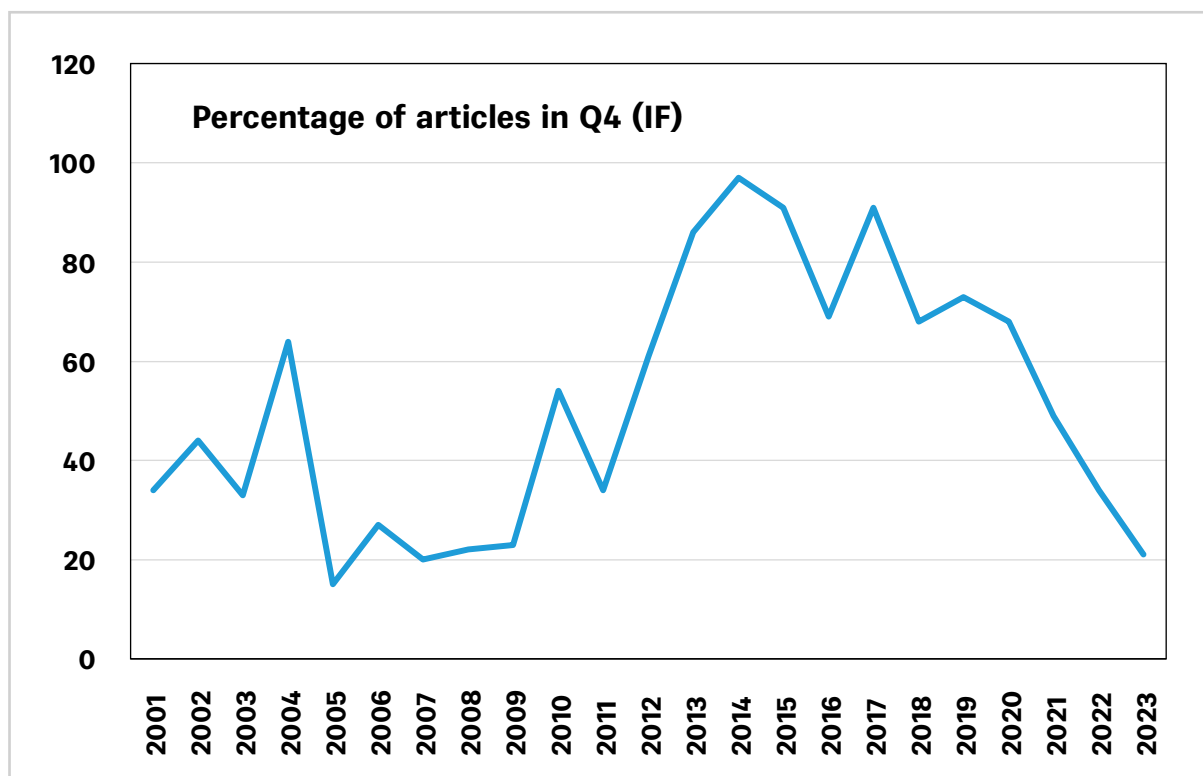


Chart 22. Number of publications of the CZU staff members in Q4 according to WoS in 2001–2023.
Source: Clarivate, InCites.

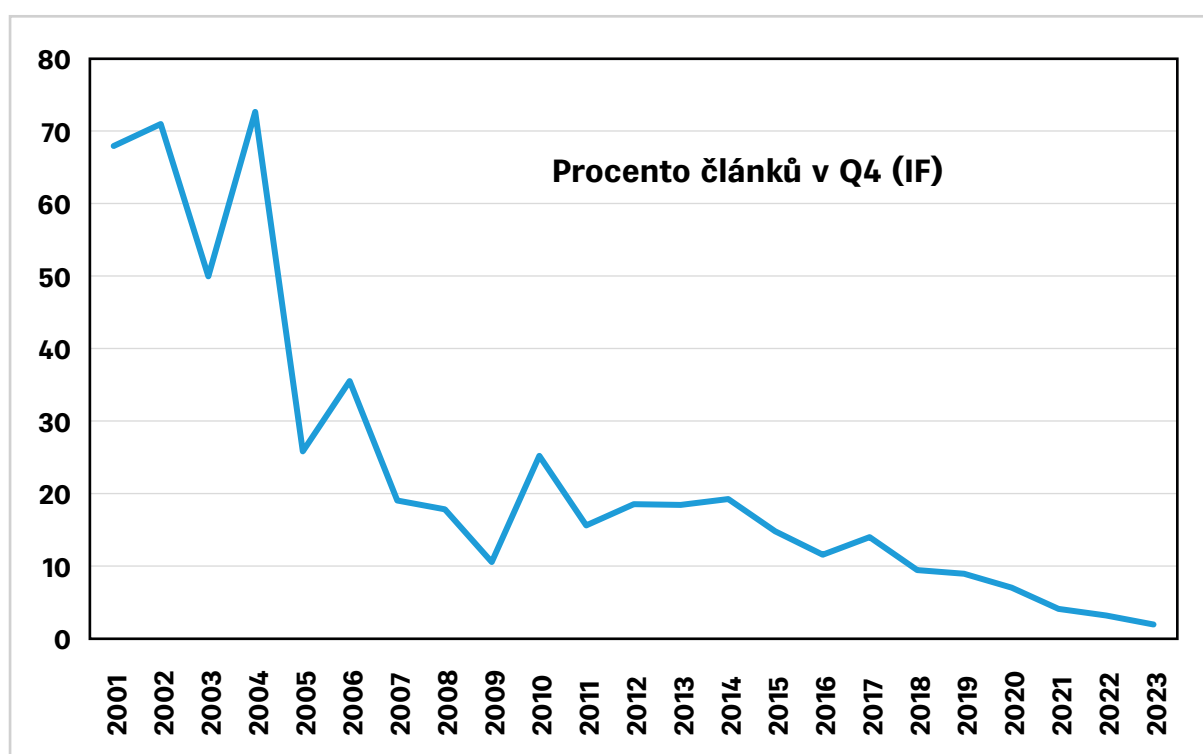


Chart 23. Percentage of articles in Q4 of the total number of articles published by the CZU staff members in 2001–2023. Source: Clarivate, InCites.

06

Results of applied research



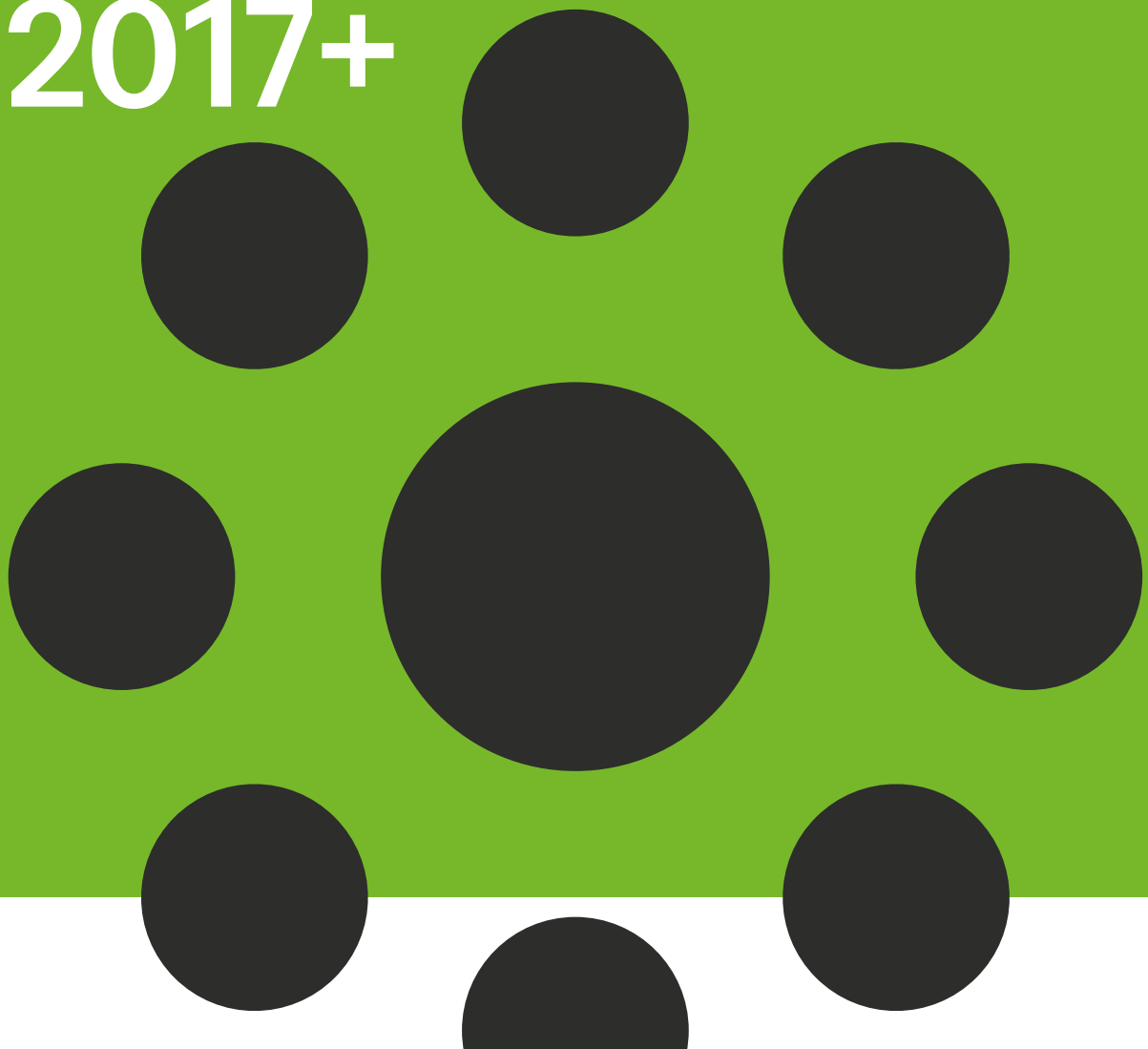
06 / Results of applied research

Results of applied research of the following types: book and chapter in book, patent, utility model, certified method, software, research report, conference proceeding and publication outputs of the type Jsc (SCOPUS) for 2023 are shown Table 4.

Table 4: Results of applied research in 2023 at CZU.								
Faculty	Book + chapter in book	Patent	Utility model	Certified methodology	Software	Research report	Conference proceeding	SCOPUS
PEF	35	0	2	2	2	3	75	15
FAPPZ	14	3	2	12	4	46	3	6
TF	4	1	4	0	0	5	5	6
FŽP	3	0	6	1	5	2	3	0
FLD	7	4	1	1	1	19	12	3
FTZ	2	0	0	0	0	0	2	3
IVP	3	0	0	0	0	0	1	0

07

Evaluation of Module 1 according to Methodology 2017+



07 / Evaluation of Module 1 according to Methodology 2017+

Table 5 provides the evaluation of CZU outputs classified as „quality results“ in 2016–2021. The aforementioned Table implies that the period under review is characterised by a slight improvement in the average evaluation (3.36 in 2016, 2.72 in 2021). **The increase in results evaluated as levels 1 and 2 is encouraging – in 2021 the proportion of such evaluated outputs was 42 %, while only 27 % in 2020.**

Note: The evaluation of Module 1 has been set up such that the evaluation for the given year is not published until two years later, i.e. the evaluation of outputs for 2021 was published in 2023.

The qualitative scale for the evaluation criteria „**contribution to knowledge**“:

- (1) Results that are world-leading in terms of originality, significance and difficulty to obtain the same.
- (2) Results that are internationally excellent but do not reach the highest level of excellency in terms of originality, significance and difficulty to obtain the same.
- (3) Results that are recognised internationally in terms of originality, significance and difficulty to obtain the same.
- (4) Results that are recognised nationally in terms of originality, significance and difficulty to obtain the same.
- (5) Results that fail to meet the standard of nationally recognised work.

The qualitative scale for the evaluation criteria „**societal relevance**“ is as follows:

- (1) Results that are world leading, the practical evaluation of which will bring a fundamental change with an international economic impact (there is a realistic assumption of broad application on several foreign markets, etc.), or a change with an extraordinary international impact on society (there is a realistic assumption of fundamental application at the international level in areas of public interest).
- (2) Results that are excellent, the practical application of which will bring a change with an international economic impact (there is a realistic assumption of application on the international market, etc.), or a change with a substantial impact on society (there is a realistic assumption of fundamental application in areas of public interest).

- (3) Results at a very good level, the practical application of which will bring a change with an economic impact on the Czech market or a change with an impact on society (there is a realistic assumption of application in areas of public interest).
- (4) Results at an average level, the practical application of which will bring a partial change with an economic impact on the Czech market or a partial change with an impact on the Czech society (there is a realistic assumption of partial application in areas of public interest).
- (5) Results at a below-average level, the practical application of which will unlikely bring any changes with an economic impact or any changes with an impact on the Czech society (there is no realistic assumption of application in areas of public interest).

Table 5. Evaluation of Module 1 according to Methodology 2017+ in 2016–2021.

Evaluation	1	2	3	4	5	Average
2016	0	4	12	5	4	3,36
2017	0	14	15	14	4	3,17
2018	4	11	15	8	3	2,87
2019	1	15	13	10	2	2,93
2020	3	9	19	12	1	2,98
2021	4	11	13	7	1	2,72
Total	12	64	87	56	15	234

The weighted average evaluation of CZU in the individual years stood at: 3.36 (2016), 3.17 (2017), 2.87 (2018), 2.93 (2019), 2.98 (2020) and 2.72 (2021).



08

Shanghai University Ranking

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08 / Shanghai University Ranking

The Shanghai University Ranking (ARWU, The Academic Ranking of World Universities) has been published by Shanghai Jia Tong University since 2003. Beginning from 2009 the ARWU is published every year by Shanghai Ranking Consultancy, an organisation that is legally independent of all universities. The Shanghai ranking is widely regarded one of the three major university rankings, along with the QS World University Rankings and Times Higher Education World University Rankings. The Shanghai Ranking is understood as the most objective in terms of the methodology applied; however, the size of universities is not taken into account.

Criteria used for the Shanghai Ranking:

University alumni winning the Nobel Prize (100 % after 2011)	10 %
University staff winning the Nobel Prize (100 % after 2021)	20 %
„Highly Cited“ researchers (Clarivate, primary affiliation only)	20 %
Articles published in Nature and Science (2018–2022, 100 % for the institution of the corresponding author, 50 % for the institution of the first author, unless corresponding, 25 % for another institution, 10 % for other institutions)	20 %
Papers indexed in „Science Citation Index-Expanded and Social Science Citation index“ (Web of Science, Clarivate)	20 %
Per capita academic performance of an institution (FTE)	10 %

Table 6 shows the rankings of Czech Universities in the Shanghai Ranking 2020–2023. The Shanghai Ranking compasses approximately 2,500 top universities worldwide and the ranking of the top thousand universities is published every year. The year 2023 saw a gratifying increase of CZU, which switched from the category **801–900 to the category 601–700, and within Czech universities, CZU moved to a tie in the third place.**

Table 6. Ranking of Czech universities according to the Shanghai Ranking in 2020–2023. Ranking of universities in the Czech Republic is given for the year 2023					
	Ranking in CZ in 2023	2020	2021	2022	2023
Charles University	1.	201–300	201–300	301–400	301–400
Masaryk University	2.	601–700	601–700	401–500	401–500
Czech University of Life Sciences (CZU)	3.–4.	801–900	801–900	801–900	601–700
Palacký University Olomouc	3.–4.	501–600	701–800	701–800	601–700
Brno University of Technology	5.		701–800	901–1000	701–800
Czech Technical University	6.	701–800	801–900	801–900	801–900
Technical University of Ostrava			901–1000	901–1000	
University of South Bohemia		901–1000		901–1000	
University of Chemistry and Technology in Prague		901–1000			

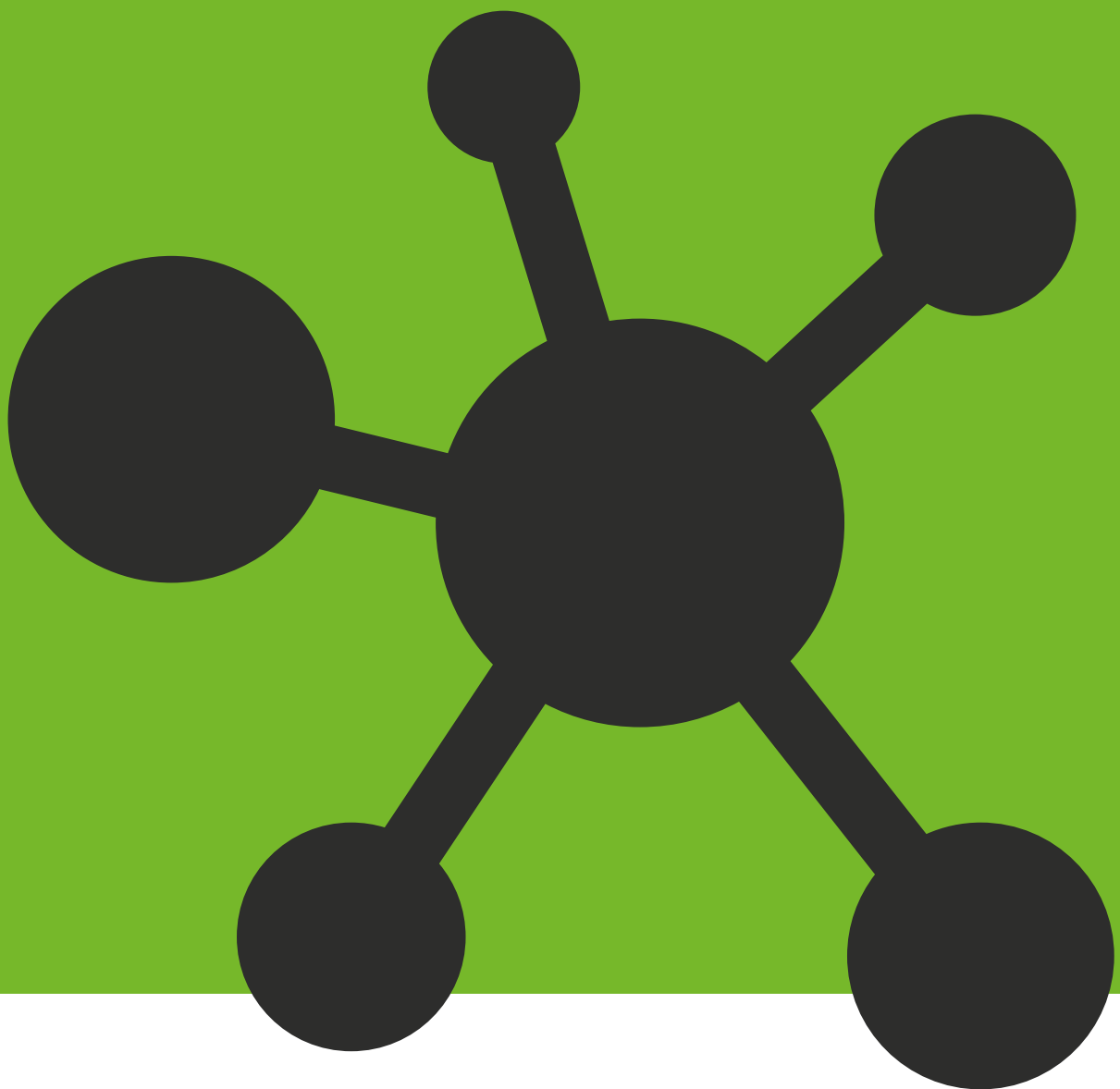
In the Shanghai Ranking Subjects, CZU was ranked in a total of seven areas in 2023, which is the third highest number after Charles University (17 areas) and Masaryk University (13 areas). The other universities included in this ranking are Palacký University Olomouc (5 areas), Brno University of Technology (4 areas) and Czech Technical University (3 areas).

CZU ranked in the individual disciplines as follows:

Agricultural Sciences:	51–75 (best ranking among all disciplines for a Czech university)
Ecology:	101–150
Atmospheric Sciences:	151–200
Geography, Veterinary Sciences:	201–300
Earth Sciences, Environmental Science and Technology:	301–400

09

Summary



09 / Summary

The funds obtained by CZU in 2023 through external research projects totalled CZK 424.557 million. If the amount of the allocated institutional support is added to the funds obtained through grant agencies, the total amount of the CZU funds for science and research stood at CZK 739.971 million, i.e. 4.9 % less than in 2022 and 6 % more than in 2021. **The share of foreign projects reached 9.3 %.** Overall, as many as 242 research projects from both domestic and foreign sources were resolved at CZU in 2023, i.e. 3 fewer projects than in 2022, 31 more projects than in 2021 and 62 more projects than in 2020. Most of the grants were addressed via the Grant Agency of the Ministry of Agriculture (NAZV – 68 grants), Technology Agency of the Czech Republic (TAČR – 62 projects) and Grant Agency of the Czech Republic (GAČR – 19 projects).

Compared to 2022, the number of students of doctoral study programmes (DSP) dropped in 2023 by 19 students to 1,004 students (including students who have interrupted their studies) and by 81 in contrast with 2021. In 2023, 103 students completed doctoral studies, which is 19 more students than in 2022 and 22 more students than in 2021. In the last five years, a total of 393 students completed doctoral studies successfully. The largest number of students graduated from the Faculty of Agrobiological Sciences (133), followed by the Faculty of Environmental Sciences (70), Faculty of Forestry and Wood Sciences (65), Faculty of Tropical AgriSciences (45), Faculty of Economics and Management (42) and Faculty of Engineering (38).

In 2023, 18 associate professorship procedures were commenced at CZU, i.e. 9 more than in the previous year, and 14 of those procedures were completed (21 associate professorship procedures were completed in 2022). In 2023 two full professorship appointment procedures were initiated (six of such procedures were commenced in 2022) and five of such procedures were completed (as in 2022). In 2023, the staff members of CZU published a total of 1,092 scientific publications with IF/AIS, registered in the WoS database. As opposed to 2022, there were 54 more articles, but 60 fewer articles compared to 2021.

In 2023, CZU improved its position among universities in the Czech Republic regarding the evaluation of the proportion of articles in D1 (ranking second in comparison with the fifth place in 2022), and the percentage of articles in D1 increased on a year-on-year basis from 11.29 % to 12.59 %. CZU was ranked second among universities in the Czech Republic (63.74 %) in the evaluation of the proportion of articles in Q1. In comparison to 2022 CZU „did worse“, losing one place; however, the number of articles in Q1 rose significantly (56.93 % in 2022).

The evaluation of results of Module 1 according to Methodology 2017+ shows a slight improvement in the average evaluation (3.36 in 2016, 2.72 in 2021) during the period under review (2016–2021). The increase in results evaluated as levels 1 and 2 is encouraging - in 2021 the proportion of such evaluated outputs was 42 %, while only 27 % in 2020. As CZU moved from category 801–900 to the category 601–700, the year 2023 marked its gratifying increase in the evaluation of universities according to the Shanghai Ranking, and within Czech universities, CZU tied in the third place. CZU was ranked in seven disciplines up to the 400th place, and in Agricultural Sciences, CZU was ranked between the 51st and 75th places, the best result of all Czech universities.





Czech University
of Life Sciences Prague

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