

EXECUTIVE SUMMARY

Tables 1-6 in the Scientific Results section contain data about publications indexed in the WOS database. Indexing is delayed, so the final data on publications can be expected in approximately 4/2023. Impact factors and classification in tiers and quartiles for 2022 will be issued approximately in 5-7/2023. The final data in Table 4 will be filled in after the impact factors issue. After this date, a regular bibliometric and Table 7 contains data on awards of CEITEC MU employees and PhD students. CEITEC researchers are successful in obtaining internal as well as external awards. Increasing the number of internal awards might The CEITEC PhD Students section with tables 8 and 9 contains data on PhD students. Detailed information Part of Eval. Scientific Excellence is filled once every 4 years (see Table 10) when the evaluation of scientific excellence is taking place. In 2022, the methodology of the evaluation was changed.

The Training section state the number of organized Training for the PhD students. The number of training provided by external partners has still increased. The tables showed data on training for PhD students, and Table 13 - TechTransfer: the table shows basic numbers of non-publication (application) results of CEITEC MU. Detailed info about technology transfer (knowledge transfer, intellectual property, business development, etc.) can be found in the regular report and scouting report. Observed trend: since the beginning of the Covid pandemic, we have observed (not only at CEITEC, but also at other faculties) a The methodology of data is described in a separate list.

Evaluation of Scientific Excellence

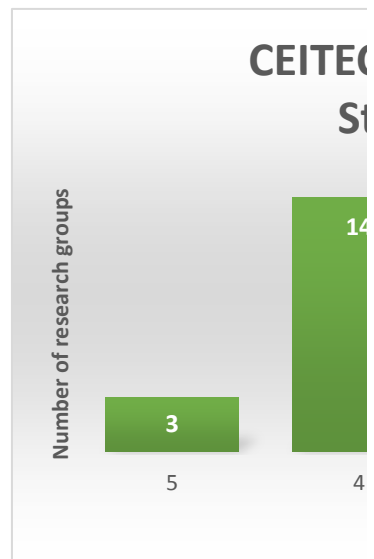
Reported period: 2012-2022

Table 10 *Evaluation of Scientific Excellence (reported once per 4 years)*

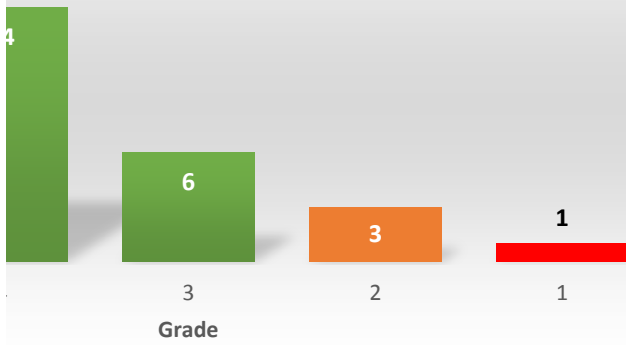
| Evaluation Grade | 2012 | | 2014 | | 2018 | |
|-----------------------------|------------------------------|-------------|------------------------------|-------------|------------------------------|-------------|
| | Research Group in Each Grade | | Research Group in Each Grade | | Research Group in Each Grade | |
| | # | % | # | % | # | % |
| A1 | 5 | 18% | 7 | 18% | 5 | 17% |
| A2 | 7 | 25% | 8 | 21% | 13 | 43% |
| A3 | 6 | 21% | 9 | 24% | 8 | 27% |
| B | 8 | 29% | 11 | 29% | 4 | 13% |
| C | 2 | 7% | 3 | 8% | 0 | 0% |
| D | 0 | 0% | 0 | 0% | 0 | 0% |
| E | 0 | 0% | 0 | 0% | 0 | 0% |
| Total RGLs Evaluated | 28 | 100% | 38 | 100% | 30 | 100% |

| Evaluation Grade | 2022 Research Group in Each Grade | |
|------------------|---|-------------|
| | # | % |
| 5 | 3 | 11% |
| 4 | 14 | 52% |
| 3 | 6 | 22% |
| 2 | 3 | 11% |
| 1 | 1 | 4% |
| | 27 | 100% |

| Evaluation grade | No. |
|------------------|-----|
| 5 | 3 |
| 4 | 14 |
| 3 | 6 |
| 2 | 3 |
| 1 | 1 |



C MU Evaluation 2022: structure of grades



Scientific Results (reported annually, end of year)

Reported period: 2011-2022 (2023*)

Table 1 Publications

| | 2011 Total # | 2012 Total # |
|--------------|-----------------|-----------------|
| Publications | 87 | 232 |

* values were calculated in February 2024 and will be updated in June 2024!

Table 2 Corresponding Authorship for CEITEC MU

| | 2011 | |
|--|------|-----|
| | # | % |
| Corresponding authorship for CEITEC MU | 58 | 67% |

* values were calculated in February 2024 and will be updated in June 2024!

Table 3 Publications with International Collaboration

| | 2011 | |
|---|------|-----|
| | # | % |
| Publications with international collaboration | 29 | 33% |

Table 4 Q1, T5, T10

| | 2011 | |
|--------------|------|-----|
| | # | % |
| Publications | | |
| Q1 | 32 | 37% |
| T5 | 7 | 8% |
| T10 | 17 | 20% |

* Q1, T5 and T10 values were calculated in February 2024 and will be updated in June 2024!

Table 5 Open Access

| | 2011 | |
|-------------|------|----|
| | # | % |
| Open access | 7 | 8% |

Table 6 Citation Impact for CEITEC MU

| | 2011 # | 2012 # |
|--|-----------|-----------|
| Citation impact for CEITEC MU ² | 0.96 | 1.33 |

² Category normalized citation impact (CNCI)

Table 7 Awards

| | 2011 | |
|---------------------|------------|------------|
| | Internal # | External # |
| Awards ³ | 4 | 2 |

³ internal = MU, external = others

| 2013 Total # | 2014 Total # | 2015 Total # | 2016 Total # | 2017 Total # |
|-----------------|-----------------|-----------------|-----------------|-----------------|
| 288 | 296 | 318 | 323 | 299 |

| 2012 | | 2013 | | 2014 |
|------|-----|------|-----|------|
| # | % | # | % | # |
| 133 | 57% | 169 | 58% | 153 |

| 2012 | | 2013 | | 2014 |
|------|-----|------|-----|------|
| # | % | # | % | # |
| 83 | 36% | 126 | 44% | 149 |

| | 2012 | | | | 2013 |
|--|--------------|------|--|--------------|------|
| Publications with corresponding authorship for CEITEC MU | Publications | | Publications with corresponding authorship for CEITEC MU | Publications | |
| | # | % | | # | % |
| | 16 | 43% | 49 | 43% | 126 |
| | 3 | 5.6% | 5 | 5.6% | 20 |
| | 9 | 19% | 23 | 19% | 55 |

| 2012 | | 2013 | | 2014 |
|------|-----|------|-----|------|
| # | % | # | % | # |
| 28 | 12% | 42 | 15% | 46 |

| 2013 # | 2014 # | 2015 # | 2016 # | 2017 # |
|-----------|-----------|-----------|-----------|-----------|
| 1.18 | 1.11 | 1.30 | 1.20 | 1.23 |

| 2012 | | 2013 | | 2014 |
|------------|------------|------------|------------|------------|
| Internal # | External # | Internal # | External # | Internal # |
| 5 | 5 | 14 | 2 | 11 |

| 2018 Total # | 2019 Total # | 2020 Total # | 2021 Total # | 2022 Total # | 2023 * Total # |
|-----------------|-----------------|-----------------|-----------------|-----------------|-------------------|
| 319 | 343 | 312 | 330 | 242 | 196 |

| | 2015 | | 2016 | | 20 |
|-----|------|-----|------|-----|-----|
| % | # | % | # | % | # |
| 52% | 157 | 49% | 157 | 49% | 138 |

| | 2015 | | 2016 | | 20 |
|-----|------|-----|------|-----|-----|
| % | # | % | # | % | # |
| 50% | 166 | 53% | 183 | 57% | 180 |

| 2013 | | 2014 | | | |
|------|--|--------------|------|--|--------|
| | Publications with corresponding authorship for CEITEC MU | Publications | | Publications with corresponding authorship for CEITEC MU | Public |
| % | # | # | % | # | # |
| 44% | 58 | 153 | 52% | 70 | 173 |
| 6.9% | 4 | 22 | 7.4% | 8 | 24 |
| 19% | 20 | 53 | 18% | 24 | 70 |

| | 2015 | | 2016 | | 20 |
|-----|------|-----|------|-----|----|
| % | # | % | # | % | # |
| 16% | 62 | 19% | 48 | 15% | 60 |

| 2018 # | 2019 # | 2020 # | 2021 # |
|-----------|-----------|-----------|-----------|
| 1.24 | 1.06 | 1.12 | 1.20 |

| | 2015 | | 2016 | | 20 |
|------------|------------|------------|------------|------------|------------|
| External # | Internal # | External # | Internal # | External # | Internal # |
| 12 | 7 | 2 | 11 | 4 | 8 |

| 17 | 2018 | | 2019 | | 20 |
|-----|------|-----|------|-----|-----|
| % | # | % | # | % | # |
| 46% | 156 | 49% | 163 | 48% | 128 |

| 17 | 2018 | | 2019 | | 20 |
|-----|------|-----|------|-----|-----|
| % | # | % | # | % | # |
| 60% | 204 | 64% | 195 | 58% | 209 |

| 2015 | | 2016 | | | |
|--------|--|--------------|--|--------|-----|
| ations | Publications with corresponding authorship for CEITEC MU | Publications | Publications with corresponding authorship for CEITEC MU | Public | |
| % | # | # | % | # | |
| 54% | 81 | 173 | 54% | 76 | 162 |
| 7.5% | 4 | 35 | 10.8% | 9 | 34 |
| 22% | 28 | 75 | 23% | 24 | 65 |

| 17 | 2018 | | 2019 | | 20 |
|-----|------|-----|------|-----|-----|
| % | # | % | # | % | # |
| 20% | 77 | 25% | 116 | 34% | 131 |

| 17 | 2018 | | 2019 | | 20 |
|------------|------------|------------|------------|------------|------------|
| External # | Internal # | External # | Internal # | External # | Internal # |
| 4 | 9 | 7 | 6 | 5 | 11 |

| 20 | 2021 | | 2022 | | 202 |
|-----|------|-----|------|-----|-----|
| % | # | % | # | % | # |
| 41% | 132 | 40% | 95 | 39% | 69 |

| 20 | 2021 | | 2022 | |
|-----|------|-----|------|-----|
| % | # | % | # | % |
| 67% | 195 | 59% | 138 | 57% |

| 2017 | | 2018 | | | |
|--------|--|--------------|--|--------|-----|
| ations | Publications with corresponding authorship for CEITEC MU | Publications | Publications with corresponding authorship for CEITEC MU | Public | |
| % | # | # | % | # | |
| 54% | 80 | 156 | 49% | 16 | 153 |
| 11.4% | 14 | 27 | 8.5% | 9 | 23 |
| 22% | 32 | 74 | 23% | 32 | 64 |

| 20 | 2021 | | 2022 | |
|-----|------|-----|------|-----|
| % | # | % | # | % |
| 42% | 148 | 45% | 162 | 69% |

| 20 | 2021 | | 2022 | |
|------------|------------|------------|------------|------------|
| External # | Internal # | External # | Internal # | External # |
| 4 | 15 | 4 | 23 | 5 |

| |
|------|
| 23 * |
| % |
| 41% |

| 2019 | | 2020 | | | 2021 | |
|--------------|--|--------------|-------|--|--------------|------|
| Publications | Publications with corresponding authorship for CEITEC MU | Publications | | Publications with corresponding authorship for CEITEC MU | Publications | |
| | # | # | % | # | # | % |
| 45% | 62 | 166 | 53% | 65 | 161 | 49% |
| 6.7% | 5 | 35 | 11.2% | 11 | 27 | 8.2% |
| 19% | 25 | 75 | 24% | 26 | 73 | 22% |

| 1 | 2022 | | | 2023* | | |
|--|--------------|-----|--|--------------|-----|--|
| Publications with corresponding authorship for CEITEC MU | Publications | | Publications with corresponding authorship for CEITEC MU | Publications | | Publications with corresponding authorship for CEITEC MU |
| | # | % | | # | % | |
| 63 | 108 | 45% | 33 | 107 | 55% | 39 |
| 8 | 24 | 10% | 7 | 22 | 11% | 9 |
| 31 | 52 | 21% | 18 | 43 | 22% | 19 |

CEITEC PhD Students (reported annually, end of year)

Reported period: 2014-2023

Data as of December of respective year

Table 8 # Students with CEITEC MU Supervisors and # in PhD School

| Academic Year | Total # of Students with CEITEC MU Supervisors (including PhD School) | | | # PhD School | |
|---------------|---|---------|-----------------|--------------|---------|
| | Total | # Women | # International | Total | # Women |
| 2014 | 323 | N/A | N/A | 6 | 3 |
| 2015 | 324 | N/A | 90 | 7 | 3 |
| 2016 | 316 | N/A | 103 | 15 | 6 |
| 2017 | 310 | N/A | 106 | 27 | 15 |
| 2018 | 289 | 145 | 117 | 41 | 22 |
| 2019 | 280 | 147 | 122 | 54 | 31 |
| 2020 | 264 | 140 | 129 | 64 | 37 |
| 2021 | 241 | 139 | 125 | 79 | 43 |
| 2022 | 212 | 130 | 111 | 74 | 44 |
| 2023 | 204 | 116 | 100 | 77 | 42 |

Table 9 % of Students with CEITEC MU Supervisors and % in PhD School

| Academic Year | Total % of Students with CEITEC MU Supervisors (including PhD School) | | | % PhD School | |
|---------------|---|-----|-----|--------------|---------|
| | | | | Total | % Women |
| 2014 | 323 | N/A | N/A | 6 | 50% |
| 2015 | 324 | N/A | 28% | 7 | 43% |
| 2016 | 316 | N/A | 33% | 15 | 40% |
| 2017 | 310 | N/A | 34% | 27 | 56% |
| 2018 | 289 | 50% | 40% | 41 | 54% |
| 2019 | 280 | 53% | 44% | 54 | 57% |
| 2020 | 264 | 53% | 49% | 64 | 58% |
| 2021 | 241 | 58% | 52% | 79 | 54% |
| 2022 | 212 | 61% | 52% | 74 | 59% |
| 2023 | 204 | 57% | 49% | 77 | 55% |

| # International |
|-----------------|
| 3 |
| 4 |
| 8 |
| 15 |
| 26 |
| 35 |
| 42 |
| 52 |
| 46 |
| 50 |

| % International |
|-----------------|
| 50% |
| 57% |
| 53% |
| 56% |
| 63% |
| 65% |
| 66% |
| 66% |
| 62% |
| 65% |

Training

Reported period: 2019-2022

Table 11 *Number of Training for PhD students**

| | 2019 | | 2020 | |
|----------------------|-------------|--------------|-------------|--------------|
| | Soft Skills | Other Skills | Soft Skills | Other Skills |
| No. of events | 4 | 18 | 0 | 9 |

* only courses organised by CEITEC MU are included in this table (there are other trainings organised, for example,

Table 12 *Number of Events for PhD*

| | Events | | | |
|-------------------------------|--------|------|------|------|
| | 2019 | 2020 | 2021 | 2022 |
| No. of events | x | x | x | x |
| No. of selected events | 5 | 5 | 6 | 19 |

| 2021 | | 2022 | | 2023 |
|-------------|--------------|-------------|--------------|-------------|
| Soft Skills | Other Skills | Soft Skills | Other Skills | Soft Skills |
| 6 | 4 | 7 | 5 | 6 |

, by MU Rectorate, that are also open to CEITEC MU researchers)

| 2023 |
|------|
| 117 |
| 23 |

023

Hard Skills

11

Technology Transfer

Reported period: 2019-2021

Table 13 *Applied Results*

| Applied Result (RIV) | 2019 | 2020 | 2021 | 2022 | 2023 |
|-----------------------------------|------|------|------|------|------|
| Patents Granted (P) | 1 | 2 | 1 | 0 | 4* |
| Patents Filed (-) | 1 | 1 | 0 | 3 | 1 |
| Utility and Industrial Models (F) | 3 | 2 | 0 | 2 | 1 |
| Prototypes/functional samples (G) | 3 | 1 | 1 | 1 | 0 |
| Softwares (R) | 1 | 0 | 2 | 1 | 0 |
| Realized Results (H) | 0 | 0 | 0 | 0 | 0 |
| Methodics (N) | 0 | 0 | 0 | 0 | 0 |
| Pilot Plant (Z) | 0 | 0 | 0 | 0 | 0 |
| Start-up / Spin-off | 0 | 0 | 1 | 0 | 0 |

*pozn.: z toho dva pat

patenty jsou ze stejné "patentové rodiny", tj. dva patenty na stejný vynález, jinak řečeno jsou to pouze 3 vy

nález

Scientific Results

Table 1 Publications

Publications # - počet publikací evidovaných ve WOS v daném roce s příznakem Article, Letter nebo Review s afiliací

Table 2 Corresponding Authorship for CEITEC MU

Corresponding authorship for CEITEC MU # - počet publikací evidovaných ve WOS v daném roce s příznakem Article, Letter nebo Review, kde má autor uvedený jako korespondenční (reprint author ve WOS) afiliaci k CEITEC MU, k

Table 3 Publications with International Collaboration

Publications with international collaboration # - počet publikací evidovaných ve WOS v daném roce s příznakem Article, Letter nebo Review s afiliací alespoň jednoho autora k CEITEC MU a s afiliací alespoň jednoho autora k

Table 4 Q1, T5, T10

Publications # - počet publikací v Q1/T5/T10 evidovaných ve WOS v daném roce s příznakem Article, Letter nebo Review
Publications % - podíl počtu publikací v Q1/T5/T10 k počtu všech publikací evidovaných ve WOS v daném roce s příznakem Article, Letter nebo Review
Publications with corresponding authorship for CEITEC MU # - počet publikací v Q1/T5/T10 evidovaných ve WOS v daném roce s příznakem Article, Letter nebo Review, kde má autor uvedený jako korespondenční (reprint author ve WOS) afiliaci k CEITEC MU
Publications with corresponding authorship for CEITEC MU % - podíl počtu publikací v Q1/T5/T10 s korespondenční afiliací k CEITEC MU (reprint author ve WOS), k počtu publikací evidovaných ve WOS v daném roce s příznakem Article, Letter nebo Review
Q1, T5, T10 - zařazení publikace podle hodnoty average JIF percentilu časopisu (Q1 je average JIF percentile $\geq 75,000$;

Table 5 Open Access

Open access # - počet publikací evidovaných ve WOS v daném roce s příznakem Article, Letter nebo Review s afiliací k CEITEC MU
Open access % - podíl počtu publikací zveřejněných v režimu GOLD OA (zdroj dat: InCites, filtr: DOAJ Gold a Other Gold)

Table 6 Citation Impact for CEITEC MU

Citation impact for CEITEC MU = Category normalized citation impact (CNCI) podle InCites pro publikace evidované ve WOS

Table 7 Awards

Awards internal - počet získaných ocenění zaměstnanců / výsledků CEITEC MU v rámci cen vyhlašovaných MU nebo
Awards external - počet získaných ocenění zaměstnanců CEITEC MU / výsledků mimo cen vyhlašovaných MU nebo jejich

CEITEC PhD Students

Table 8 # Students with CEITEC MU Supervisors and # in PhD School

k rozhodnému datu (30.6. / 31.12.) aktivním studium a jejich školitel má pracovní úvazek na CEITEC MU (jsou započítáni také studenti, jejichž školitelům skončil současně pracovní úvazek na CEITEC i na MU, ale zůstali externími školiteli). Tyto údaje jsou získány z aplikace Studijní evidence v IS MU.

Table 9 % of Students with CEITEC MU Supervisors and % in Life Science

žen/mezinárodních k celkovému počtu doktorských studentů, kteří mají k rozhodnému datu (30.6. / 31.12.) aktivním studium a jejich školitel má pracovní úvazek na CEITEC MU (jsou započítáni také studenti, jejichž školitelům skončil současně pracovní úvazek na CEITEC i na MU, ale zůstali externími školiteli). Tyto údaje jsou získány z aplikace Studijní evidence v IS MU.

Evaluation of Scientific Excellence

Table 10 Evaluation of Scientific Excellence (reported once per 4 years)

daném roce

v daném roce, k celkovému počtu evaluovaných skupin v daném roce

Training for PhD students

Table 11 summarizes training for PhD students (courses, lectures, webinars) organized by CEITEC MUNI.

Table 12 summarizes educational and motivational events for PhD students – such as Life After PhD, Company Visit, CEITEC PhD conference, PhD retreat, Science Mixer. Since 2022, the Tea Time Special and

Technology Transfer

Table 13 # of patents, utility models, prototypes, etc.

All results are defined according to the RIV table "Definition of Result Types". The only exceptions are those below:

Patents Granted: The patent office has granted an inventor's patent application, the patent document was issued.

administrative proceedings of requesting the issuance of a patent for an invention, as well as to the physical document and content of the description and claims of the invention, including its procedural paper work.

employee.