# Research Projects and Installation Research Projects

## 2015–2020

<table>
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<th>Pg</th>
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</tbody>
</table>
Introduction

One of the major strategic goals of the Croatian Science Foundation (HRZZ) for the previous five-year period was to ensure stable investigator-driven and bottom-up funding for excellent research in all scientific disciplines based on the principle of competition and peer review. Two major national funding schemes during this period were Research Projects (IP) and Installation Research Projects (UIP).

Research Projects are aimed at nationally and internationally recognised scientists with significant track record. Applicants can request up to 1.5 million HRK for a period of 4 years. Between 2013 and 2020, six calls were published and 801 IPs were funded.

Installation Research Projects are aimed at early-career researchers who intend to lead an independent research project and establish a new research group. Applicants can request up to 2 million HRK for a period of 5 years. Between 2013 and 2020, five calls were published and 239 UIPs were funded.

To evaluate scholarly output and impact of IP and UIP projects from 2015 to 2020, various indicators were analysed in this report such as the number of publications, number of publications in top journals, Q1 and Q2 journals, citation count, collaboration type in publications etc.

The data and analyses used in this report were provided by Elsevier.
Methods

Data Sources

Bibliometric data extracted from Scopus were used in all analyses. Publications resulting from Research Projects (IP) and Installation Research Projects (UIP) were identified based on the grant number in the funding acknowledgement statement.

Analysed Period

Most of the analyses cover the period 2015–2020, but when performance is aggregated over a period, the most recent five years are considered (2016–2020).

Subject Breakdown

Publications are classified based on the All Science Journal Classification (ASJC) used by Scopus. The ASJC System is used by Scopus to classify research outputs under four major subject areas (life sciences, physical sciences, health sciences and social sciences) which are further divided into 27 categories and various subcategories. The ASJC system is adjusted for the national classification system of scientific fields and areas in most presented figures.
Benchmarking

Research performance of authors of IP and UIP publications is benchmarked against the performance of all authors affiliated to Croatian research performing organisations (RPOs).

Publication Types

Reported analyses include all publications that are indexed in Scopus from 2015 to 2020 (articles, conference papers, reviews, book chapters, notes, editorials, letters, articles in the press, short surveys, errata, books, conference reviews, business articles, abstract reports, retracted publications and reports).

Counting

Whole counting is used in the report. For example, if a paper has been co-authored by one author from Croatia and one author from Germany, then that paper counts towards both the publication count of Croatia, as well as the publication count of Germany. Total counts for each country are the unique count of publications.
Metrics

Citation count - the total number of citations received by all publications in the analysed set. The reported years are always years of publication and not the years in which citations were received.

Citations per Publication - the total number of citations received by a publication. The reported years are always years of publication and not the years in which citations were received.

CiteScore metrics - journal-level metrics reflecting the yearly average number of citations to recent articles published in that journal.

Field-Weighted Citation Impact (FWCI) - the ratio of the total number of citations received by the analysed publication set (denominator) and the total citations that would be expected based on the average of the subject field (numerator).

Scholarly output - the total count of publications in the analysed set indexed in Scopus.

Top Scopus sources - defined by the journal metrics SNIP (Source-Normalized Impact per Paper) or SJR (SCImago Journal Rank). Both journal metrics are field-normalised journal metrics, meaning that they can be used to compare the presence of publications in exceptional journals regardless of discipline. Scopus Source List include indexed publications that are either serial or non-serial. All journals covered in the Scopus database are ranked each year according to four types of numerical quality measure for each title; those are h-Index, CiteScore, SJR (SCImago Journal Rank) and SNIP (Source Normalized Impact per Paper).
Results

IP and UIP Publications by ASJC Subject Area (2015–2020)

- Engineering (10.5%)
- Energy (3.0%)
- Environmental Science (4.4%)
- Earth and Planetary Sciences (4.0%)
- Agricultural and Biological Sciences (6.0%)
- Biochemistry, Genetics and Molecular Biology (6.1%)
- Medicine (4.5%)
- Pharmacology, Toxicology and Pharmaceutics (2.1%)
- Arts and Humanities (2.4%)
- Social Sciences (4.1%)
- Other (9.1%)
- Computer Science (7.4%)
- Mathematics (7.6%)
- Physics and Astronomy (10.5%)
- Chemistry (8.3%)
- Chemical Engineering (3.3%)
- Materials Science (6.3%)
Scholarly Output of IPs and UIPs

5,348 publications resulted from IPs and UIPs from 2015 to 2020

Citation Count of IP and UIP Publications

42,311 citations of IP and UIP publications from 2015 to 2020
IP and UIP Publications in Top Scopus Sources (2016–2020)

- **1,201** IP and UIP publications in the top 10% journals by CiteScore
- **85** IP and UIP publications in the top 1% journals by CiteScore


- International collaboration: 47%
- National collaboration: 30%
- Institutional collaboration: 7%
- Single authorship: 16%
### Type of collaboration

<table>
<thead>
<tr>
<th><strong>Type of collaboration</strong></th>
<th>%</th>
<th>Scholarly Output</th>
<th>Citations</th>
<th>Citations per Publication</th>
<th>Field-Weighted Citation Impact *</th>
</tr>
</thead>
<tbody>
<tr>
<td>International collaboration</td>
<td>47,40%</td>
<td>2457</td>
<td>26254</td>
<td>10,7</td>
<td>1,37</td>
</tr>
<tr>
<td>National collaboration</td>
<td>16,10%</td>
<td>836</td>
<td>4546</td>
<td>5,4</td>
<td>0,81</td>
</tr>
<tr>
<td>Institutional collaboration</td>
<td>29,80%</td>
<td>1542</td>
<td>8086</td>
<td>5,2</td>
<td>0,9</td>
</tr>
<tr>
<td>Single authorship</td>
<td>6,70%</td>
<td>345</td>
<td>751</td>
<td>2,2</td>
<td>0,51</td>
</tr>
</tbody>
</table>

*FWCI of 1.00 indicates that the analysed set of publications is cited exactly as would be expected based on the global average for similar publications. An FWCI of more than 1.00 indicates that the analysed set of publications is cited more than expected according to the global average.

### RPO

<table>
<thead>
<tr>
<th><strong>RPO</strong></th>
<th>Citations per Publication</th>
<th>Field-Weighted Citation Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Split</td>
<td>12,4</td>
<td>1,59</td>
</tr>
<tr>
<td>Ruder Bošković Institute</td>
<td>10,8</td>
<td>1,31</td>
</tr>
<tr>
<td>University of Rijeka</td>
<td>9,2</td>
<td>1,13</td>
</tr>
<tr>
<td>University of Zagreb</td>
<td>7,2</td>
<td>1,03</td>
</tr>
<tr>
<td>Josip Juraj Strossmayer University of Osijek</td>
<td>7,1</td>
<td>0,98</td>
</tr>
</tbody>
</table>

*Listed are the Croatian RPOs with the highest values for citations per publication and FWCI in the analysed set of IP and UIP publications.*
**Field-Weighted Citation Impact (FWCI)**

- **10.4** citations per publication of IPs and UIPs (2015-2020)
- **8.8** citations per publication of Croatian RPOs (2015-2020)

**Citations per Publication**

- **10.4** citations per publication of IPs and UIPs (2015-2020)
- **8.8** citations per publication of Croatian RPOs (2015-2020)
56% publications in Q1 Journal Quartile of IPs and UIPs (2015–2020)

36% publications in Q1 Journal Quartile of Croatian RPOs (2015–2020)

25% publications in Q2 Journal Quartile of IPs and UIPs (2015–2020)

23% publications in Q2 Journal Quartile of Croatian RPOs (2015–2020)
IP and UIP Publications by ASJC Subject Area* (2015–2020)

### Agricultural Sciences
- Forestry (48.8%)
- Agricultural and Biological Sciences (miscellaneous) (2.3%)
- Veterinary science (3.2%)
- Animal Science and Zoology (44.3%)
- Other (1.5%)

### Humanities
- History and Architecture (36.3%)
- Languages and linguistics (15.4%)
- Philosophy, Ethnology (9.9%)
- Arts (Arts, History...) (11.4%)
- Other humanities (27.1%)

### Engineering and Technologies
- Civil engineering (4.6%)
- Electrical engineering (14.7%)
  - Mechanical engineering (11.9%)
- Chemical engineering (14.2%)
- Materials engineering (23.8%)
- Environmental engineering (8.5%)
- Other engineering (17.7%)
- Other (4.6%)

### Medical Sciences
- Basic medicine (49.3%)
- Clinical medicine (31.1%)
- Health science (12.1%)
- Medical biotechnology (2.7%)
- Other medical science (4.9%)

### Natural Sciences
- Mathematics (12.2%)
- Computer science (12.3%)
- Physical sciences (17.1%)
- Chemical science (18.0%)
- Earth and Planetary sciences (14.5%)
- Biological sciences (16.1%)
- Other (9.9%)

### Social Sciences
- Psychology (9.6%)
- Economics and business (26.7%)
- Education (7.1%)
- Sociology (11.6%)
- Law (8.0%)
- Political Sciences (9.8%)
- Social and economy (9.6%)
- Other social sciences (16.5%)
- Other (1.1%)

*Adjusted for the national classification system of scientific fields and areas*
Scholarly Output of IPs and UIPs by ASJC Subject Area* (2015–2020)

Agricultural Sciences

Humans

Engineering and Technologies

Medical Sciences

Natural Sciences

Social Sciences

*Adjusted for the national classification system of scientific fields and areas
Citation Count of IP and UIP Publications by ASJC Subject Area* (2015–2020)

Agricultural Sciences

- 2015: 0 citations
- 2016: 1000 citations
- 2017: 1500 citations
- 2018: 2000 citations
- 2019: 2500 citations
- 2020: 3000 citations

5,227 Citations

Humanities

- 2015: 0 citations
- 2016: 500 citations
- 2017: 1000 citations
- 2018: 1500 citations
- 2019: 2000 citations
- 2020: 2500 citations

330 Citations

Engineering and Technologies

- 2015: 0 citations
- 2016: 1000 citations
- 2017: 2000 citations
- 2018: 3000 citations
- 2019: 4000 citations
- 2020: 5000 citations

12,549 Citations

Medical Sciences

- 2015: 0 citations
- 2016: 1000 citations
- 2017: 2000 citations
- 2018: 3000 citations
- 2019: 4000 citations
- 2020: 5000 citations

7,294 Citations

Natural Sciences

- 2015: 0 citations
- 2016: 500 citations
- 2017: 1000 citations
- 2018: 1500 citations
- 2019: 2000 citations
- 2020: 2500 citations

35,149 Citations

Social Sciences

- 2015: 0 citations
- 2016: 200 citations
- 2017: 400 citations
- 2018: 600 citations
- 2019: 800 citations
- 2020: 1000 citations

3,468 Citations

*Adjusted for the national classification system of scientific fields and areas
IP and UIP Publications in Top Scopus Sources by ASJC Subject Area* (2016–2020)

**Agricultural Sciences**

- 16 publications in the top 10% journals
- 61 publications in the top 1% journals

**Engineering and Technologies**

- 1,201 publications in the top 10% journals
- 85 publications in the top 1% journals

**Medical Sciences**

- 145 publications in the top 10% journals
- 10 publications in the top 1% journals

**Natural Sciences**

- 1,201 publications in the top 10% journals
- 85 publications in the top 1% journals

**Humanities**

- 35 publications in the top 10% journals
- 7 publications in the top 1% journals

**Social Sciences**

- 65 publications in the top 10% journals
- 5 publications in the top 1% journals

*Adjusted for the national classification system of scientific fields and areas*
Collaboration in IP and UIP Publications by ASJC Subject Area* (2015–2020)

**Agricultural Sciences**
- International collaboration: 24%
- National collaboration: 1%
- Institutional collaboration: 49%
- Single authorship: 26%

**Engineering and Technologies**
- International collaboration: 2%
- National collaboration: 41%
- Institutional collaboration: 15%
- Single authorship: 42%

**Natural Sciences**
- International collaboration: 5%
- National collaboration: 29%
- Institutional collaboration: 51%
- Single authorship: 15%

**Humanities**
- International collaboration: 18%
- National collaboration: 10%
- Institutional collaboration: 22%
- Single authorship: 50%

**Medical Sciences**
- International collaboration: 23%
- National collaboration: 1%
- Institutional collaboration: 49%
- Single authorship: 27%

**Social Sciences**
- International collaboration: 18%
- National collaboration: 29%
- Institutional collaboration: 37%
- Single authorship: 16%

*Adjusted for the national classification system of scientific fields and areas*
Field-Weighted Citation Impact by ASJC Subject Area* (2015–2020)

### Agricultural Sciences
- 1.35 FWCI of IPs and UIPs publications
- 0.91 FWCI of all Croatian RPOs

### Humanities
- 0.76 FWCI of IPs and UIPs publications
- 0.54 FWCI of all Croatian RPOs

### Engineering and Technologies
- 1.08 FWCI of IPs and UIPs publications
- 0.91 FWCI of all Croatian RPOs

### Medical Sciences
- 0.96 FWCI of IPs and UIPs publications
- 1.37 FWCI of all Croatian RPOs

### Natural Sciences
- 1.13 FWCI of IPs and UIPs publications
- 1.12 FWCI of all Croatian RPOs

### Social Sciences
- 1.08 FWCI of IPs and UIPs publications
- 0.76 FWCI of all Croatian RPOs

*Adjusted for the national classification system of scientific fields and areas
Citations per Publication by ASJC Subject Area* (2015–2020)

Agricultural Sciences

- **IPS and UIPs**: 10.6, 7.3, 6.3, 11.1, 5.4
- **Croatian RPOs**: 1.6, 1.5, 1.1, 3.8

Humanities

- **IPS and UIPs**: 20.15, 20.16, 20.17, 20.18, 20.19, 20.20
- **Croatian RPOs**: 1.5, 1.1

Engineering and Technologies

- **IPS and UIPs**: 7.3, 6.3, 8.2, 11.4
- **Croatian RPOs**: 1.7, 3.8

Medical Sciences

- **IPS and UIPs**: 10.6, 7.2
- **Croatian RPOs**: 1.1

Natural Sciences

- **IPS and UIPs**: 11.1, 11.1
- **Croatian RPOs**: 10.1

Social Sciences

- **IPS and UIPs**: 11.1
- **Croatian RPOs**: 3.8

*Adjusted for the national classification system of scientific fields and areas
Publications in Q1 Journal Quartile by AJSC Subject Area* based on CiteScore (2015–2020)

- **Agricultural Sciences**
  - 52% of IPs and UIPs publications
  - 32% of Croatian RPOs publications

- **Humanities**
  - 32% of IPs and UIPs publications
  - 14% of Croatian RPOs publications

- **Engineering and Technologies**
  - 54% of IPs and UIPs publications
  - 39% of Croatian RPOs publications

- **Medical Sciences**
  - 46% of IPs and UIPs publications
  - 33% of Croatian RPOs publications

- **Natural Sciences**
  - 53% of IPs and UIPs publications
  - 45% of Croatian RPOs publications

- **Social Sciences**
  - 38% of IPs and UIPs publications
  - 22% of Croatian RPOs publications

*Adjusted for the national classification system of scientific fields and areas
Publications in Q2 Journal Quartile by ASJC Subject Area* based on CiteScore (2015–2020)

Agricultural Sciences

- 29% of IPs and UIPs publications
- 26% of Croatian RPOs publications

Natural Sciences

- 25% of IPs and UIPs publications
- 25% of Croatian RPOs publications

Engineering and Technologies

- 27% of IPs and UIPs publications
- 28% of Croatian RPOs publications

Medical Sciences

- 36% of IPs and UIPs publications
- 28% of Croatian RPOs publications

Social Sciences

- 24% of IPs and UIPs publications
- 19% of Croatian RPOs publications

*Adjusted for the national classification system of scientific fields and areas
## Collaboration in IP and UIP Publications by ASJC Subject Area* based on CiteScore (2015–2020)

### Agricultural Sciences

<table>
<thead>
<tr>
<th>Type of collaboration</th>
<th>%</th>
<th>Scholarly Output</th>
<th>Citations</th>
<th>Citations per Publication</th>
<th>Field-Weighted Citation Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>International collaboration</td>
<td>48,60%</td>
<td>237</td>
<td>3253</td>
<td>13,7</td>
<td>1,8</td>
</tr>
<tr>
<td>National collaboration</td>
<td>25,60%</td>
<td>125</td>
<td>743</td>
<td>5,9</td>
<td>0,93</td>
</tr>
<tr>
<td>Institutional collaboration</td>
<td>24,40%</td>
<td>119</td>
<td>1059</td>
<td>8,9</td>
<td>0,92</td>
</tr>
<tr>
<td>Single authorship</td>
<td>1,40%</td>
<td>7</td>
<td>25</td>
<td>3,6</td>
<td>0,95</td>
</tr>
</tbody>
</table>

### Humanities

<table>
<thead>
<tr>
<th>Type of collaboration</th>
<th>%</th>
<th>Scholarly Output</th>
<th>Citations</th>
<th>Citations per Publication</th>
<th>Field-Weighted Citation Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>International collaboration</td>
<td>17,90%</td>
<td>40</td>
<td>137</td>
<td>3,4</td>
<td>1,33</td>
</tr>
<tr>
<td>National collaboration</td>
<td>10,30%</td>
<td>23</td>
<td>56</td>
<td>2,4</td>
<td>0,9</td>
</tr>
<tr>
<td>Institutional collaboration</td>
<td>22,30%</td>
<td>50</td>
<td>86</td>
<td>1,7</td>
<td>1,01</td>
</tr>
<tr>
<td>Single authorship</td>
<td>49,50%</td>
<td>111</td>
<td>51</td>
<td>0,5</td>
<td>0,36</td>
</tr>
</tbody>
</table>
## Scholarly Output and Impact

<table>
<thead>
<tr>
<th>Type of collaboration</th>
<th>%</th>
<th>Scholarly Output</th>
<th>Citations</th>
<th>Citations per Publication</th>
<th>Field-Weighted Citation Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Engineering and Technologies</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>International collaboration</td>
<td>42,40%</td>
<td>707</td>
<td>6581</td>
<td>9,3</td>
<td>1,24</td>
</tr>
<tr>
<td>National collaboration</td>
<td>15,40%</td>
<td>256</td>
<td>1256</td>
<td>4,9</td>
<td>0,76</td>
</tr>
<tr>
<td>Institutional collaboration</td>
<td>40,60%</td>
<td>676</td>
<td>3602</td>
<td>5,3</td>
<td>1,01</td>
</tr>
<tr>
<td>Single authorship</td>
<td>1,60%</td>
<td>27</td>
<td>145</td>
<td>5,4</td>
<td>0,68</td>
</tr>
<tr>
<td><strong>Medical Sciences</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>International collaboration</td>
<td>48,40%</td>
<td>423</td>
<td>3916</td>
<td>9,3</td>
<td>1,09</td>
</tr>
<tr>
<td>National collaboration</td>
<td>27,10%</td>
<td>237</td>
<td>1701</td>
<td>7,2</td>
<td>0,89</td>
</tr>
<tr>
<td>Institutional collaboration</td>
<td>23,30%</td>
<td>204</td>
<td>1270</td>
<td>6,2</td>
<td>0,77</td>
</tr>
<tr>
<td>Single authorship</td>
<td>1,10%</td>
<td>10</td>
<td>49</td>
<td>4,9</td>
<td>0,61</td>
</tr>
<tr>
<td><strong>Natural Sciences</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>International collaboration</td>
<td>50,90%</td>
<td>2031</td>
<td>22390</td>
<td>11</td>
<td>1,38</td>
</tr>
<tr>
<td>National collaboration</td>
<td>14,80%</td>
<td>591</td>
<td>3422</td>
<td>5,8</td>
<td>0,83</td>
</tr>
<tr>
<td>Institutional collaboration</td>
<td>29,50%</td>
<td>1178</td>
<td>6552</td>
<td>5,6</td>
<td>0,92</td>
</tr>
<tr>
<td>Single authorship</td>
<td>4,80%</td>
<td>190</td>
<td>531</td>
<td>2,8</td>
<td>0,51</td>
</tr>
</tbody>
</table>
### Social Sciences

<table>
<thead>
<tr>
<th>Type of collaboration</th>
<th>%</th>
<th>Scholarly Output</th>
<th>Citations</th>
<th>Citations per Publication</th>
<th>Field-Weighted Citation Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>International collaboration</td>
<td>29,00%</td>
<td>181</td>
<td>1518</td>
<td>8,4</td>
<td>1,57</td>
</tr>
<tr>
<td>National collaboration</td>
<td>16,30%</td>
<td>102</td>
<td>399</td>
<td>3,9</td>
<td>0,99</td>
</tr>
<tr>
<td>Institutional collaboration</td>
<td>36,80%</td>
<td>230</td>
<td>1022</td>
<td>4,4</td>
<td>0,96</td>
</tr>
<tr>
<td>Single authorship</td>
<td>17,90%</td>
<td>112</td>
<td>242</td>
<td>2,2</td>
<td>0,46</td>
</tr>
</tbody>
</table>

*Adjusted for the national classification system of scientific fields and areas*
The Institutions with the Highest Citations per Publication and Field-Weighted Citation Impact values by ASJC Subject Area* (2015–2020)

### Agricultural Sciences

<table>
<thead>
<tr>
<th>Institution</th>
<th>Citations per Publication</th>
<th>Field-Weighted Citation Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Zagreb</td>
<td>12,4</td>
<td>1,46</td>
</tr>
<tr>
<td>University of Split</td>
<td>8,7</td>
<td>1,3</td>
</tr>
<tr>
<td>Josip Juraj Strossmayer University of Osijek</td>
<td>7,8</td>
<td>1,02</td>
</tr>
<tr>
<td>Institute of Oceanography and Fisheries</td>
<td>7,6</td>
<td>1,25</td>
</tr>
<tr>
<td>Ruder Bošković Institute</td>
<td>6,7</td>
<td>0,9</td>
</tr>
</tbody>
</table>

### Humanities

<table>
<thead>
<tr>
<th>Institution</th>
<th>Citations per Publication</th>
<th>Field-Weighted Citation Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Rijeka</td>
<td>3,4</td>
<td>1,46</td>
</tr>
<tr>
<td>University of Zagreb</td>
<td>2,2</td>
<td>0,89</td>
</tr>
<tr>
<td>University of Zadar</td>
<td>1,8</td>
<td>0,61</td>
</tr>
<tr>
<td>Josip Juraj Strossmayer University of Osijek</td>
<td>0,7</td>
<td>0,36</td>
</tr>
<tr>
<td>Croatian Academy of Sciences and Arts</td>
<td>0,6</td>
<td>0,59</td>
</tr>
</tbody>
</table>
### Engineering and Technologies

<table>
<thead>
<tr>
<th>Institution</th>
<th>Citations per Publication</th>
<th>Field-Weighted Citation Impact</th>
</tr>
</thead>
<tbody>
<tr>
<td>University of Split</td>
<td>9,1</td>
<td>1,45</td>
</tr>
<tr>
<td>Ruder Bošković Institute</td>
<td>8,7</td>
<td>1,13</td>
</tr>
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### Medical Sciences

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*Adjusted for the national classification system of scientific fields and areas

**Listed are the Croatian RPOs with the highest values for citations per publication and FWCI in the analysed set of IP and UIP publications

## Conclusion

Presented data indicate positive trends in scholarly output and impact as well as international collaborations in scientific co-publications of IP and UIP projects in the period 2015-2020. Furthermore, the amount of funding per IP/UIP projects was significant and increasing over the years, which enabled Croatian researchers to become more visible and competitive. In conclusion, the major strategic goal of HRZZ to ensure stable investigator-driven and bottom-up funding for excellent research based on competition and peer review is proving to be a valuable approach for increasing the overall quality of Croatian research landscape.
We thank warmly Kate Patyrak and Oana Stoian from Elsevier for helping in data collection, analyses and drafting the report.

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