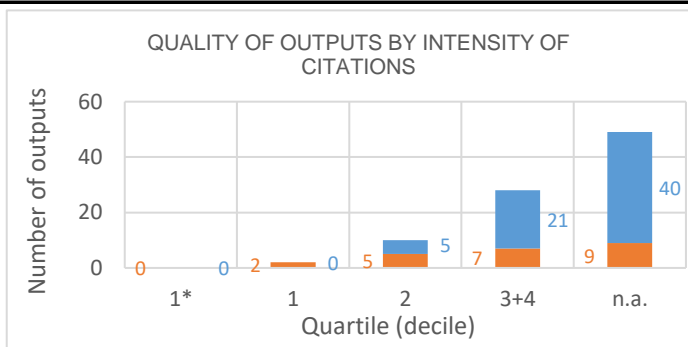
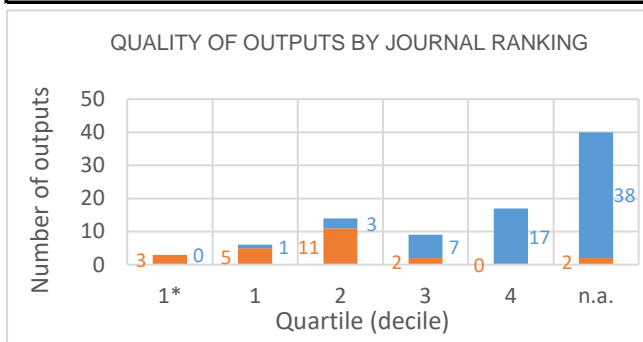


# Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

## BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

**Institute:** Institute of Theoretical and Applied Mechanics of the CAS, v. v. i.  
**Team:** Theoretical and Applied Mechanics  
**Head:** Ing. Martin Šperl, Ph.D.  
**Field:** Civil engineering  
**Total number of outputs:** 89      **Evaluated outputs:** 23



### TYPES OF COLLABORATION

| Collaboration       | Outputs (evaluated) | Outputs (not evaluated) |
|---------------------|---------------------|-------------------------|
| A1                  | 11                  | 26                      |
| B                   |                     | 9                       |
| B1                  | 2                   | 13                      |
| C                   | 6                   | 7                       |
| C1                  | 2                   | 7                       |
| D                   |                     | 1                       |
| D1                  |                     |                         |
| E                   |                     |                         |
| n.a.                | 2                   | 3                       |
| Without affiliation |                     |                         |
| A1+B1+C1+D1         | 15                  | 46                      |
| B+C+D+E             | 6                   | 17                      |

### FIELD STRUCTURE OF OUTPUTS

| Field structure of outputs            | Outputs (evaluated) | Outputs (not evaluated) |
|---------------------------------------|---------------------|-------------------------|
| Engineering Civil                     | 14                  | 22                      |
| Mechanics                             | 7                   | 16                      |
| Engineering Mechanical                | 3                   | 16                      |
| Construction Building Technology      | 4                   | 9                       |
| Materials Science Multidisciplinary   | 3                   | 8                       |
| Engineering Multidisciplinary         | 1                   | 8                       |
| n.a.                                  | 2                   | 5                       |
| Computer Science Interdisciplinary A  | 6                   |                         |
| Materials Science Characterization Te |                     | 5                       |
| Physics Applied                       |                     | 4                       |
| Acoustics                             | 2                   |                         |
| Architecture                          |                     | 2                       |
| Engineering Aerospace                 |                     | 2                       |
| Forestry                              |                     | 2                       |
| Geosciences Multidisciplinary         |                     | 2                       |
| Materials Science Composites          |                     | 2                       |
| Materials Science Paper Wood          |                     | 2                       |
| Polymer Science                       |                     | 2                       |
| Archaeology                           |                     | 1                       |
| Art                                   |                     | 1                       |

**Total number of outputs:** outputs of the team published during the evaluated period 2015-2019.

**Evaluated outputs:** selected outputs submitted by the team to the Phase I of evaluation.

**Outputs used for bibliometry:** subset of all outputs registered in the Web of Science; document type: article, review or proceedings paper.

**Quality of outputs by journal ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; orange: outputs from the Phase I, blue: the other outputs of the team.

**Quality of outputs by intensity of citations:** number of outputs in the top decile (1\*) and in quartiles (1, 2, 3+4) determined from the list of outputs ordered by the number of citations (downloaded from the Web of Science at the beginning of evaluation) for each subject category, year, and type of output; n. a. – the data are not robust enough for relevant judgement; orange: outputs from the Phase I, blue: the other outputs of the team.

**Types of collaboration:** outputs created exclusively in a particular institute are marked by A1, outputs created within national cooperation by max. 5 organizations are marked by B, outputs created within international cooperation by max. 5 organizations are marked C, outputs created within large collaboration exceeding 5 organizations are marked D, outputs created within large international collaboration are marked E. It is distinguished by marking B1/B, C1/C and D1/D whether the output has/does not have a corresponding author from a particular team.

**Field structure of outputs:** number of outputs of the team in different subject categories (subfields); if the output is assigned to more than one field, the field where the publication performs best (assessed by Quality of outputs by journals ranking) is taken; the table shows up to 20 fields.

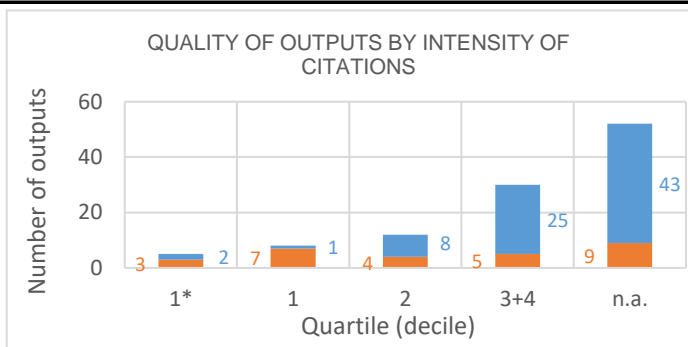
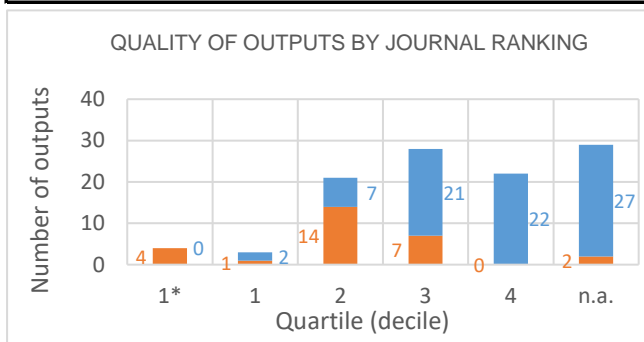
**Detailed explanation of the indicators is provided in the Methodology of evaluation, Annex 2 – Bibliometrics.**

**NOTE:** The significance of bibliometrics in technical sciences is very limited.

# Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

## BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

**Institute:** Institute of Theoretical and Applied Mechanics of the CAS, v. v. i.  
**Team:** Material Science  
**Head:** doc. Ing. Daniel Kytýř, Ph.D.  
**Field:** Materials engineering  
**Total number of outputs:** 107      **Evaluated outputs:** 28



### TYPES OF COLLABORATION

| Collaboration       | Outputs (evaluated) | Outputs (not evaluated) |
|---------------------|---------------------|-------------------------|
| A1                  | 5                   | 12                      |
| B                   | 4                   | 12                      |
| B1                  |                     | 22                      |
| C                   | 1                   | 8                       |
| C1                  | 15                  | 17                      |
| D                   |                     | 4                       |
| D1                  |                     | 1                       |
| E                   |                     |                         |
| n.a.                | 2                   | 3                       |
| Without affiliation | 1                   |                         |
| A1+B1+C1+D1         | 20                  | 52                      |
| B+C+D+E             | 5                   | 24                      |

### FIELD STRUCTURE OF OUTPUTS

| Field structure of outputs           | Outputs (evaluated) | Outputs (not evaluated) |
|--------------------------------------|---------------------|-------------------------|
| Materials Science Multidisciplinary  | 17                  | 25                      |
| Construction Building Technology     | 12                  | 7                       |
| Instruments Instrumentation          | 1                   | 14                      |
| Engineering Civil                    | 8                   | 5                       |
| Mechanics                            |                     | 8                       |
| Engineering Mechanical               |                     | 7                       |
| Chemistry Analytical                 |                     | 7                       |
| Engineering Multidisciplinary        |                     | 5                       |
| Chemistry Physical                   | 3                   | 2                       |
| Metallurgy Metallurgical Engineering | 1                   | 4                       |
| n.a.                                 | 2                   | 3                       |
| Spectroscopy                         | 1                   | 4                       |
| Archaeology                          |                     | 4                       |
| Crystallography                      |                     | 4                       |
| Geosciences Multidisciplinary        |                     | 4                       |
| Chemistry Multidisciplinary          |                     | 4                       |
| Physics Applied                      |                     | 4                       |
| Art                                  |                     | 3                       |
| Materials Science Ceramics           | 2                   | 1                       |
| Mineralogy                           | 2                   | 1                       |

**Total number of outputs:** outputs of the team published during the evaluated period 2015-2019.

**Evaluated outputs:** selected outputs submitted by the team to the Phase I of evaluation.

**Outputs used for bibliometry:** subset of all outputs registered in the Web of Science; document type: article, review or proceedings paper.

**Quality of outputs by journal ranking:** number of outputs in top decile (1\*) and quartiles (1-4) by AIS of journals; n. a. - outputs in journals without AIS; orange: outputs from the Phase I, blue: the other outputs of the team.

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**NOTE:** The significance of bibliometrics in technical sciences is very limited.

# Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

## BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

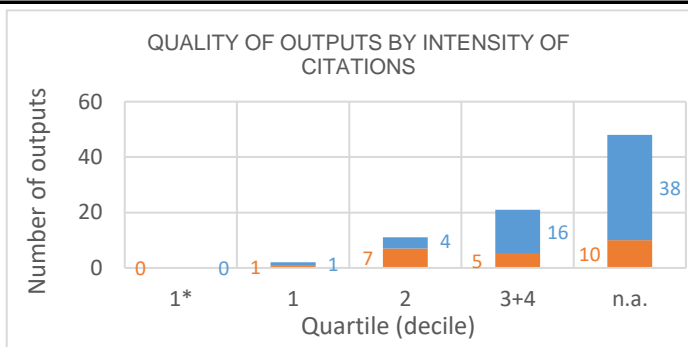
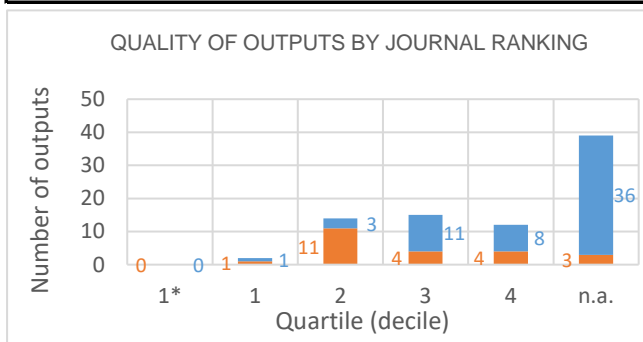
**Institute:** Institute of Theoretical and Applied Mechanics of the CAS, v. v. i.

**Team:** Applied Sciences for Cultural Heritage

**Head:** prof. Ing. Miloš Drdáký, DrSC, dr. h. c, FENG

**Field:** Other engineering and technologies

**Total number of outputs:** 82      **Evaluated outputs:** 23



### TYPES OF COLLABORATION

| Collaboration       | Outputs (evaluated) | Outputs (not evaluated) |
|---------------------|---------------------|-------------------------|
| A1                  | 7                   | 12                      |
| B                   | 3                   | 11                      |
| B1                  | 3                   | 17                      |
| C                   | 3                   | 4                       |
| C1                  | 4                   | 11                      |
| D                   | 1                   | 1                       |
| D1                  | 1                   | 1                       |
| E                   |                     |                         |
| n.a.                | 2                   | 3                       |
| Without affiliation |                     |                         |
| A1+B1+C1+D1         | 15                  | 40                      |
| B+C+D+E             | 6                   | 16                      |

### FIELD STRUCTURE OF OUTPUTS

| Field structure of outputs           | Outputs (evaluated) | Outputs (not evaluated) |
|--------------------------------------|---------------------|-------------------------|
| Materials Science Multidisciplinary  | 12                  | 9                       |
| Engineering Civil                    | 13                  | 4                       |
| Construction Building Technology     | 12                  | 3                       |
| Instruments Instrumentation          |                     | 12                      |
| Engineering Mechanical               |                     | 8                       |
| Mechanics                            |                     | 8                       |
| Physics Applied                      |                     | 8                       |
| Chemistry Analytical                 | 4                   | 3                       |
| Mathematics Applied                  |                     | 7                       |
| Spectroscopy                         | 4                   | 3                       |
| Archaeology                          | 3                   | 3                       |
| Art                                  | 3                   | 3                       |
| Geosciences Multidisciplinary        | 4                   | 2                       |
| Architecture                         | 3                   | 2                       |
| Imaging Science Photographic Techn   |                     | 5                       |
| n.a.                                 | 2                   | 3                       |
| Remote Sensing                       |                     | 4                       |
| Engineering Multidisciplinary        |                     | 3                       |
| Geography Physical                   |                     | 3                       |
| Computer Science Interdisciplinary A |                     | 2                       |

**Total number of outputs:** outputs of the team published during the evaluated period 2015-2019.

**Evaluated outputs:** selected outputs submitted by the team to the Phase I of evaluation.

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