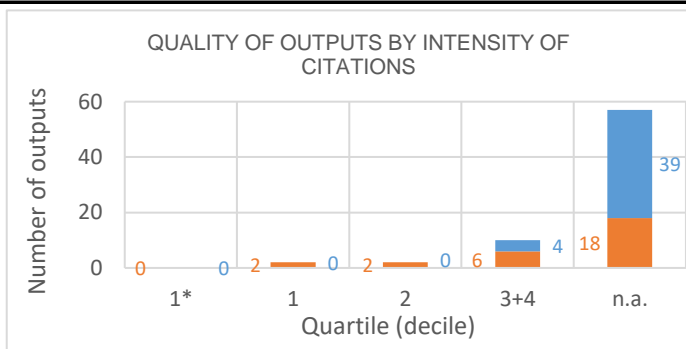
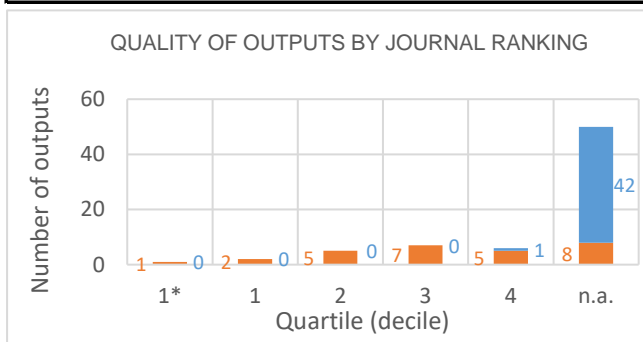


Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Thermomechanics of the CAS, v. v. i.
Team: D1 – Fluid Dynamics
Head: doc. Ing. Martin Luxa, Ph.D.
Field: Mechanical engineering
Total number of outputs: 71 **Evaluated outputs:** 28



TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	2	8
B	4	12
B1	13	20
C	1	2
C1		1
D	1	
D1		
E		
n.a.	7	
Without affiliation		
A1+B1+C1+D1	15	29
B+C+D+E	6	14

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Mechanics	4	34
Engineering Mechanical	6	7
Physics Fluids Plasmas		12
n.a.	7	
Physics Applied		7
Energy Fuels		4
Engineering Multidisciplinary	1	3
Meteorology Atmospheric Sciences	3	1
Engineering Environmental	3	
Engineering Chemical	3	
Physics Mathematical	1	2
Thermodynamics	2	1
Computer Science Interdisciplinary A	2	
Mathematics Applied	2	
Construction Building Technology	1	
Engineering Civil	1	
Environmental Sciences	1	
Geochemistry Geophysics	1	
Chemistry Multidisciplinary	1	
Mathematics Interdisciplinary Applica	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.

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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.

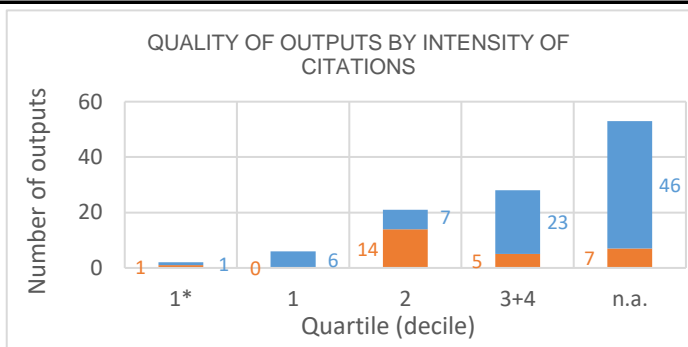
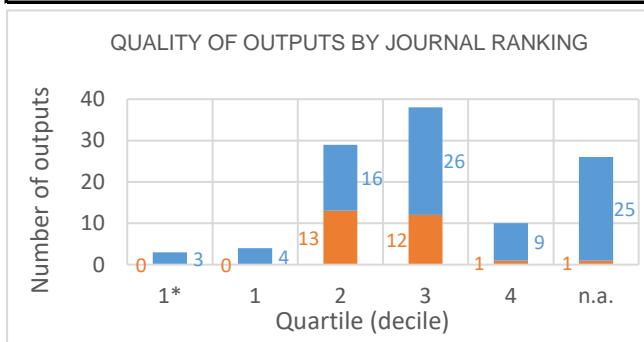
Detailed explanation of the indicators is provided in the Methodology of evaluation, Annex 2 – Bibliometrics.

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 Thermomechanics of the CAS, v. v. i.
Team: D2 – Thermodynamics
Head: Ing. Jan Hrubý, CSc.
Field: Mechanical engineering
Total number of outputs: 110 **Evaluated outputs:** 27



TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	16	34
B	1	6
B1	5	9
C	2	19
C1	1	11
D		1
D1		
E		
n.a.	1	2
Without affiliation	1	1
A1+B1+C1+D1	22	54
B+C+D+E	3	26

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Mechanics	6	25
Thermodynamics	15	12
Chemistry Physical	10	11
Physics Fluids Plasmas	2	15
Engineering Chemical	6	10
Mathematics Applied	2	14
Engineering Electrical Electronic	2	11
Engineering Mechanical	6	7
Instruments Instrumentation	2	11
Computer Science Interdisciplinary A	1	5
Chemistry Multidisciplinary	3	3
Energy Fuels		4
Imaging Science Photographic Techn	1	3
Materials Science Multidisciplinary		4
Physics Atomic Molecular Chemical	3	1
n.a.	1	2
Mathematics	1	1
Mathematics Interdisciplinary Applica		2
Physics Applied		2
Physics Multidisciplinary		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.

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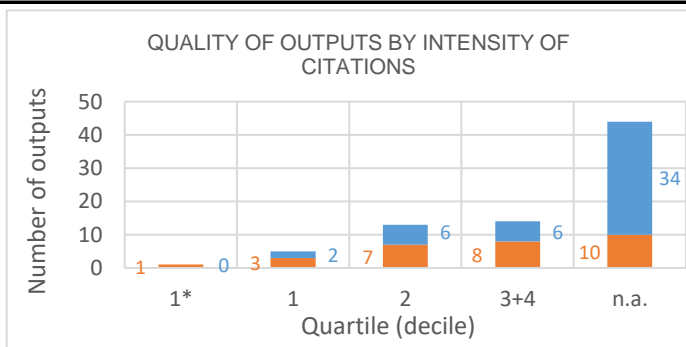
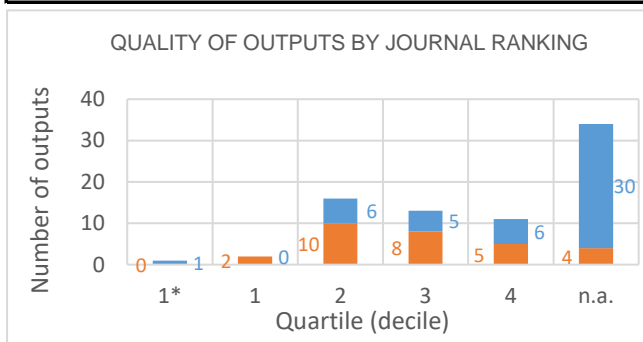
Detailed explanation of the indicators is provided in the Methodology of evaluation, Annex 2 – Bibliometrics.

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 Thermomechanics of the CAS, v. v. i.
Team: D3 – Dynamics and Vibration
Head: Ing. Luděk Pešek, CSc.
Field: Mechanical engineering
Total number of outputs: 77 **Evaluated outputs:** 29



TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	8	16
B	7	18
B1	5	4
C	1	3
C1	4	4
D		
D1		
E		
n.a.	4	
Without affiliation		3
A1+B1+C1+D1	17	24
B+C+D+E	8	21

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Mechanics	6	23
Engineering Multidisciplinary	3	18
Engineering Mechanical	5	15
Physics Applied		9
Engineering Electrical Electronic	4	4
Mathematics Applied	3	4
Acoustics	6	
Engineering Biomedical	4	1
Computer Science Interdisciplinary A	3	1
Instruments Instrumentation	4	
Mathematics Interdisciplinary Applica	2	2
n.a.	4	
Audiology Speech Language Patholo	1	2
Otorhinolaryngology	1	2
Biotechnology Applied Microbiology		2
Computer Science Software Engineer	2	
Medicine Research Experimental		2
Automation Control Systems		1
Biophysics	1	
Computer Science Artificial Intelligenc		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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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.

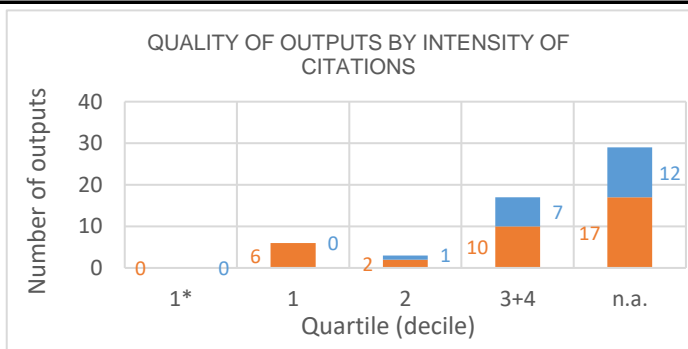
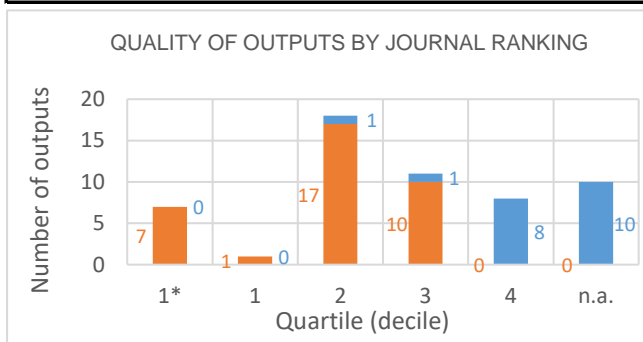
Detailed explanation of the indicators is provided in the Methodology of evaluation, Annex 2 – Bibliometrics.

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 Thermomechanics of the CAS, v. v. i.
Team: D4 – Impacts and Waves in Solids and Centre CeNDYNMAT
Head: Ing. Dušan Gabriel, Ph.D.
Field: Mechanical engineering
Total number of outputs: 55 **Evaluated outputs:** 35



TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	4	3
B	7	5
B1	8	6
C	9	1
C1	7	2
D		2
D1		
E		
n.a.		
Without affiliation		1
A1+B1+C1+D1	19	11
B+C+D+E	16	8

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Engineering Multidisciplinary	10	6
Mechanics	7	9
Materials Science Multidisciplinary	5	4
Mathematics Interdisciplinary Application	8	
Physics Applied	1	6
Engineering Mechanical	2	3
Computer Science Interdisciplinary Application	4	
Acoustics	3	
Computer Science Software Engineering	3	
Engineering Geological	3	
Engineering Chemical	3	
Food Science Technology	2	1
Materials Science Characterization Techniques		3
Audiology Speech Language Pathology	2	
Biophysics		2
Engineering Civil	1	1
Geosciences Multidisciplinary	2	
Instruments Instrumentation	1	1
Mathematics Applied	2	
Physics Condensed Matter		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.

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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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.

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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.

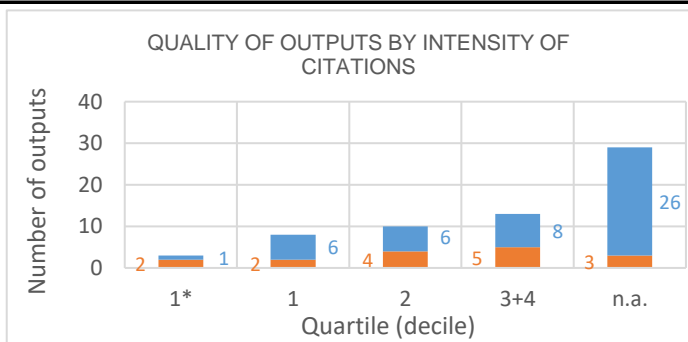
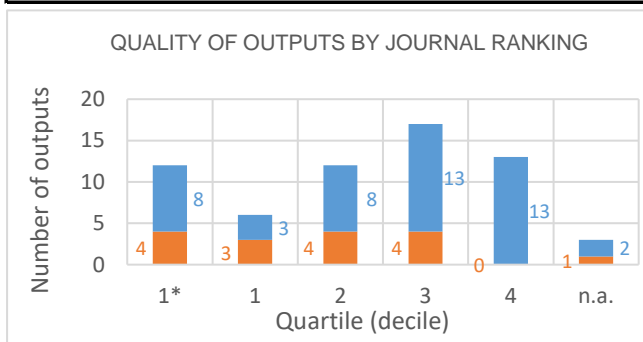
Institute: Institute of Thermomechanics of the CAS, v. v. i.

Team: D5 – Ultrasonic Methods

Head: doc. Ing. Hanuš Seiner, Ph.D.

Field: Materials engineering

Total number of outputs: 63 **Evaluated outputs:** 16



TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	1	
B	2	12
B1	5	10
C	1	14
C1	6	6
D		3
D1		2
E		
n.a.	1	
Without affiliation		
A1+B1+C1+D1	12	18
B+C+D+E	3	29

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Materials Science Multidisciplinary	9	26
Metallurgy Metallurgical Engineering	6	9
Physics Multidisciplinary		12
Physics Applied	3	5
Mechanics		5
Physics Condensed Matter	1	4
Engineering Mechanical		4
Nanoscience Nanotechnology	2	2
Acoustics	2	1
Chemistry Physical	1	2
Instruments Instrumentation	1	2
Materials Science Coatings Films		3
Materials Science Characterization Te		2
Mathematics Interdisciplinary Applica		2
Multidisciplinary Sciences	1	1
Radiology Nuclear Medicine Medical	2	
Audiology Speech Language Patholo		1
Crystallography		1
Engineering Electrical Electronic		1
Materials Science Biomaterials		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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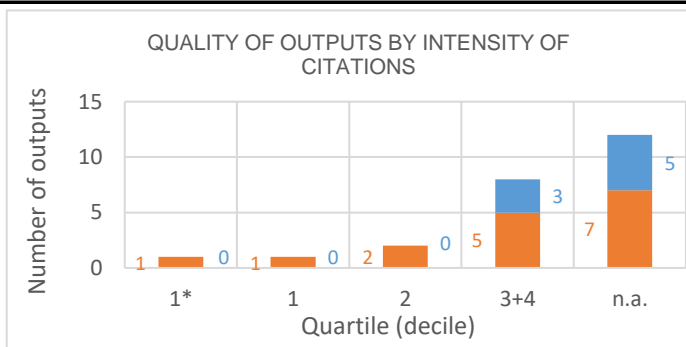
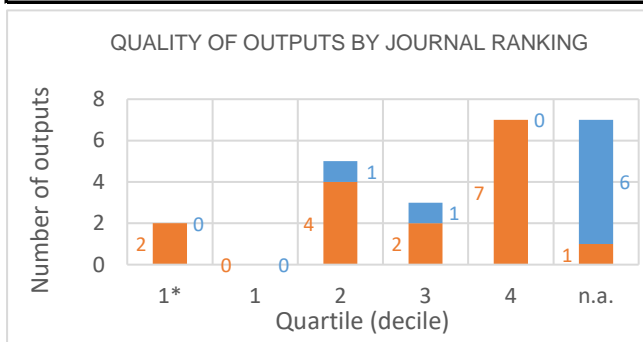
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Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Thermomechanics of the CAS, v. v. i.
Team: D6 – Electrical Engineering and Electrophysics
Head: doc. Ing. Miroslav Chomát, CSc.
Field: Electrical engineering, Electronic engineering, Information engineering
Total number of outputs: 24 **Evaluated outputs:** 16



TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	10	6
B	2	
B1	1	2
C		
C1	1	
D	1	
D1		
E		
n.a.	1	
Without affiliation		
A1+B1+C1+D1	12	8
B+C+D+E	3	

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Engineering Electrical Electronic	8	1
Physics Fluids Plasmas	1	3
Engineering Mechanical	1	2
Mechanics		3
Physics Applied	2	1
Automation Control Systems	2	
Engineering Multidisciplinary	1	1
Instruments Instrumentation	1	1
Physics Multidisciplinary	1	1
Thermodynamics	1	1
Computer Science Artificial Intelligence	1	
Energy Fuels	1	
Engineering Aerospace	1	
Engineering Chemical	1	
Chemistry Physical	1	
Mathematics Interdisciplinary Applied	1	
n.a.	1	
Physics Atomic Molecular Chemical	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.

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