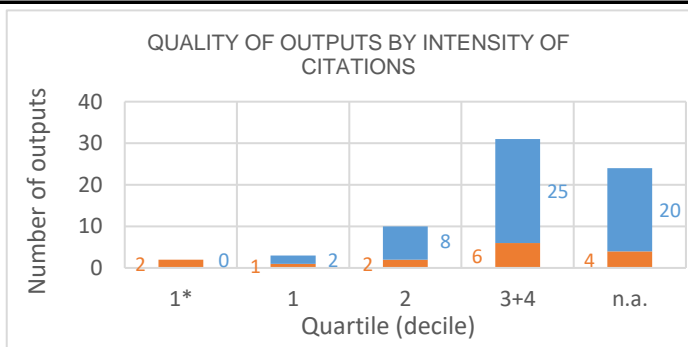
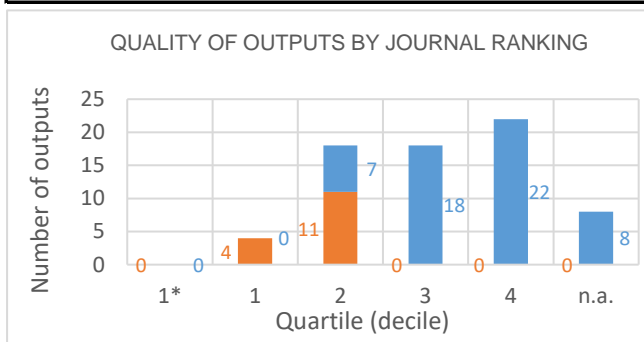


# Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

**Institute:** Institute of Chemical Process Fundamentals of the CAS, v. v. i.  
**Team:** Department of Membrane Separation Processes  
**Head:** Pavel Izák  
**Field:** Chemical engineering  
**Total number of outputs:** 70      **Evaluated outputs:** 15



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	3	10
B	3	11
B1	2	8
C	2	13
C1	2	7
D	1	1
D1	1	
E		
n.a.		4
Without affiliation	1	1
A1+B1+C1+D1	8	25
B+C+D+E	6	25

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Engineering Chemical	15	20
Chemistry Physical		17
Physics Atomic Molecular Chemical		8
Polymer Science	4	4
Thermodynamics		7
Chemistry Multidisciplinary		5
n.a.		4
Energy Fuels		3
Biotechnology Applied Microbiology		2
Chemistry Analytical		2
Materials Science Multidisciplinary		2
Physics Condensed Matter		2
Biochemical Research Methods		1
Biochemistry Molecular Biology		1
Computer Science Interdisciplinary A		1
Crystallography		1
Food Science Technology		1
Chemistry Applied		1
Chemistry Medicinal		1
Chemistry Organic		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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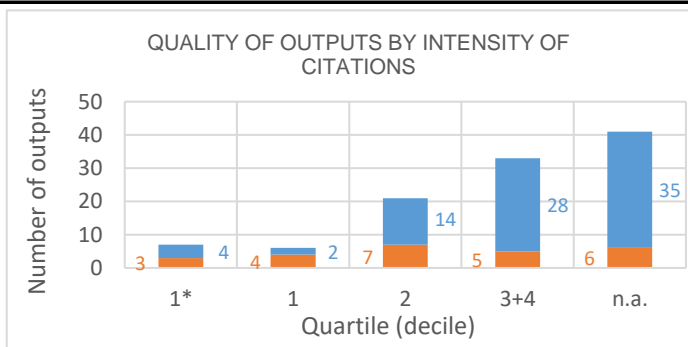
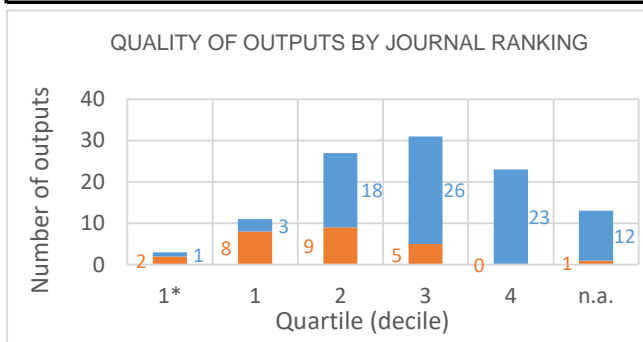
**Detailed explanation of the indicators is provided in the Methodology of evaluation, Annex 2 – Bibliometrics.**

**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 Chemical Process Fundamentals of the CAS, v. v. i.  
**Team:** Department of Aerosols Chemistry and Physics  
**Head:** Vladimír Ždimal  
**Field:** Environmental engineering  
**Total number of outputs:** 108      **Evaluated outputs:** 25



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	4	3
B	2	7
B1	6	16
C	4	17
C1	5	8
D	2	22
D1	1	3
E		
n.a.	1	5
Without affiliation		2
A1+B1+C1+D1	16	30
B+C+D+E	8	46

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Environmental Sciences	12	27
Meteorology Atmospheric Sciences	9	16
Engineering Chemical	3	10
Chemistry Physical	2	10
Chemistry Multidisciplinary		10
Engineering Environmental	5	1
Engineering Mechanical	2	4
n.a.	1	5
Public Environmental Occupational H	2	4
Thermodynamics		6
Construction Building Technology	4	
Nanoscience Nanotechnology	1	3
Spectroscopy	1	3
Toxicology	1	3
Biochemical Research Methods		3
Engineering Civil	3	
Chemistry Analytical		3
Materials Science Multidisciplinary		3
Physics Atomic Molecular Chemical	2	1
Respiratory System		3

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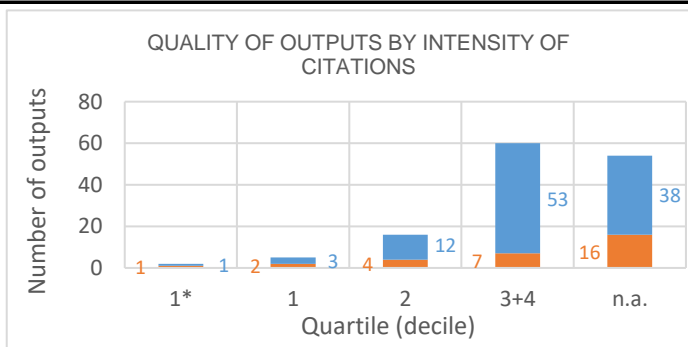
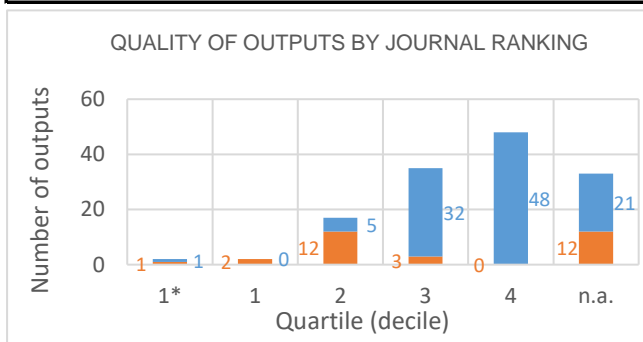
**Detailed explanation of the indicators is provided in the Methodology of evaluation, Annex 2 – Bibliometrics.**

**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 Chemical Process Fundamentals of the CAS, v. v. i.  
**Team:** Department of Catalysis and Reaction Engineering  
**Head:** Olga Šolcová  
**Field:** Chemical engineering  
**Total number of outputs:** 137      **Evaluated outputs:** 30



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	5	19
B		11
B1	6	29
C		16
C1	5	20
D	2	5
D1		2
E		
n.a.	12	5
Without affiliation		
A1+B1+C1+D1	16	70
B+C+D+E	2	32

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Engineering Chemical	12	33
Chemistry Physical	11	34
Chemistry Multidisciplinary		22
n.a.	12	5
Chemistry Applied	6	7
Energy Fuels	1	11
Materials Science Multidisciplinary	1	11
Environmental Sciences	4	4
Physics Applied		5
Biotechnology Applied Microbiology		4
Engineering Environmental	3	1
Nanoscience Nanotechnology	1	3
Physics Atomic Molecular Chemical		4
Electrochemistry		3
Materials Science Ceramics		3
Materials Science Coatings Films		3
Physics Condensed Matter		3
Polymer Science	1	2
Water Resources		3
Biochemistry Molecular Biology		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.

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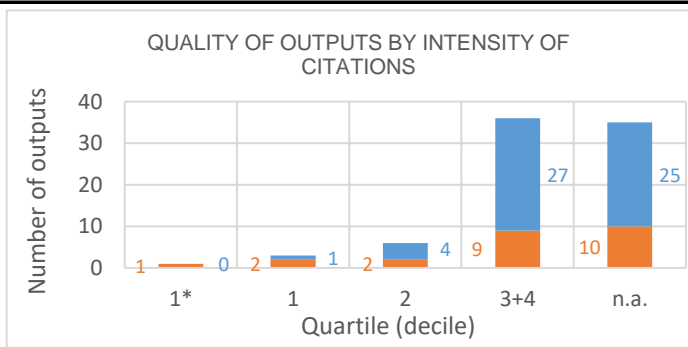
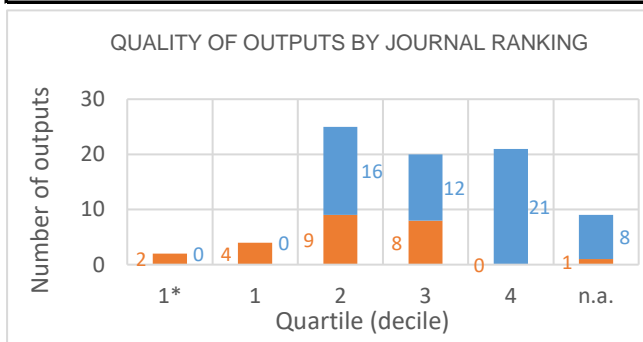
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**NOTE:** The significance of bibliometrics in technical sciences is very limited.

# 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 Chemical Process Fundamentals of the CAS, v. v. i.  
**Team:** Department of Multiphase Reactors  
**Head:** Marek Růžička  
**Field:** Chemical engineering  
**Total number of outputs:** 81      **Evaluated outputs:** 24



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	7	11
B	2	10
B1	7	15
C	5	6
C1	2	7
D		1
D1		2
E		
n.a.	1	5
Without affiliation		
A1+B1+C1+D1	16	35
B+C+D+E	7	17

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Engineering Chemical	16	22
Chemistry Physical	4	8
Energy Fuels	2	6
Chemistry Multidisciplinary		7
n.a.	1	5
Mechanics	2	3
Biotechnology Applied Microbiology		4
Environmental Sciences		3
Food Science Technology	1	2
Engineering Environmental	2	
Materials Science Multidisciplinary		2
Metallurgy Metallurgical Engineering		2
Meteorology Atmospheric Sciences	1	1
Mining Mineral Processing		2
Pharmacology Pharmacy	1	1
Physics Fluids Plasmas	1	1
Agricultural Engineering		1
Biophysics	1	
Chemistry Applied	1	
Limnology		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.

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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.

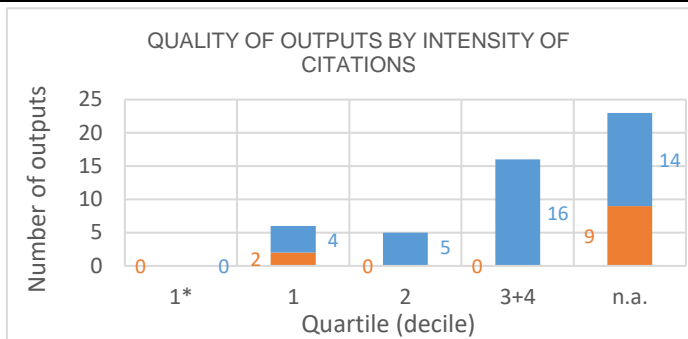
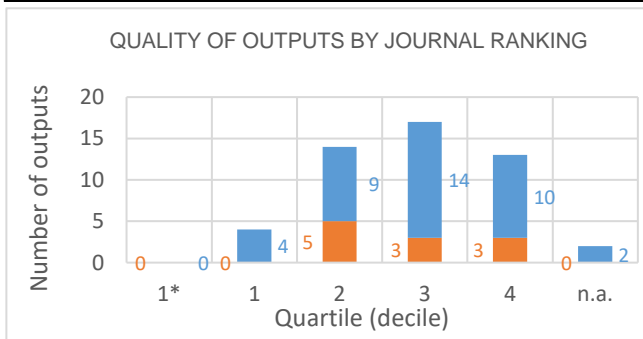
**Institute:** Institute of Chemical Process Fundamentals of the CAS, v. v. i.

**Team:** Department of Analytical Chemistry

**Head:** Jan Sýkora

**Field:** Chemical sciences

**Total number of outputs:** 50      **Evaluated outputs:** 11



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	3	2
B	4	14
B1	3	12
C		5
C1		3
D		
D1	1	2
E		
n.a.		1
Without affiliation		
A1+B1+C1+D1	7	19
B+C+D+E	4	19

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Chemistry Multidisciplinary	2	13
Chemistry Organic	4	7
Chemistry Physical	2	5
Chemistry Analytical	4	2
Spectroscopy	3	3
Engineering Chemical		4
Materials Science Multidisciplinary	1	3
Nanoscience Nanotechnology		3
Pharmacology Pharmacy	2	1
Physics Atomic Molecular Chemical	2	1
Biochemical Research Methods	2	
Biochemistry Molecular Biology	1	1
Environmental Sciences		2
Chemistry Applied		2
Chemistry Inorganic Nuclear		2
Chemistry Medicinal	2	
Instruments Instrumentation		2
Polymer Science		2
Biotechnology Applied Microbiology		1
Crystallography	1	

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

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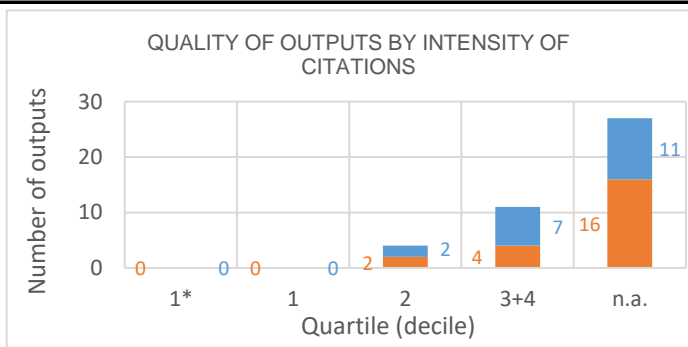
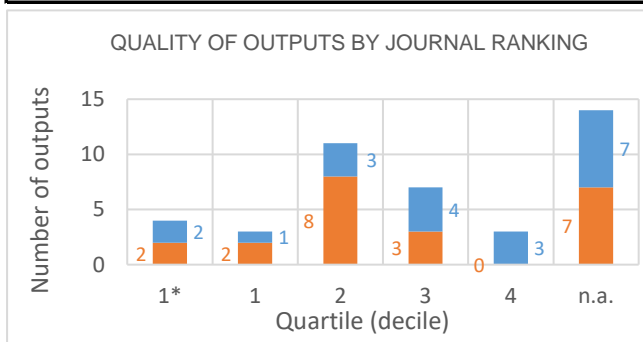
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# Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

**Institute:** Institute of Chemical Process Fundamentals of the CAS, v. v. i.  
**Team:** Department of Environmental Engineering  
**Head:** Michal Šyc  
**Field:** Chemical engineering  
**Total number of outputs:** 42      **Evaluated outputs:** 22



### TYPES OF COLLABORATION

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

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Engineering Chemical	7	9
Energy Fuels	5	5
Environmental Sciences	7	2
n.a.	7	2
Engineering Environmental	3	2
Green Sustainable Science Technolo		2
Biochemistry Molecular Biology		1
Biotechnology Applied Microbiology		1
Food Science Technology		1
Chemistry Applied		1
Chemistry Multidisciplinary		1
Mechanics		1
Mining Mineral Processing		1
Public Environmental Occupational H		1
Soil Science		1
Spectroscopy	1	
Water Resources		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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# 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.

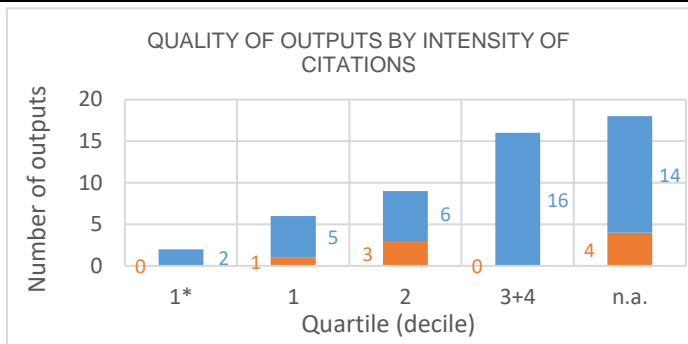
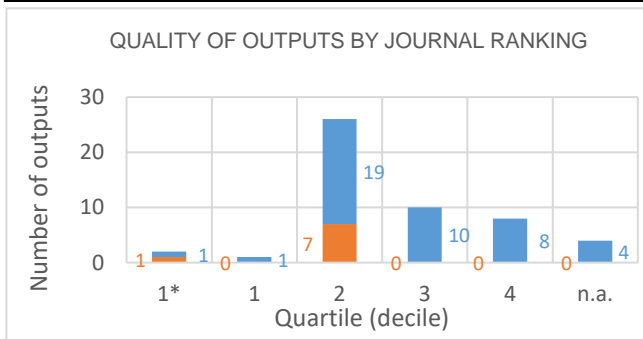
**Institute:** Institute of Chemical Process Fundamentals of the CAS, v. v. i.

**Team:** Department of Molecular and Mesoscopic Modelling

**Head:** Martin Lísal

**Field:** Chemical sciences

**Total number of outputs:** 51      **Evaluated outputs:** 8



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1		1
B		6
B1	4	10
C	1	16
C1	3	7
D		2
D1		1
E		
n.a.		
Without affiliation		
A1+B1+C1+D1	7	19
B+C+D+E	1	24

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Chemistry Physical	5	24
Physics Atomic Molecular Chemical	3	22
Physics Fluids Plasmas	2	8
Physics Mathematical	2	8
Materials Science Multidisciplinary	2	4
Physics Condensed Matter		6
Polymer Science		6
Chemistry Multidisciplinary	1	2
Nanoscience Nanotechnology	1	2
Physics Multidisciplinary	1	2
Physics Applied		2
Chemistry Analytical		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.

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

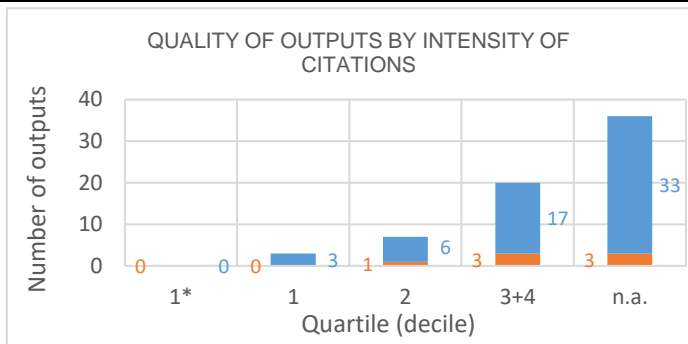
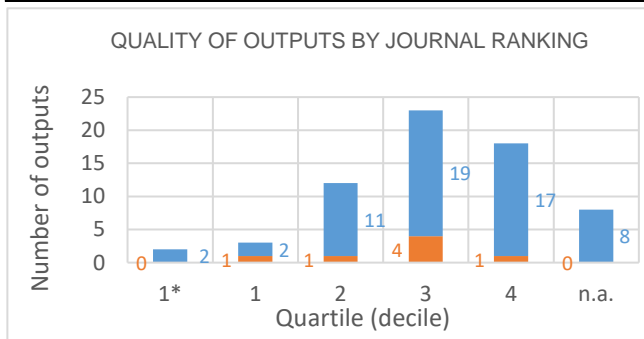
**Institute:** Institute of Chemical Process Fundamentals of the CAS, v. v. i.

**Team:** Department of Laser Chemistry

**Head:** Radek Fajgar

**Field:** Chemical sciences

**Total number of outputs:** 66      **Evaluated outputs:** 7



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1		7
B	1	8
B1	4	18
C	1	10
C1	1	7
D		7
D1		1
E		
n.a.		1
Without affiliation		
A1+B1+C1+D1	5	33
B+C+D+E	2	25

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Engineering Chemical		19
Chemistry Physical	2	16
Materials Science Multidisciplinary	4	9
Physics Applied	4	5
Chemistry Multidisciplinary	1	7
Nanoscience Nanotechnology		8
Environmental Sciences		5
Energy Fuels		4
Physics Condensed Matter	1	3
Engineering Mechanical		3
Chemistry Analytical		3
Chemistry Applied		3
Materials Science Coatings Films	1	1
Metallurgy Metallurgical Engineering	1	1
Meteorology Atmospheric Sciences		2
Polymer Science		2
Toxicology		2
Biotechnology Applied Microbiology		1
Crystallography		1
Electrochemistry		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.

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**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.**



# 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.

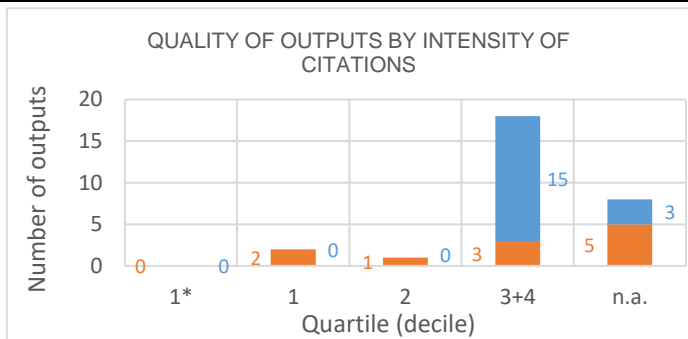
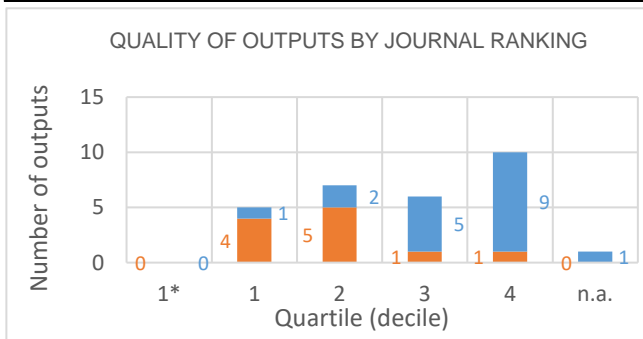
**Institute:** Institute of Chemical Process Fundamentals of the CAS, v. v. i.

**Team:** Group of Advanced Materials and Organic Synthesis

**Head:** Jan Storch

**Field:** Chemical sciences

**Total number of outputs:** 29      **Evaluated outputs:** 11



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	1	
B	4	12
B1	1	1
C	1	2
C1	1	
D		
D1	3	2
E		
n.a.		
Without affiliation		1
A1+B1+C1+D1	6	3
B+C+D+E	5	14

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Chemistry Physical	1	10
Engineering Chemical		6
Chemistry Analytical	1	2
Chemistry Multidisciplinary	2	1
Chemistry Organic	2	1
Physics Atomic Molecular Chemical	1	2
Electrochemistry	2	
Materials Science Multidisciplinary	1	1
Nanoscience Nanotechnology	1	1
Pharmacology Pharmacy		2
Polymer Science		2
Biochemical Research Methods	1	
Crystallography		1
Environmental Sciences	1	
Chemistry Medicinal		1
Materials Science Biomaterials		1
Thermodynamics		1
Toxicology	1	
Water Resources		1

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

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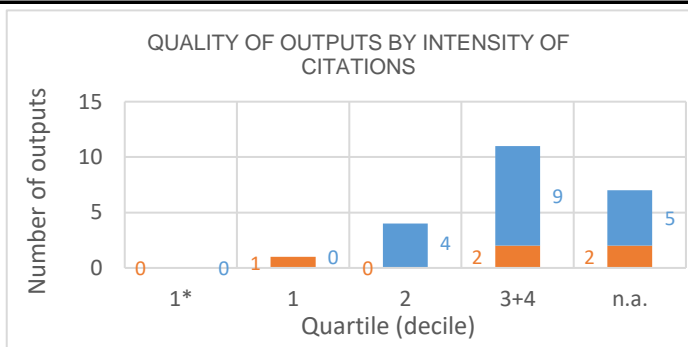
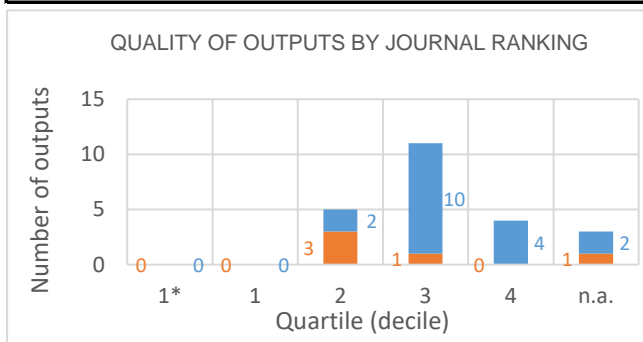
**Field structure of outputs:** number of outputs of the team in different subject categories (subfields); if the output is assigned to more than one field, the field where the publication performs best (assessed by Quality of outputs by journals ranking) is taken; the table shows up to 20 fields.

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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 Chemical Process Fundamentals of the CAS, v. v. i.  
**Team:** SuperCritical Technologies Group  
**Head:** Marie Sajfrtová  
**Field:** Chemical engineering  
**Total number of outputs:** 23      **Evaluated outputs:** 5



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	1	3
B		2
B1	2	6
C		3
C1	1	3
D		
D1		
E		
n.a.	1	1
Without affiliation		
A1+B1+C1+D1	4	12
B+C+D+E		5

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Engineering Chemical	3	11
Chemistry Physical	1	10
Environmental Sciences		2
Food Science Technology		2
Chemistry Multidisciplinary	1	1
n.a.	1	1
Water Resources		2
Agricultural Engineering	1	
Agronomy	1	
Engineering Environmental		1
Chemistry Applied		1
Limnology		1
Materials Science Multidisciplinary		1
Meteorology Atmospheric Sciences		1

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

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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.

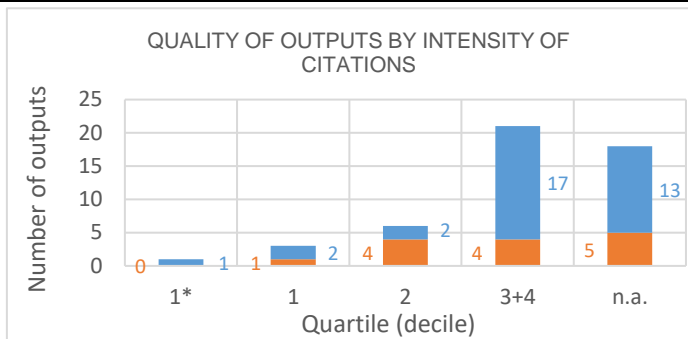
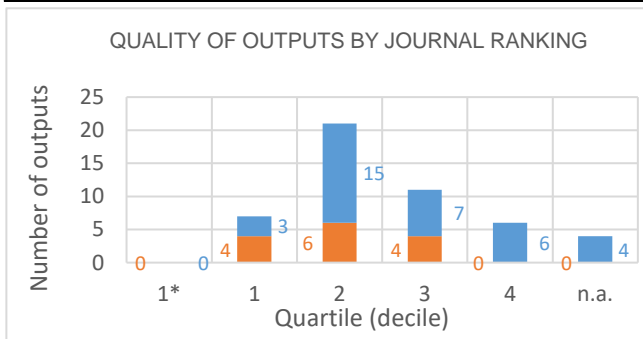
**Institute:** Institute of Chemical Process Fundamentals of the CAS, v. v. i.

**Team:** Department of Bioorganic Compounds and Nanocomposites

**Head:** Tomáš Strašák

**Field:** Chemical sciences

**Total number of outputs:** 49      **Evaluated outputs:** 14



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	1	5
B	2	7
B1	5	8
C	5	6
C1	1	3
D		
D1		4
E		
n.a.		1
Without affiliation		1
A1+B1+C1+D1	7	20
B+C+D+E	7	13

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Engineering Chemical	5	16
Chemistry Multidisciplinary	2	6
Chemistry Organic	4	1
Polymer Science	2	3
Chemistry Analytical	1	2
Chemistry Physical		3
Pharmacology Pharmacy	1	2
Electrochemistry		2
Environmental Sciences		2
Chemistry Inorganic Nuclear	2	
Biochemical Research Methods		1
Biochemistry Molecular Biology		1
Engineering Mechanical		1
Materials Science Biomaterials		1
Materials Science Multidisciplinary		1
Meteorology Atmospheric Sciences		1
n.a.		1
Nanoscience Nanotechnology	1	
Oncology		1
Physics Applied		1

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

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