

# 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.

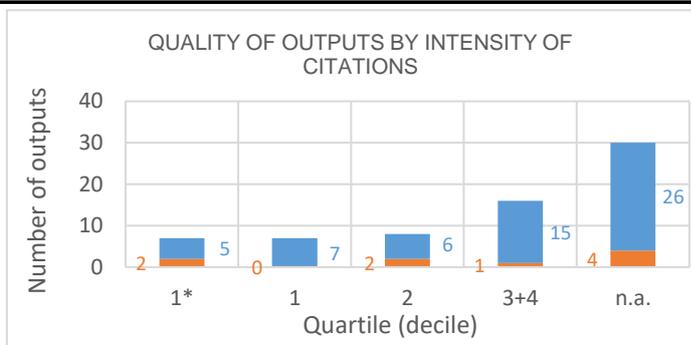
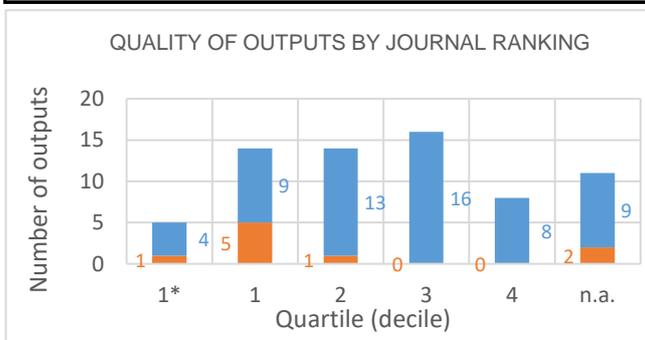
**Institute:** J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

**Team:** Spectroscopy

**Head:** RNDr. Martin Ferus Ph.D.

**Field:** Chemical sciences

**Total number of outputs:** 68      **Evaluated outputs:** 9



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1		3
B	1	14
B1	1	13
C	2	10
C1	2	4
D	1	8
D1	1	5
E		
n.a.	1	2
Without affiliation		
A1+B1+C1+D1	4	25
B+C+D+E	4	32

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Chemistry Physical	1	10
Materials Science Multidisciplinary	2	8
Nanoscience Nanotechnology	2	7
Astronomy Astrophysics	3	5
Optics		8
Chemistry Multidisciplinary	1	6
Physics Atomic Molecular Chemical		6
Chemistry Inorganic Nuclear		5
Biophysics		4
Materials Science Biomaterials		4
Multidisciplinary Sciences	2	2
Engineering Electrical Electronic		3
Engineering Chemical		3
Instruments Instrumentation		3
n.a.	1	2
Geochemistry Geophysics		2
Chemistry Analytical		2
Physics Applied		2
Telecommunications		2
Biochemistry Molecular Biology		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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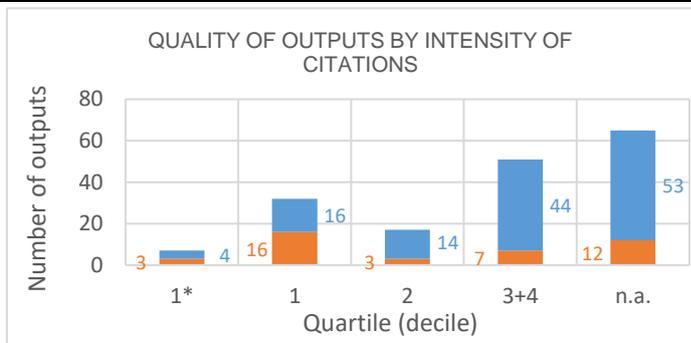
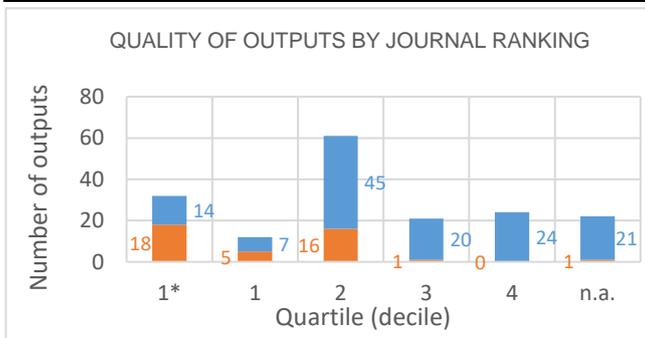
**Institute:** J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

**Team:** Theoretical and Computational Chemistry

**Head:** doc. Mgr. Jiří Pittner Dr. rer. nat., DSc.

**Field:** Chemical sciences

**Total number of outputs:** 172      **Evaluated outputs:** 41



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	4	16
B	1	9
B1	6	38
C	10	28
C1	15	27
D	5	4
D1		7
E		
n.a.		2
Without affiliation		
A1+B1+C1+D1	25	88
B+C+D+E	16	41

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Chemistry Physical	18	50
Physics Atomic Molecular Chemical	18	36
Chemistry Multidisciplinary	13	30
Materials Science Multidisciplinary	7	12
Electrochemistry		16
Nanoscience Nanotechnology	5	8
Biochemistry Molecular Biology	4	7
Chemistry Analytical		9
Biophysics	3	4
Optics	3	4
Chemistry Inorganic Nuclear		6
Multidisciplinary Sciences	1	5
Physics Multidisciplinary	2	3
Physics Nuclear		4
Engineering Chemical		3
Nuclear Science Technology		3
Physics Applied		3
Physics Condensed Matter		3
Quantum Science Technology		3
Environmental Sciences		2

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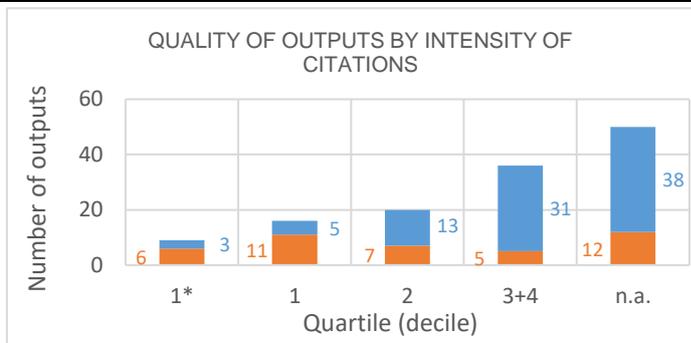
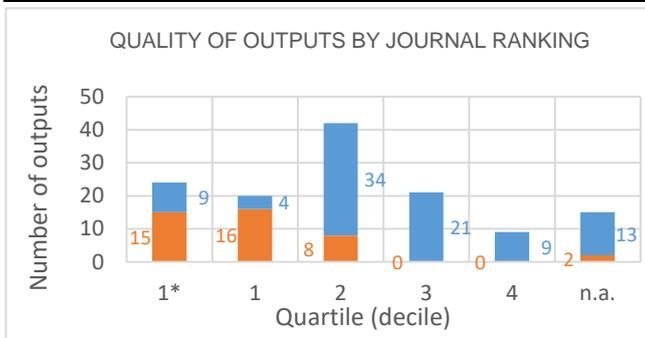
**Institute:** J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

**Team:** Biophysical Chemistry

**Head:** RNDr. ŠACHL Radek Ph.D.

**Field:** Chemical sciences

**Total number of outputs:** 131      **Evaluated outputs:** 41



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	6	16
B	3	12
B1	3	10
C	8	29
C1	11	9
D	4	7
D1	5	2
E		
n.a.	1	5
Without affiliation		
A1+B1+C1+D1	25	37
B+C+D+E	15	48

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Chemistry Physical	7	21
Chemistry Multidisciplinary	14	11
Biochemistry Molecular Biology	2	19
Electrochemistry	4	15
Biophysics	3	12
Materials Science Multidisciplinary	6	9
Chemistry Inorganic Nuclear	2	12
Multidisciplinary Sciences	7	5
Physics Atomic Molecular Chemical	5	7
Chemistry Analytical		11
Nanoscience Nanotechnology	6	1
Biochemical Research Methods		6
Cell Biology	3	3
n.a.	1	5
Physics Applied	3	2
Chemistry Organic		4
Physics Condensed Matter		2
Toxicology		2
Anatomy Morphology		1
Biology	1	

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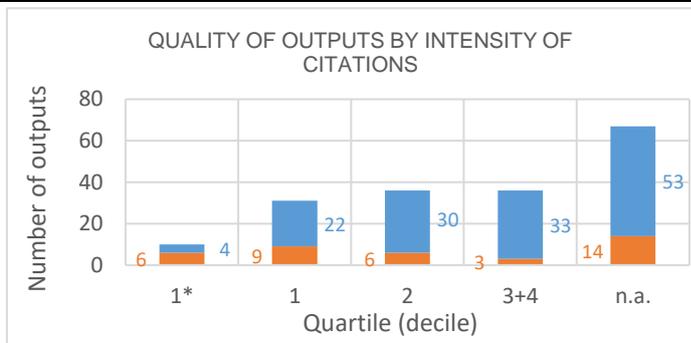
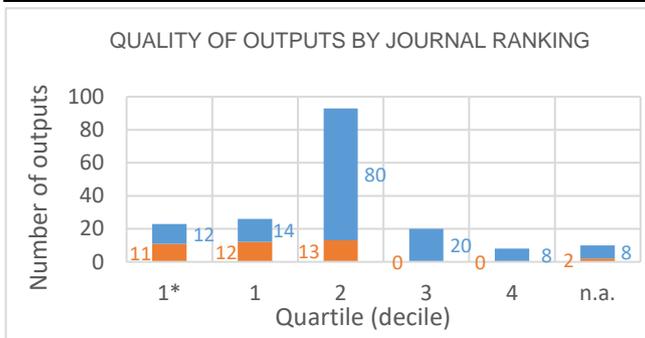
**Institute:** J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

**Team:** Structure and Dynamics in Catalysis

**Head:** Mgr. Jiří Dědeček CSc. DSc.

**Field:** Chemical sciences

**Total number of outputs:** 180      **Evaluated outputs:** 38



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	10	14
B	1	22
B1	9	21
C	3	45
C1	13	28
D		11
D1	1	
E		
n.a.	1	1
Without affiliation		
A1+B1+C1+D1	33	63
B+C+D+E	4	78

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Chemistry Physical	21	85
Engineering Chemical	11	39
Chemistry Applied	2	42
Chemistry Multidisciplinary	13	28
Materials Science Multidisciplinary	2	30
Nanoscience Nanotechnology	1	19
Environmental Sciences	3	6
Engineering Environmental	6	2
Chemistry Inorganic Nuclear	2	6
Energy Fuels	1	6
Green Sustainable Science Technolo	1	4
Chemistry Organic		4
Materials Science Coatings Films		4
Physics Applied		4
Physics Atomic Molecular Chemical		4
Physics Condensed Matter		4
Polymer Science		4
n.a.	1	1
Biochemical Research Methods		1
Construction Building Technology		1

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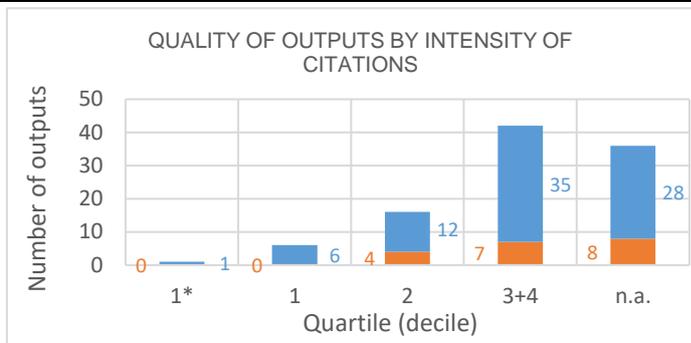
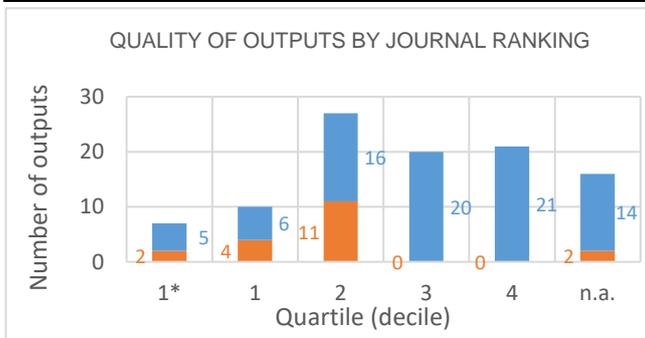
**Institute:** J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

**Team:** Molecular Electrochemistry and Catalysis

**Head:** prof. RNDr. Jiří Ludvík CSc.

**Field:** Chemical sciences

**Total number of outputs:** 101      **Evaluated outputs:** 19



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	3	8
B	2	12
B1	5	19
C	1	21
C1	6	21
D		1
D1	1	
E		
n.a.	1	
Without affiliation		
A1+B1+C1+D1	15	48
B+C+D+E	3	34

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Chemistry Inorganic Nuclear	7	22
Chemistry Physical	3	17
Electrochemistry	5	12
Chemistry Multidisciplinary	1	14
Chemistry Organic	2	12
Chemistry Analytical	1	8
Engineering Chemical		5
Chemistry Applied		5
Crystallography		4
Biochemistry Molecular Biology		3
Instruments Instrumentation		3
Physics Atomic Molecular Chemical		3
Materials Science Multidisciplinary	1	1
Optics		2
Polymer Science		2
Biophysics		1
Cell Biology		1
Computer Science Interdisciplinary A		1
Energy Fuels		1
Engineering Biomedical		1

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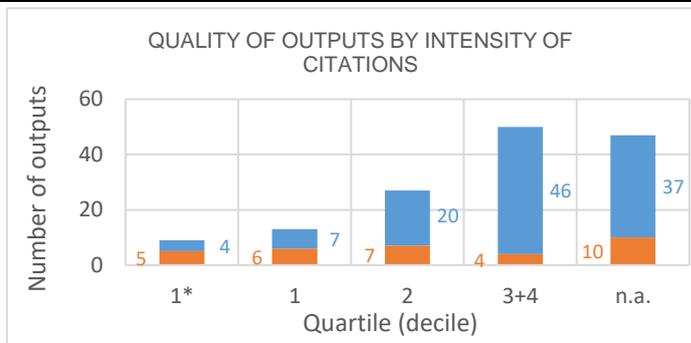
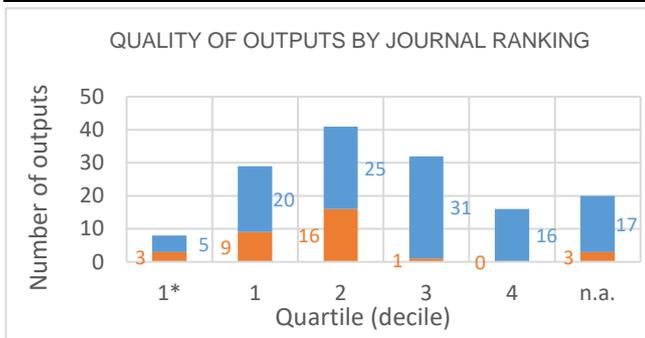
**Institute:** J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

**Team:** Electrochemical Materials

**Head:** prof. RNDr. Ladislav Kavan CSc., DSc.

**Field:** Chemical sciences

**Total number of outputs:** 146      **Evaluated outputs:** 32



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	5	15
B	1	13
B1	6	38
C	2	16
C1	12	16
D	2	13
D1	4	2
E		
n.a.		1
Without affiliation		
A1+B1+C1+D1	27	71
B+C+D+E	5	42

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Materials Science Multidisciplinary	16	36
Chemistry Physical	15	34
Chemistry Multidisciplinary	3	23
Electrochemistry	11	11
Nanoscience Nanotechnology	6	13
Physics Condensed Matter	3	11
Engineering Chemical		13
Physics Applied	3	9
Physics Atomic Molecular Chemical	4	4
Chemistry Analytical		7
Engineering Environmental		5
Chemistry Applied		5
Materials Science Coatings Films		5
Energy Fuels	2	2
Polymer Science		4
Chemistry Inorganic Nuclear		3
Instruments Instrumentation		3
Multidisciplinary Sciences	1	2
Environmental Sciences		2
Astronomy Astrophysics		1

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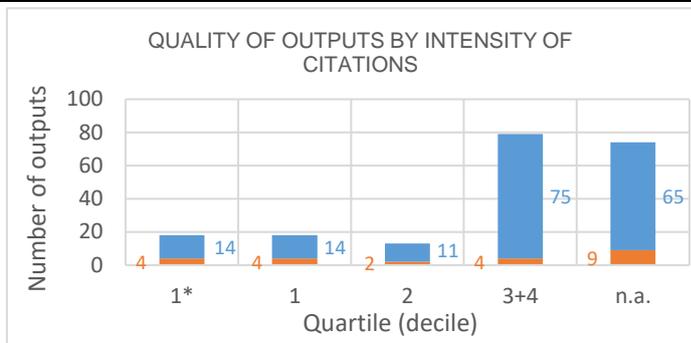
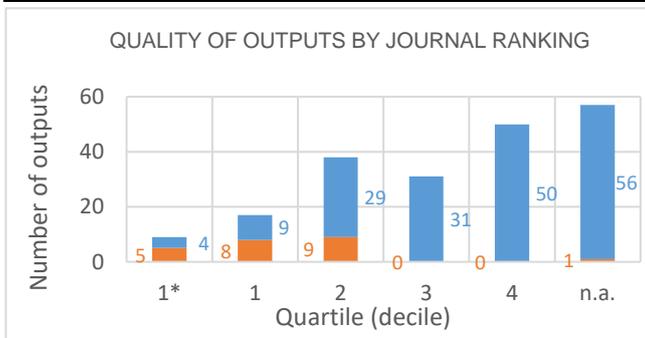
**Institute:** J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

**Team:** Electrochemistry at the Nanoscale

**Head:** Mgr. Magdaléna Hromadová Ph.D.

**Field:** Chemical sciences

**Total number of outputs:** 202      **Evaluated outputs:** 23



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1		8
B		31
B1	2	41
C	9	24
C1	7	35
D	2	35
D1	2	1
E		
n.a.	1	4
Without affiliation		
A1+B1+C1+D1	11	85
B+C+D+E	11	90

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Electrochemistry	8	54
Chemistry Multidisciplinary	7	39
Chemistry Analytical		44
Chemistry Physical	2	30
Toxicology		15
Chemistry Inorganic Nuclear	3	11
Instruments Instrumentation		11
Materials Science Multidisciplinary	3	4
Pharmacology Pharmacy		7
Nanoscience Nanotechnology	3	3
n.a.	1	4
Biochemistry Molecular Biology	1	3
Biochemical Research Methods		3
Endocrinology Metabolism	1	2
Physics Applied	1	2
Respiratory System		3
Biophysics		2
Environmental Sciences		2
Chemistry Organic		2
Public Environmental Occupational H		2

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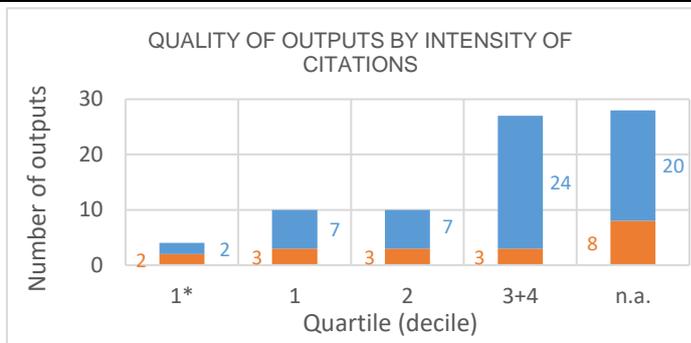
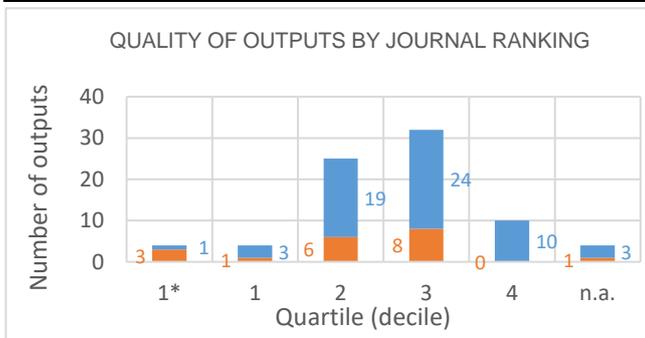
**Institute:** J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

**Team:** Chemistry of Ions in Gaseous Phase

**Head:** Patrik Španěl

**Field:** Chemical sciences

**Total number of outputs:** 79      **Evaluated outputs:** 19



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	2	5
B		8
B1	3	10
C	3	12
C1	8	18
D	1	4
D1	1	1
E		
n.a.	1	2
Without affiliation		
A1+B1+C1+D1	14	34
B+C+D+E	4	24

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Physics Atomic Molecular Chemical	3	18
Spectroscopy	3	17
Biochemical Research Methods	9	10
Chemistry Analytical	7	9
Chemistry Physical	2	14
Respiratory System	5	4
Chemistry Inorganic Nuclear		8
Chemistry Multidisciplinary	1	4
Food Science Technology		3
n.a.	1	2
Astronomy Astrophysics		2
Chemistry Organic		2
Multidisciplinary Sciences		2
Optics	1	1
Surgery	1	1
Biology		1
Electrochemistry		1
Engineering Chemical		1
Chemistry Applied		1
Materials Science Coatings Films		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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**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.

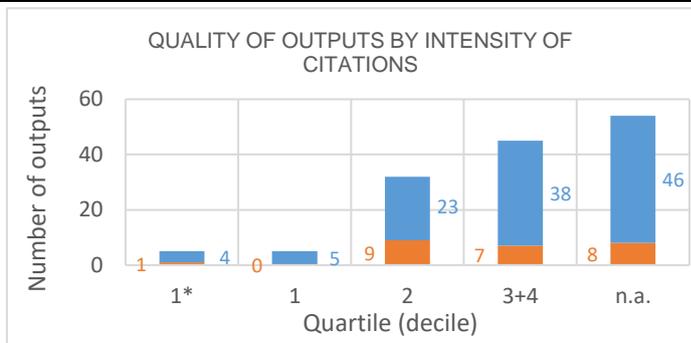
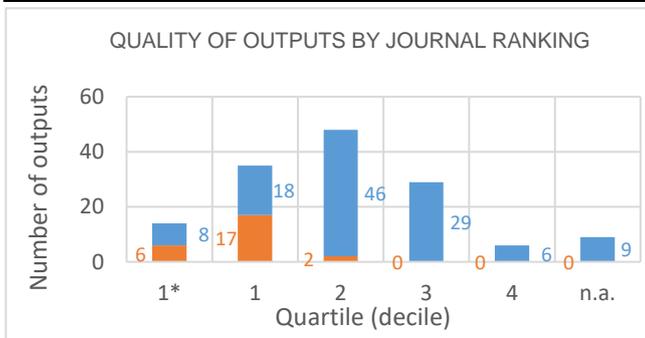
**Institute:** J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

**Team:** Low-dimensional Systems

**Head:** RNDr. Ing. KALBÁČ Martin Ph.D.

**Field:** Chemical sciences

**Total number of outputs:** 141      **Evaluated outputs:** 25



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1		4
B		2
B1		7
C		2
C1		6
D		3
D1		1
E		
n.a.		
Without affiliation		
A1+B1+C1+D1	18	
B+C+D+E	7	

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Materials Science Multidisciplinary	19	44
Chemistry Physical	12	46
Nanoscience Nanotechnology	6	28
Chemistry Multidisciplinary	7	23
Physics Condensed Matter		19
Physics Applied	3	13
Electrochemistry	2	6
Chemistry Applied		8
Engineering Chemical		7
Physics Atomic Molecular Chemical		7
Materials Science Coatings Films		5
Chemistry Analytical		4
Multidisciplinary Sciences	1	3
Chemistry Inorganic Nuclear		3
Chemistry Organic		3
Materials Science Biomaterials		2
Polymer Science		2
Spectroscopy		2
Energy Fuels		1
Engineering Environmental		1

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

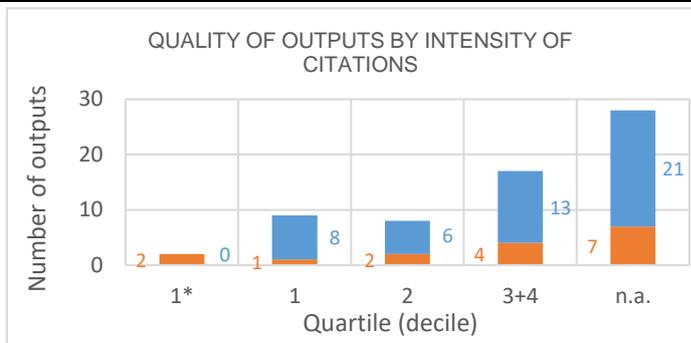
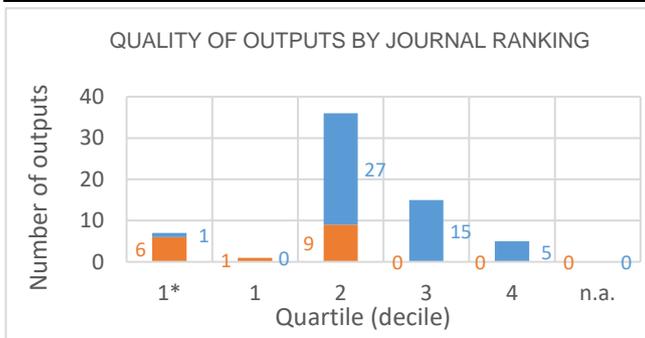
**Institute:** J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

**Team:** Dynamics of Molecules and Clusters

**Head:** Mgr. Juraj Fedor Ph.D.

**Field:** Chemical sciences

**Total number of outputs:** 64      **Evaluated outputs:** 16



### TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	2	5
B		1
B1	2	10
C	2	13
C1	9	17
D	1	
D1		
E		1
n.a.		1
Without affiliation		
A1+B1+C1+D1	13	32
B+C+D+E	3	15

### FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Physics Atomic Molecular Chemical	8	33
Chemistry Physical	10	30
Materials Science Multidisciplinary	5	4
Nanoscience Nanotechnology	5	4
Optics	2	6
Spectroscopy	1	6
Physics Applied		4
Chemistry Analytical		2
Chemistry Multidisciplinary		2
Physics Fluids Plasmas		2
Biochemical Research Methods		1
Biochemistry Molecular Biology		1
Environmental Sciences	1	
Food Science Technology		1
Instruments Instrumentation		1
Meteorology Atmospheric Sciences	1	
Multidisciplinary Sciences	1	
Nuclear Science Technology		1
Physics Multidisciplinary	1	

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