

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.

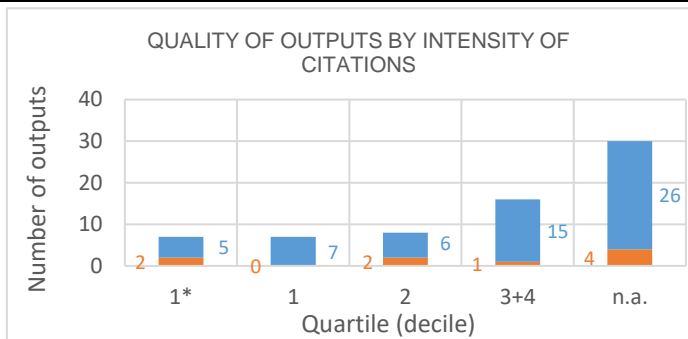
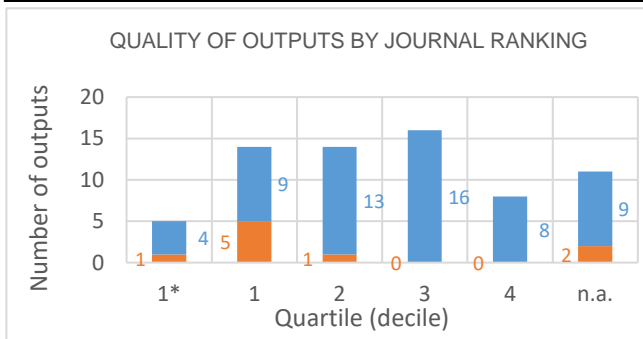
Institute: J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

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.

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.

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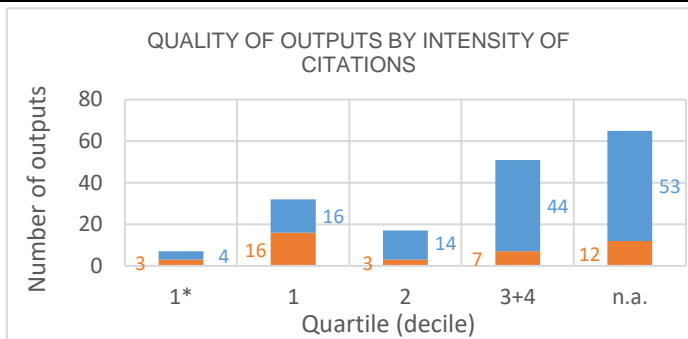
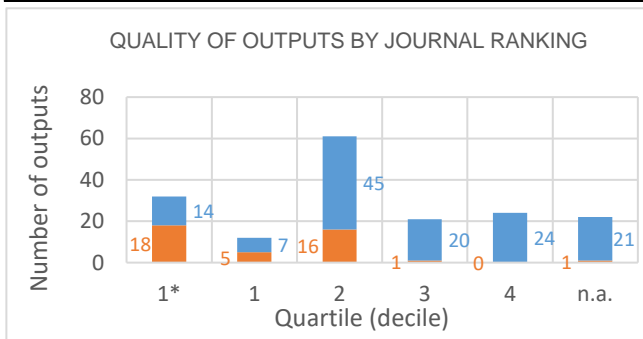
Institute: J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

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

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

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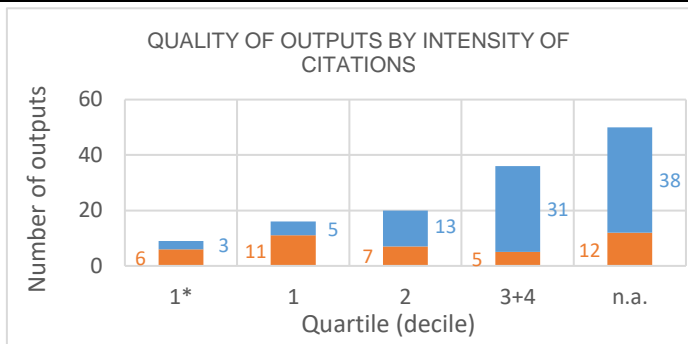
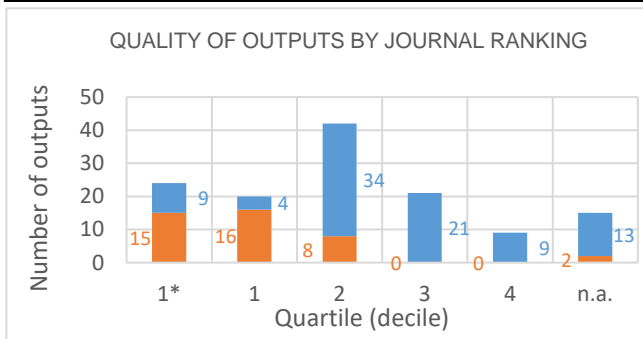
Institute: J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

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	

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

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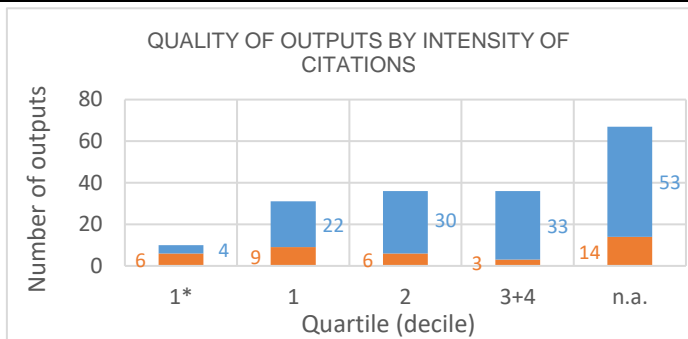
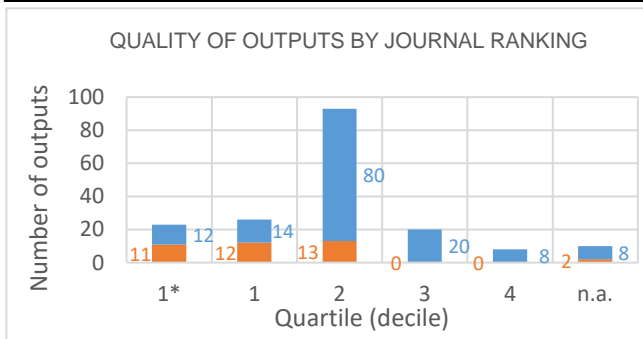
Institute: J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

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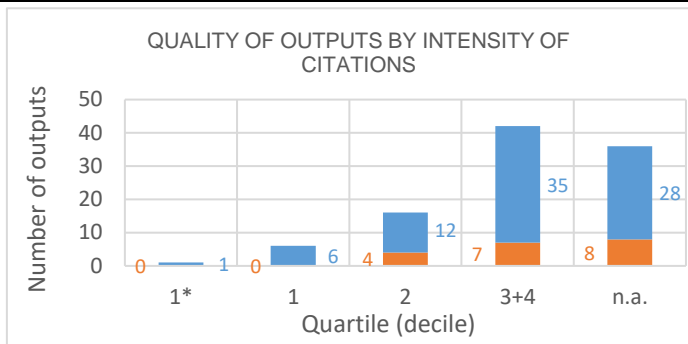
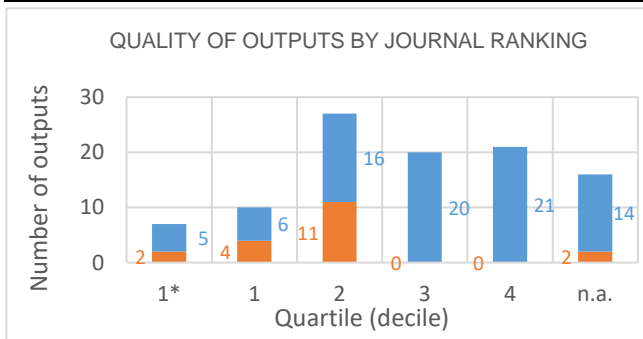
Institute: J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

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

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

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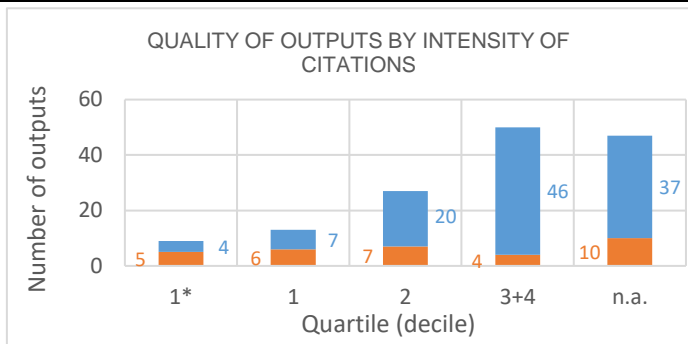
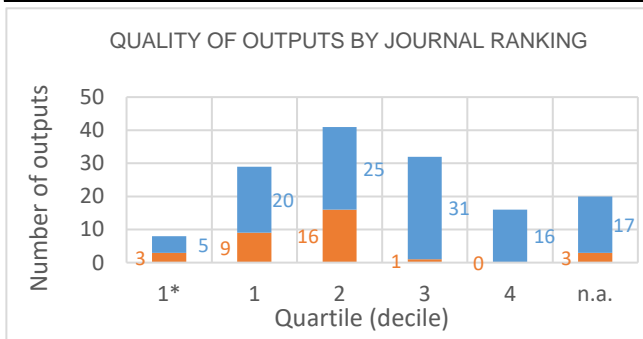
Institute: J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

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

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

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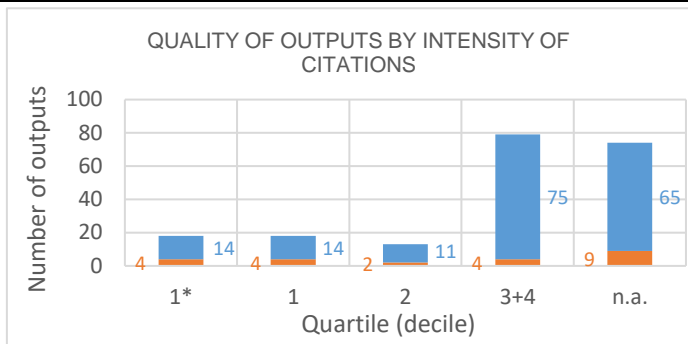
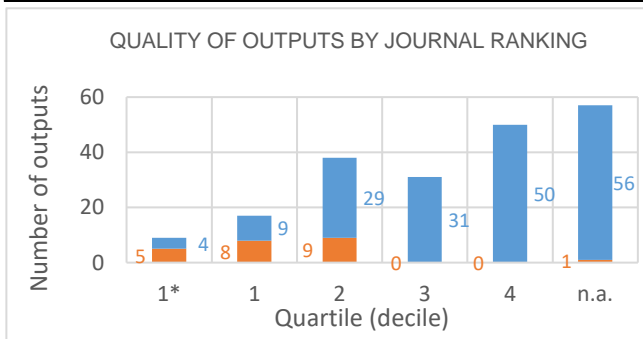
Institute: J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

Team: Electrochemistry at the Nanoscale

Head: Mgr. Magdaléna Hromádová 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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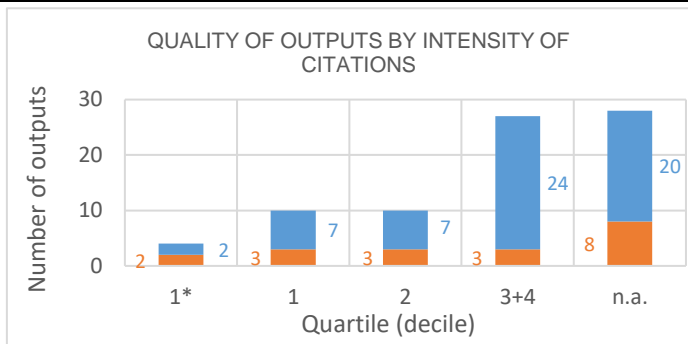
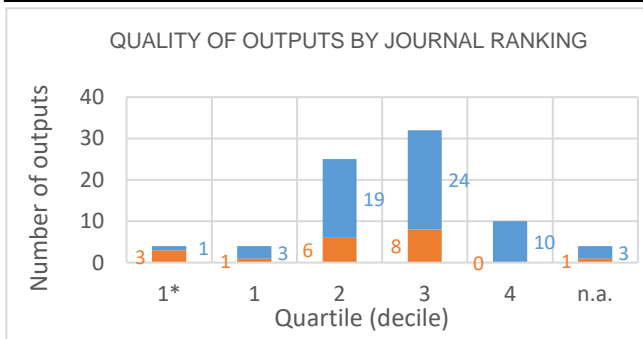
Institute: J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

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

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

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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.

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.

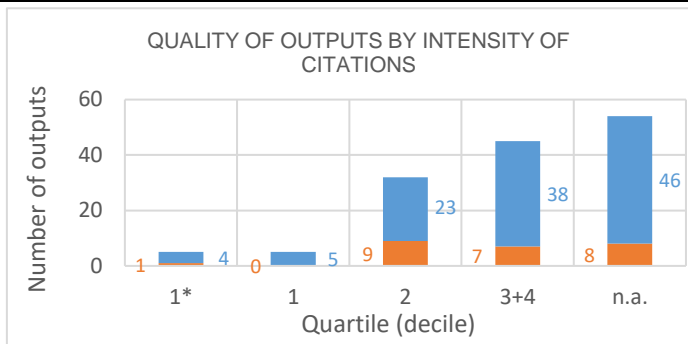
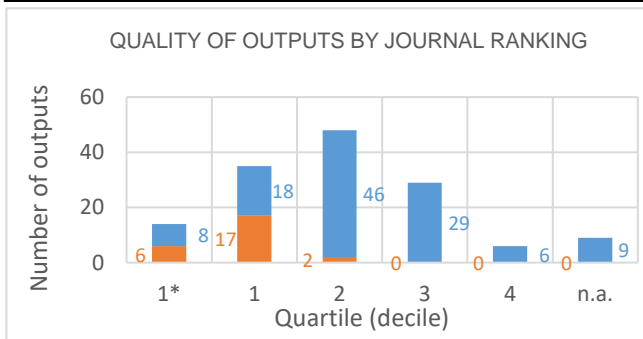
Institute: J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

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

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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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.

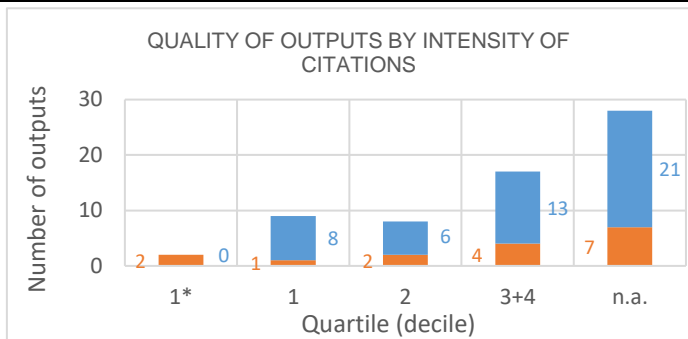
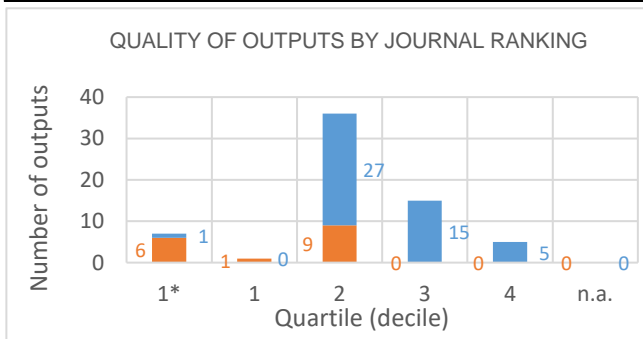
Institute: J. Heyrovsky Institute of Physical Chemistry of the CAS, v. v. i.

Team: 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	

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

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