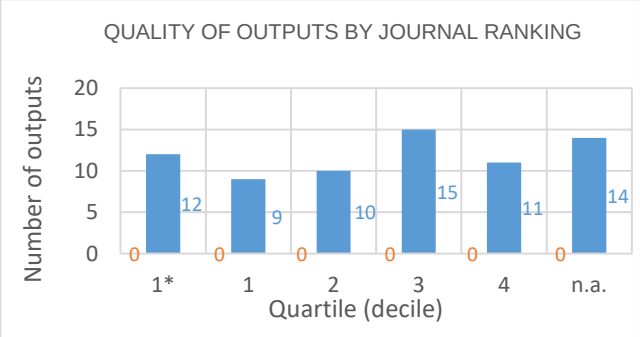
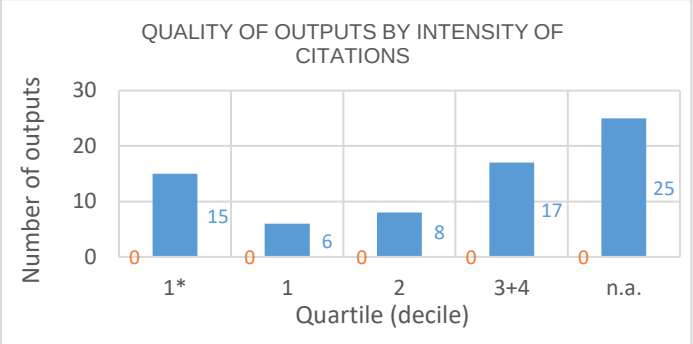
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Astroparticle Physics
Head: RNDr. Petr Trávníček, Ph.D.
Field: Physical sciences
Total number of outputs: 71 **Evaluated outputs:** 0





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1		3
B		3
B1		1
C		4
C1		7
D		48
D1		2
E		2
n.a.		1
Without affiliation		
A1+B1+C1+D1		13
B+C+D+E		57

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Astronomy Astrophysics		53
Physics Particles Fields		29
Instruments Instrumentation		9
Physics Multidisciplinary		5
Physics Nuclear		2
Computer Science Interdisciplinary A		1
Multidisciplinary Sciences		1
n.a.		1
Nuclear Science Technology		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.
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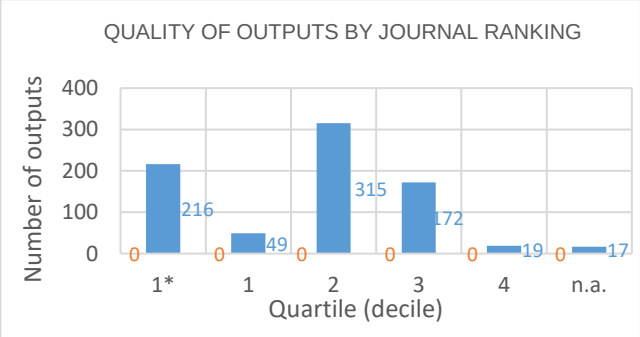
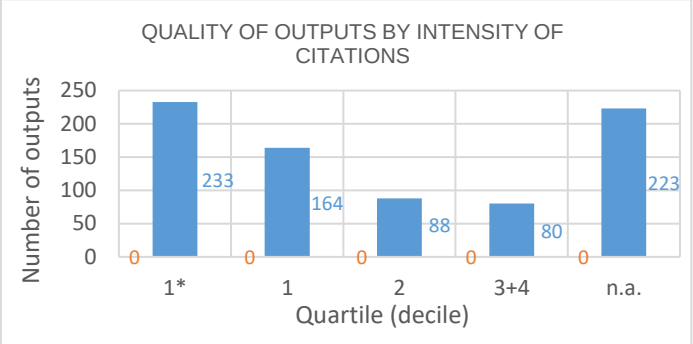
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Experimental Particle Physics
Head: doc. Alexander Kupčo, Ph.D.
Field: Physical sciences
Total number of outputs: 788 **Evaluated outputs:** 0





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1		8
B		1
B1		2
C		2
C1		
D		326
D1		2
E		441
n.a.		6
Without affiliation		
A1+B1+C1+D1		12
B+C+D+E		770

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Physics Particles Fields		576
Astronomy Astrophysics		273
Physics Nuclear		236
Physics Multidisciplinary		76
Instruments Instrumentation		33
n.a.		5
Nuclear Science Technology		5
Computer Science Interdisciplinary A		4
Multidisciplinary Sciences		1
Optics		1
Physics Mathematical		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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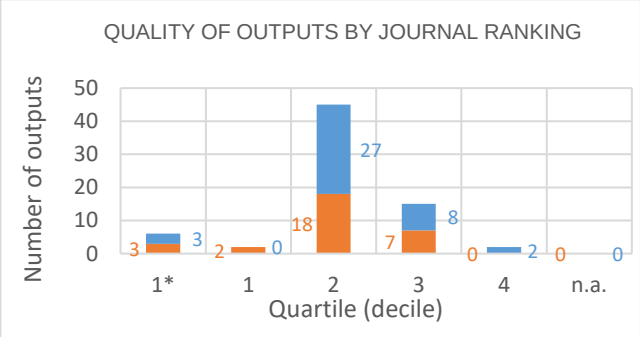
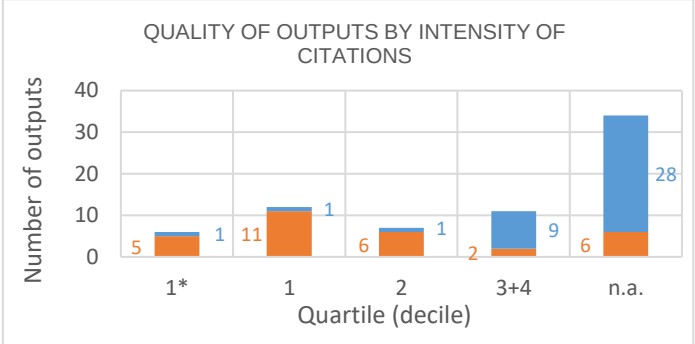
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Particle Theory and Cosmology
Head: Mgr. Martin Schnabl, Ph.D.
Field: Physical sciences
Total number of outputs: 70 **Evaluated outputs:** 30





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	6	4
B		2
B1		
C	13	9
C1	8	16
D	3	7
D1		1
E		
n.a.		1
Without affiliation		
A1+B1+C1+D1	14	21
B+C+D+E	16	18

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Physics Particles Fields	25	34
Astronomy Astrophysics	15	25
Physics Multidisciplinary	3	4
Physics Nuclear		2
Quantum Science Technology		2
Physics Mathematical		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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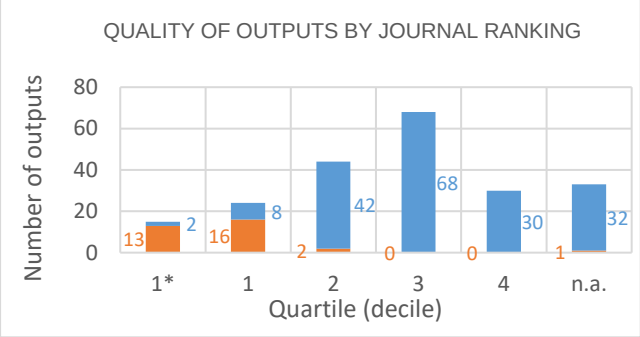
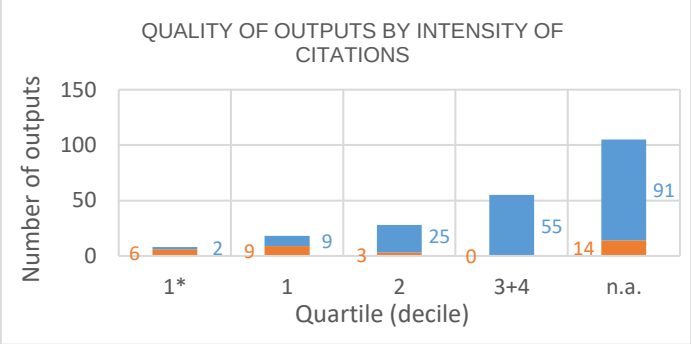
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Functional Metal Materials and Thin Films
Head: RNDr. Petr Šittner, CSc.
Field: Materials engineering
Total number of outputs: 214 **Evaluated outputs:** 32





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1		10
B	5	47
B1	3	32
C	4	36
C1	10	33
D	6	6
D1	3	13
E		
n.a.	1	1
Without affiliation		4
A1+B1+C1+D1	16	88
B+C+D+E	15	89

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Materials Science Multidisciplinary	26	98
Physics Applied	5	49
Metallurgy Metallurgical Engineering	6	27
Physics Condensed Matter	1	30
Chemistry Physical	6	23
Nanoscience Nanotechnology	7	18
Materials Science Coatings Films		19
Engineering Electrical Electronic		11
Engineering Mechanical	4	7
Chemistry Multidisciplinary	4	6
Instruments Instrumentation		10
Electrochemistry		9
Multidisciplinary Sciences	3	5
Physics Multidisciplinary		6
Materials Science Biomaterials		5
Mechanics	3	1
Crystallography		3
Energy Fuels	1	2
Chemistry Analytical		3
Materials Science Composites		3

Total number of outputs: outputs of the team published during the evaluated period 2015-2019.
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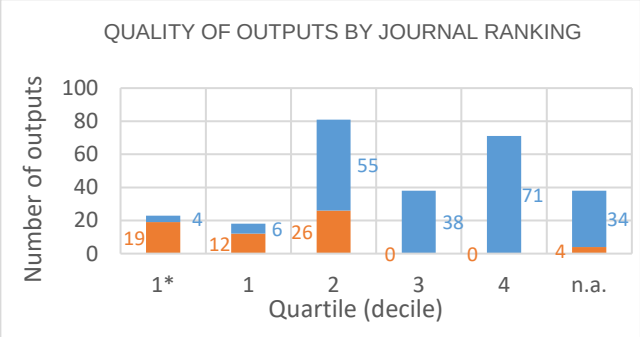
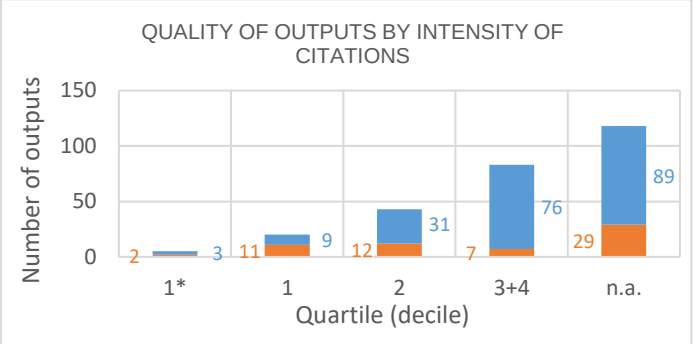
NOTE: The significance of bibliometrics in technical sciences is very limited.

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 Physics of the CAS, v. v. i.
Team: Dielectrics
Head: Ing. Jiří Hlinka, Ph.D.
Field: Physical sciences
Total number of outputs: 269 **Evaluated outputs:** 61





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	8	33
B	1	14
B1	4	18
C	11	63
C1	20	48
D	10	18
D1	3	5
E		
n.a.	4	5
Without affiliation		4
A1+B1+C1+D1	35	104
B+C+D+E	22	95

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Materials Science Multidisciplinary	33	74
Physics Applied	31	57
Physics Condensed Matter	24	64
Crystallography	3	64
Chemistry Multidisciplinary	5	37
Chemistry Physical	6	16
Engineering Electrical Electronic		20
Nanoscience Nanotechnology	5	8
Optics	1	9
n.a.	4	5
Multidisciplinary Sciences	5	3
Polymer Science	1	7
Physics Atomic Molecular Chemical		7
Metallurgy Metallurgical Engineering	1	5
Physics Multidisciplinary	6	
Materials Science Ceramics	2	2
Biology		3
Electrochemistry		3
Spectroscopy		3
Biophysics		2

Total number of outputs: outputs of the team published during the evaluated period 2015-2019.
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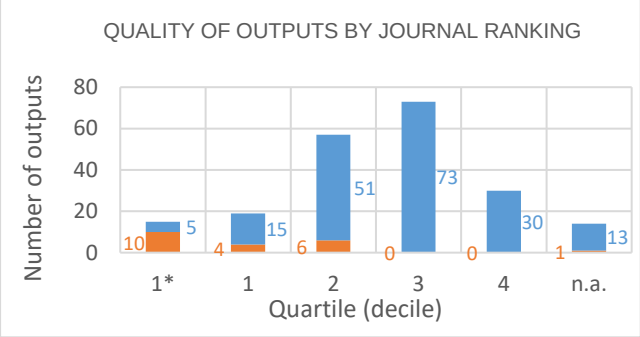
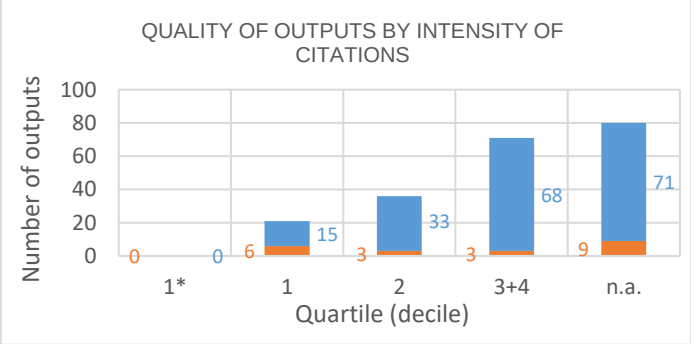
BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

Institute: Institute of Physics of the CAS, v. v. i.
Team: Magnetic Materials
Head: Dr. Oleg Heczko
Field: Materials engineering
Total number of outputs: 208 **Evaluated outputs:** 21





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	3	16
B		24
B1	3	22
C	6	53
C1	5	41
D	3	18
D1		10
E		
n.a.	1	1
Without affiliation		2
A1+B1+C1+D1	11	89
B+C+D+E	9	95

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Materials Science Multidisciplinary	14	97
Physics Applied	7	66
Physics Condensed Matter	4	63
Metallurgy Metallurgical Engineering	11	30
Chemistry Physical		30
Nanoscience Nanotechnology	4	16
Engineering Electrical Electronic		14
Physics Multidisciplinary		9
Instruments Instrumentation		7
Multidisciplinary Sciences		7
Chemistry Multidisciplinary	1	5
Materials Science Coatings Films		6
Materials Science Characterization Te	2	4
Mechanics		3
Engineering Multidisciplinary		2
Materials Science Biomaterials		2
n.a.	1	1
Crystallography		1
Electrochemistry		1
Energy Fuels		1

Total number of outputs: outputs of the team published during the evaluated period 2015-2019.
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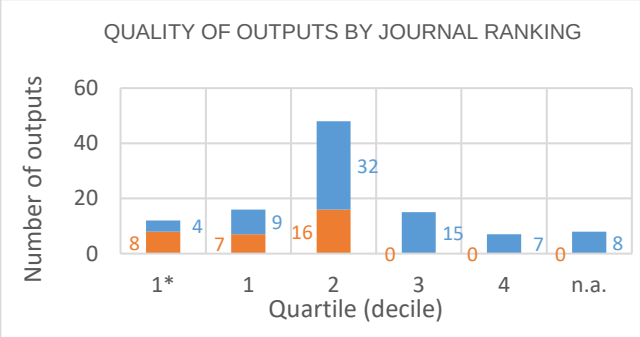
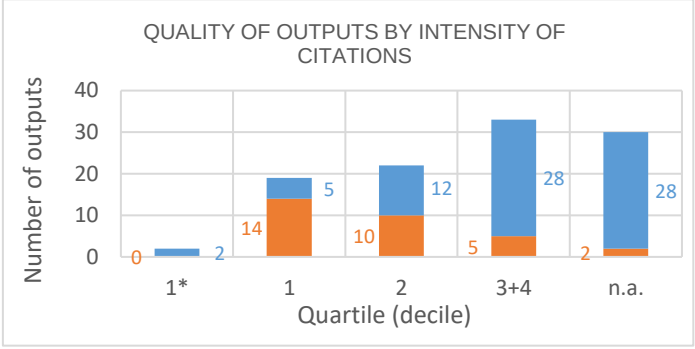
BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

Institute: Institute of Physics of the CAS, v. v. i.
Team: Microscopic Theory of Advanced Materials
Head: Mgr. Jindřich Kolorenč, Ph.D.
Field: Physical sciences
Total number of outputs: 106 **Evaluated outputs:** 31





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	4	7
B	2	5
B1	4	15
C	6	26
C1	12	11
D	3	7
D1		3
E		
n.a.		
Without affiliation		1
A1+B1+C1+D1	20	36
B+C+D+E	11	38

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Physics Condensed Matter	13	49
Materials Science Multidisciplinary	14	40
Physics Applied	15	39
Physics Multidisciplinary	6	7
Multidisciplinary Sciences	5	3
Physics Mathematical	3	2
Nanoscience Nanotechnology	2	2
Optics	1	3
Computer Science Interdisciplinary Ap	1	1
Chemistry Physical		2
Instruments Instrumentation	1	1
Mathematics Applied		2
Metallurgy Metallurgical Engineering		2
Physics Atomic Molecular Chemical		2
Computer Science Software Engineer		1
Crystallography		1
Chemistry Multidisciplinary		1
Physics Fluids Plasmas	1	
Physics Nuclear		1
Physics Particles Fields		1

Total number of outputs: outputs of the team published during the evaluated period 2015-2019.
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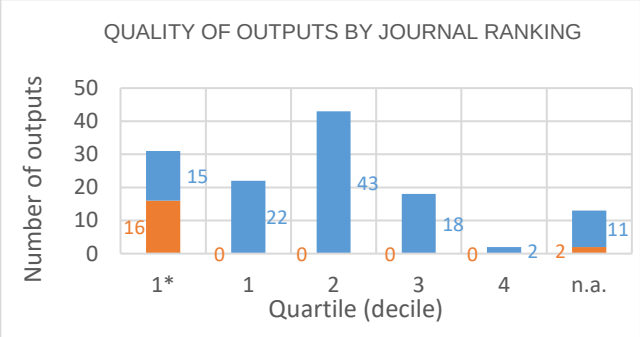
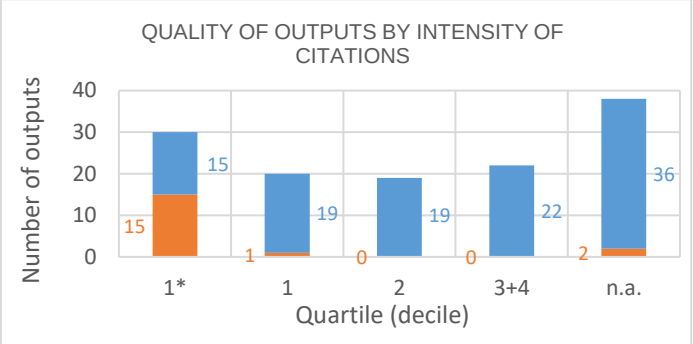
BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

Institute: Institute of Physics of the CAS, v. v. i.
Team: Spintronics and Nanoelectronics
Head: prof. Tomáš Jungwirth, Ph.D.
Field: Physical sciences
Total number of outputs: 129 **Evaluated outputs:** 18





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1		2
B		3
B1		2
C	4	49
C1	2	9
D	9	37
D1	1	1
E		
n.a.	2	7
Without affiliation		1
A1+B1+C1+D1	3	14
B+C+D+E	13	89

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Physics Applied	1	60
Materials Science Multidisciplinary	2	51
Physics Condensed Matter		43
Physics Multidisciplinary	8	12
Multidisciplinary Sciences	5	12
Nanoscience Nanotechnology	2	9
n.a.	2	7
Chemistry Multidisciplinary		5
Chemistry Physical		5
Metallurgy Metallurgical Engineering		4
Engineering Electrical Electronic		3
Instruments Instrumentation		3
Nuclear Science Technology		2
Crystallography		1
Engineering Multidisciplinary		1
Environmental Sciences		1
Materials Science Coatings Films		1
Mathematics		1
Optics	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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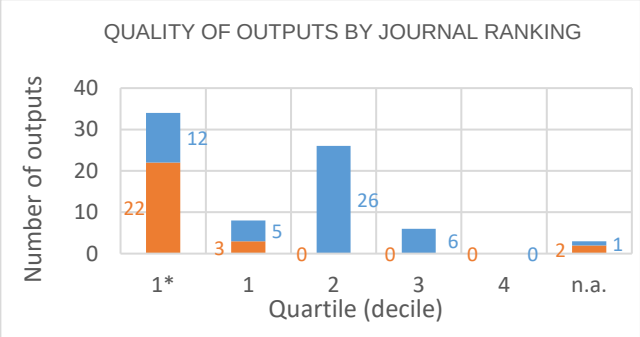
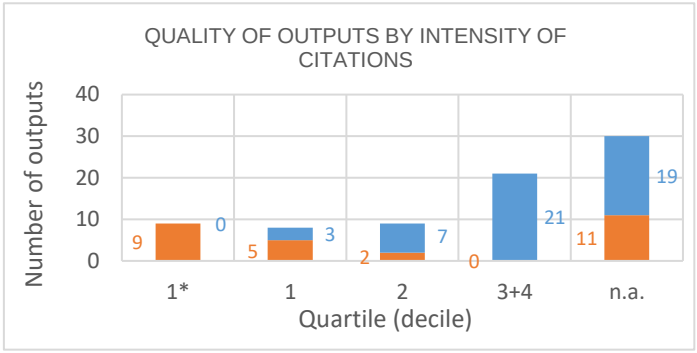
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Low-Dimensional Atomic and Molecular Structures
Head: doc. Ing. Pavel Jelínek, Ph.D.
Field: Physical sciences
Total number of outputs: 77 **Evaluated outputs:** 27





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	1	8
B	1	4
B1	2	7
C	10	11
C1	5	8
D	2	11
D1	4	1
E		
n.a.	2	
Without affiliation		
A1+B1+C1+D1	12	24
B+C+D+E	13	26

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Materials Science Multidisciplinary	3	33
Nanoscience Nanotechnology	3	25
Chemistry Physical	3	20
Chemistry Multidisciplinary	10	11
Physics Applied		21
Physics Condensed Matter		13
Multidisciplinary Sciences	9	2
Physics Atomic Molecular Chemical	1	6
Physics Multidisciplinary	5	1
Materials Science Coatings Films		2
n.a.	2	
Engineering Multidisciplinary		1
Instruments Instrumentation		1
Metallurgy Metallurgical Engineering		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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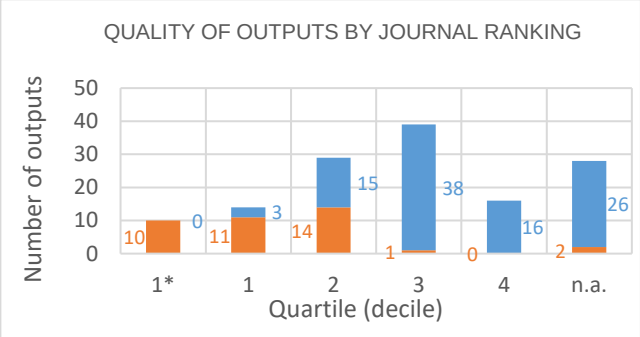
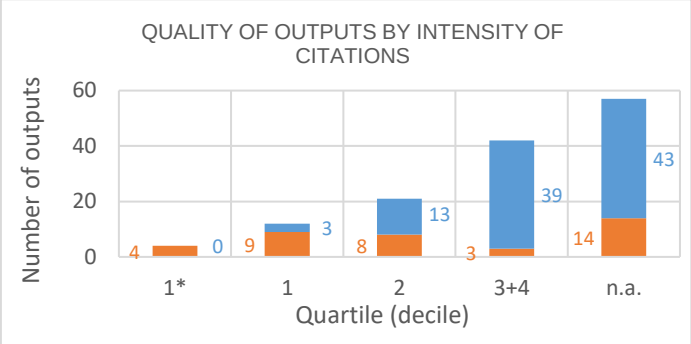
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Thin Films and Nanostructures
Head: RNDr. Antonín Fejfar, CSc.
Field: Physical sciences
Total number of outputs: 136 **Evaluated outputs:** 38





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	1	10
B	1	12
B1	6	25
C	12	20
C1	9	24
D	6	2
D1	1	3
E		
n.a.	2	2
Without affiliation		
A1+B1+C1+D1	17	62
B+C+D+E	19	34

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Materials Science Multidisciplinary	24	40
Physics Applied	13	39
Physics Condensed Matter	5	32
Nanoscience Nanotechnology	15	21
Chemistry Physical	15	16
Chemistry Multidisciplinary	5	11
Materials Science Coatings Films	2	11
Energy Fuels	5	2
Engineering Electrical Electronic		7
Physics Atomic Molecular Chemical	6	1
Optics	2	4
Materials Science Biomaterials		5
Multidisciplinary Sciences	5	
Biophysics		4
n.a.	2	2
Crystallography		3
Chemistry Analytical		2
Physics Multidisciplinary	1	1
Spectroscopy		2
Education Scientific Disciplines		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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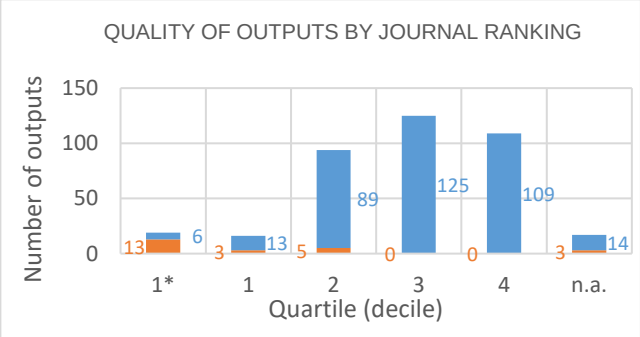
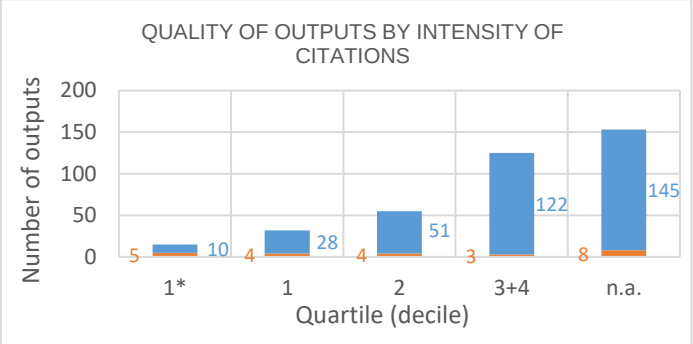
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Structure Analysis
Head: RNDr. Michal Dušek, CSc.
Field: Physical sciences
Total number of outputs: 380 **Evaluated outputs:** 24





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	3	18
B	1	46
B1	3	21
C	8	180
C1	4	45
D	2	38
D1		3
E		
n.a.	3	3
Without affiliation		2
A1+B1+C1+D1	10	87
B+C+D+E	11	264

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Chemistry Multidisciplinary	8	80
Mineralogy		78
Crystallography	7	64
Chemistry Inorganic Nuclear	4	60
Materials Science Multidisciplinary	3	57
Chemistry Physical	2	53
Physics Applied		34
Physics Condensed Matter		33
Geochemistry Geophysics		22
Metallurgy Metallurgical Engineering		13
Chemistry Organic		11
Multidisciplinary Sciences	5	4
Nanoscience Nanotechnology	1	8
Chemistry Applied		7
Physics Atomic Molecular Chemical		7
Instruments Instrumentation		6
Mining Mineral Processing		6
Optics		6
n.a.	3	2
Physics Nuclear		5

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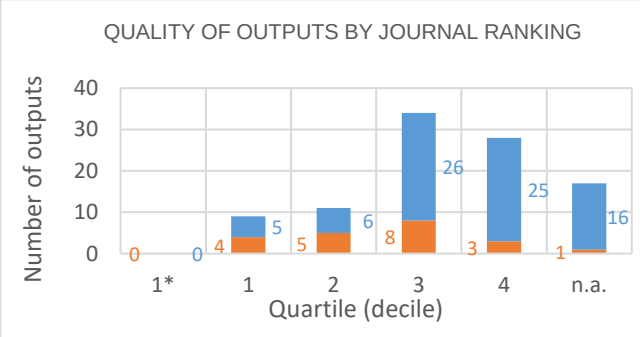
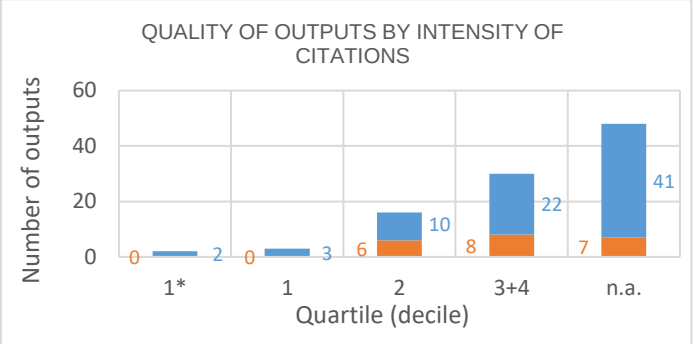
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Semiconductors
Head: RNDr. Jiří J. Mareš, CSc.
Field: Physical sciences
Total number of outputs: 99 **Evaluated outputs:** 21





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	7	4
B	1	22
B1	3	8
C	2	15
C1	6	17
D	1	7
D1		4
E		
n.a.	1	1
Without affiliation		
A1+B1+C1+D1	16	33
B+C+D+E	4	44

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Materials Science Multidisciplinary	8	32
Physics Applied	13	23
Physics Condensed Matter	5	15
Chemistry Physical	3	12
Optics		12
Crystallography	8	3
Engineering Electrical Electronic	1	8
Materials Science Coatings Films	2	7
Materials Science Ceramics		7
Nanoscience Nanotechnology		7
Physics Multidisciplinary	4	1
Chemistry Analytical	1	3
Chemistry Multidisciplinary	1	3
Instruments Instrumentation		4
Thermodynamics	1	3
Physics Atomic Molecular Chemical		3
Energy Fuels		2
n.a.	1	1
Nuclear Science Technology		2
Physics Nuclear		2

Total number of outputs: outputs of the team published during the evaluated period 2015-2019.
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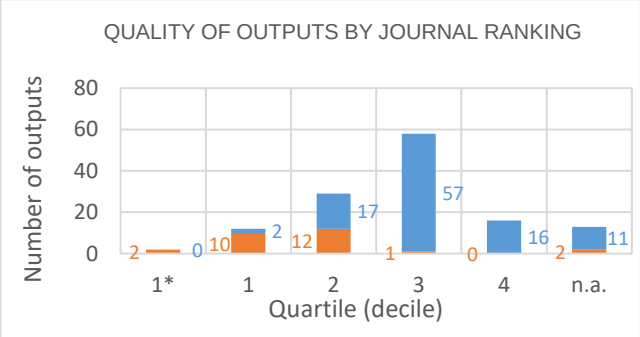
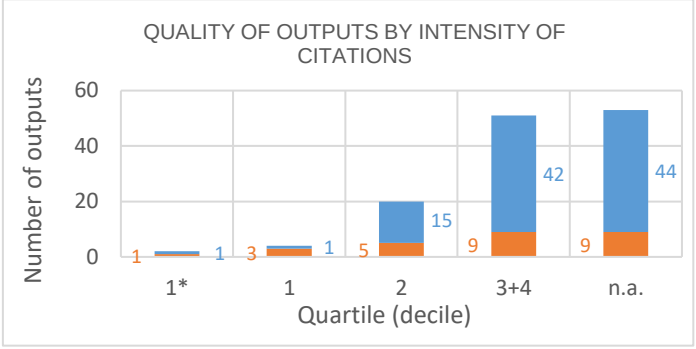
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Magnetics and Superconductors
Head: Ing. Jiří Hejtmánek, CSc.
Field: Physical sciences
Total number of outputs: 130 **Evaluated outputs:** 27





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	4	6
B	1	12
B1	3	24
C	8	27
C1	3	16
D	4	13
D1	1	5
E		
n.a.	2	
Without affiliation		
A1+B1+C1+D1	11	51
B+C+D+E	13	52

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Materials Science Multidisciplinary	13	49
Physics Applied	12	37
Physics Condensed Matter	11	38
Chemistry Physical	1	18
Nanoscience Nanotechnology	7	8
Engineering Electrical Electronic		14
Metallurgy Metallurgical Engineering	3	9
Chemistry Multidisciplinary	2	6
Physics Multidisciplinary	1	6
Chemistry Inorganic Nuclear		3
Optics	1	2
Instruments Instrumentation		2
Materials Science Ceramics	1	1
n.a.	2	
Pharmacology Pharmacy	1	1
Physics Atomic Molecular Chemical	1	1
Crystallography		1
Chemistry Analytical		1
Chemistry Applied		1
Materials Science Coatings Films		1

Total number of outputs: outputs of the team published during the evaluated period 2015-2019.
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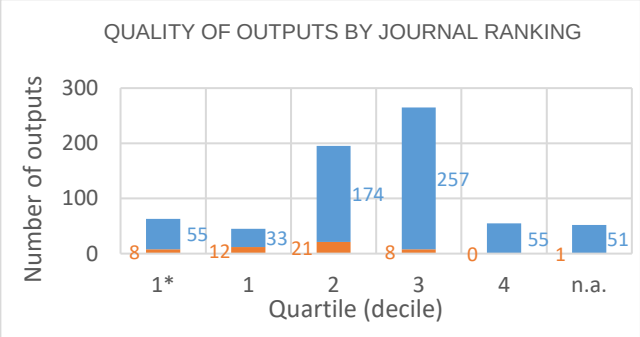
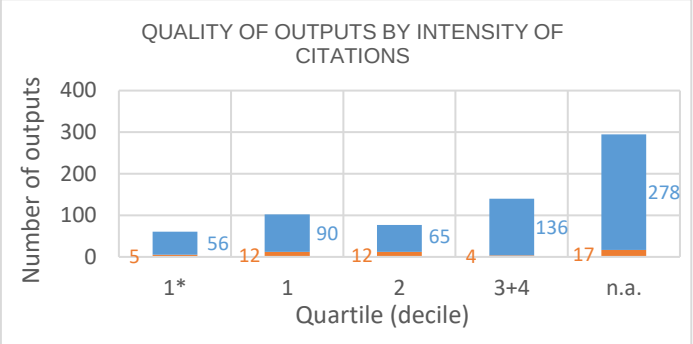
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Optical Materials
Head: doc. Ing. Martin Nikl, CSc.
Field: Physical sciences
Total number of outputs: 675 **Evaluated outputs:** 50





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	3	17
B	4	61
B1	8	62
C	13	155
C1	15	73
D	4	244
D1	2	12
E		
n.a.	1	
Without affiliation		1
A1+B1+C1+D1	28	164
B+C+D+E	21	460

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Materials Science Multidisciplinary	29	183
Physics Applied	18	127
Optics	6	126
Physics Particles Fields	1	125
Physics Nuclear	1	120
Physics Condensed Matter	8	73
Nanoscience Nanotechnology	12	49
Chemistry Physical	19	39
Astronomy Astrophysics		55
Nuclear Science Technology	1	40
Materials Science Coatings Films	7	32
Engineering Electrical Electronic		33
Crystallography	4	28
Chemistry Multidisciplinary	9	21
Physics Multidisciplinary		22
Instruments Instrumentation	1	17
Materials Science Biomaterials		13
Materials Science Ceramics	1	11
Energy Fuels	1	8
Multidisciplinary Sciences		7

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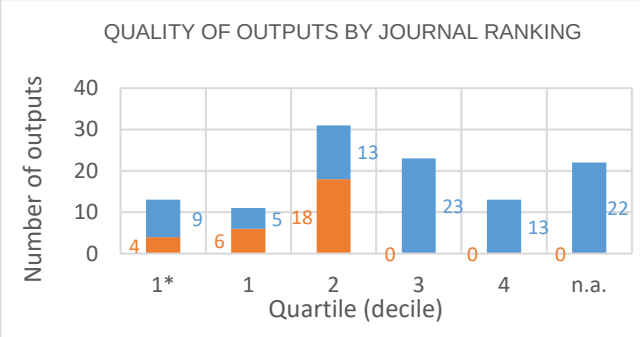
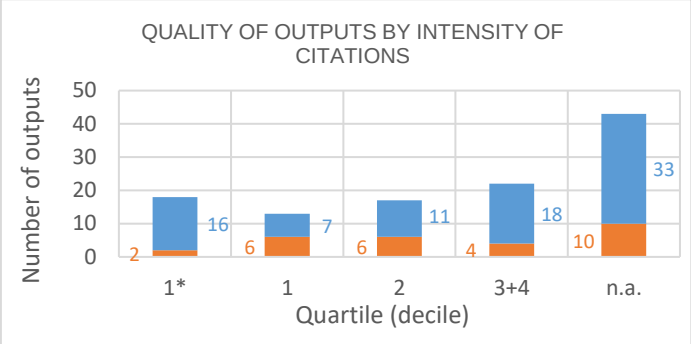
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Classical and Quantum Optics
Head: doc. RNDr. Ondřej Haderka, Ph.D.
Field: Physical sciences
Total number of outputs: 113 **Evaluated outputs:** 28





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	1	6
B	1	2
B1	7	10
C	1	1
C1	11	8
D	2	48
D1	5	6
E		2
n.a.		2
Without affiliation		
A1+B1+C1+D1	24	30
B+C+D+E	4	53

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Astronomy Astrophysics		37
Optics	13	16
Physics Particles Fields		27
Instruments Instrumentation	1	13
Physics Atomic Molecular Chemical	13	1
Multidisciplinary Sciences	7	5
Physics Applied	2	10
Physics Multidisciplinary	3	3
Materials Science Multidisciplinary	1	4
Engineering Electrical Electronic		4
Physics Nuclear		4
Engineering Multidisciplinary	1	2
Materials Science Coatings Films		3
Nuclear Science Technology		3
Metallurgy Metallurgical Engineering	1	1
n.a.		2
Physics Condensed Matter	1	1
Quantum Science Technology	1	1
Biochemical Research Methods	1	
Engineering Aerospace		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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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.
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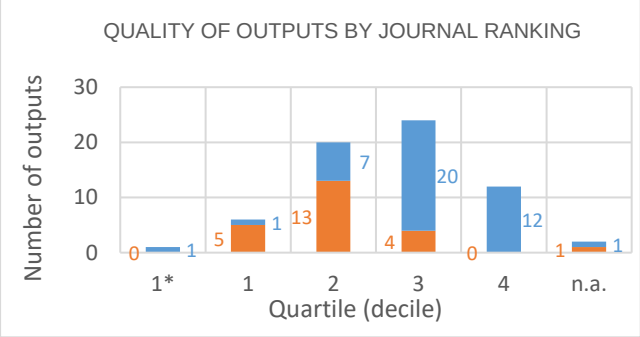
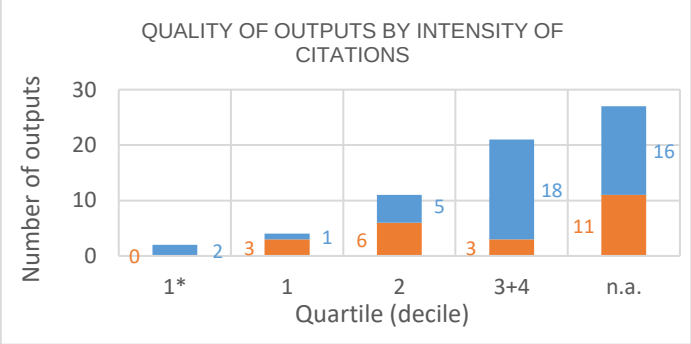
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Low-Temperature Plasma
Head: Mgr. Zdeněk Hubička, Ph.D.
Field: Materials engineering
Total number of outputs: 65 **Evaluated outputs:** 23





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1		6
B	5	9
B1	4	5
C	8	12
C1	3	7
D	2	1
D1		2
E		
n.a.	1	
Without affiliation		
A1+B1+C1+D1	7	20
B+C+D+E	15	22

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Physics Applied	12	15
Chemistry Physical	5	9
Materials Science Multidisciplinary	2	12
Physics Condensed Matter	1	12
Engineering Chemical	5	3
Materials Science Coatings Films	2	6
Chemistry Multidisciplinary		5
Chemistry Applied	3	1
Nanoscience Nanotechnology		4
Physics Fluids Plasmas	4	
Instruments Instrumentation		3
Biochemistry Molecular Biology		2
Engineering Environmental	2	
Nuclear Science Technology		2
Biophysics		1
Crystallography		1
Electrochemistry		1
n.a.	1	
Optics		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.
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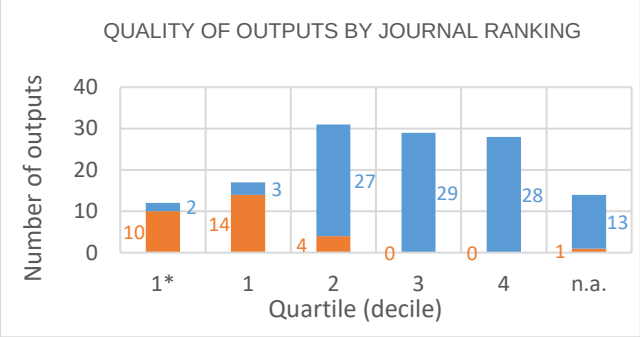
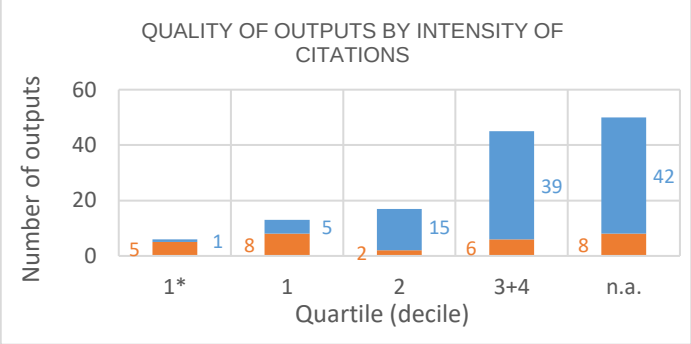
NOTE: The significance of bibliometrics in technical sciences is very limited.

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 Physics of the CAS, v. v. i.
Team: Optical and Biophysical Systems
Head: Ing. Alexandr Dejneka, Ph.D.
Field: Materials engineering
Total number of outputs: 131 **Evaluated outputs:** 29





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	4	10
B	1	8
B1	5	20
C	6	25
C1	9	30
D	2	2
D1	1	2
E		
n.a.	1	5
Without affiliation		
A1+B1+C1+D1	19	62
B+C+D+E	9	35

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Physics Applied	10	39
Materials Science Multidisciplinary	6	35
Physics Condensed Matter	1	20
Optics	2	13
Instruments Instrumentation	1	9
Nanoscience Nanotechnology	1	9
Materials Science Biomaterials	2	7
Chemistry Physical	3	5
Multidisciplinary Sciences	4	3
Engineering Electrical Electronic		6
Chemistry Multidisciplinary	3	3
Materials Science Coatings Films		6
n.a.	1	5
Physics Multidisciplinary	2	4
Engineering Biomedical	2	3
Nuclear Science Technology		5
Physics Nuclear		5
Physics Particles Fields		5
Crystallography	2	2
Materials Science Characterization Te	1	2

Total number of outputs: outputs of the team published during the evaluated period 2015-2019.
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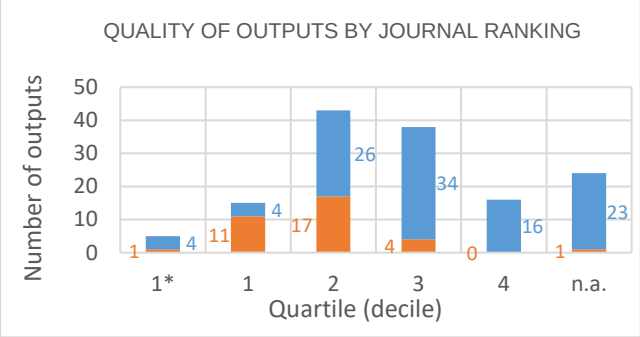
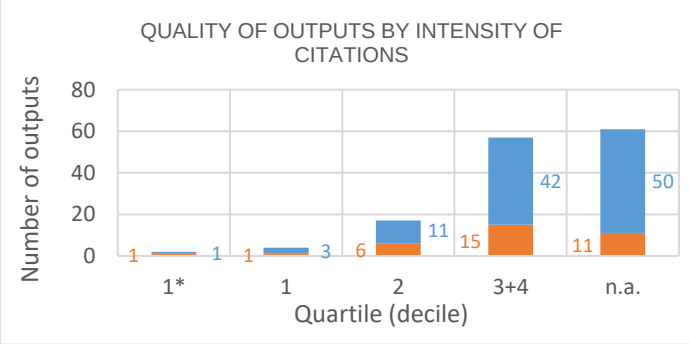
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Fabrication and Analysis of Functional Materials
Head: Ing. Ján Lančok, Ph.D.
Field: Materials engineering
Total number of outputs: 141 **Evaluated outputs:** 34





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	4	9
B	2	13
B1	4	10
C	8	26
C1	5	25
D	4	7
D1	6	10
E		
n.a.	1	6
Without affiliation		1
A1+B1+C1+D1	19	54
B+C+D+E	14	46

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Materials Science Multidisciplinary	15	46
Physics Applied	20	39
Physics Condensed Matter	13	23
Chemistry Physical	9	14
Nanoscience Nanotechnology	6	12
Chemistry Multidisciplinary	2	9
Materials Science Coatings Films	5	6
n.a.	1	7
Multidisciplinary Sciences	4	2
Engineering Electrical Electronic		5
Metallurgy Metallurgical Engineering	1	4
Optics		5
Physics Atomic Molecular Chemical		5
Physics Multidisciplinary	1	3
Polymer Science	3	1
Electrochemistry	1	2
Energy Fuels	1	2
Instruments Instrumentation	1	2
Physics Fluids Plasmas	3	
Engineering Biomedical		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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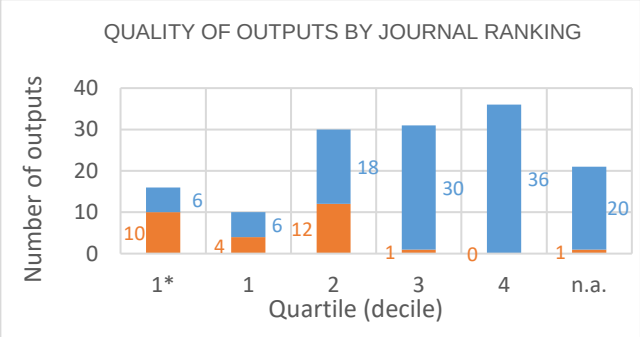
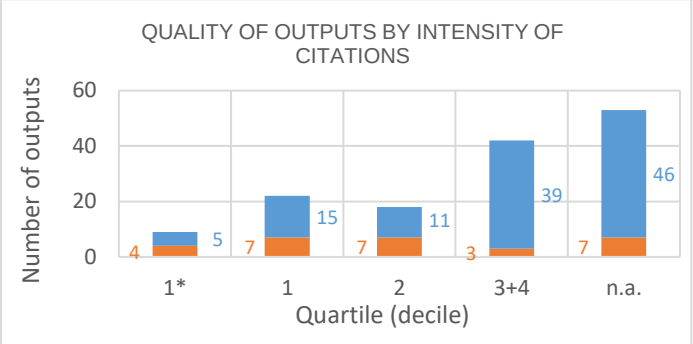
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Laser Interactions and Chemical Physics
Head: Ing. Libor Juha, CSc.
Field: Physical sciences
Total number of outputs: 144 **Evaluated outputs:** 28





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	2	7
B	1	7
B1	1	4
C	4	24
C1	6	11
D	11	45
D1	2	14
E		
n.a.	1	3
Without affiliation		1
A1+B1+C1+D1	11	36
B+C+D+E	16	76

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Physics Applied	6	33
Physics Fluids Plasmas	4	20
Optics	2	19
Physics Atomic Molecular Chemical	2	18
Instruments Instrumentation	1	15
Physics Multidisciplinary	4	11
Chemistry Physical	2	9
Physics Nuclear		11
Materials Science Multidisciplinary	4	6
Nuclear Science Technology		10
Astronomy Astrophysics	1	8
Multidisciplinary Sciences	7	2
Chemistry Multidisciplinary	1	4
Engineering Electrical Electronic		4
Chemistry Inorganic Nuclear		4
n.a.	1	3
Physics Condensed Matter	3	1
Spectroscopy		3
Biology		2
Biophysics		2

Total number of outputs: outputs of the team published during the evaluated period 2015-2019.
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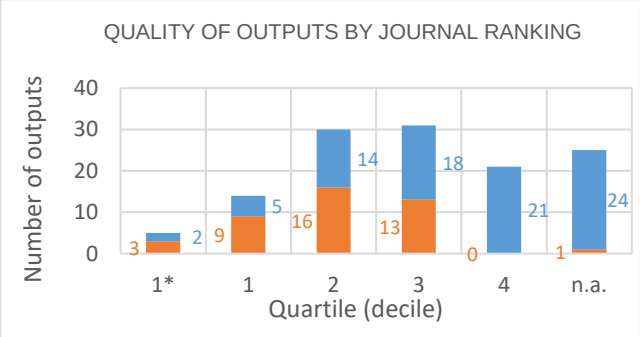
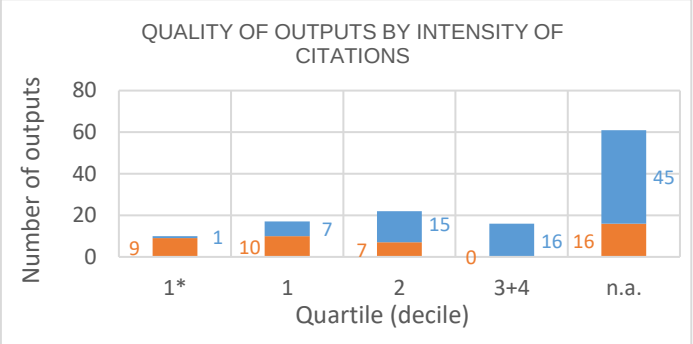
Evaluation of the Research and Professional Activities of the Institutes of the Czech Academy of Sciences for 2015–2019

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

Institute: Institute of Physics of the CAS, v. v. i.
Team: Development of Lasers and Advanced Technologies (HiLASE)
Head: Ing. Tomáš Mocek, Ph.D.
Field: Physical sciences
Total number of outputs: 126 **Evaluated outputs:** 42





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	4	8
B		3
B1	4	10
C	13	22
C1	12	18
D	5	15
D1	3	6
E		
n.a.	1	2
Without affiliation		
A1+B1+C1+D1	23	42
B+C+D+E	18	40

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Optics	24	51
Physics Applied	19	43
Materials Science Multidisciplinary	10	15
Engineering Electrical Electronic	3	17
Physics Condensed Matter	8	1
Chemistry Physical	6	1
Materials Science Coatings Films	6	
Chemistry Multidisciplinary	1	3
Instruments Instrumentation		3
Nanoscience Nanotechnology		3
Physics Fluids Plasmas		3
Quantum Science Technology	3	
Astronomy Astrophysics		2
Multidisciplinary Sciences	2	
n.a.	1	1
Nuclear Science Technology		2
Physics Nuclear		2
Physics Particles Fields		2
Computer Science Theory Methods		1
Engineering Multidisciplinary		1

Total number of outputs: outputs of the team published during the evaluated period 2015-2019.
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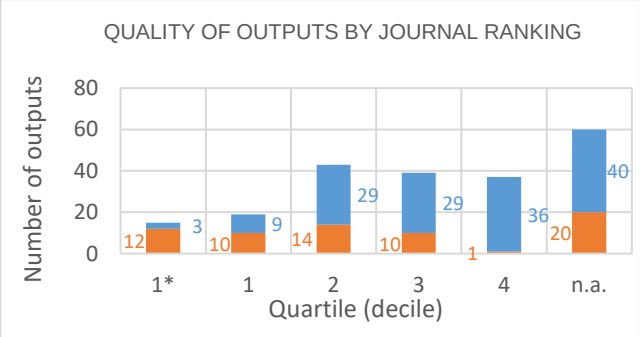
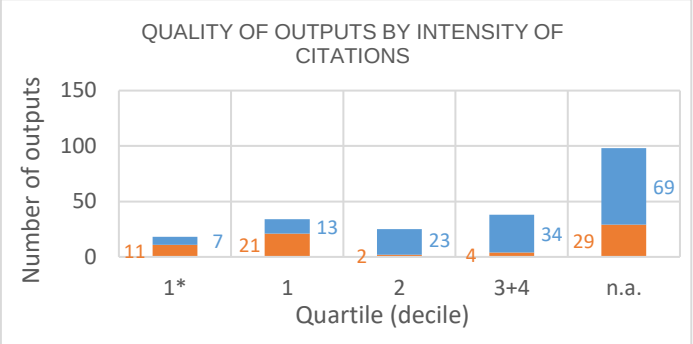
BIBLIOMETRIC PARAMETERS OF ALL OUTPUTS INCLUDING THOSE EVALUATED IN THE PHASE I.

Institute: Institute of Physics of the CAS, v. v. i.
Team: Laser Physics at ELI Beamlines
Head: Dr. Georg Korn
Field: Physical sciences
Total number of outputs: 213 **Evaluated outputs:** 67





TYPES OF COLLABORATION

Collaboration	Outputs (evaluated)	Outputs (not evaluated)
A1	1	5
B	5	14
B1	5	13
C	17	43
C1	9	21
D	11	38
D1	5	8
E		
n.a.	14	2
Without affiliation		2
A1+B1+C1+D1	20	47
B+C+D+E	33	95

FIELD STRUCTURE OF OUTPUTS

Field structure of outputs	Outputs (evaluated)	Outputs (not evaluated)
Optics	17	50
Physics Applied	9	40
Physics Fluids Plasmas	6	32
Instruments Instrumentation	4	23
Engineering Electrical Electronic	2	22
Physics Atomic Molecular Chemical	6	14
Physics Multidisciplinary	11	8
n.a.	14	3
Materials Science Multidisciplinary	6	7
Multidisciplinary Sciences	4	8
Physics Nuclear	4	6
Physics Particles Fields	4	6
Chemistry Physical	5	3
Nuclear Science Technology	1	7
Chemistry Multidisciplinary	3	3
Nanoscience Nanotechnology	4	1
Astronomy Astrophysics		2
Crystallography		2
Mechanics	1	1
Physics Condensed Matter		2

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