

2019 Journal Performance Data for: Applications of Mathematics

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ACAD SCIENCES CZECH REPUBLIC, INST MATHEMATICS

ZITNA 25, PRAHA 1 115 67, CZECH REPUBLIC

[CZECH REPUBLIC](#)

TITLES

ISO: Appl. Mat.

JCR Abbrev: APPL MATH-CZECH

CATEGORIES

PUBLICATION FREQUENCY

6 issues/year

LANGUAGES

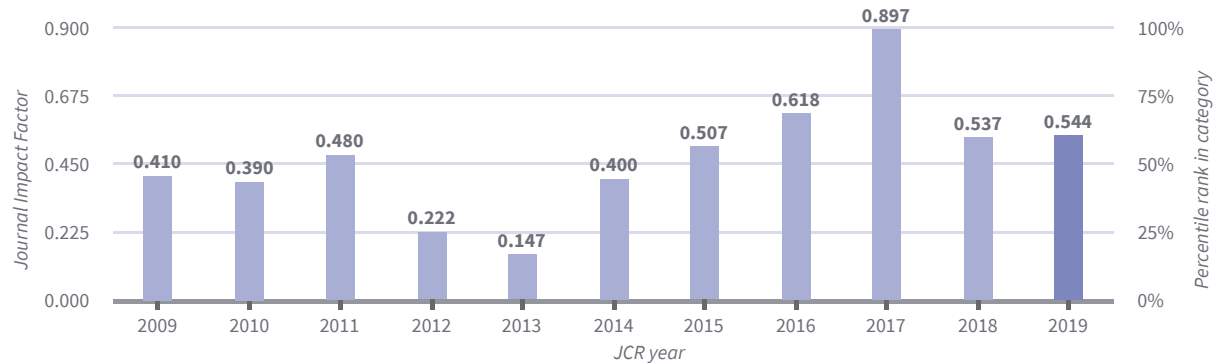
English

The data in the two graphs below and in the Journal Impact Factor calculation panels represent citation activity in 2019 to items published in the journal in the prior two years. They detail the components of the Journal Impact Factor. Use the "All Years" tab to access key metrics and additional data for the current year and all prior years for this journal.

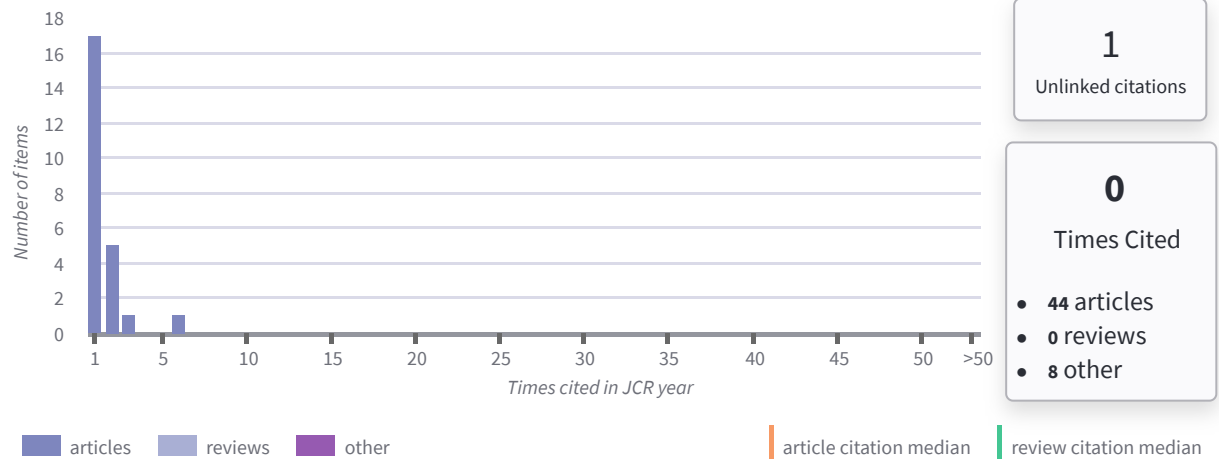
2019 Journal Impact Factor & percentile rank in category for: Applications of Mathematics

0.544

2019 Journal Impact Factor



2019 JIF Citation Distribution for: Applications of Mathematics



Journal Impact Factor Calculation

$$2019 \text{ Journal Impact Factor} = \frac{37}{68} = 0.544$$

How is Journal Impact Factor Calculated?

$$\text{JIF} = \frac{\text{Citations in 2019 to items published in } \mathbf{2017 (24) + 2018 (13)}}{\text{Number of citable items in } \mathbf{2017 (33) + 2018 (35)}} = \frac{37}{68}$$

Journal Impact Factor contributing items

Citable items in 2018 and 2017 (68)

TITLE	CITATIONS COUNTED TOWARDS JIF
The classic differential evolution algorithm and its convergence properties	6
By: Knobloch, Roman; Mlynek, Jaroslav; Srb, Radek Volume: 62 Page: 197-208 Accession number: WOS:000400889400004 Document Type: Article	
INVERSE SCATTERING VIA NONLINEAR INTEGRAL EQUATIONS METHOD FOR A SOUND-SOFT CRACK WITH PHASELESS DATA	3
By: Gao, Peng; Dong, Heping; Ma, Fuming Volume: 63 Page: 149-165 Accession number: WOS:000431138100004 Document Type: Article	
Method of fundamental solutions for biharmonic equation based on Almansi-type decomposition	2
By: Sakakibara, Koya Volume: 62 Page: 297-317 Accession number: WOS:000407826200001 Document Type: Article	
GOAL-ORIENTED ERROR ESTIMATES INCLUDING ALGEBRAIC ERRORS IN DISCONTINUOUS GALERKIN DISCRETIZATIONS OF LINEAR BOUNDARY VALUE PROBLEMS	2
By: Dolejsi, Vit; Roskovec, Filip Volume: 62 Page: 579-605 Accession number: WOS:000419946700004 Document Type: Article	
EXPLICIT FINITE ELEMENT ERROR ESTIMATES FOR NONHOMOGENEOUS NEUMANN PROBLEMS	2
By: Li, Qin; Liu, Xuefeng Volume: 63 Page: 367-379 Accession number: WOS:000440108200009 Document Type: Article	
ON GENERALIZED CONDITIONAL CUMULATIVE PAST INACCURACY MEASURE	2
By: Ghosh, Amit; Kundu, Chanchal Volume: 63 Page: 167-193 Accession number: WOS:000431138100005 Document Type: Article	
SIMPLICES RARELY CONTAIN THEIR CIRCUMCENTER IN HIGH DIMENSIONS	2
By: Vatne, Jon Eivind Volume: 62 Page: 213-223 Accession number: WOS:000403537700001 Document Type: Article	

Citations in 2019 (37)

TITLE	CITATIONS COUNTED TOWARDS JIF
APPLICATIONS OF MATHEMATICS	3
APPLIED SOFT COMPUTING	2
COMPUTERS & MATHEMATICS WITH APPLICATIONS	2
INVERSE PROBLEMS	2
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS	2
NUMERICAL METHODS FOR PARTIAL DIFFERENTIAL EQUATIONS	2
INTERNATIONAL JOURNAL OF AEROSPACE ENGINEERING	1
JOURNAL OF GEOMETRY	1
JOURNAL OF SCIENTIFIC COMPUTING	1
NUMERICAL LINEAR ALGEBRA WITH APPLICATIONS	1

Source data

Journal source data 2019

	Articles	Reviews	Combined(C)	Other(O)	Percentage(C/(C+O))
Number in JCR Year 2019 (A)	32	0	32	2	94%
Number of References (B)	839	0	839	1	100%
Ratio (B/A)	26.2	n/a	26.2	0.5	

Box plot**Category Box Plot 2019****Category Box Plot**

The category box plot depicts the distribution of Impact Factors for all journals in the category. The horizontal line that forms the top of the box is the 75th percentile (Q1). The horizontal line that forms the bottom is the 25th percentile (Q3). The horizontal line that intersects the box is the median Impact Factor for the category.

Horizontal lines above and below the box, called whiskers, represent maximum and minimum values.

The top whisker is the smaller of the following two values:

the maximum Impact Factor (IF)

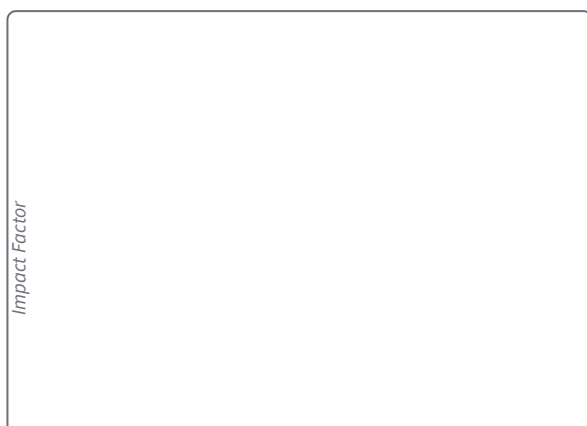
$Q1\ IF + 3.5(Q1\ IF - Q3\ IF)$

The bottom whisker is the larger of the following two values:

the minimum Impact Factor (IF)

$Q1\ IF - 3.5(Q1\ IF - Q3\ IF)$

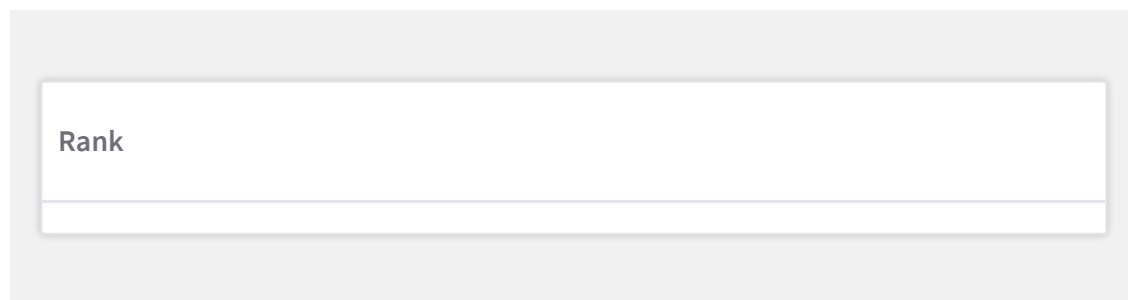
Box Plots are provided for the current JCR year for each of the categories in which the journal is indexed.



Rank

Rank
JCR Impact Factor

ESI Total Citations



Total Citations

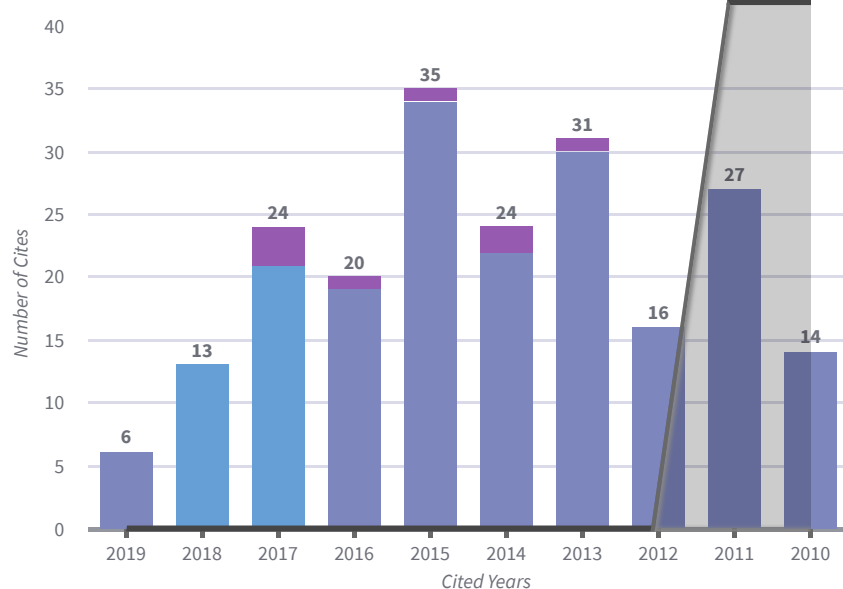
JCR years

Cited Journal Data

Cited Half-Life Data

Cited Year	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009-All
#Cites from 2019	6	13	24	20	35	24	31	16	27	14	177
Cumulative %	1.55%	4.91%	11.11%	16.28%	25.32%	31.52%	39.53%	43.67%	50.65%	54.26%	100.00%

Cited Journal Graph 2019



CITED JOURNAL GRAPH

The Cited Journal Graph shows the distribution (by cited year) of citations published in journals during the JCR year to items published in the Journal during the last 10 years.

The white/grey division indicates the cited half-life (if < 10.0). Half of the citations are to items that were published more recently than the cited half-life.

The two light-blue columns indicate citations used to calculate the Impact Factor (always the 2nd and 3rd columns).

- Non-self-citations: citations from the journal to articles in other journals.
- Journal self - citations: citations from articles in the journal to articles in the same journal.

Cited Journal Data 2019

[Export](#)

	Impact	Citing Journal	All Yrs	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	Rest
		ALL Journals	387	6	13	24	20	35	24	31	16	27	14	177
		ALL OTHERS (127)	127	1	6	7	9	10	14	9	3	6	1	61
1	1.587	NONLINEAR ANAL-THEOR	11	0	0	0	0	0	0	0	0	0	0	11
2	2.421	ADV DIFFER EQU-NY	10	0	0	0	0	2	1	0	1	2	0	4
3	3.472	APPL MATH COMPUT	10	0	0	1	1	1	1	0	1	0	2	3
4	0.544	APPL MATH-CZECH	9	0	0	3	1	1	2	1	0	0	0	1
5	1.976	SIAM J SCI COMPUT	8	0	0	1	0	2	0	0	0	0	0	5
6	3.370	COMPUT MATH APPL	7	0	1	1	0	0	1	0	0	1	0	3
7	1.353	ESAIM-MATH MODEL NUM	7	0	0	1	0	2	0	0	0	1	1	2
8	2.037	J COMPUT APPL MATH	7	0	1	1	0	0	0	0	0	2	0	3
9	5.763	COMPUT METHOD APPL M	6	0	0	0	0	0	0	0	0	0	0	6
10	1.470	J INEQUAL APPL	6	0	0	0	1	1	0	2	1	0	0	1
11	1.626	MATH METHOD APPL SCI	6	0	0	0	1	0	1	0	0	1	1	2
12	0.773	OPEN MATH	6	0	0	0	0	0	1	2	1	1	1	0
13	2.462	COMPLEXITY	5	0	0	1	0	0	0	2	1	1	0	0
14	1.600	INT J COMPUT MATH	5	0	0	0	2	0	0	2	1	0	0	0
15	2.985	J COMPUT PHYS	5	0	0	0	0	1	0	0	0	1	0	3
16	1.220	J MATH ANAL APPL	5	0	0	0	0	0	0	0	1	0	0	4
17	2.228	J SCI COMPUT	5	0	0	1	1	0	1	1	0	0	0	1
18	1.747	MATHEMATICS-BASEL	5	2	0	0	0	2	1	0	0	0	0	0
19	2.236	NUMER METH PART D E	5	0	1	1	0	0	1	0	0	0	1	1
20	0.791	ACTA MATH APPL SIN-E	4	0	0	0	0	0	0	0	1	0	0	3
21	1.979	APPL NUMER MATH	4	0	0	0	0	0	0	0	0	1	1	2
22	1.794	BOUND VALUE PROBL	4	0	0	0	0	0	0	3	1	0	0	0
23	0.896	NUMER FUNC ANAL OPT	4	0	0	0	0	1	0	1	1	1	0	0
24	1.961	ADV APPL MATH MECH	3	0	0	0	0	1	0	0	0	0	0	2
25	1.107	APPL ANAL	3	0	0	0	0	0	0	0	0	0	0	3
26	3.848	APPL MATH LETT	3	0	0	0	0	1	0	0	0	0	0	2
27	1.526	CALC VAR PARTIAL DIF	3	0	0	0	0	0	0	0	0	0	0	3
28	0.858	COMMUN MATH SCI	3	0	0	0	0	2	0	0	0	0	0	1

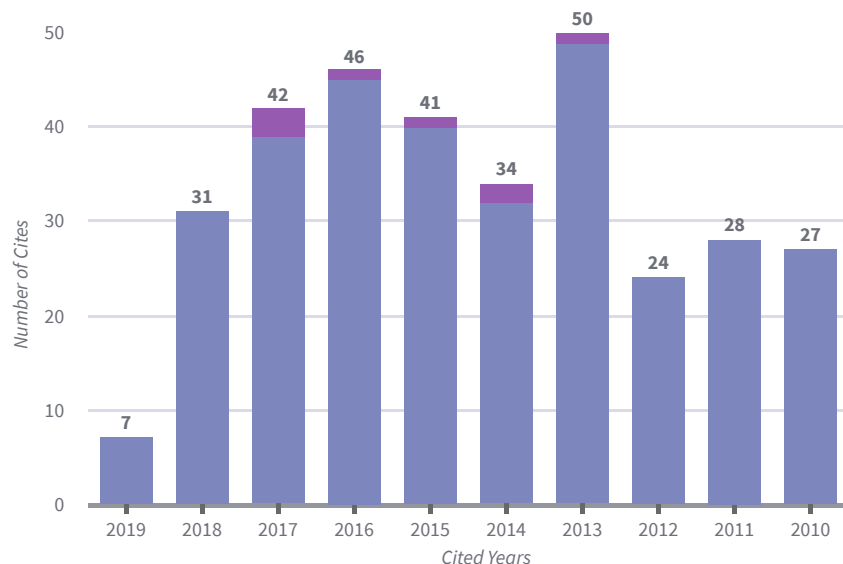
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Citing Journal Data

Citing Half-Life Data

Citing Year	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009-All
#Cites from 2019	7	31	42	46	41	34	50	24	28	27	510
Cumulative %	0.83%	4.52%	9.52%	15.00%	19.88%	23.93%	29.88%	32.74%	36.07%	39.29%	100.00%

Citing Journal Graph 2019



CITING JOURNAL GRAPH

The Citing Journal Graph shows the distribution (by cited year) of citations published in the Journal during the JCR year to items published in journals during the last 10 years.

The white/grey division indicates the citing half-life (if < 10.0). Half of the citations are to items that were published more recently than the citing half-life.

- Non-self-citations: citations from the journal to articles in other journals.
- Journal self - citations: citations from articles in the journal to articles in the same journal.

Citing Journal Data 2019

[Export](#)

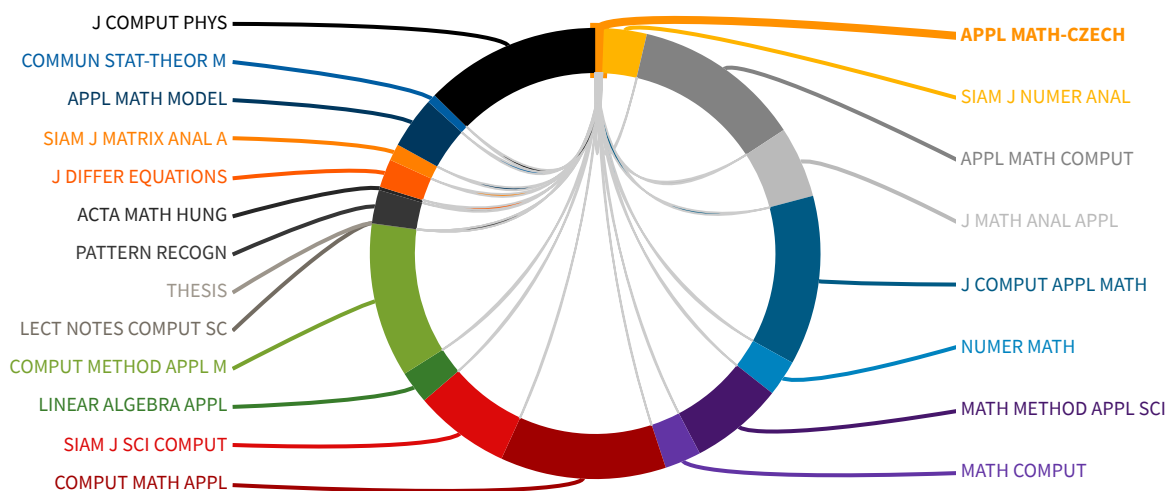
	Impact	Cited Journal	All Yrs	2019	2018	2017	2016	2015	2014	2013	2012	2011	2010	Rest
		ALL Journals	840	7	31	42	46	41	34	50	24	28	27	510
		ALL OTHERS (347)	347	4	16	15	18	13	11	18	9	5	13	225
1	3.472	APPL MATH COMPUT	16	0	2	0	1	2	1	1	0	0	1	8
2	1.220	J MATH ANAL APPL	16	0	0	1	2	1	1	0	1	0	1	9
3	2.712	SIAM J NUMER ANAL	16	0	0	0	0	0	0	0	0	1	0	15
4	2.037	J COMPUT APPL MATH	14	0	1	1	1	0	0	2	0	1	1	7
5	2.056	NUMER MATH	11	0	0	0	1	0	0	1	0	2	0	7
6	2.070	MATH COMPUT	10	0	1	0	0	0	0	0	0	0	0	9
7	1.626	MATH METHOD APPL SCI	10	0	0	0	1	0	0	1	0	0	0	8
8	0.544	APPL MATH-CZECH	9	0	0	3	1	1	2	1	0	0	0	1
9	3.370	COMPUT MATH APPL	9	0	0	0	0	0	0	0	0	4	2	3
10	5.763	COMPUT METHOD APPL M	9	0	0	0	0	0	0	0	0	0	1	8
11	0.988	LINEAR ALGEBRA APPL	9	0	0	0	1	0	0	1	0	1	0	6
12	1.976	SIAM J SCI COMPUT	9	0	0	2	1	0	1	0	0	0	0	5
13	0.588	ACTA MATH HUNG	7	0	0	0	2	0	1	1	0	0	0	3
14	2.192	J DIFFER EQUATIONS	7	0	0	1	0	0	0	0	1	0	0	5
15	7.196	PATTERN RECOGN	7	0	0	0	1	0	0	2	0	3	0	1
16	3.633	APPL MATH MODEL	6	0	0	0	1	2	1	1	0	0	0	1
17	1.490	SIAM J MATRIX ANAL A	6	0	0	0	1	1	0	1	0	1	0	2
18	1.979	APPL NUMER MATH	5	0	0	1	0	0	1	0	0	0	0	3
19	0.612	COMMUN STAT-THEOR M	5	0	0	0	0	1	0	1	0	0	0	3
20	2.866	INT J NUMER METH ENG	5	0	0	0	0	0	0	2	0	0	0	3
21	2.985	J COMPUT PHYS	5	0	0	0	0	0	0	1	0	1	0	3
22	0.910	MATH NACHR	5	0	0	0	0	0	0	0	0	0	0	5
23	2.064	NUMER ALGORITHMS	5	0	2	0	2	0	0	0	1	0	0	0
24	2.236	NUMER METH PART D E	5	0	0	0	0	0	1	0	0	1	1	2
25	1.551	SIAM J APPL MATH	5	0	0	0	0	0	0	0	0	0	0	5
26	1.715	SIAM J CONTROL OPTIM	5	0	0	0	0	0	0	0	0	0	0	5
27	3.848	APPL MATH LETT	4	0	0	2	0	0	1	0	0	1	0	0
28	0.720	ELECTRON T NUMER ANA	4	0	0	1	0	0	0	0	0	0	0	3

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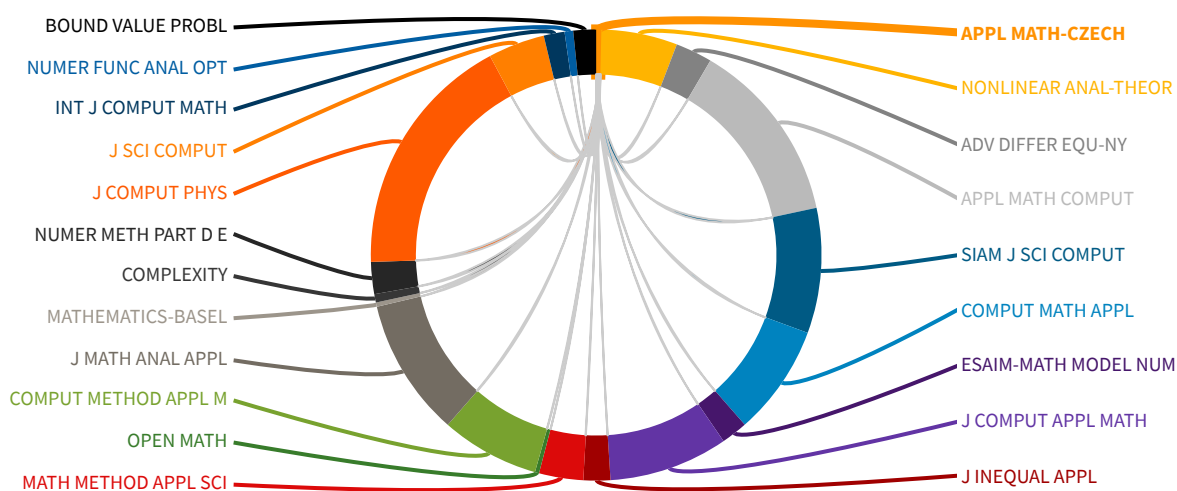
Journal Relationships

Journal Relationships 2019

Citing Data



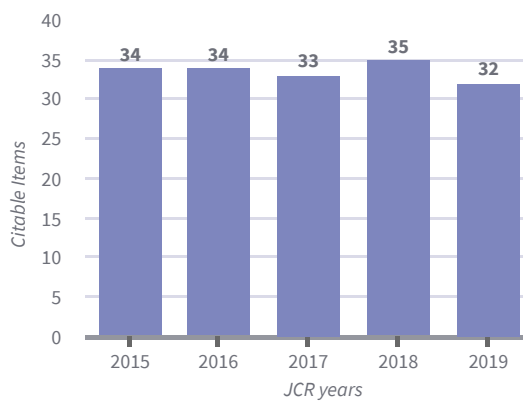
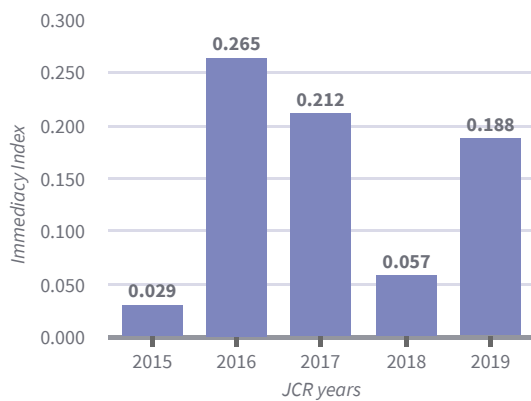
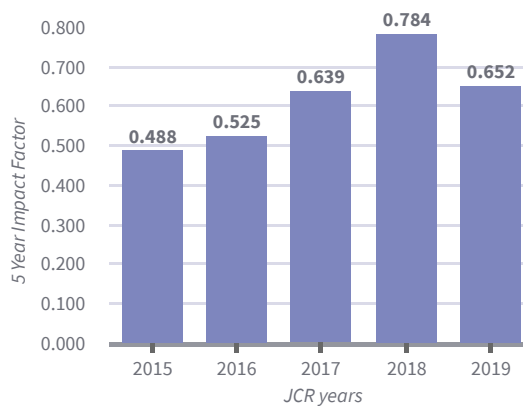
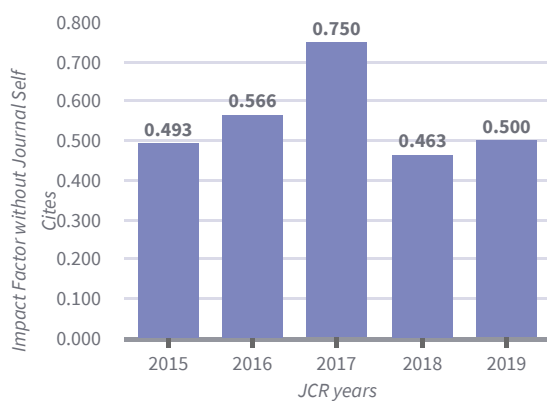
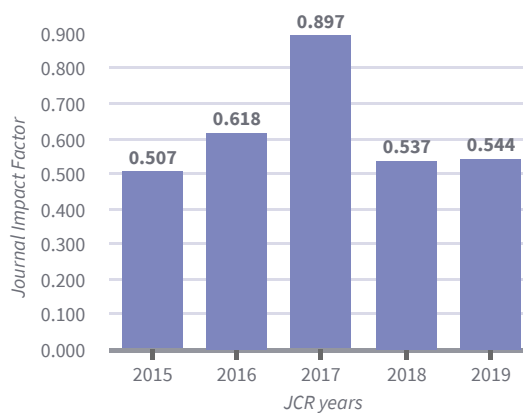
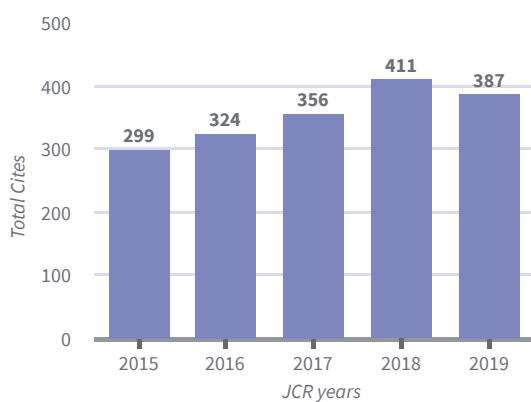
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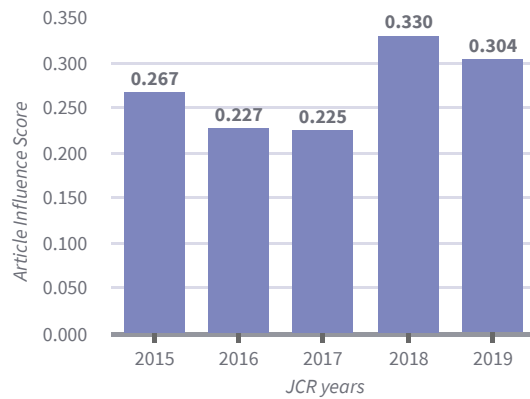
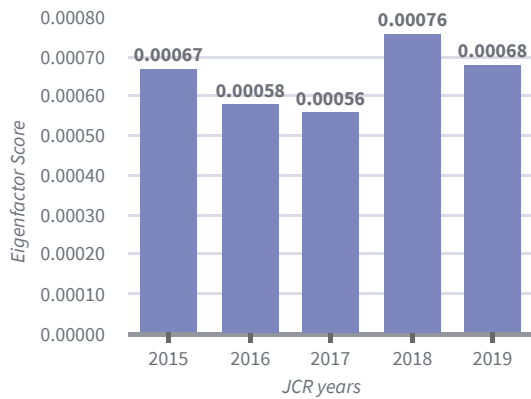
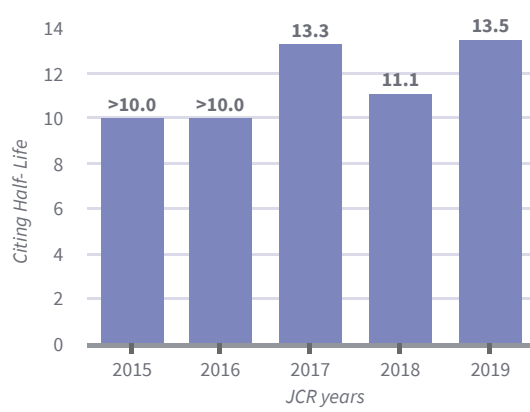
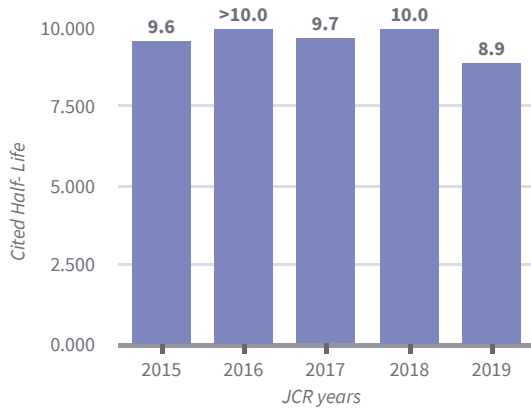
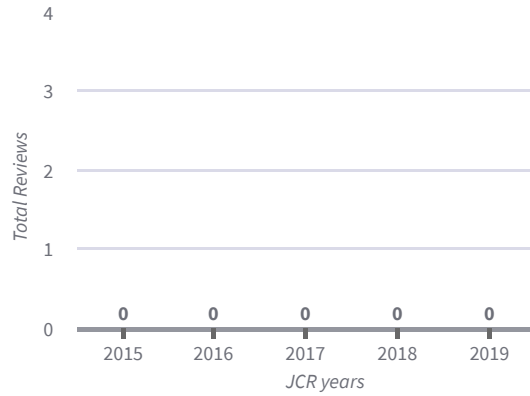
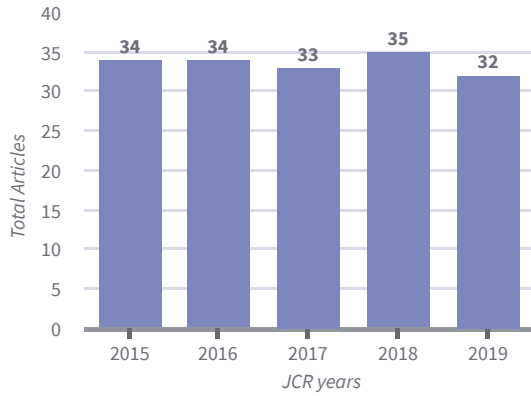


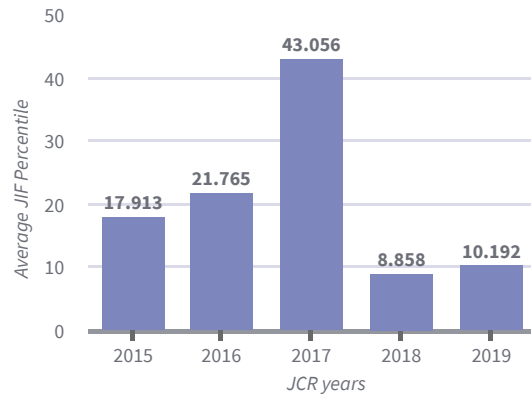
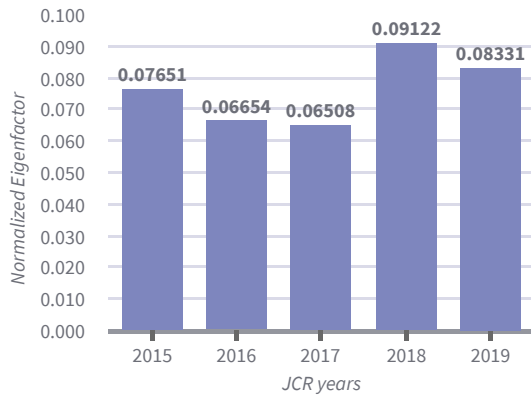
Key Indicators 2019

IMPACT METRICS		INFLUENCE METRICS		SOURCE METRICS	
Total Cites	387	Eigenfactor Score	0.00068	Citable Items	32
Journal Impact Factor	0.544	Article Influence Score	0.304	% Articles in Citable Items	100.00
5 Year Impact Factor	0.652	Normalized Eigenfactor	0.08331	Average JIF Percentile	10.192
Immediacy Index	0.188			Cited Half-Life	8.9
Impact Factor without Journal Self Cites	0.500			Citing Half-Life	13.5

Metric Trend **Total Cites** ▼

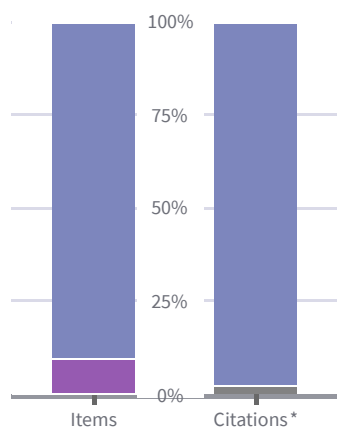






Journal profile [2017 - 2019]

Open Access (OA)



	Items	Citations*
● Gold OA Citable	0	0
● Subscription and Free to Read Citable	100	42
Total Citable	100	42
% Citable Open Access	0.00%	0.00%
● Other	10	0
● Unlinked	n/a	1

*Citations in 2019 to items published in [2017 - 2019]

Contributions by country/region

country	count
1 Czech Republic	43
2 CHINA MAINLAND	21
3 Japan	11
4 Iran	8
5 USA	7
6 GERMANY (FED REP GER)	4
- Italy	4
8 Canada	3
- India	3
- Norway	3

Contributions by organizations

organization	count
1 CZECH ACADEMY OF SCIENCES	17
2 CHARLES UNIVERSITY PRAGUE	13
3 TECHNICAL UNIVERSITY LIBREC	9
4 TECHNICAL UNIVERSITY OF OSTRAVA	7
5 CZECH TECHNICAL UNIVERSITY PRAGUE	5
6 CHINESE ACADEMY OF SCIENCES	3
- TOKYO UNIVERSITY OF SCIENCE	3
- UNIVERSITY OF TOKYO	3
- UNIVERSITY OF WEST BOHEMIA PILSEN	3
- WESTERN NORWAY UNIVERSITY OF APPLIED SCIENCES	3