
2018 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

LANGUAGES

English

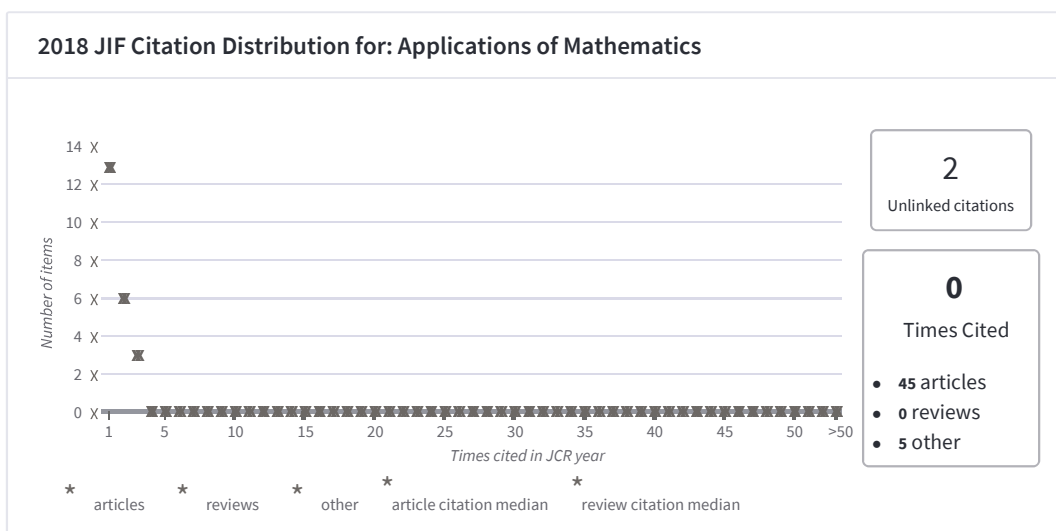
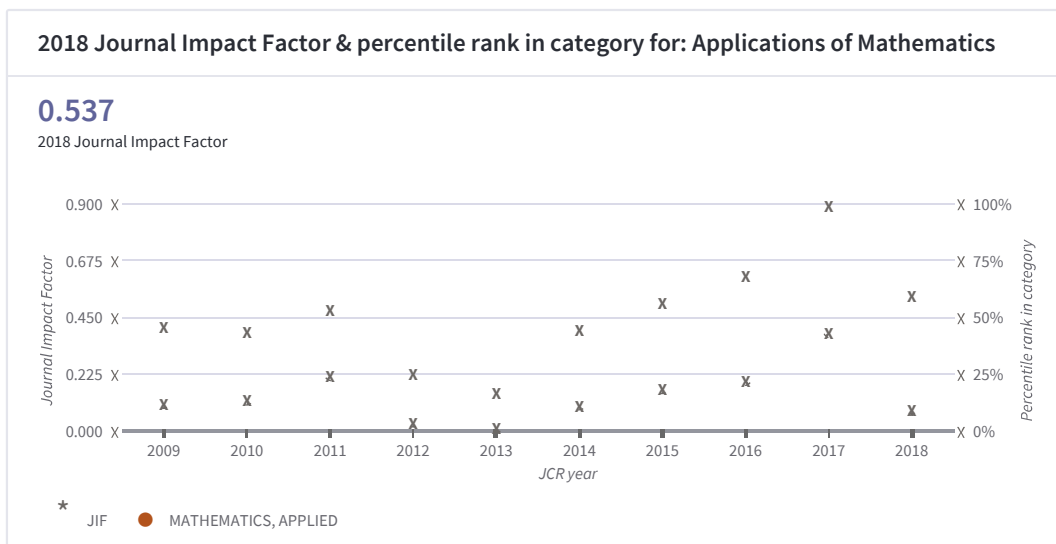
CATEGORIES

MATHEMATICS, APPLIED - SCIE

PUBLICATION FREQUENCY

6 issues/year

The data in the two graphs below and in the Journal Impact Factor calculation panels represent citation activity in 2018 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.



Journal Impact Factor Calculation

2018 Journal Impact Factor = $\frac{36}{67} = 0.537$

How is Journal Impact Factor Calculated?

$$\text{JIF} = \frac{\text{Citations in 2018 to items published in 2016 (27) + 2017 (9)}}{\text{Number of citable items in 2016 (34) + 2017 (33)}} = \frac{36}{67}$$

Journal Impact Factor contributing items

Citable items in 2017 and 2016 (67)

TITLE	CITATIONS COUNTED TOWARDS JIF
<p>The second order projection method in time for the time-dependent natural convection problem</p> <p>By: Qian, Yanxia; Zhang, Tong</p> <p>Volume: 61 Page: 299-315 Accession number: WOS:000376618500004</p> <p>Document Type: Article</p>	3
<p>On well-posedness for parametric vector quasiequilibrium problems with moving cones</p> <p>By: Lam Quoc Anh; Dinh Vinh Hien</p> <p>Volume: 61 Page: 651-668 Accession number: WOS:000388577300002</p> <p>Document Type: Article</p>	3
<p>Solvability of a class of phase field systems related to a sliding mode control problem</p> <p>By: Colturato, Michele</p> <p>Volume: 61 Page: 623-650 Accession number: WOS:000388577300001</p> <p>Document Type: Article</p>	3
<p>A variational approach to bifurcation points of a reaction-diffusion system with obstacles and neumann boundary conditions</p> <p>By: Eisner, Jan; Kucera, Milan; Vaeth, Martin</p> <p>Volume: 61 Page: 1-25 Accession number: WOS:000369303200001 Document Type: Article</p>	2
<p>An adaptive finite element method in reconstruction of coefficients in Maxwell's equations from limited observations</p> <p>By: Beilina, Larisa; Hosseinzadegan, Samar</p> <p>Volume: 61 Page: 253-286 Accession number: WOS:000376618500002</p> <p>Document Type: Article</p>	2
<p>Existence, blow-up and exponential decay for a nonlinear Love equation associated with Dirichlet conditions</p> <p>By: Le Thi Phuong Ngoc; Nguyen Thanh Long</p> <p>Volume: 61 Page: 165-196 Accession number: WOS:000372037200003</p> <p>Document Type: Article</p>	2
<p>Extending Babuka-Aziz's theorem to higher-order Lagrange interpolation</p> <p>By: Kobayashi, Kenta; Tsuchiya, Takuya</p> <p>Volume: 61 Page: 121-133 Accession number: WOS:000372037200001</p> <p>Document Type: Article</p>	2

Citations in 2018 (36)

TITLE	CITATIONS COUNTED TOWARDS JIF
APPLICATIONS OF MATHEMATICS	5
COMPUTERS & MATHEMATICS WITH APPLICATIONS	2
EVOLUTION EQUATIONS AND CONTROL THEORY	2
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS	2
MATHEMATICAL METHODS IN THE APPLIED SCIENCES	2
ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS	1
JAPAN JOURNAL OF INDUSTRIAL AND APPLIED MATHEMATICS	1
NONLINEAR ANALYSIS-REAL WORLD APPLICATIONS	1
SPATIAL STATISTICS	1
STATISTICS	1

Key Indicators 2018

Impact metrics		Influence metrics		Source metrics	
Total Cites	411	Eigenfactor Score	0.00076	Citable Items	35
Journal Impact Factor	0.537	Article Influence Score	0.331	% Articles in Citable Items	100.00
5 Year Impact Factor	0.784	Normalized Eigenfactor *	0.09142	Average JIF Percentile	8.858
Immediacy Index	0.057			Cited Half-Life	10.0
Impact Factor Without Journal Self Cites	0.462			Citing Half-Life	11.1

Source data

Journal source data 2018

	Articles	Reviews	Combined(C)	Other(O)	Percentage(C/(C+O))
Number in JCR Year 2018 (A)	35	0	35	4	89%
Number of References (B)	882	0	882	2	99%
Ratio (B/A)	25.2	0.0	25.2	0.5	

Box plot

Category Box Plot 2018

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)

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

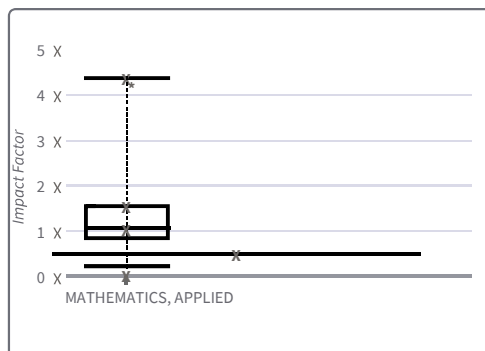
The bottom whisker is the larger of the following two values:

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.

APPL MATH-CZECH, IF: 0.537



Rank

Rank

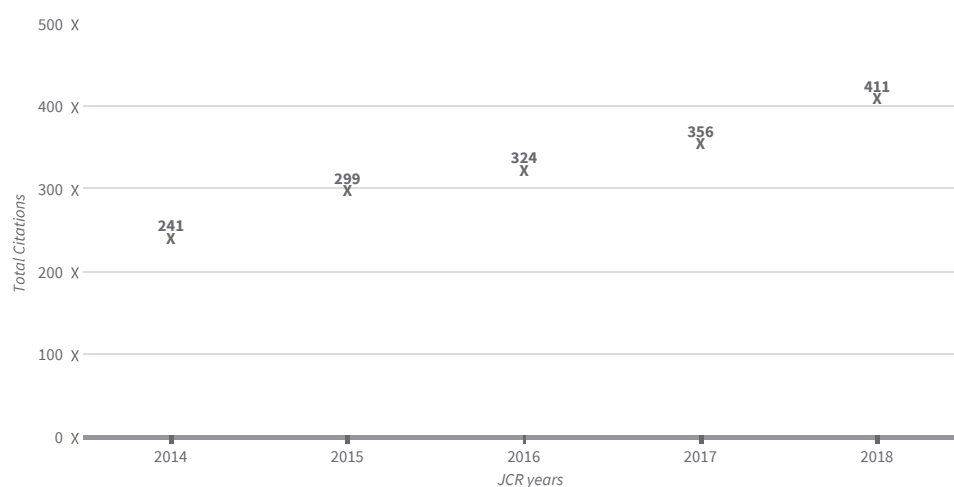
JCR Impact Factor

JCR Year	MATHEMATICS, APPLIED		
	Rank	Quartile	JIF Percentile
2018	232/254	Q4	8.858
2017	144/252	Q3	43.056
2016	200/255	Q4	21.765
2015	209/254	Q4	17.913
2014	230/257	Q4	10.700
2013	250/251	Q4	0.598
2012	240/247	Q4	3.036
2011	187/245	Q4	23.878
2010	206/236	Q4	12.924
2009	181/204	Q4	11.520

ESI Total Citations

Rank

JCR Year	MATHEMATICS
2018	382/491-Q4
2017	380/487-Q4
2016	375/488-Q4
2015	362/488-Q3
2014	382/488-Q4
2013	369/473-Q4

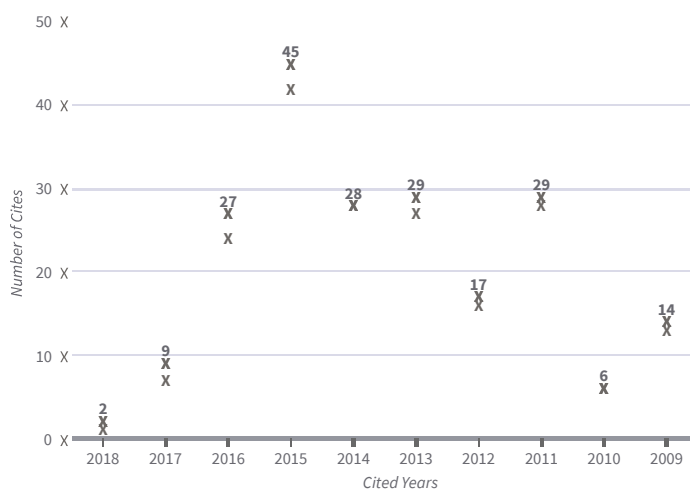


Cited Journal Data

Cited Half-Life Data

Cited Year	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008-All
#Cites from 2018	2	9	27	45	28	29	17	29	6	14	205
Cumulative %	0.49%	2.68%	9.25%	20.19%	27.01%	34.06%	38.20%	45.26%	46.72%	50.12%	100.00%

Cited Journal Graph 2018



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.

InCites Journal Citation Reports

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Cited Journal Data 2018

rank	Impact	Citing Journal	All Yrs	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	Rest
		ALL Journals	411	2	9	27	45	28	29	17	29	6	14	205
		ALL OTHERS (139)	139	1	4	7	21	12	5	5	11	0	5	68
1	0.537	APPL MATH-CZECH	17	1	2	3	3	0	2	1	1	0	1	3
2	1.450	NONLINEAR ANAL-THEOR	10	0	0	1	0	0	0	1	0	0	0	8
3	1.883	J COMPUT APPL MATH	9	0	1	1	1	0	1	0	0	0	0	5
4	1.938	J DIFFER EQUATIONS	8	0	0	0	1	0	0	1	0	0	0	6
5	1.600	J OPTIMIZ THEORY APP	8	0	0	0	0	1	1	0	1	1	0	4
6	1.510	ADV DIFFER EQU-NY	7	0	0	0	2	2	2	1	0	0	0	0
7	1.260	COMPUT APPL MATH	7	0	0	0	0	1	2	0	0	0	1	3
8	2.811	COMPUT MATH APPL	7	0	0	2	1	0	0	0	0	0	0	4
9	0.690	ELECTRON J DIFFER EQ	7	0	0	1	2	0	1	0	0	0	0	3
10	1.188	J MATH ANAL APPL	7	0	0	1	0	0	0	1	1	0	0	4
11	3.092	APPL MATH COMPUT	6	0	1	0	1	0	0	0	1	1	1	1
12	2.370	J SCI COMPUT	6	0	0	0	2	0	0	0	0	0	0	4
13	1.533	MATH METHOD APPL SCI	6	0	0	2	2	0	1	0	1	0	0	0
14	1.895	APPL MATH OPT	5	0	0	1	1	0	0	0	0	0	1	2
15	1.678	APPL NUMER MATH	5	0	0	1	0	0	0	0	0	1	0	3
16	1.303	COMMUN MATH SCI	5	0	1	0	1	0	0	0	1	1	0	1
17	1.116	J APPL ANAL COMPUT	5	0	0	0	0	0	1	2	0	0	1	1
18	1.298	NUMER LINEAR ALGEBR	5	0	0	0	0	0	0	0	0	0	0	5
19	1.986	SIAM J CONTROL OPTIM	5	0	0	0	0	1	0	0	1	0	0	3
20	1.652	CALC VAR PARTIAL DIF	4	0	0	0	0	0	0	0	0	0	0	4
21	0.925	COMMUN PUR APPL ANAL	4	0	0	1	0	0	0	0	0	0	2	1
22	4.821	COMPUT METHOD APPL M	4	0	0	0	0	0	0	0	0	0	0	4
23	0.847	MATH NACHR	4	0	0	0	0	0	0	0	1	0	0	3
24	1.179	MATH PROBL ENG	4	0	0	0	0	0	1	0	1	1	0	1
25	0.490	MATH SLOVACA	4	0	0	0	0	0	1	0	0	0	0	3
26	0.741	DISCRETE COMPUT GEOM	3	0	0	1	1	0	0	0	0	0	0	1
27	1.008	DISCRETE CONT DYN-B	3	0	0	0	0	0	0	0	0	0	0	3
28	1.475	ELECTRON T NUMER ANA	3	0	0	0	0	0	1	0	0	0	0	2

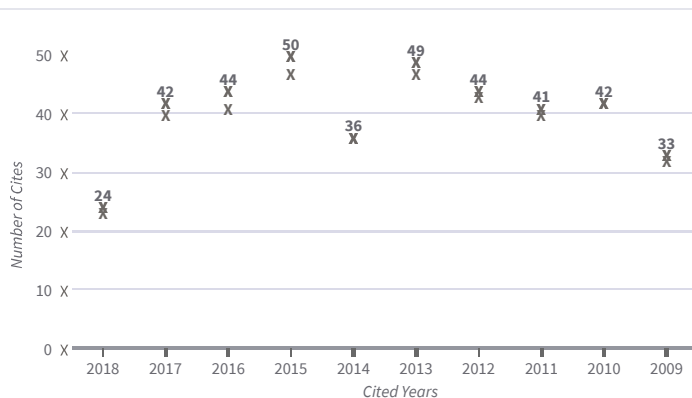
Showing 1 - 30 rows of 76 total

Citing Journal Data

Citing Half-Life Data

Citing Year	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	2008-All
#Cites from 2018	24	42	44	50	36	49	44	41	42	33	479
Cumulative %	2.71%	7.47%	12.44%	18.10%	22.17%	27.71%	32.69%	37.33%	42.08%	45.81%	100.00%

Citing Journal Graph 2018



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.
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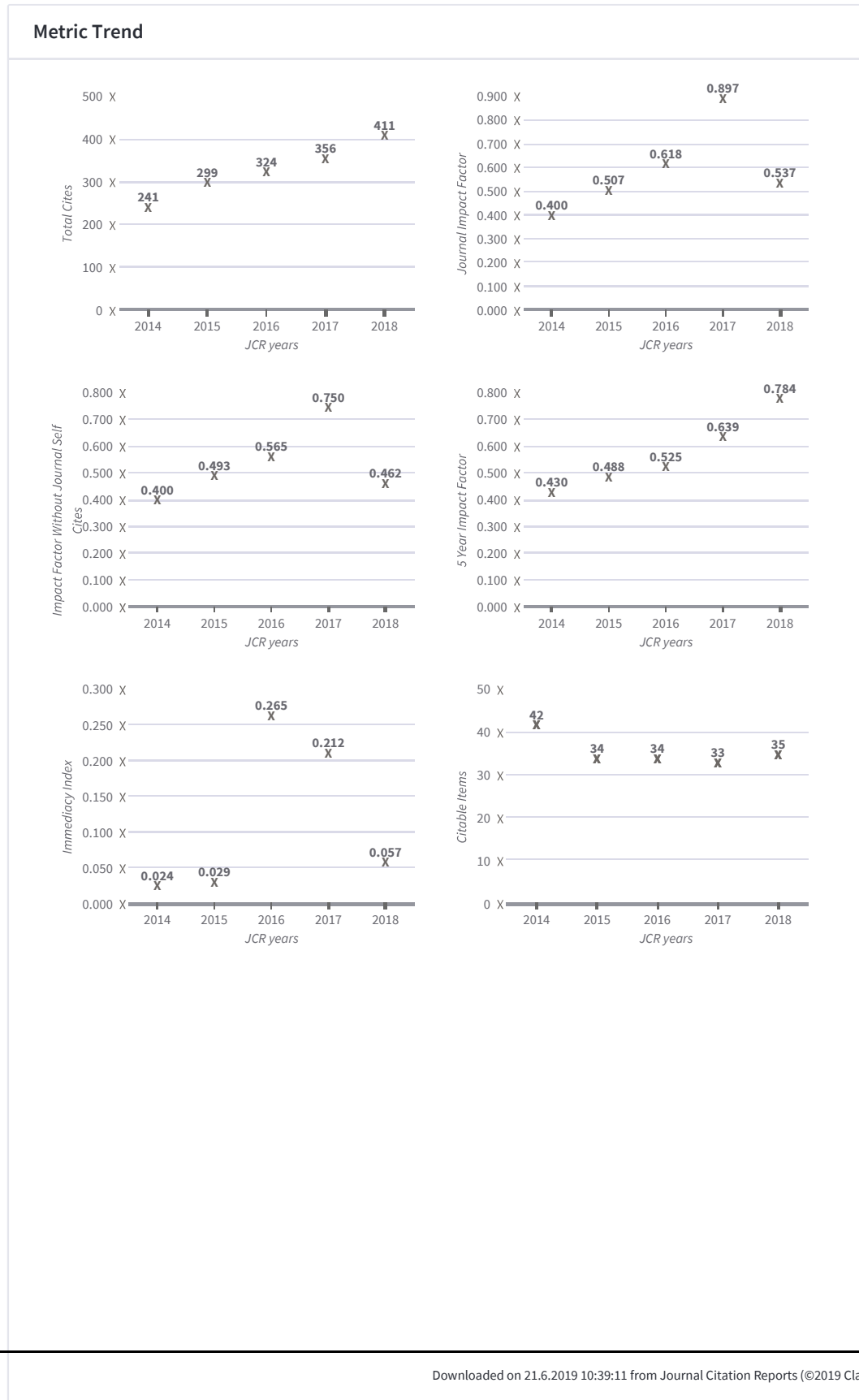


Citing Journal Data 2018

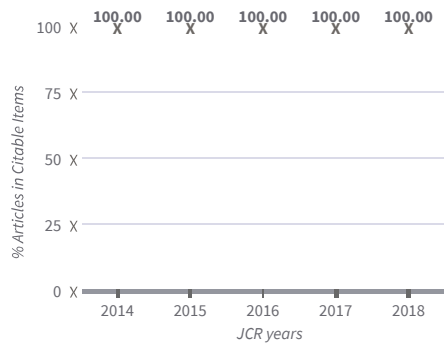
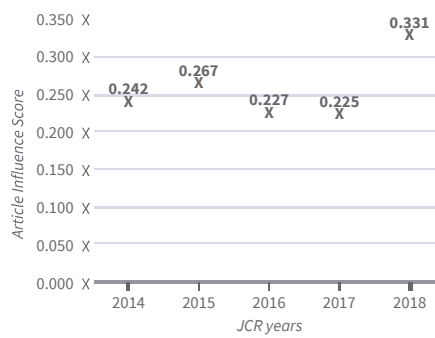
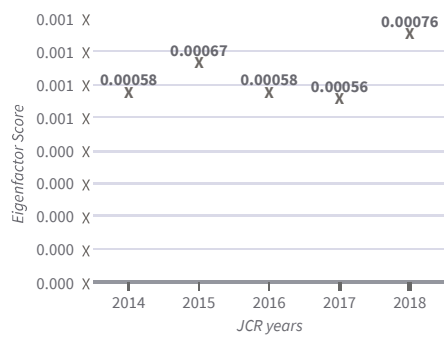
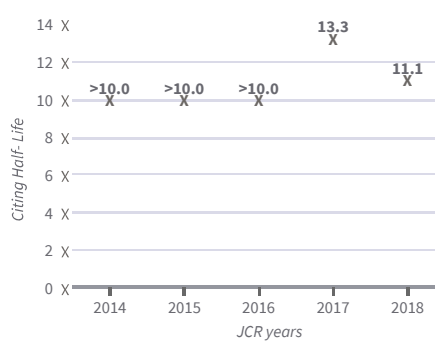
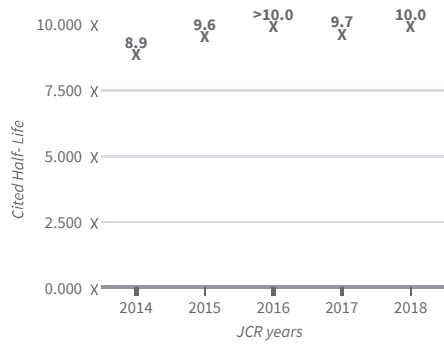
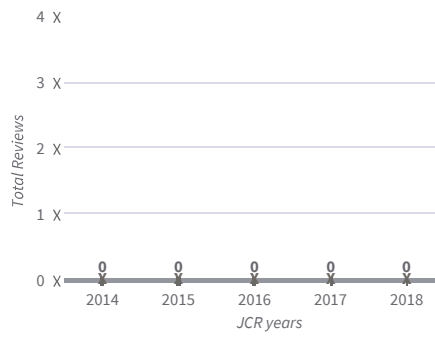
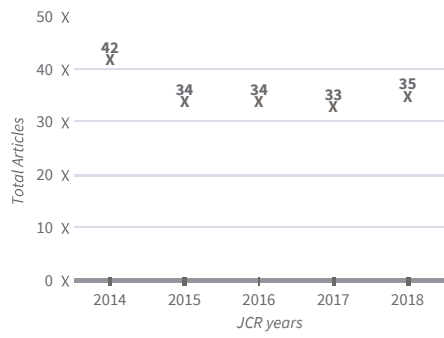
rank	Impact	Cited Journal	All Yrs	2018	2017	2016	2015	2014	2013	2012	2011	2010	2009	Rest
		ALL Journals	884	24	42	44	50	36	49	44	41	42	33	479
		ALL OTHERS (343)	343	9	11	11	18	13	20	14	18	10	14	205
1	2.322	SIAM J NUMER ANAL	26	1	0	2	0	2	3	2	1	0	0	15
2	0.537	APPL MATH-CZECH	17	1	2	3	3	0	2	1	1	0	1	3
3	1.883	J COMPUT APPL MATH	16	0	2	2	1	1	2	2	0	0	2	4
4	4.821	COMPUT METHOD APPL M	14	0	3	0	0	2	1	0	1	0	1	6
5	2.811	COMPUT MATH APPL	12	1	4	2	0	0	1	0	1	2	0	1
6	1.858	INVERSE PROBL	11	0	0	1	1	1	0	1	0	1	0	6
7	2.845	J COMPUT PHYS	11	0	0	2	0	2	1	0	2	1	1	2
8	1.188	J MATH ANAL APPL	10	0	0	0	0	0	0	0	0	1	0	9
9	1.450	NONLINEAR ANAL-THEOR	10	0	0	0	0	1	1	1	0	0	0	7
10	3.487	APPL MATH LETT	9	0	0	0	1	0	0	0	3	4	1	0
11	0.424	COMMUN STAT-THEOR M	9	1	2	1	0	1	0	2	0	0	0	2
12	3.127	MATH MOD METH APPL S	9	2	0	2	1	1	1	0	0	0	0	2
13	2.137	NUMER MATH	9	0	1	0	0	0	0	1	2	0	1	4
14	2.310	SIAM J SCI COMPUT	9	0	1	0	0	0	0	0	0	1	0	7
15	1.988	ESAIM-MATH MODEL NUM	8	1	1	1	1	0	0	0	0	0	0	4
16	1.449	SIAM J APPL MATH	8	0	0	1	0	0	0	1	1	0	0	5
17	2.397	IMA J NUMER ANAL	7	0	2	0	0	2	0	0	0	0	1	2
18	0.756	J STAT PLAN INFER	7	0	0	0	0	0	0	0	1	1	3	2
19	2.865	J VIB CONTROL	7	2	0	1	0	0	1	0	1	0	0	2
20	4.604	NONLINEAR DYNAM	7	1	1	1	0	0	0	1	1	0	0	2
21	2.876	SIAM J OPTIMIZ	7	0	0	0	0	0	0	1	0	1	0	5
22		SPRINGER SERIES COMP	7	0	0	0	0	0	0	0	0	0	0	7
23	3.092	APPL MATH COMPUT	6	0	0	0	1	0	2	0	0	0	0	3
24		APPL MATH SCI	6	0	0	0	0	0	1	0	0	0	0	5
25	1.938	J DIFFER EQUATIONS	6	0	0	1	0	1	0	1	1	2	0	0
26	1.409	MATH COMPUT SIMULAT	6	0	0	0	0	0	0	0	0	1	1	4
27	3.785	MATH PROGRAM	6	0	0	0	0	0	0	0	0	0	0	6
28	1.637	J FUNCT ANAL	5	0	0	0	0	0	0	0	0	2	0	3

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Metric trend

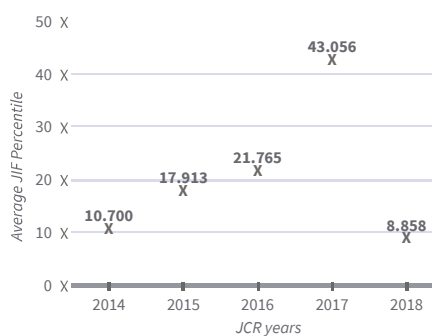
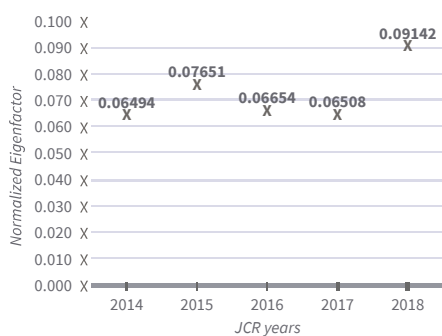


InCites Journal Citation Reports



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These data summarize the characteristics of the journal's published content for the most recent three years, that is, 2018 and the two prior years, combined. This information is based on all listed authors and addresses. It is meant to be descriptive rather than comparative.

Contributions by country/region		Contributions by organizations	
country	count	organization	count
1. Czech Republic	45	1. CZECH ACADEMY OF SCIENCES	16
2. CHINA MAINLAND	19	2. CHARLES UNIVERSITY PRAGUE	15
3. Japan	11	3. TECHNICAL UNIVERSITY LIBEREC	6
4. Iran	6	- TECHNICAL UNIVERSITY OF OSTRAVA	6
5. Canada	4	5. CZECH TECHNICAL UNIVERSITY PRAGUE	5
- Vietnam	4	6. TOKYO UNIVERSITY OF SCIENCE	3
- USA	4	- UNIVERSITY OF TOKYO	3
- Italy	4	- WESTERN NORWAY UNIVERSITY OF APPLIED SCIENCES	3
- India	4	- CHINESE ACADEMY OF SCIENCES	3
10. Egypt	3	- UNIVERSITY OF WEST BOHEMIA PILSEN	3
- Sweden	3		
- Norway	3		
- GERMANY (FED REP GER)	3		