

Łukasz Opaliński
Oddział Informacji Naukowej
Biblioteki Głównej
Politechniki Rzeszowskiej



V Ogólnopolska Konferencja Naukowa

ZARZĄDZANIE INFORMACJĄ W NAUCE

Katowice, 27 – 28 listopada 2014

Bibliometryczny i informacyjny potencjał bazy *MathSciNet* *Mathematical Reviews* dla analiz i wyszukiwania literatury z zakresu matematyki

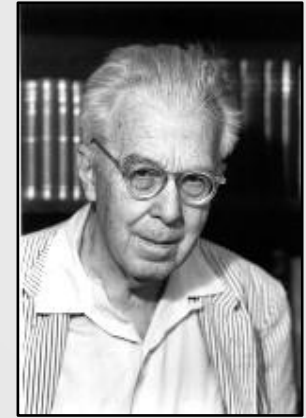
Spis treści:

- 1. Informacje ogólne**
- 2. Czasopisma w *MathSciNet***
- 3. Jednoznaczna identyfikacja autorów**
- 4. System klasyfikacyjny *Mathematics Subject Classification***
- 5. Wnioski**
- 6. Bibliografia**



1. Informacje ogólne

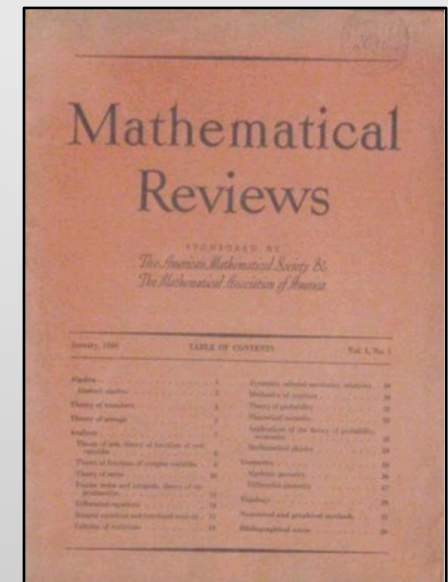
- **Otto Neugebauer** – założyciel czasopisma przeglądowego *Mathematical Reviews* – pierwowzoru bazy
- **Unikalność bazy *MathSciNet* w skali światowej**
- **Pierwsze wysiłki zmierzające do skomputeryzowania bazy**



Źródło: Instituto de Matemática - Universidade Federal do Rio Grande do Sul:
<http://www.mat.ufrgs.br/~portosil/neugebau.html>
[dostęp: 08.07.2014r.]

2. Czasopisma w *MathSciNet*

- **Zakres bazy w porównaniu z indeksem cytowań *Web of Science Core Collection***
- **Zróżnicowanie w polityce indeksowania czasopism**
 - **czasopisma typu *Indexed Cover to Cover***
 - **czasopisma typu *Reference List Journal***



Źródło: American Mathematical Society:
<https://m.facebook.com/amermathsoc/photos/p.10151544576760217/10151544576760217/?type=1&source=46&refid=17> [dostęp: 08.07.2014r.]

- przykład obu typów indeksacji czasopism

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Journal results for "topolog*"

[Algebr. Geom. Topol.](#) Algebraic & Geometric Topology [Indexed cover-to-cover; No longer indexed; Reference List Journal]

[Algebr. Geom. Topol.](#) Algebraic & Geometric Topology [Indexed cover-to-cover; Reference List Journal]

[Appl. Categ. Structures](#) Applied Categorical Structures. A Journal Devoted to Applications of Categorical Methods in Algebra, Analysis, Order, Topology and Computer Science [Indexed cover-to-cover; Reference List Journal]

[Appl. Gen. Topol.](#) Applied General Topology [Indexed cover-to-cover]

[Cah. Topol. Géom. Différ. Catég.](#) Cahiers de Topologie et Géométrie Différentielle Catégoriques [Indexed cover-to-cover]

[Cahiers Topologie Géom. Différentielle](#) Cahiers de Topologie et Géométrie Différentielle [No longer indexed]

[Cahiers Topologie Géom. Différentielle Catég.](#) Cahiers de Topologie et Géométrie Différentielle Catégoriques [No longer indexed]

[General Topology and Appl.](#) General Topology and its Applications [No longer indexed]

[General Topology Appl.](#) General Topology and its Applications [No longer indexed]

[Geom. Topol.](#) Geometry and Topology [Indexed cover-to-cover; No longer indexed; Reference List Journal]

[Geom. Topol.](#) Geometry & Topology [Indexed cover-to-cover; Reference List Journal]

[J. Adv. Stud. Topol.](#) Journal of Advanced Studies in Topology

[J. Gökova Geom. Topol.](#) GGT Journal of Gökova Geometry Topology. GGT [Indexed cover-to-cover; Reference List Journal]

[J. K-Theory](#) Journal of K-Theory. K-Theory and its Applications in Algebra, Geometry, Analysis & Topology [Indexed cover-to-cover; Reference List Journal]

[J. Topol.](#) Journal of Topology [Indexed cover-to-cover; Reference List Journal]

[J. Topol. Anal.](#) Journal of Topology and Analysis [Indexed cover-to-cover; Reference List Journal]

[JP J. Geom. Topol.](#) JP Journal of Geometry and Topology [Indexed cover-to-cover]

[Linear Topol. Spaces Complex Anal.](#) Linear Topological Spaces and Complex Analysis [No longer indexed]

[Methods Funct. Anal. Topology](#) Methods of Functional Analysis and Topology [Indexed cover-to-cover; Reference List Journal]

[Quantum Topol.](#) Quantum Topology [Indexed cover-to-cover]

[Questions Answers Gen. Topology](#) Questions and Answers in General Topology [Indexed cover-to-cover]

Źródło: AMS MSN JOURNAL RESULTS: http://www.ams.org/mathscinet/search/journals.html?journalName=topolog*&Submit=Search [dostęp: 17.07.2014 r.].

- Liczba pominiętych publikacji w losowo wybranych czasopismach nie indeksowanych w całości, oszacowana na podstawie danych z bazy *Web of Science*

Tabela 1

L.p.	Tytuł czasopisma	Rocznik czasopisma	Ilość artykułów indeksowanych w danym roczniku w <i>MathSciNet</i>	Ilość artykułów indeksowanych w danym roczniku w <i>Web of Science</i>
1.	<i>Acta Mathematica Academiae Scientiarum Hungaricae</i>	1980	88	88
2.	<i>Annals of Mathematics and Artificial Intelligence</i>	2012	37	39
3.	<i>Annals of the Institute of Statistical Mathematics</i>	2010	54	54
4.	<i>Asian Journal of Control</i>	2012	158	165
5.	<i>Bayesian Analysis</i>	2007	40	40
6.	<i>Bulletin of the Calcutta Mathematical Society</i>	1969	20	31
7.	<i>Communications in Statistics. Theory and Methods</i>	2000	97	175
8.	<i>Computational and Mathematical Methods in Medicine</i>	2010	21 ¹	20
9.	<i>Engineering Analysis with Boundary Elements</i>	2010	104	125
10.	<i>IMA Journal of Management Mathematics</i>	2009	19	28
11.	<i>International Journal of Game Theory</i>	1999	34	36

¹ Różnica jednego artykułu na korzyść *MathSciNet* wynika z uwzględnienia w bazie erraty (*corrigendum*) do artykułu *Modelling of peripheral fluid accumulation after a crystalloid bolus in female volunteers—a mathematical study*, opublikowanej w tym samym numerze czasopisma jako oddzielny tekst.

Tabela 1 – c.d.


12.	<i>Journal of Multiple-Valued Logic and Soft Computing</i>	2009	24	40
13.	<i>Journal of the Franklin Institute. Engineering and Applied Mathematics</i>	2004	35	47
14.	<i>Journal of the Royal Statistical Society. Series A. Statistics in Society</i>	2012	44	65
15.	<i>Mathematical Control and Related Fields</i>	2011	22	22
16.	<i>Philosophical Transactions of the Royal Society of London. Series A. Mathematical, Physical and Engineering Sciences</i>	1992	24 ²	129
17.	<i>Problems of Information Transmission</i>	2007	32	32
18.	<i>Proceedings of the Steklov Institute of Mathematics</i>	2009	138	160
19.	<i>Structural Equation Modeling. A Multidisciplinary Journal</i>	2011	35	40
20.	<i>Transport Theory and Statistical Physics</i>	2008	28	33

² Tak duża różnica w przypadku czasopisma *Philosophical Transactions...* wynika z faktu, że w *MathSciNet* pominięte zostały artykuły, które w roku 1992 w tym czasopiśmie faktycznie opublikowano, ale które zarazem miały niewielki bądź żaden związek z matematyką czy metodami matematycznymi. Pominięto np. artykuł pt.: *Sensitization of Nitrocompounds by Amines* („Sensybilizacja nitrozwiązków za pomocą amin”).

Źródło: opracowanie własne

- Całkowita liczba publikacji z zakresu matematyki w *MathSciNet*, w *Web of Science*, w bazie *Scopus* oraz *Zentralblatt für Mathematik*

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Publications results for "pubyear in [1945 2013]"

MR3227826 Prelim Chen, Fong-Ching; Book review: "The one who never fails to astound — upon reading C. N. Yang's *Selected papers II with commentaries*". *Internat. J. Modern Phys. A* 28 (2013), no. 19, 1380001 (5 pages).
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Źródło: AMS MSN PUBLICATIONS RESULTS:

http://www.ams.org/mathscinet/search/publications.html?pg4=AUCN&s4=&co4=AND&pg5=TI&s5=&co5=AND&pg6=PC&s6=&co6=AND&pg7=ALLF&s7=&co7=AND&Submit=Search&yrop=eq&arg3=&dr=pubyear&yearRangeFirst=1945&yearRangeSecond=2013&pg8=ET&s8=All&review_format=html [dostęp: 08.07.2014 r.].

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# 1	1,355,316	WC=mathematics OR WC=mathematics, applied OR WC=mathematics, interdisciplinary applications OR WC=statistics & probability <i>Indexes=SCI-EXPANDED, CPCI-S Timespan=1945-2013</i>	Edit	<input type="checkbox"/>	<input type="checkbox"/>

Źródło: WEB OF SCIENCE CORE COLLECTION ADVANCED SEARCH:

http://apps.webofknowledge.com/WOS_AdvancedSearch_input.do?SID=N2XC0t45m2KTO68F8gj&product=WOS&replaceSetId=&goToPageLoc=SearchHistoryTableBanner&search_mode=AdvancedSearch&errorQid=1#SearchHistoryTableBanner [dostęp: 08.07.2014 r.].

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Źródło: SCOPUS DOCUMENT SEARCH:

http://www.scopus.com/results/results.url?cc=10&sort=plf-f&src=s&nlo=&nlr=&nls=&sid=35AA80493C7A080A160EBF415DDC17B6.iqs8TDG0Wy6BURhzD3nFA%3a920&sot=a&sdt=a&sl=64&s=TITLE-ABS-KEY%28mathematic*%29+AND+PUBYEAR+%3e+1944+AND+PUBYEAR+%3c+2014&ss=plf-f&ps=r-f&origin=resultlist&zone=resultlist [dostęp: 08.07.2014 r.].



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Found 3089147 documents (Results 1–100)[Zhu, Jiang](#); [Wang, Yunjie](#); [Zhu, Cheng-Cheng](#)**Fixed point theorems for contractions in fuzzy normed spaces and intuitionistic fuzzy normed spaces.** (English) [Zbl 06314479](#)

Fixed Point Theory Appl. 2013, Article ID 79, 10 p., electronic only (2013).

MSC: 47H10 54A40 54E50 54H25

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[Wang, Wei](#) (72)[Kumam, Poom](#) (72)Źródło: ZENTRALBLATT MATH DOCUMENTS SEARCH: <https://zbmath.org/> [dostęp: 08.07.2014 r.].





3. Jednoznaczna identyfikacja autorów

- potrzeba możliwości jednoznacznego, zautomatyzowanego zidentyfikowania autora i jego publikacji
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<http://www.ams.org/mathscinet/search/authors.html?authorName=Watson%2C+Bruce&Submit=Search> [dostęp: 11.07.2014 r.].

- **Identyfikator „MR Author ID”**

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Watson, Bruce B.

MR Author ID:	193959
Earliest Indexed Publication:	1976
Total Publications:	37
Total Author/Related Publications:	42
Total Citations:	97

Published as: Watson, B. ...
Watson, Bruce

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Co-authors (by number of collaborations)

Borwein, David Chowdhury, Mohammad S. R. Das, Krishna
Mohan de Barros, Luiz G. X. Guzzardi, Renato Kelley, Carl T.
Meade, B. A. Norris, C. W. Park, Sehie Rhoades, Billy E.
Sachs, Ekkehard W. Sehgal, V. M. Shawyer, Bruce Lockhart
Robertson Singh, Mahi. R. **Singh, Sankatha**
Prasad Srivastava, Pramila Tarafdar, Enayet U.

- Narzędzie *Collaboration Distance*

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MR Collaboration Distance = 5

Bruce B. Watson	coauthored with	Carl T. Kelley	MR1137153 (92k:49059)
Carl T. Kelley	coauthored with	Masao Fukushima	MR2668334
Masao Fukushima	coauthored with	Sergio A. Albeverio	MR0634445 (83a:81020)
Sergio A. Albeverio	coauthored with	Paul A. Binding	MR2329939 (2008f:34020)
Paul A. Binding	coauthored with	Bruce Alastair Watson	MR1755777 (2001b:34154)

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Źródło: AMS MSN COLLABORATION DISTANCE: http://www.ams.org/mathscinet/collaborationDistance.html?group_source=193959 [dostęp: 12.07.2014 r.].

- Wybrane wyniki wyszukiwania autora „Watson, Bruce” przeprowadzonego w *Web of Science* przy użyciu funkcji *Author Search*

<p>Pressure-enabled phonon engineering in metals</p> <p>By: Lanzillo, Nicholas A.; Thomas, Jay B.; Watson, Bruce; et al. PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA Volume: 111 Issue: 24 Pages: 8712-8716 Published: JUN 17 2014</p> <p>Full Text from Publisher View Abstract</p>
<p>Eigencurves of non-definite Sturm-Liouville problems for the p-Laplacian</p> <p>By: Binding, Paul A.; Browne, Patrick J.; Watson, Bruce A. JOURNAL OF DIFFERENTIAL EQUATIONS Volume: 255 Issue: 9 Pages: 2751-2777 Published: NOV 1 2013</p> <p>Full Text from Publisher View Abstract</p>
<p>Mixingales on Riesz spaces</p> <p>By: Kuo, Wen-Chi; Vardy, Jessica Joy; Watson, Bruce Alastair JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS Volume: 402 Issue: 2 Pages: 731-738 Published: JUN 15 2013</p> <p>Full Text from Publisher View Abstract</p>
<p>Automata applications in chip-design software</p> <p>By: Watson, Bruce W. Edited by: Holub, J; Zdarek, J Conference: 12th International Conference on Implementation and Application of Automata Location: Czech Tech Univ Prague, CZECH REPUBLIC Date: JUL 16-18, 2007 Sponsor(s): IBM Czech Republic; Sun Microsyst Czech IMPLEMENTATION AND APPLICATION OF AUTOMATA Book Series: LECTURE NOTES IN COMPUTER SCIENCE Volume: 4783 Pages: 24-26 Published: 2007</p> <p>View Abstract</p>
<p>Eigenvalue asymptotics for differential operators on graphs</p> <p>By: Currie, S; Watson, BA JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS Volume: 182 Issue: 1 Pages: 13-31 Published: OCT 1 2005</p> <p>Full Text from Publisher View Abstract</p>
<p>A generalized fixed point theorem and equilibrium point of an abstract economy</p> <p>By: Singh, SP; Tarafdar, E; Watson, B JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS Volume: 113 Issue: 1-2 Pages: 65-71 Published: JAN 1 2000</p> <p>Full Text from Publisher View Abstract</p>

Źródło: WEB OF SCIENCE CORE COLLECTION AUTHOR SEARCH:
[http://apps.webofknowledge.com/summary.do?product=WOS&colName=WOS&qid=1&SID=Z2vauEoELon6zR7zqFH&search_mode=AuthorFinder&formValue\(summary_mode\)=AuthorFinder&page=1](http://apps.webofknowledge.com/summary.do?product=WOS&colName=WOS&qid=1&SID=Z2vauEoELon6zR7zqFH&search_mode=AuthorFinder&formValue(summary_mode)=AuthorFinder&page=1) [dostęp: 16.07.2014 r.].

- **Analogiczna niejednoznaczność wyników wyszukiwania po zawężeniu rezultatów przy użyciu opcji *Record Sets* i potrzeba doprecyzowania końcowego efektu**

Author Names	Last Known Organization 	Research Areas	Publication Years
WATSON BA Also published as: WATSON BRUCE A	University of Witwatersrand	MATHEMATICS (18) PHYSICS (2)	1999 - 2012
WATSON BA Also published as: WATSON BRUCE A WATSON B A	University of Witwatersrand	MATHEMATICS (13) PHYSICS (1) COMPUTER SCIENCE (1)	2004 - 2010
WATSON B	Undetermined	MATHEMATICS (11)	1981 - 2003
WATSON B	Undetermined	MATHEMATICS (4)	1976 - 1982
Watson, Bruce	Rensselaer Polytechnic Institute	SCIENCE and TECHNOLOGY - OTHER TOPICS (1)	2014
Watson, Bruce A.	University of Witwatersrand	MATHEMATICS (1)	2013
Watson, Bruce Alastair	University of Witwatersrand	MATHEMATICS (1)	2013
Watson, Bruce A.	University of Witwatersrand	MATHEMATICS (1)	2012
Watson, Bruce A.		MATHEMATICS (1)	2011
Watson, BA		COMPUTER SCIENCE (1) MATHEMATICS (1)	2004
Watson, B		MATHEMATICS (1)	1999
WATSON, BA	Undetermined	MATHEMATICS (1)	1990

4. System klasyfikacyjny *Mathematics Subject Classification*

- zalety i struktura systemu klasyfikacyjnego
 - pierwszy i drugi poziom szczegółowości

Browse Classification
Select a 2 digit classification

03 Mathematical logic and foundations ▼

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03-XX

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03-00	General reference works (handbooks, dictionaries, bibliographies, etc.)
03-01	Instructional exposition (textbooks, tutorial papers, etc.)
03-02	Research exposition (monographs, survey articles)
03-03	Historical (must also be assigned at least one classification number from Section 01)
03-04	Explicit machine computation and programs (not the theory of computation or programming)
03-06	Proceedings, conferences, collections, etc.
03Axx	Philosophical aspects of logic and foundations
03Bxx	General logic
03Cxx	Model theory
03Dxx	Computability and recursion theory
03Exx	Set theory
03Fxx	Proof theory and constructive mathematics
03Gxx	Algebraic logic
03Hxx	Nonstandard models [See also 03C62]

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<http://www.ams.org/mathscinet/msc/msc2010.html?t=03-XX&s=&btn=Search&ls=s> [dostęp: 17.07.2014 r.].

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Mathematical logic and foundations

- 03E02 Set theory
- 03E04 Partition relations
- 03E05 Ordered sets and their cofinalities; pcf theory
- 03E10 Other combinatorial set theory
- 03E15 Ordinal and cardinal numbers
- 03E17 Descriptive set theory [See also [28A05](#), [54H05](#)]
- 03E20 Cardinal characteristics of the continuum
- 03E25 Other classical set theory (including functions, relations, and set algebra)
- 03E30 Axiom of choice and related propositions
- 03E35 Axiomatics of classical set theory and its fragments
- 03E40 Consistency and independence results
- 03E45 Other aspects of forcing and Boolean-valued models
- 03E47 Inner models, including constructibility, ordinal definability, and core models
- 03E50 Other notions of set-theoretic definability
- 03E55 Continuum hypothesis and Martin's axiom [See also [03E57](#)]
- 03E57 Large cardinals
- 03E60 Generic absoluteness and forcing axioms [See also [03E50](#)]
- 03E65 Determinacy principles
- 03E70 Other hypotheses and axioms
- 03E72 Nonclassical and second-order set theories
- 03E75 Fuzzy set theory
- 03E99 Applications of set theory
- 03E99 None of the above, but in this section

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- zmiany postaci symboli klasyfikacyjnych zachodzące wraz z rozwojem systemu

- 1940 – 1958

MR0036286 Reviewed Sikorski, Roman Closure algebras. *Fund. Math.* **36**, (1949). 165–206. (Reviewer: R. Arens) **27.2X**
PDF | Clipboard | Journal | Article

MR0069931 Reviewed Kumar Jain, Mahendra On Meijer transform. *Acta Math.* **93**, (1955). 121–168. (Reviewer: A. Erdélyi) **42.4X**
PDF | Clipboard | Journal | Article

Źródło: AMS MSN PUBLICATIONS RESULTS:

http://www.ams.org/mathscinet/search/publications.html?pg4=AUCN&s4=&co4=AND&pg5=TI&s5=&co5=AND&pg6=PC&s6=27.2X+OR+42.4X&co6=AND&pg7=ALLF&s7=&co7=AND&Submit=Search&dr=all&yrop=eq&arg3=&yearRangeFirst=&yearRangeSecond=&pg8=ET&s8=All&review_format=html [dostęp: 18.07.2014 r.].

- 1959 – 1972

MR0105467 Reviewed Pierpont, James Lectures on the theory of functions of real variables. 2 Vols. Dover Publications, Inc., New York 1959
xii+560+xiii+645 pp. **26.00**
PDF | Clipboard | Series | Book

MR0150038 Reviewed Sierpinski, Wacław Introduction to the theory of sets and topology. Translated from a French manuscript by A. Sharma *The Indian Press (Pubs.) Private Ltd., Allahabad* 1962 vi+154 pp. (Reviewer: J. Mycielski) **04.00**
PDF | Clipboard | Series | Book

MR0288518 Reviewed Ponomarenko, Ju. A.; Timan, M. F. The absolute summability of multiple Fourier series. (Russian) *Ukrain. Mat. Ž.* **23** (1971) 346–361.
(Reviewer: R. L. Cooke) **42.40**
PDF | Clipboard | Journal | Article

Źródło: AMS MSN PUBLICATIONS RESULTS:

http://www.ams.org/mathscinet/search/publications.html?pg4=AUCN&s4=&co4=AND&pg5=TI&s5=&co5=AND&pg6=PC&s6=26.00+OR+04.00+OR+42.40&co6=AND&pg7=ALLF&s7=&co7=AND&Submit=Search&dr=all&yrop=eq&arg3=&yearRangeFirst=&yearRangeSecond=&pg8=ET&s8=All&review_format=html [dostęp: 18.07.2014 r.].

- Przykład ewolucji symboli klasyfikacyjnych wybranej sekcji tematycznej pomiędzy rokiem 1940 a czasami współczesnymi

Tabela 2

Symbol MSC	Data obowiązywania	Nazwa sekcji MSC	Objaśnienie w MSC
42.4X	1940 – 1958	Szeregi Fouriera. Przekształcenia całkowite	<i>Classification expansion for '42.4X'</i> 42.4 (1940-1958) Fourier series, integral transforms
42.40	1959 – 1972	Wielokrotne szeregi Fouriera i całki	<i>Classification expansion for '42.40'</i> 42.40 (1959-1972) Multiple Fourier series and integrals
42A92	1973 – 1979	Wielokrotne szeregi Fouriera i całki	<i>Classification expansion for '42A92'</i> 42A92 (1973-1979) Multiple Fourier series and integrals
42B05	1980 – obecnie	Szeregi i współczynniki Fouriera	<i>Classification expansion for '42B05'</i> 42B05 (1980-now) Fourier series and coefficients

Źródło: opracowanie własne na podstawie: AMS MSN MSC PRIMARY SEARCH & AMS MSN MSC CLASSIFICATION EXPANSION:
<http://www.ams.org/mathscinet/index.html?version=2> [dostęp: 20.07.2014 r.].

- Przykład pełnozakresowego wyszukiwania literatury w oparciu o schemat *Mathematics Subject Classification*

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Author	<input type="text"/>	and
Title	<input type="text"/>	and
MSC Primary	42.4X OR 42.40 OR 42A92 OR 42B05	and
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Time Frame

Entire Database

= Year

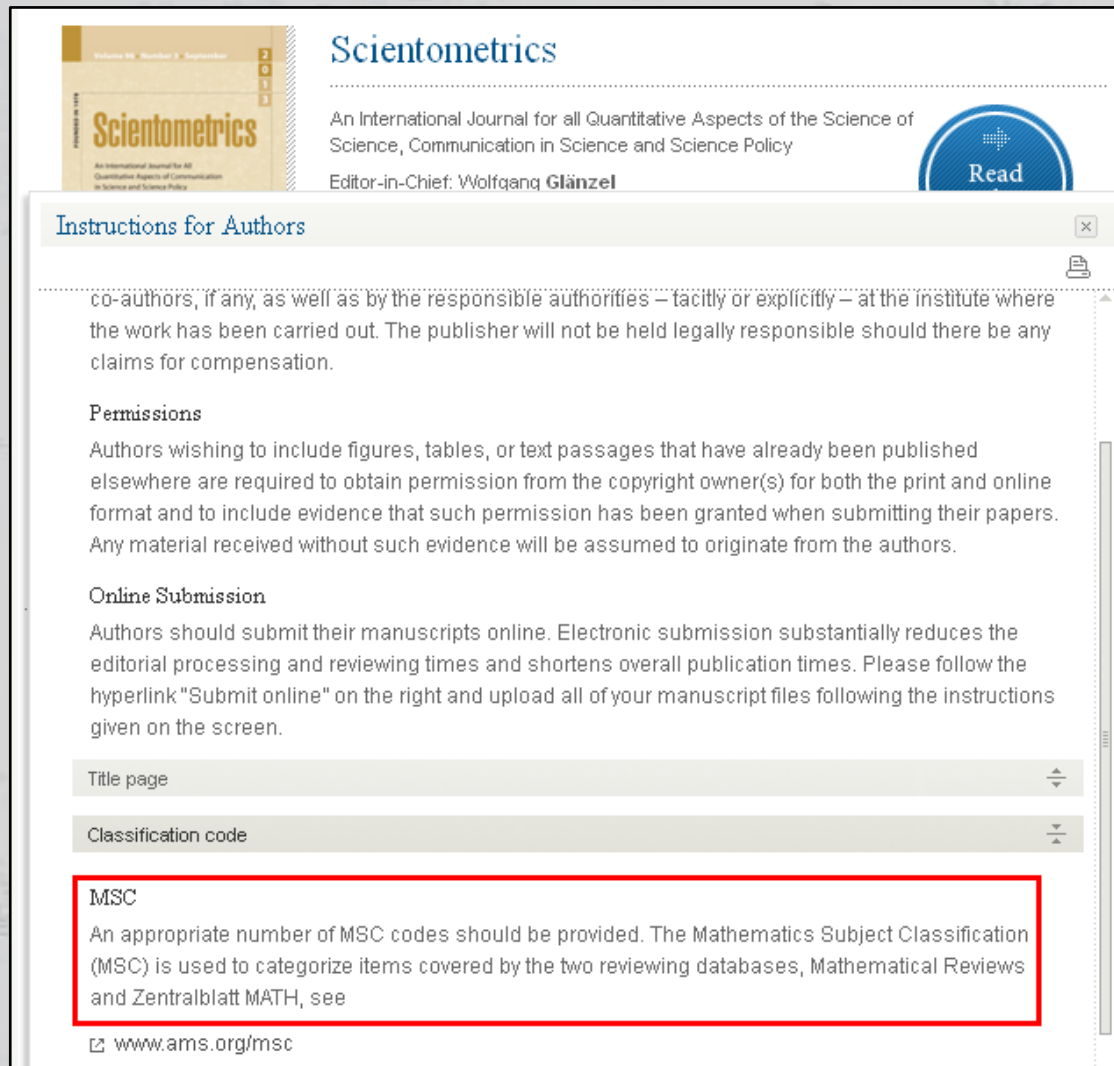
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All Books Journals Proceedings

Źródło: AMS MSN SEARCH:
<http://www.ams.org/mathscinet/index.html?version=2> [dostęp: 21.07.2014 r.].

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5. Wnioski

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- **Potrzeba popularyzacji bazy wśród bibliotekarzy i informatologów**

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