

The electronic version of Mathematical Reviews is the most important component of MathSciNet. Mathematical Reviews is a reviewing journal of international mathematics literature. The MathSciNet contains signed reviews and bibliographic data from the first issue in January 1940 to the present. Journals, conference proceedings and books of mathematical research are also covered. Items listed in the annual indexes of Mathematical Reviews, but not given an individual review, are also included. MathSciNet contains over 2 million items and over 700,000 direct links to original articles. Over 80,000 new items are added each year, most of them classified according to the Mathematics Subject Classification. Reference lists are collected and matched internally from over 300 journals, and citation data for journals, authors, articles and reviews is provided.

## Search

Searches can be conducted in one of the followings:

1. Name of author
2. Title
3. Mathematics Subject Classification ( MSC 2000)
4. keywords or phrases, which are included in the title, reviews or abstracts.

## Select Search by Field

Enter search criteria by selecting any field listed under search terms. Initially the cursor is in the blank text input box next to the first Field Name box displayed on the screen. Enter your search criteria. Continue this for each Field Name that you wish to search on. Leave the text input boxes blank next to any fields you are not using.

## Boolean Operators

Boolean operators that can be used in MathSciNet are: AND, OR, NOT. Boolean operators may be entered in the text input boxes and selected from the pull-down menus located between Field Names. For example, entering **modular** in the **Review text** field in the top text box and **variety** in the **Review text** field in the second box, and selecting **AND** as the Boolean operator, will match all MathSciNet items that contain both **modular and variety** in their review text, in any position and order.

The evaluation of Boolean expressions follows the precedence rule of AND and NOT before OR. Parentheses can be used inside text input boxes to override this precedence. There are implicit parentheses around the entire contents of each text box. NOT is really "AND ~", where ~ is the (logical) unary negation operator, which is evaluated first, on the right argument. (~ is not a MathSciNet operator.)

***\* Do not log on to the URL directly. First log on to N-LIST website with your user ID and password, and then select MathSciNet for accessing its journals.***

## Search Criteria Containing Mathematics (TeX)

You may search for strings that include TeX coding. TeX special characters, such as "\", "&", and "\$" are replaced by white space both in the search string and in the target, so their use is optional. For example, searching for "h 3", and "\$h 3\$" produces the same results, which include "(H)=3", "H/(3", and "\$H\$, (3)". (White space can be any number of space characters.)

The screenshot shows the MathSciNet search interface. At the top, there are navigation tabs for "Publications", "Authors", "Journals", "Author Citations", and "Journal Citations". Below these is the "Search Terms" section, which includes a dropdown menu for selecting the search field. The dropdown menu is open, showing options: Author, Author/Related, Title, Review Text, Journal, Institution Code, Series, MSC Primary/Secondary, MSC Primary, MR Number, Reviewer, Anywhere, and References. The "Author" field is currently selected, and the search term "modular" is entered. Below the dropdown menu, there are two more search fields: "variety" and an empty field. To the right of the search fields is the "Publication Type" section, which has radio buttons for "All", "Books", "Journals", and "Proceedings". At the bottom of the search area, there is a "Year Range" section with two input boxes and a "to" label. The footer of the page includes the text "Facts and Figures: 2,306,955 total publications" and links for "Help" and "Support Mail".

## Select a Period (Time frame)

Select the radio button for the option desired. The options are as follows:

The screenshot shows the MathSciNet search interface, focusing on the "Time Frame" section. The "Time Frame" section has a red circle around it, and a red arrow points from a red box labeled "Time Frame Option" to the "Year Range" option. The "Time Frame" section includes radio buttons for "Entire Database", "Year", and "Year Range". The "Year" option has a dropdown menu and an input box. The "Year Range" option has two input boxes and a "to" label. The "Publication Type" section is also visible, with radio buttons for "All", "Books", "Journals", and "Proceedings". The footer of the page includes the text "Facts and Figures: 2,306,955 total publications" and links for "Help" and "Support Mail".

- **Publication Year Ranges** - You may set your search to look for items with a Publication Year **less than**, **equal to** or **greater than** a specific year. Alternatively, you may also specify a year range, with inclusive lower and upper year bounds. Each year used must be input as a four-digit number, e.g. 2004.
- **Entire Database** - This option is selected by default. It performs a search of the entire database, which spans 1940 through the present, together with certain historical journal runs (items dating back to the late 1800s are listed in the database). You must enter at least one other search criterion.

## Select a Document Type

The screenshot shows the MathSciNet search interface. At the top, there are navigation tabs for 'Publications', 'Authors', 'Journals', 'Author Citations', and 'Journal Citations'. Below these is a 'Search Terms' section with four rows of dropdown menus and text input fields, each followed by an 'and' dropdown. The first row is 'Author', the second is 'Title', the third is 'MSC Primary', and the fourth is 'Anywhere'. Below the search terms are 'Search' and 'Clear' buttons. The 'Time Frame' section has three options: 'Entire Database' (selected), 'Year' (with a dropdown and input field), and 'Year Range' (with two input fields). The 'Publication Type' section has four radio buttons: 'All' (selected), 'Books', 'Journals', and 'Proceedings'. A red arrow points to the 'All' radio button, and a red box with the text 'Select Document Type' is overlaid on the interface.

The MathSciNet database contains information about the publication format of the original document. By default, all types of documents are searched. To refine a search, a single document type may be specified. Click the radio button next to the option desired. The options are as follows:

- Books
- Journals
- Proceedings
- All (the default)

## Author or Journal Search

Search the database in the name of a specific 'Author' or 'Journal'. For searching the name of an author click on the author tab above the search screen.

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Publications **Authors** Journals Author Citations Journal Citations

**Author Name**

Example: Hilbert, D\*

*Facts and Figures: 498,856 authors indexed* [Help](#) [Support Mail](#)

For example the screenshot below shows the search result for the Author 'Gilbert, C.' . By clicking on the author name it shows the publications of the author, collaborator authors etc.

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**MathSciNet** *Mathematical Reviews on the Web*

Home Help Support Mail

Author:

Matches: 3

Author results for "Gilbert, C."

Expand All | Collapse All

- [Gilbert, C.](#)
- [Gilbert, Christie L.](#)
- [Gilbert, Christopher L.](#)

Matches: [View Publications](#) [Refine Search](#) [Co-Authors](#) [Collaboration Distance](#) [Make Link](#)

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## Citation Reports

MathSciNet database also provides the citation reports for individual authors and journals. To view the citation reports click on the Author Citations' or Journal Citations' tab on the above screen.

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Publications Authors Journals Author Citations **Journal Citations**

**Journal**

Enter a journal abbreviation, journal name, partial name, or an ISSN

**Citing Year**

*Facts and Figures: 3,192,236 matched citations; 2,500 journals cited* [Help](#) [Support Mail](#)

Screen shot given below display citation information of journal **International Journal of Applied Mathematical Sciences**.

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### 2005 Citations to Int. J. Appl. Math. Sci. in the MR Citation Database

Mathematical Citation Quotient for 2005

Year	2005 Citations to Journal	Items Published in Journal	MCQ*
2004	0	0 ( 0% cited)	
2003	0	0 ( 0% cited)	
2002	0	0 ( 0% cited)	
2001	0	0 ( 0% cited)	
2000	0	0 ( 0% cited)	
	0 citations ÷	0 items =	0.00

\* The 2005 All Journal MCQ is 0.22  
(Total citations to this journal in the MR Citation Database in 2005: 0)  
(Total citations to this journal in the MR Citation Database: 1)

Save

Help Support Mail

## Set your preferences

To set your preferences, select Preferences from the tool bar at the top of the screen. The following choices are offered:

MathSciNet *Mathematical Reviews on the Web*

Preferences

Headlines per page:  20  50  100

Display Reference Lists:  Yes  No

Headlines:  Full  Simple

Display DML Items:  Yes  No

Site to search:

Language:

Font Face:  Sans Serif  Serif

Headline Numbering:  On  off

Save

Help Support Mail

- **Number of headlines per page.** The default is 20.
- **Display reference lists or not.** The default is yes.
- **Full or simple headlines.** The default is full; simple headlines list only the MR number and the bibliographic data while full headlines also include the MSC classification numbers and reviewer name as well as links to the article, journal and clipboard.
- **Display contributed items or not.** The default is yes; contributed items include items published before 1940, when Mathematical Reviews began, and also more current items that may not have been added to the database through the normal editorial process.
- **Which mirror site to search.** The primary server for MathSciNet is in Providence, RI USA. Mirror sites are located at Houston, TX USA; Rio de Janeiro, Brazil; Bielefeld, Germany; Bonn, Germany; and Strasbourg, France.
- **Language interface.** A selection of languages is offered for the presentation of the MathSciNet search screens and error messages; the choices are English, French, German, Chinese, Spanish, Russian, and Japanese. Depending on browser and version, it may also be the case that the switch in languages is made automatically by a browser preferences primary language setting.
- **Sans serif or serif font face.** The default is Sans serif.

After selecting your preferences, **save** them and close the preferences window. MathSciNet will remember these.

## Activate the Search

Once all desired search criteria have been entered, click the *Search* button. Search results are displayed as a headline list of bibliographic data that matches the search criteria. From this screen, full items can be selected for display. If a search results in a single item, the corresponding full item is returned, rather than a headline.

**MathSciNet** Mathematical Reviews on the Web

Matches: 220      Show first 100 results      Select Page: Previous 1 2 3 4 5 6 Next

Batch Download:  Retrieve Marked | Retrieve First 50 | Unmark All

Publications results for "Title=(modular ) AND Title=(variety )"
 

- MR2375161** Vernikov, Boris M. On modular elements of the lattice of semigroup varieties. *Comment. Math. Univ. Carolin.* 48 (2007), no. 4, 595--606. 20M07 (08B15)  
PDF | Doc Del | Clipboard | Journal | Article
- MR2369891** Getz, Jayce Intersection numbers of Hecke cycles on Hilbert modular varieties. *Amer. J. Math.* 129 (2007), no. 6, 1623--1658. 14G35 (11F41)  
PDF | Doc Del | Clipboard | Journal | Article
- MR2351660** Liu, Sheng-Chi Equidistribution of Hecke eigenforms on the Hilbert modular varieties. *J. Number Theory* 127 (2007), no. 1, 1--9. 11F41 (11F60)  
PDF | Doc Del | Clipboard | Journal | Article
- MR2353282** Vernikov, B. M. Lower-modular elements of the lattice of semigroup varieties. *Semigroup Forum* 75 (2007), no. 3, 555--567. 20M07 (08B15)  
PDF | Doc Del | Clipboard | Journal | Article
- MR2348026** Freitag, Eberhard; Salvati Manni, Riccardo Some modular varieties of low dimension. II. *Adv. Math.* 214 (2007), no. 1, 132--145. 14G35 (11F11)  
PDF | Doc Del | Clipboard | Journal | Article
- MR2335851** Hermann, Christian; Nurakunov, Anvar On locally finite modular lattice varieties of finite height. *Order* 24 (2007), no. 1, 31--37. (Reviewer: Andrzej Walendziak) 06C05  
PDF | Doc Del | Clipboard | Journal | Article

## Sort Order

MathSciNet results are in most cases presented in the following order:

- By reverse order of publication year of the original item
- Within publication year, by reverse order of the date on which the item was entered into the Mathematical Reviews Database.

The exception to this order occurs when a headline list is obtained by clicking on a journal issue: from a headline list, from a full item, or from a list of journal issues obtained in Search the Journals Database. The resulting headline list displays all items in the MR Database taken from the chosen issue of the given journal, ordered by first page number for journals issued with consecutive paging. As a result, the items appear in table-of-contents order.

## Bibliographic Citation(s)

Each headline item displays the following bibliographic information: MR Number, Author Name(s), Title, Journal, Volume, Publication Year, Issue, Paging, Translation Journal and Issue (when applicable), Series and Mathematics Subject Classification (MSC). Some items may be listed as Database Expansion Items.

## MR Number

The MR Number is a number (or pair of identifiers) used to uniquely identify a specific record in the Mathematical Reviews (MR) Database. Every item in the database has a seven-digit accession number, and some items also have an additional identifier in parentheses following the seven-digit number, for compatibility with the paper publication Mathematical Reviews. (See MathSciNet Field Help for additional information about the MR Number.)

Click on an MR Number from the headline list to display the full item.

**Example:** seven-digit number - [MR1909785](#) or seven-digit number with additional identifier Number - [MR1883032 \(2002k:13024\)](#)

### Author Name(s)

Names are displayed in the bibliographic information as: lastname, firstname, middlename or initial(s). Click on an author name to retrieve a headline list of all papers by that author.

**Example:** [Novikova, N. M.](#); [Pospelova, I. I.](#); [Semovskaya, A. S.](#)

### Title

The original title of an item is given if it is in English, French, or German. If the item is a paper, only a translated title is provided for languages other than English, French, or German. If the item is monographic, the original title (or its transliteration) is given, with an English translation.

**Example:** Canadian Journal of Mathematics: 1949--95

**MathSciNet** Mathematical Reviews on the Web

Select alternative format Previous Up Next

Publications results for "Title=(canadian journal of mathematics)"

**MR1661632**  
**Index---Canadian Journal of Mathematics: 1949--1995.** *Canadian Mathematical Society. 1945--1995, Vol. 2, 345--518, Canadian Math. Soc., Ottawa, ON, 1996.*  
 00A15

PDF | Doc Del | Clipboard | Journal | Article | Make Link

{This item will not be reviewed individually. For details of the collection in which this item appears see MR1661630 (2000a:01038) .}

{For the entire collection see MR1661630 (2000a:01038).}

Citations
From References: 0
From Reviews: 0

## Journal

In MathSciNet, full or abbreviated journal names are available for all items from 1980 to the present. Prior to 1980 only journal name abbreviations are included. Click on a journal name to retrieve bibliographic information about that particular journal, including full name, issues per year, publisher, and ISSN number. In addition, links to lists of indexed items in issues of that particular journal are presented. (See MathSciNet Field Help for additional information about journal names.)

**MathSciNet** Mathematical Reviews on the Web

Journal Information for "Communications on Pure and Applied Mathematics"

**Comm. Pure Appl. Math.**

Communications on Pure and Applied Mathematics  
 Wiley 111 River St. Hoboken NJ 07030  
 ISSN: 0010-3640  
 E-ISSN: 1097-0312  
 CODEN: CPAMA  
 12 Issues/vol./yr.  
 Indexed cover-to-cover  
 Status: Current  
<http://www3.interscience.wiley.com/cgi-bin/jtoc/29240/>

List Journal Issues

ISS 1.0    ISS 2.0

The issue number links to a headline list of indexed items from that issue. If there is no issue number, the year will be a link to the list of indexed items. The publication year can be used as a search criterion on the full search screen.

**Example:** 40 (2000), no. 10, 1451--1463

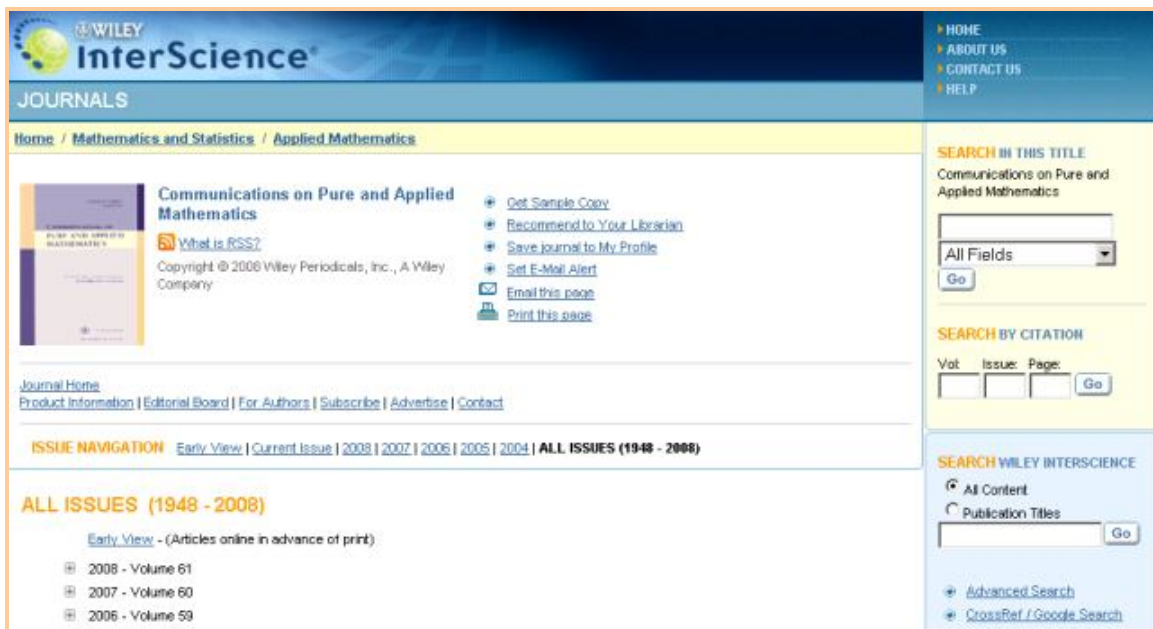
### Links to Original Documents

From the headline list, there may be links to the original document depending on what is available for that document. Links may be to an original article, a journal homepage, or to the document delivery service.

**Article:** This link is displayed below a headline item. It links directly to the online article at the publisher's or journal's Web site. Access to the full text of an article is dependent on your having a subscription to the journal. In some cases, the abstract for the article is available without a subscription. A current list of journals is available from the MathSciNet Journal Search and Current Journal Issues pages.



**Journal:** This link is displayed below a headline item. This link is active when a link to a journal homepage is available. Access to the full text of an article is dependent on your having a subscription to the journal. In some cases, the abstract for the article is available without a subscription.



The screenshot shows the Wiley InterScience website interface. At the top, there is a navigation bar with links for HOME, ABOUT US, CONTACT US, and HELP. Below this, the page is titled "JOURNALS" and shows a breadcrumb trail: Home / Mathematics and Statistics / Applied Mathematics. The main content area features the journal cover for "Communications on Pure and Applied Mathematics" with a "What is RSS?" icon. To the right of the cover are several utility links: Get Sample Copy, Recommend to Your Librarian, Save Journal to My Profile, Set E-Mail Alert, Email this page, and Print this page. Below the cover, there are links for Journal Home, Product Information, Editorial Board, For Authors, Subscribe, Advertise, and Contact. An "ISSUE NAVIGATION" section lists links for Early View, Current Issue, and years from 2008 to 2004, along with a link for "ALL ISSUES (1948 - 2008)". A section titled "ALL ISSUES (1948 - 2008)" includes a link for "Early View - (Articles online in advance of print)" and a list of years and volumes: 2008 - Volume 61, 2007 - Volume 60, and 2006 - Volume 59. On the right side of the page, there are two search boxes. The first is titled "SEARCH IN THIS TITLE" and contains the text "Communications on Pure and Applied Mathematics" with a search field and a "Go" button. The second is titled "SEARCH BY CITATION" and has fields for "Vol", "Issue", and "Page" with a "Go" button. At the bottom right, there is a "SEARCH WILEY INTERSCIENCE" section with radio buttons for "All Content" and "Publication Titles", a search field, and a "Go" button. Below this are links for "Advanced Search" and "CrossRef / Google Search".

## Retrieving Full Item(s)

The MathSciNet database provides many options for viewing full items. Full items can be displayed individually and in groups. They can also be viewed in various formats.

## Displaying Full Items Individually

Full items can be viewed in HTML, PDF, PostScript and DVI formats. Viewers are required for all formats except HTML. To view a full item in HTML format, click on the MR identifier for the item to be displayed. Viewing a full item in HTML format will provide you with active links to other data.

Select alternative format ▾

[Previous](#) [Up](#) [Next](#)

Publications results for "Title=(molecular)"

MR2338529

Cottrell, D.(3-MGL); Tupper, P. F.(3-MGL)

**Energy drift in molecular dynamics simulations.** (English summary)*BIT* 47 (2007), no. 3, 507--523.

37M15 (37M05 65Dxx 70Hxx 81V55)

[PDF](#) | [Doc Del](#) | [Clipboard](#) | [Journal](#) | [Article](#) | [Make Link](#)**Citations**

From References: 0

From Reviews: 0

{A review for this Item is in process.}

**References**

1. M. P. Allen and D. J. Tildesley, *Computer Simulation of Liquids*, Oxford University Press, Oxford, 1987.
2. G. Benettin and A. Giorgilli, *On the Hamiltonian interpolation of near-to-the-identity symplectic mappings with application to symplectic integration algorithms*, *J. Stat. Phys.*, 74 (1993), pp. 1117--1142. [MR1268787 \(95b:58055\)](#)
3. P. Billingsley, *Convergence of Probability Measures*, John Wiley & Sons, Inc., New York, 1999. [MR1700749 \(2000e:60008\)](#)
4. G. Ciccotti, D. Frenkel, and I. R. McDonald, eds., *Simulation of Liquids and Solids: Molecular Dynamics and Monte Carlo Methods in Statistical Mechanics*, North-Holland, Amsterdam, 1987.
5. D. Cottrell, *Symplectic integration of simple collisions: A backward error analysis*, Master's thesis, McGill University, 2004. ([www.math.mcgill.ca/~simscottrell/thesis.pdf](http://www.math.mcgill.ca/~simscottrell/thesis.pdf))

**User Profile**

To create a user profile, click the **Sign In** link located at the top right hand corner of the page. You may then create a customised search page by changing the drop down fields and selecting those of most use. To save your selection, click on the **Save Profile** link at the top right hand corner of the page.