善用MathSciNet—
助力数学方向科研文献调研与发掘

学科服务与咨询部 李梅

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1 MathSciNet简介

Introduction

1 MathSciNet简介

- 《数学评论》（Mathematical Reviews）1940年创刊，内含对数学、统计学与计算科学领域出版物的摘要和评论内容。MathSciNet 是《数学评论》网络版。
- MathSciNet收录超过300 万篇文章书籍，超过2000种期刊，其中70%的文献提供DOI链接，最早记录已回溯至1800s。
- MathSciNet为全球超100万名学者提供同行交流平台，为每名学者创建了个人信息页，并将同一学者的不同署名做了归一化处理。



1 MathSciNet简介

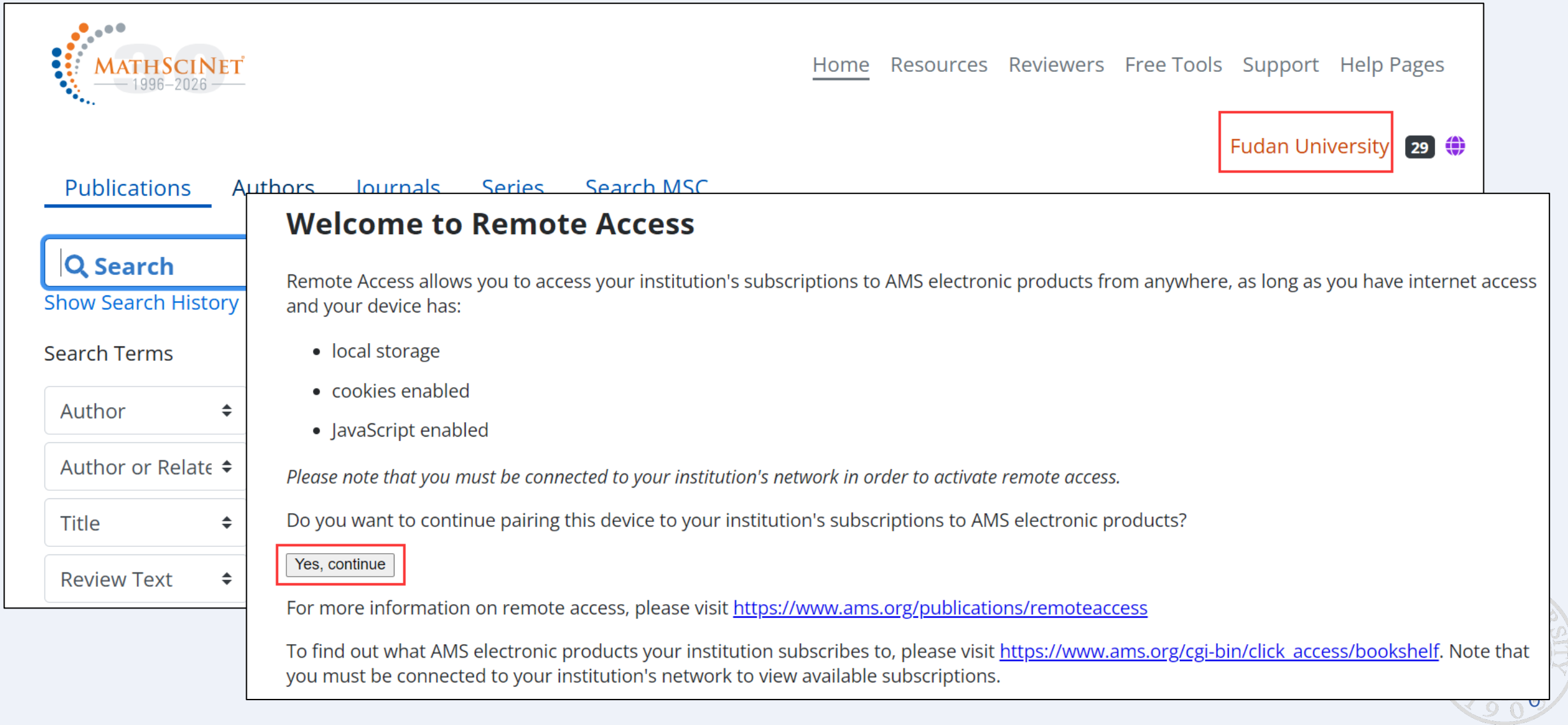
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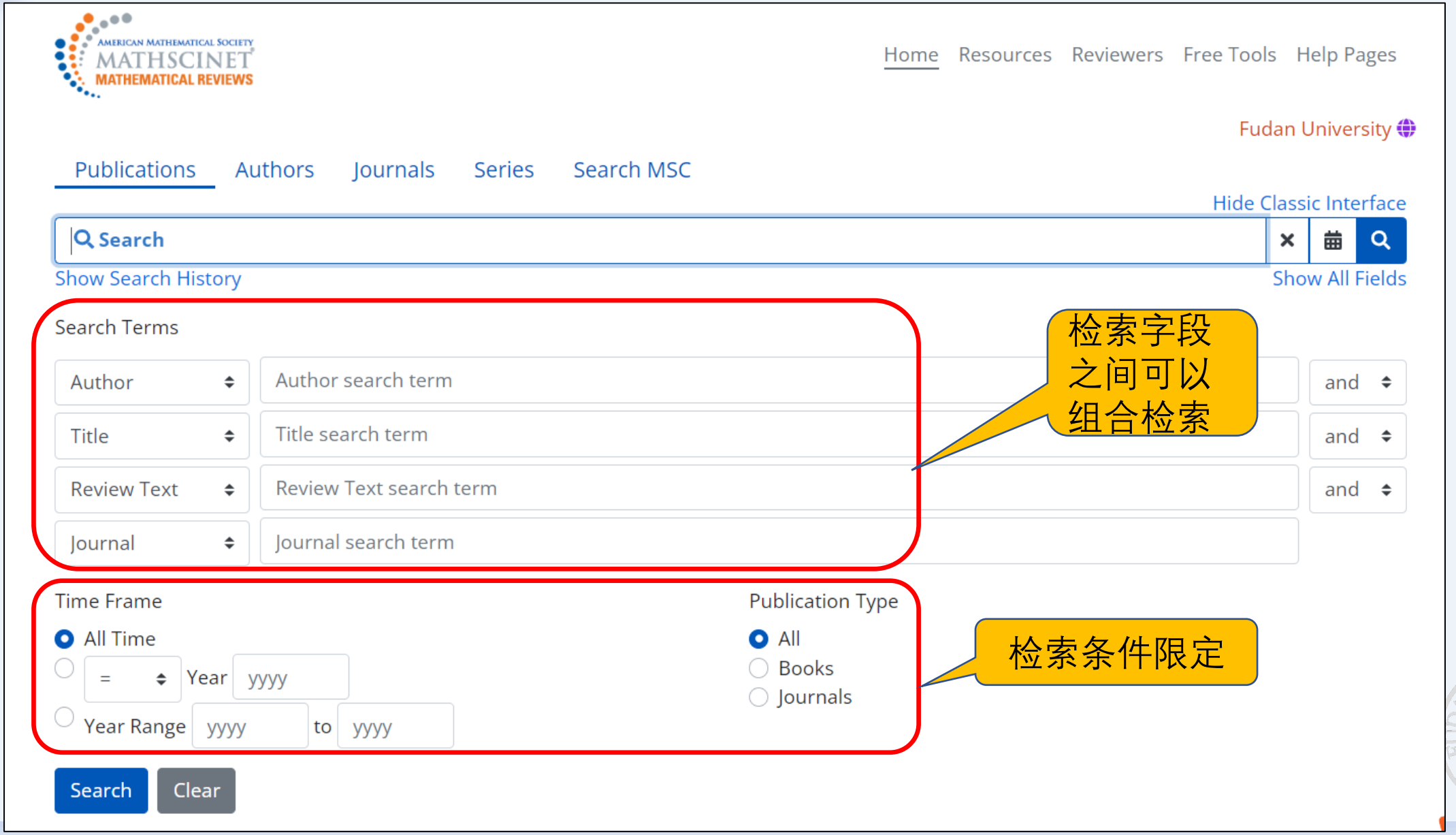
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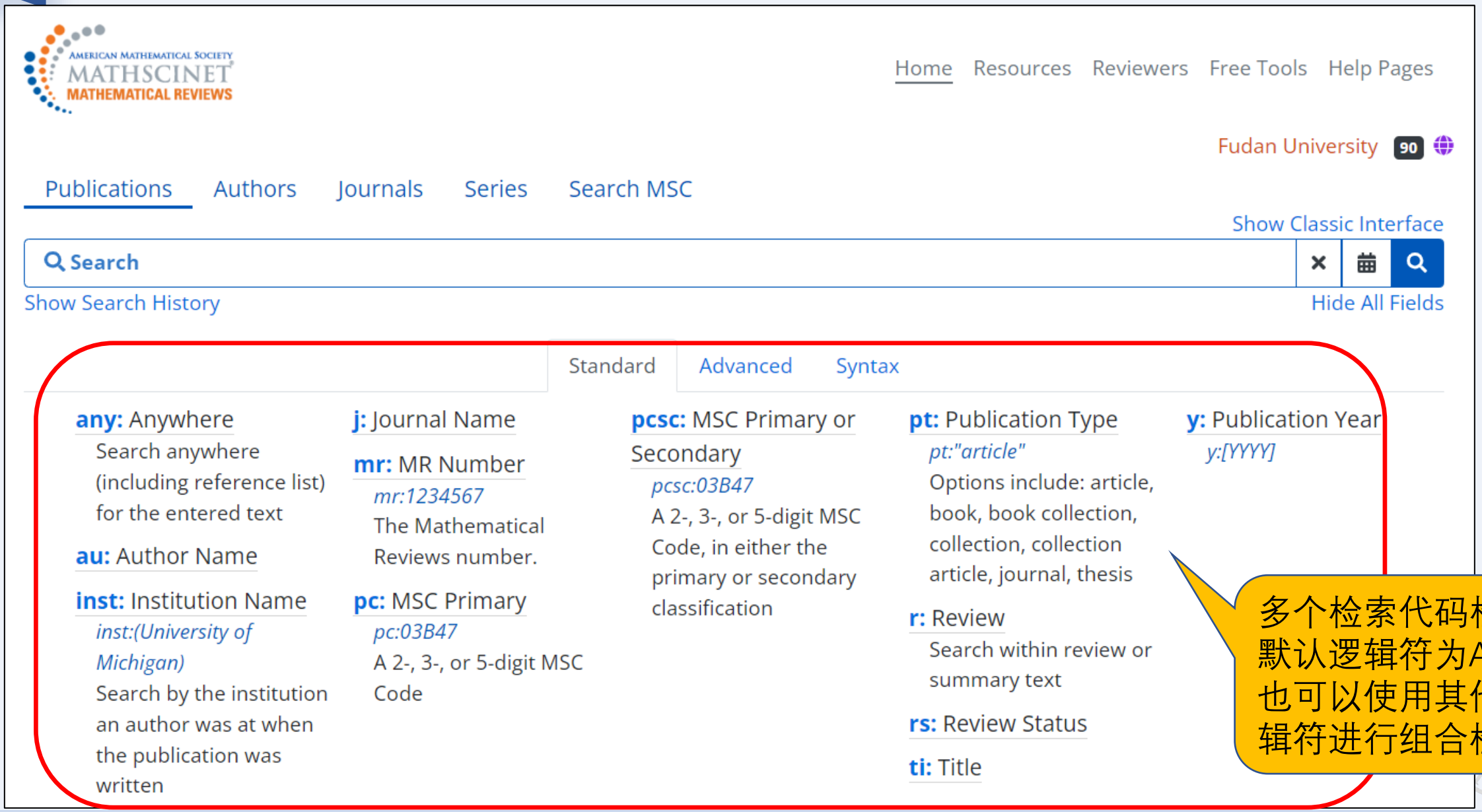
1 MathSciNet主页面



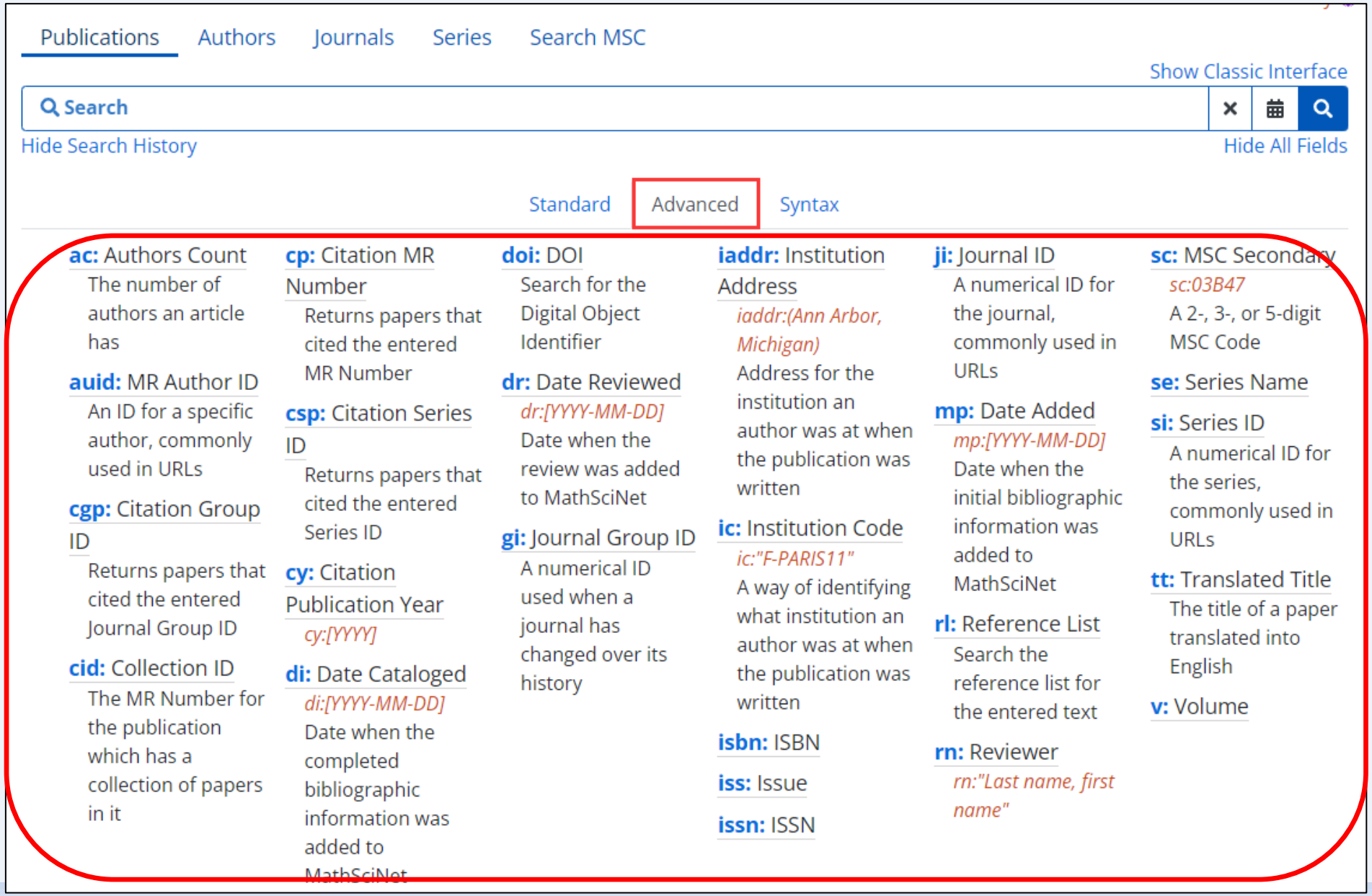
1 MathSciNet常规检索页面



1 MathSciNet现代检索页面



1 MathSciNet现代检索页面

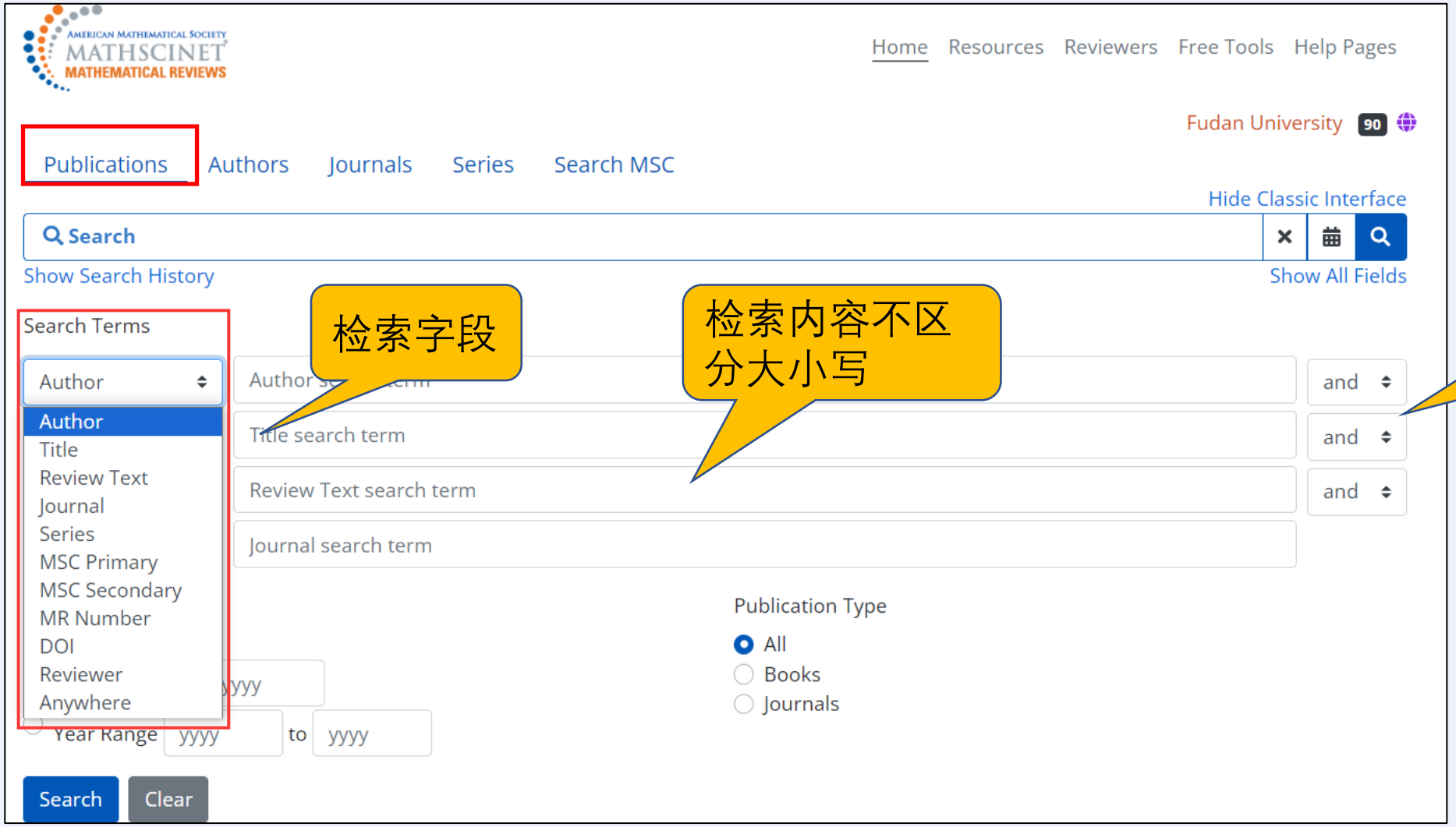


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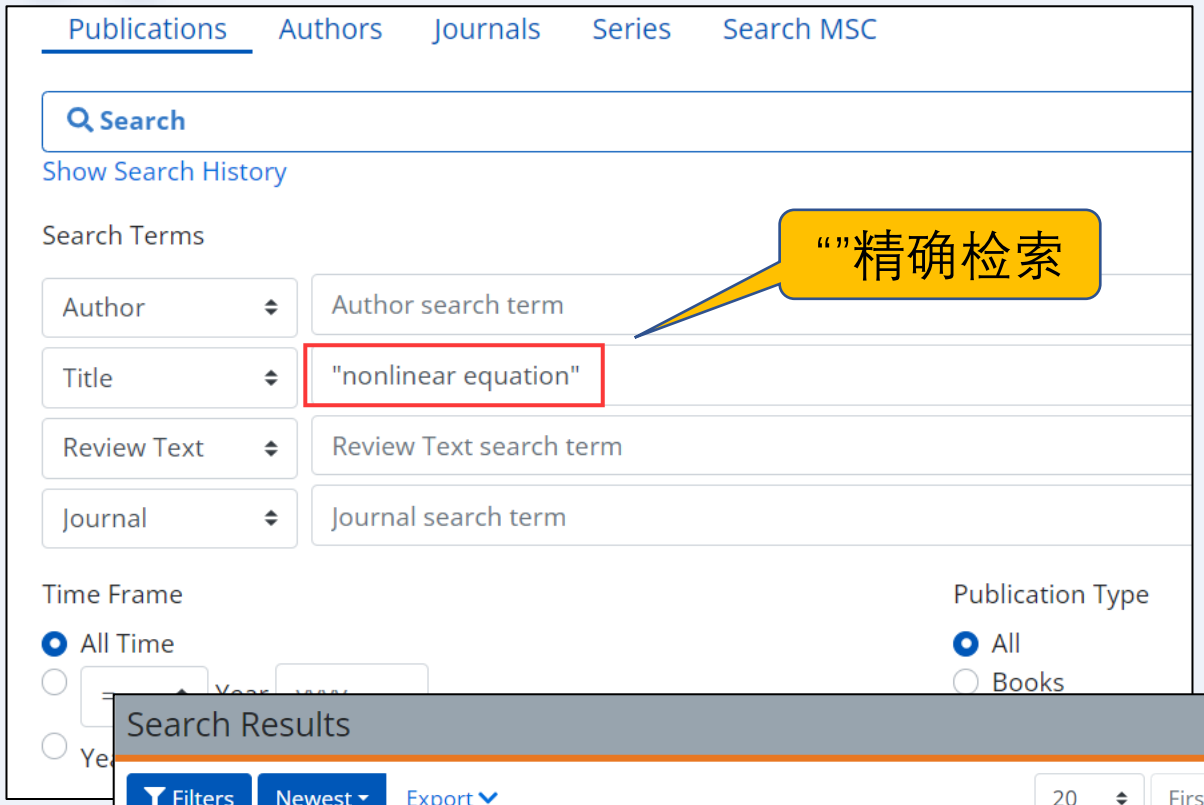
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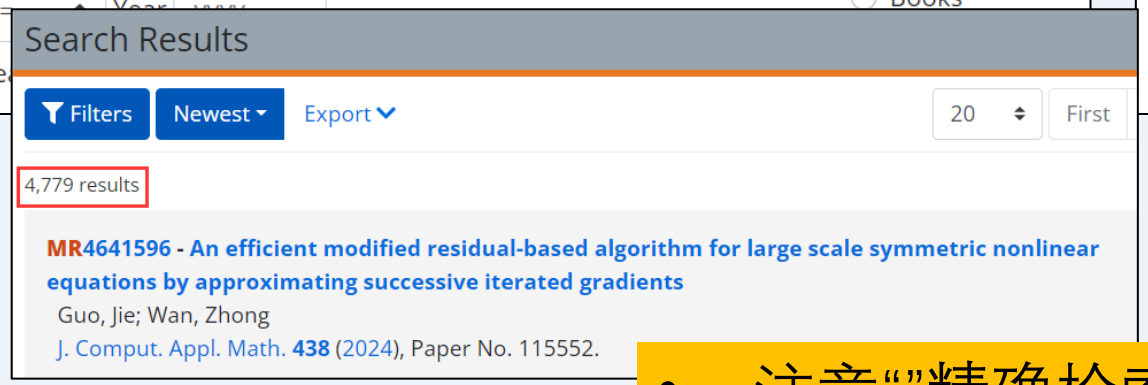
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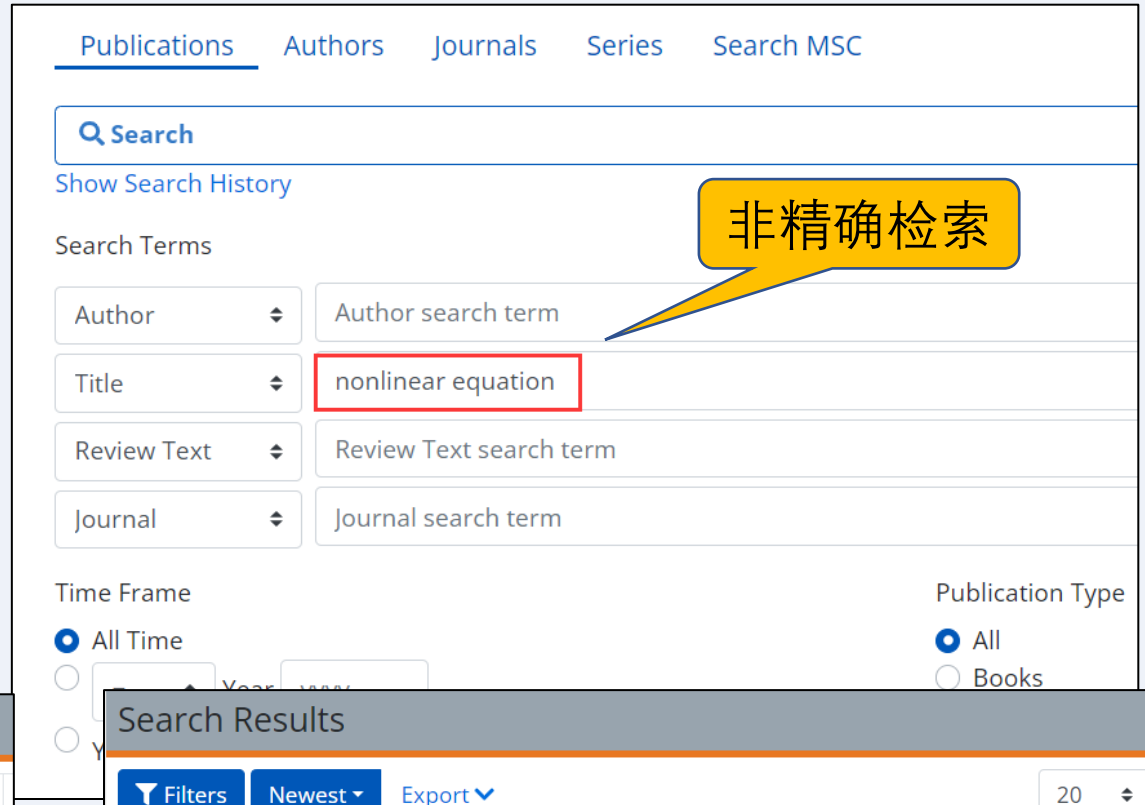
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2 出版物检索——标题字段检索



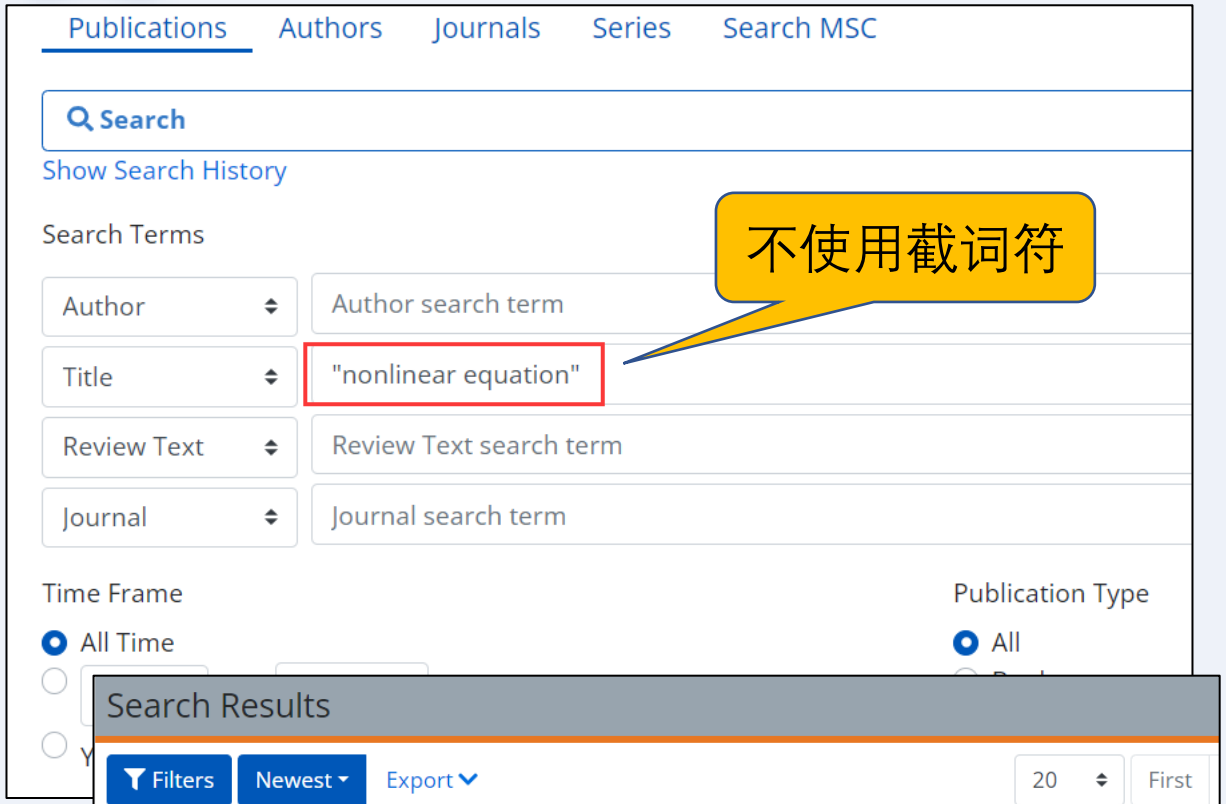


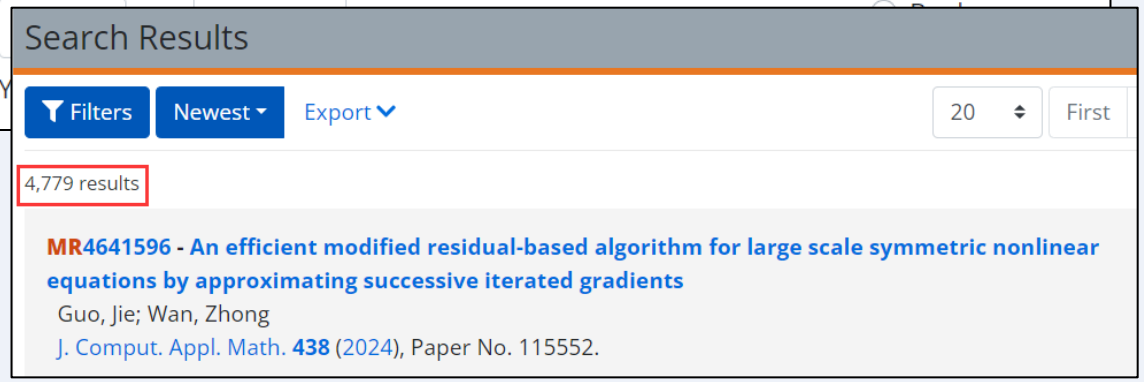


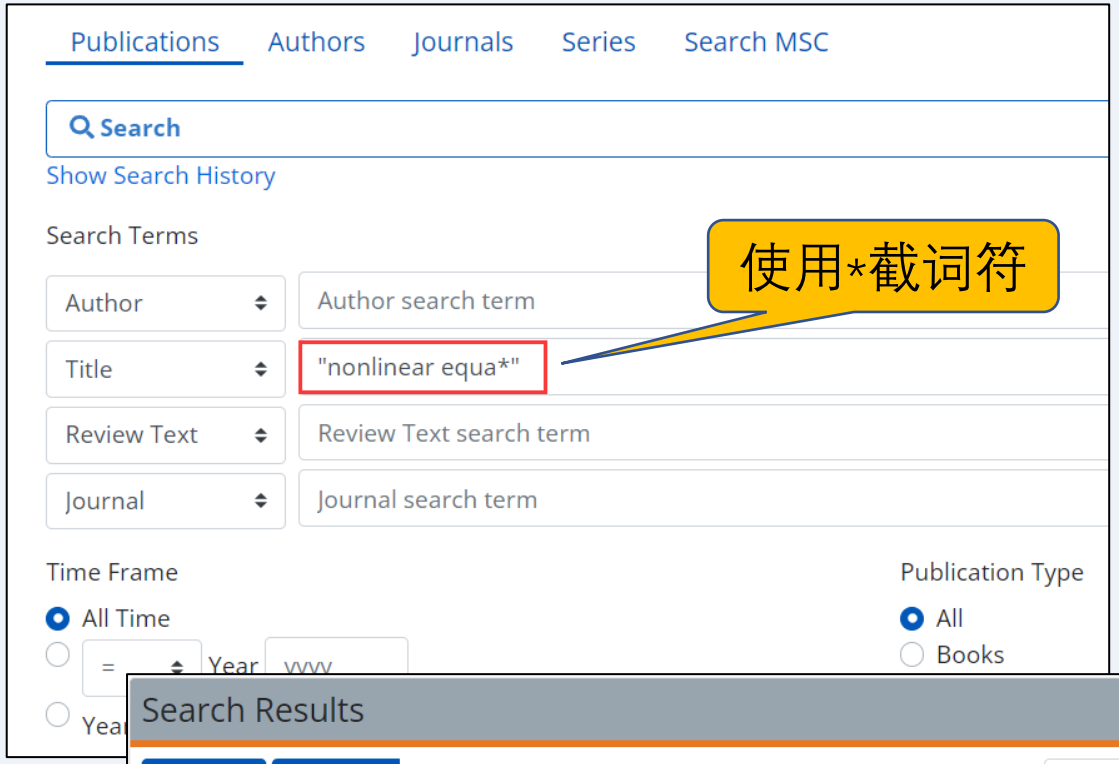


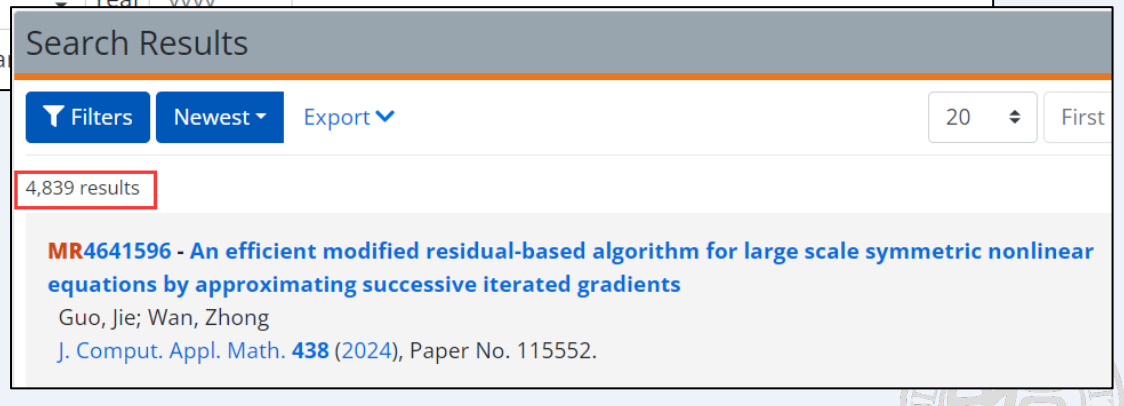
- 注意“”精确检索符的应用
- 精确检索符要用半角格式

2 出版物检索——标题字段检索



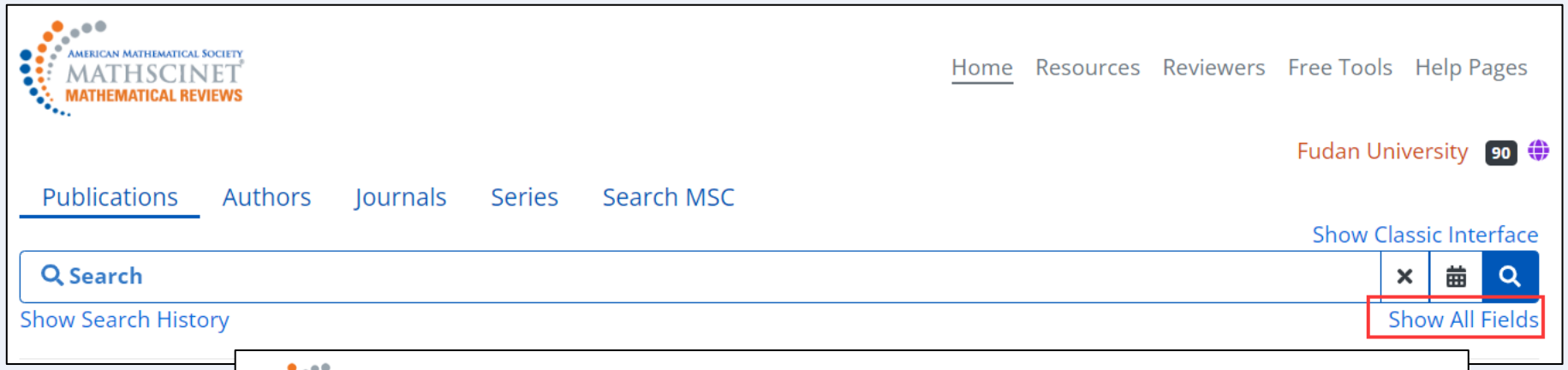




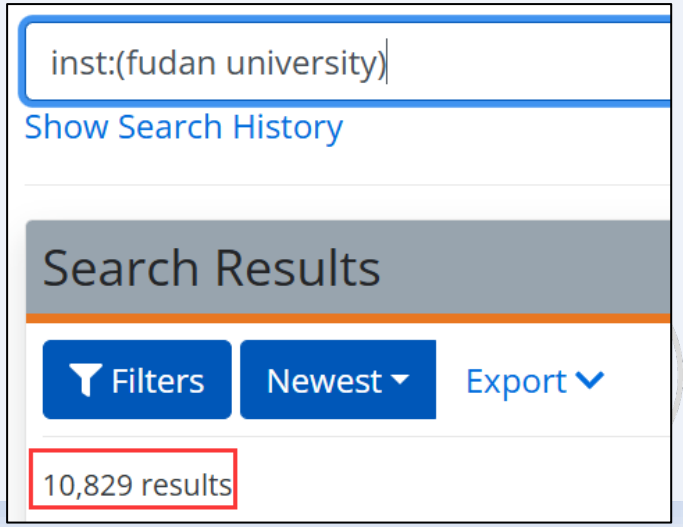


注意*截词符的应用

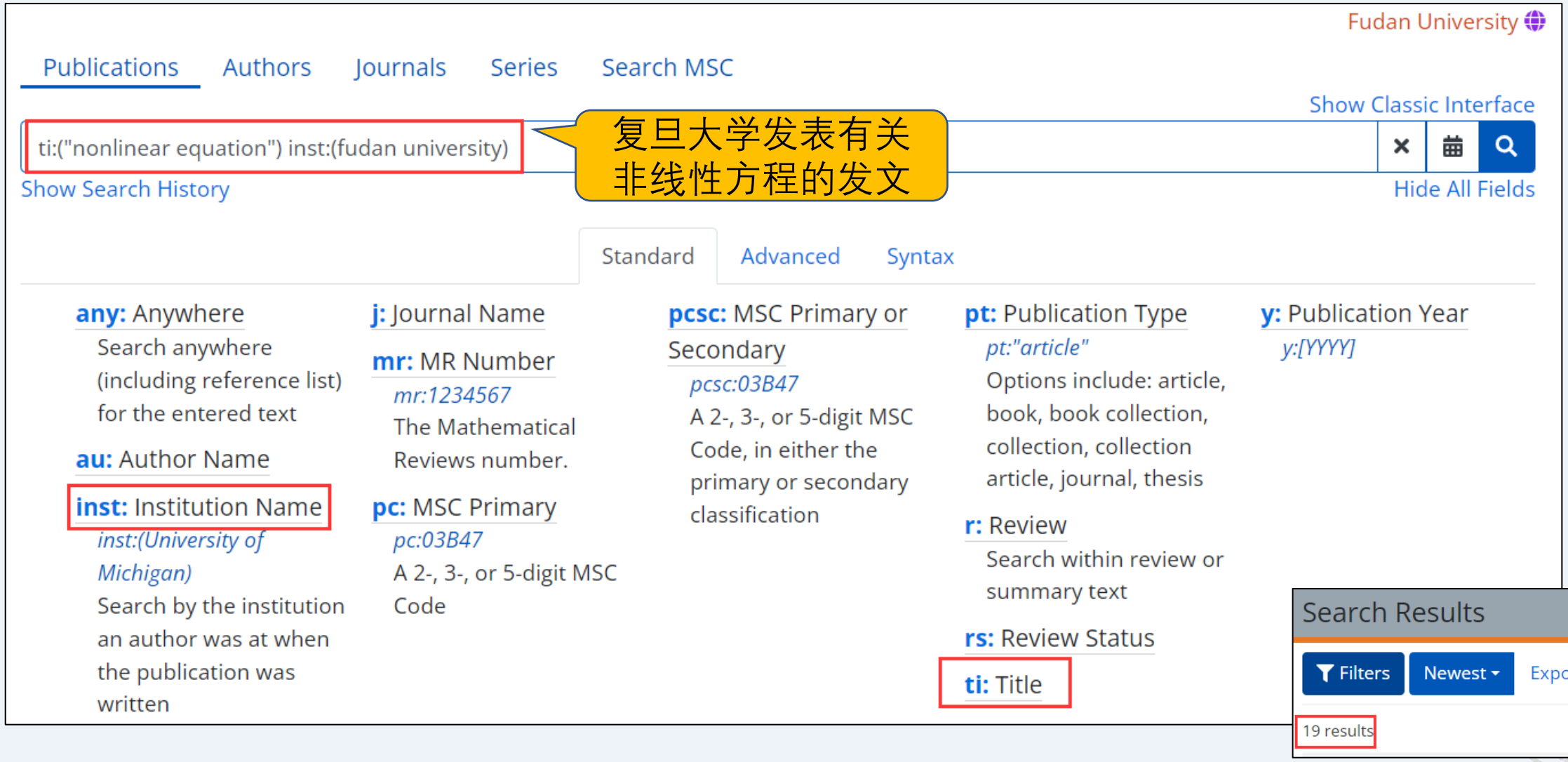
2 出版物检索——机构字段检索



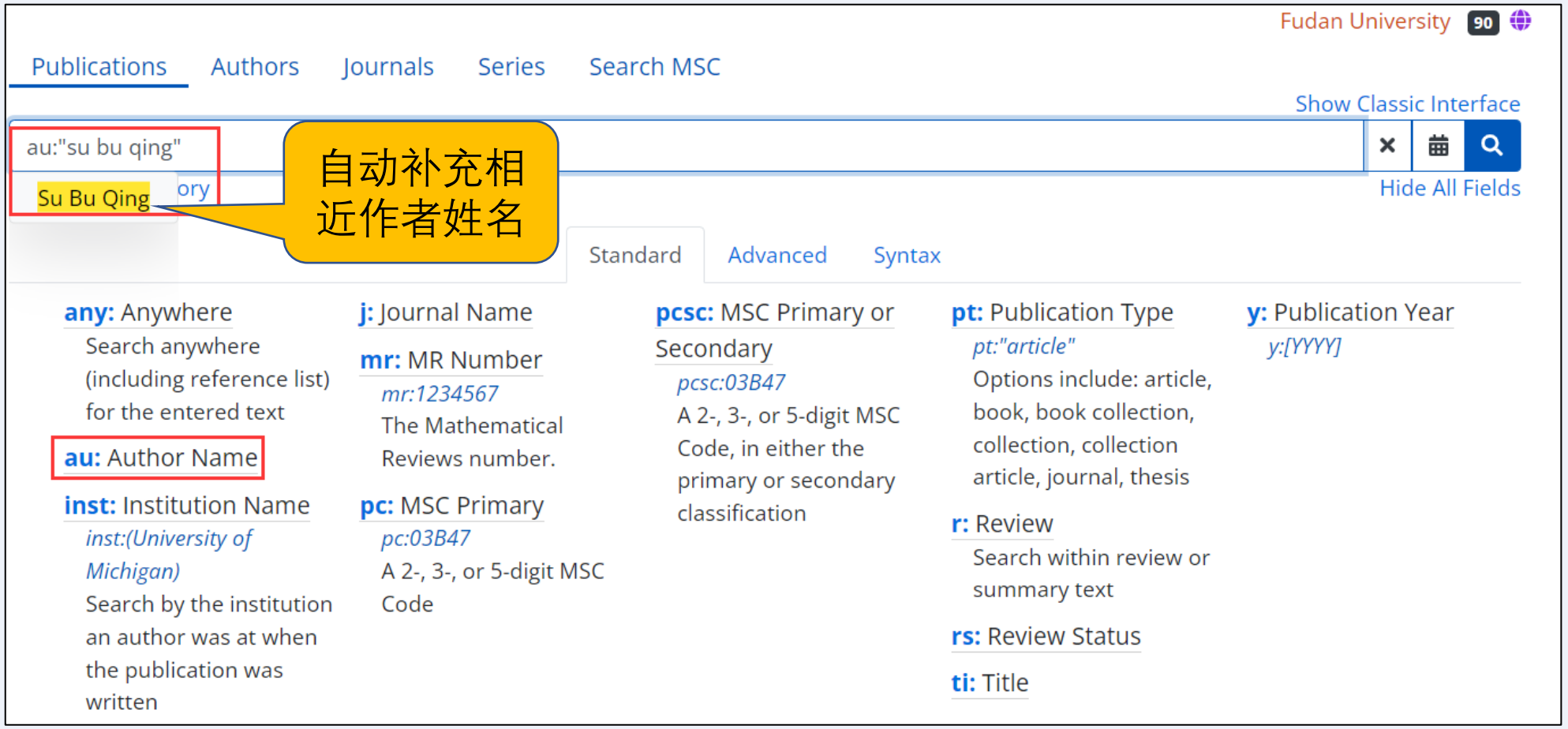




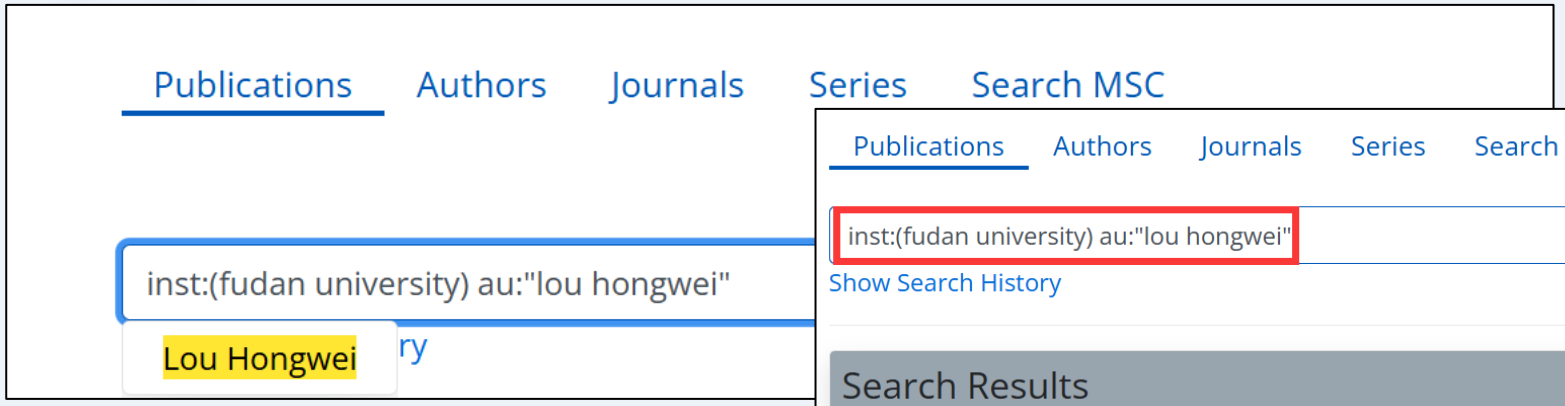
2 出版物检索——标题+机构字段检索



2 出版物检索——作者字段检索



2 出版物检索——作者+机构字段检索



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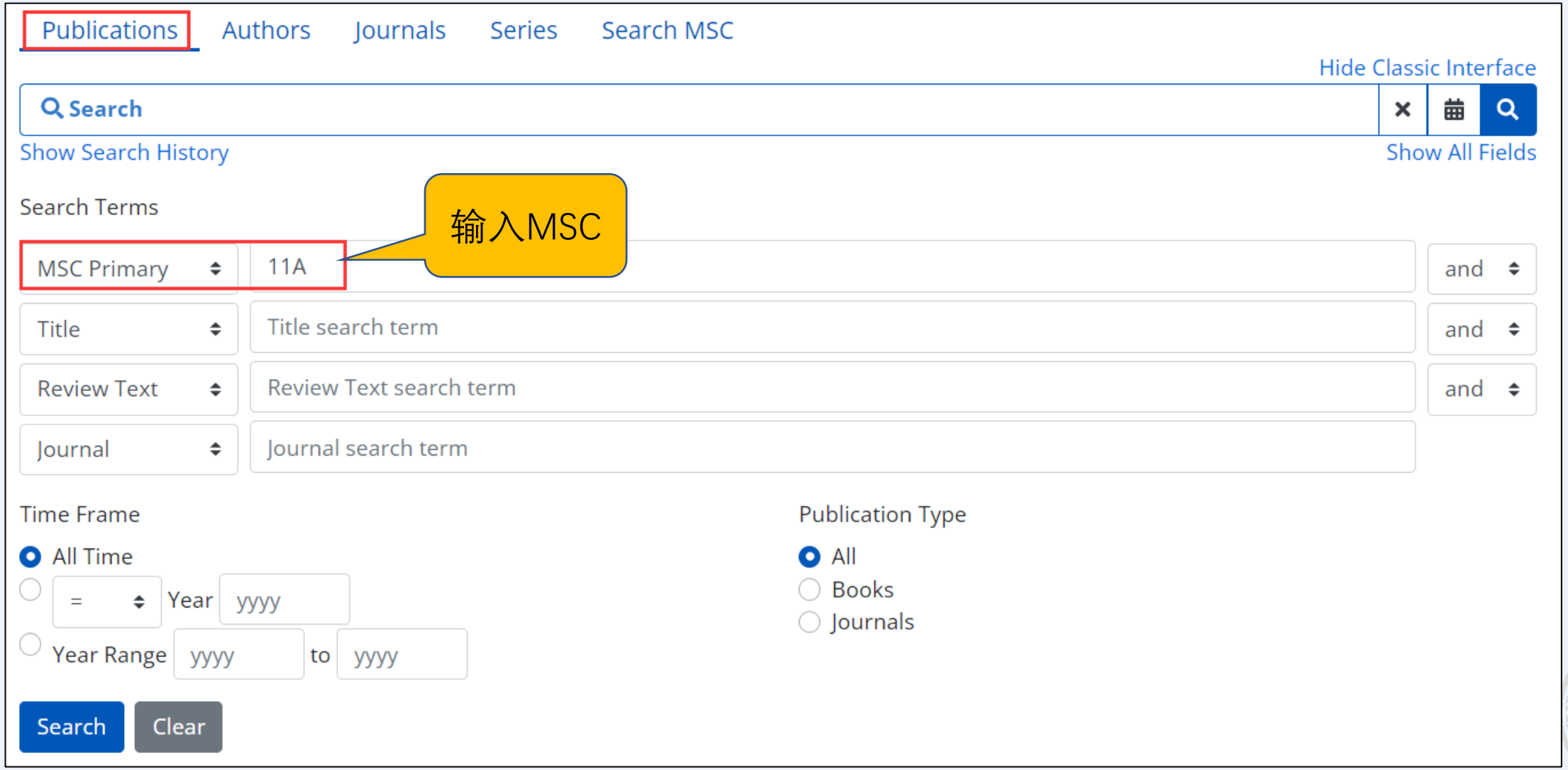
39 results

MR4817490 - Proofs for Alzer's conjecture on the generalized logarithmic mean
Lou, Hongwei
Math. Inequal. Appl. **27** (2024), no. 4, 929–948.
(Reviewer: Nwaeze, Eze Raymond)
Reviewed
MSC 26D07
Article
Open Access

MR4729327 - Optimality conditions for optimal control of non-well-posed p-Laplacian elliptic equations
Lou, Hongwei; Luan, Shu
Math. Control Relat. Fields **14** (2024), no. 2, 610–626.
(Reviewer: Martínez, Aurea)
Reviewed
MSC 49K20
Article

MR4729325 - Existence of the optimal controls for a controlled elliptic system with an L^0 term in the cost functional
Reviewed
MSC 49J20

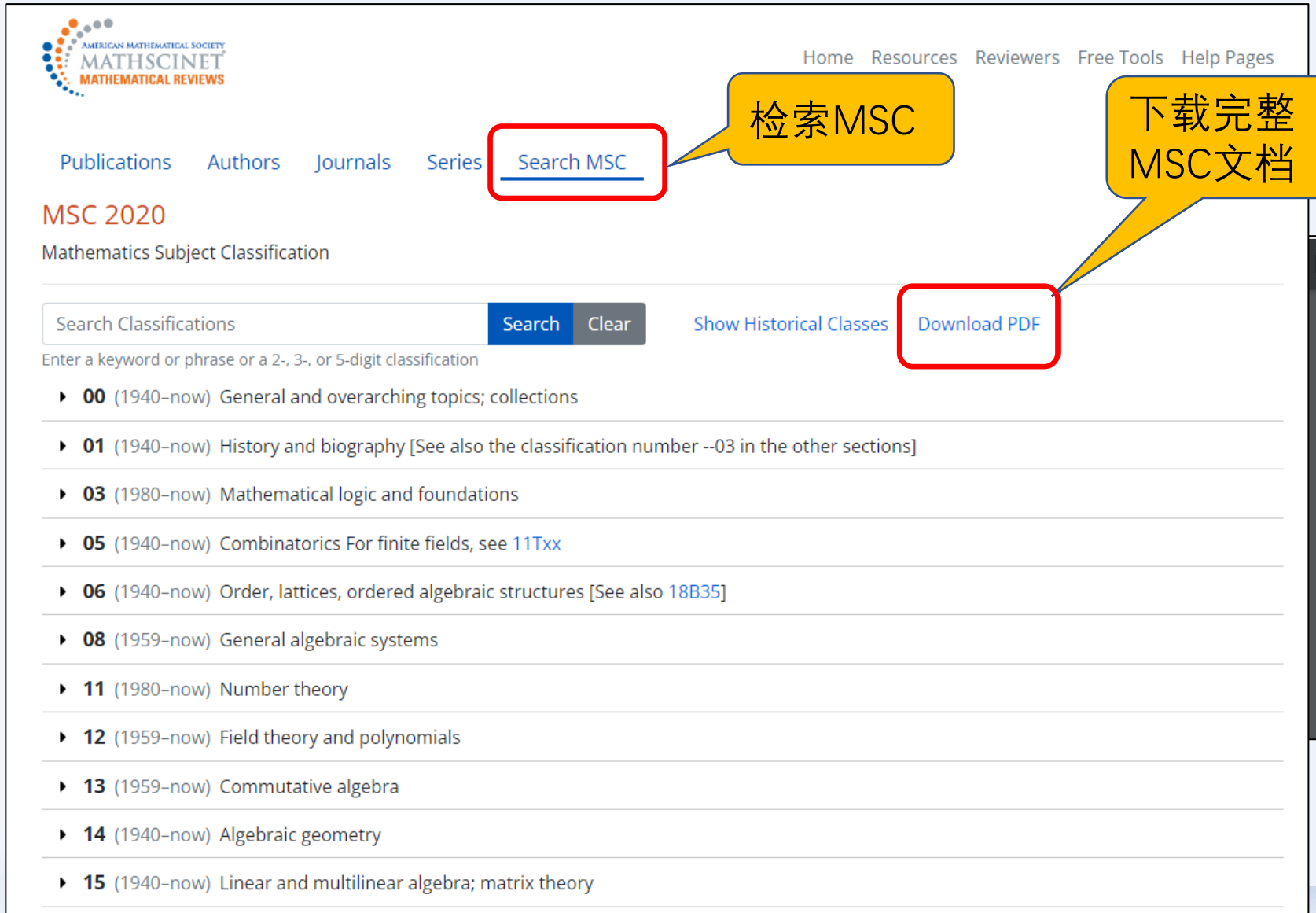
2 出版物检索——MSC字段检索

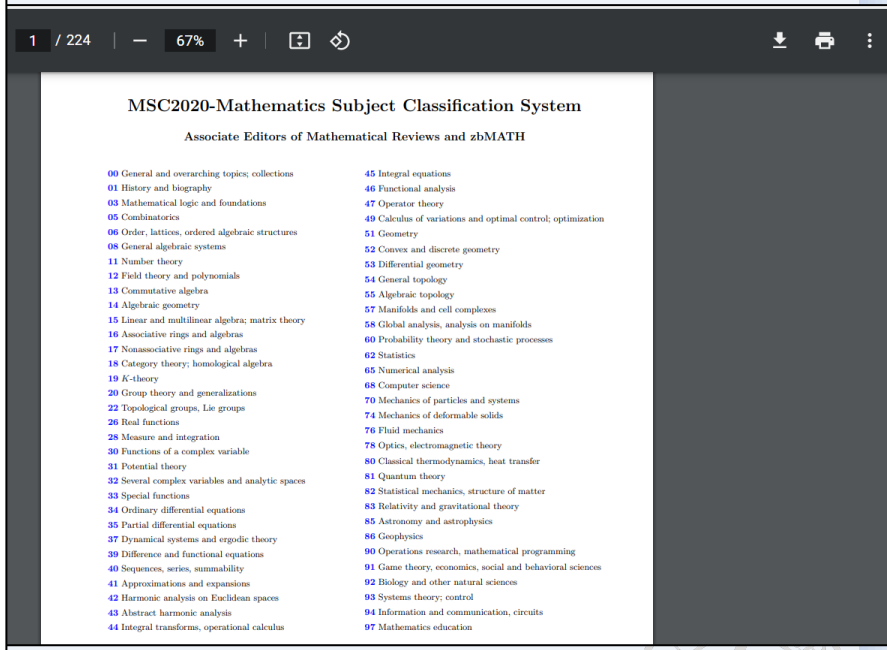


MSC
数学主题分类法

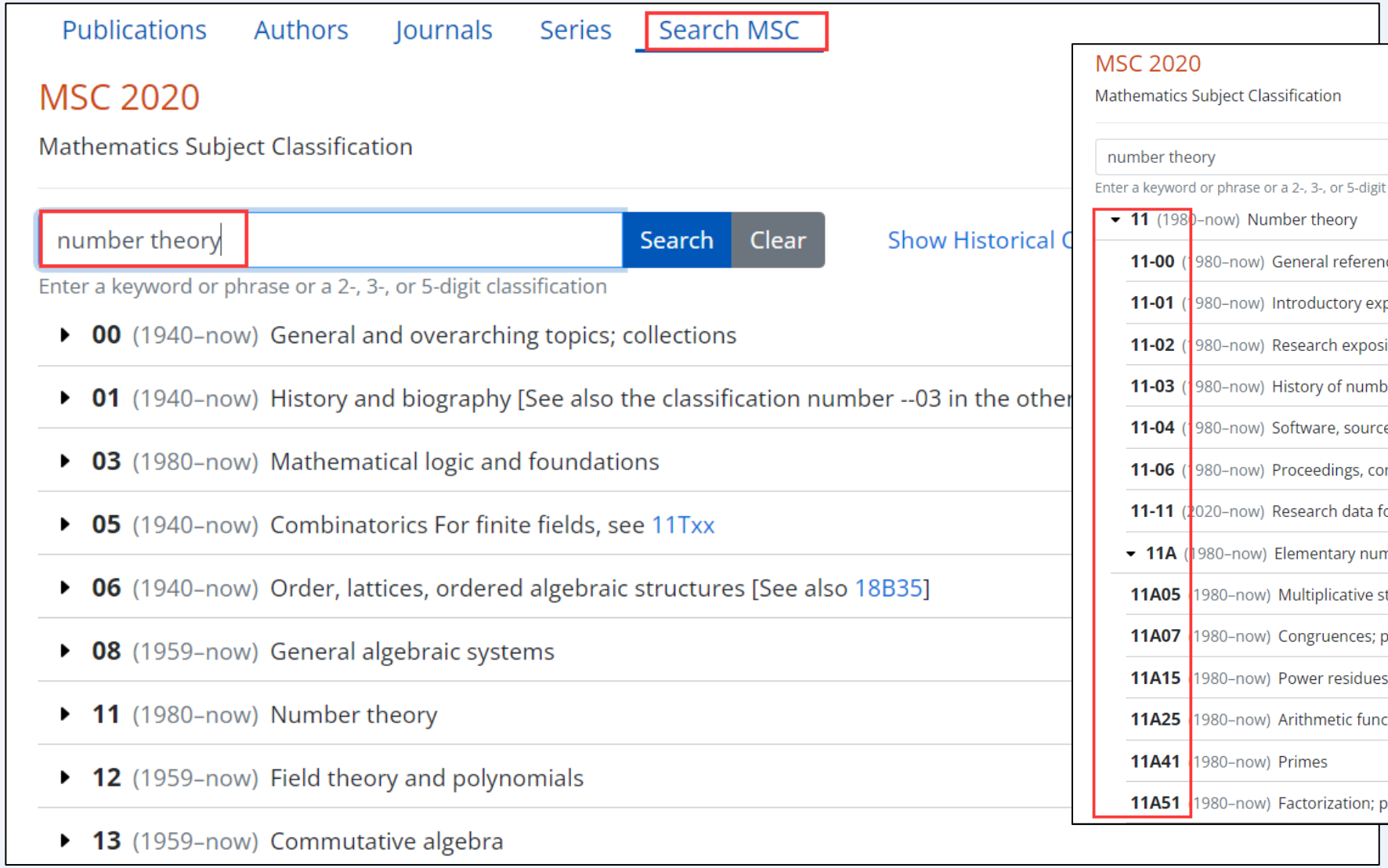

一级分类
（63个）
三级分类
二级分类
35 al equations
topics in partial differential equations
35A01 (2010-now) Existence problems for PDEs: global existence, local existence, non-existence
35A02 (2010-now) Uniqueness problems for PDEs: global uniqueness, local uniqueness, non-uniqueness
35A08 (1980-now) Fundamental solutions to PDEs
35A09 (2010-now) Classical solutions to PDEs
35A10 (1973-now) Cauchy-Kovalevskaya theorems
35A15 (1973-now) Variational methods applied to PDEs
35A16 monotonicity methods applied to PDEs
35A17 n context of PDEs
35A18 s in context of PDEs
35A20 (1973-now) Analyticity in context of PDEs
35A21 (2000-now) Singularity in context of PDEs
35A22 (1973-now) Transform methods (e.g., integral transforms) applied to PDEs
35A23 (2010-now) Inequalities applied to PDEs involving derivatives, differential and integral operators, or integrals
35A24 (2010-now) Methods of ordinary differential equations applied to PDEs
35A25 (1973-now) Other special methods applied to PDEs
35A27 (1980-now) Microlocal methods and methods of sheaf theory and homological algebra applied to PDEs [See also 32C38, 58J15]
35A30 (1973-now) Geometric theory, characteristics, transformations in context of PDEs [See also 58J70, 58J72]
35A35 (1973-now) Theoretical approximation in context of PDEs {For numerical analysis, see 65Mxx, 65Nxx}
35A99 (1973-now) None of the above, but in this section
35B (1973-now) Qualitative properties of solutions to partial differential equations
35B05 (1973-now) Oscillation, zeros of solutions, mean value theorems, etc. in context of PDEs
35B06 (2010-now) Symmetries, invariants, etc. in context of PDEs
010-now) Axially symmetric solutions to PDEs
010-now) Entire solutions to PDEs
010-now) Positive solutions to PDEs
35B10 (1973-now) Periodic solutions to PDEs
35B15 (1973-now) Almost and pseudo-almost periodic solutions to PDEs
35B20 (1973-now) Perturbations in context of PDEs
35B25 (1973-now) Singular perturbations in context of PDEs
35B27 (1991-now) Homogenization in context of PDEs; PDEs in media with periodic structure [See also 74Q05, 74Q10, 76M50, 78M40, 80M40]
35B30 (1973-now) Dependence of solutions to PDEs on initial and/or boundary data and/or on parameters of PDEs [See also 37Cxx]
35B32 (1980-now) Bifurcations in context of PDEs [See also 34C23, 34F10, 34H20, 37F46, 37Gxx, 37H20, 35J20, 37L10, 37M20, 47J15, 58E05, 58E07, 58J55, 74G60, 74H60]
35B33 (2000-now) Critical exponents in context of PDEs
35B34 (2000-now) Resonance in context of PDEs [See also 34F15, 70J40, 70K28, 70K30, 81U24]
35B35 (1973-now) Stability in context of PDEs [See also 34Dxx, 37B25, 37C20, 37C75, 37F15, 37J25, 37K45, 37L15, 49K40, 58K25, 93Dxx]

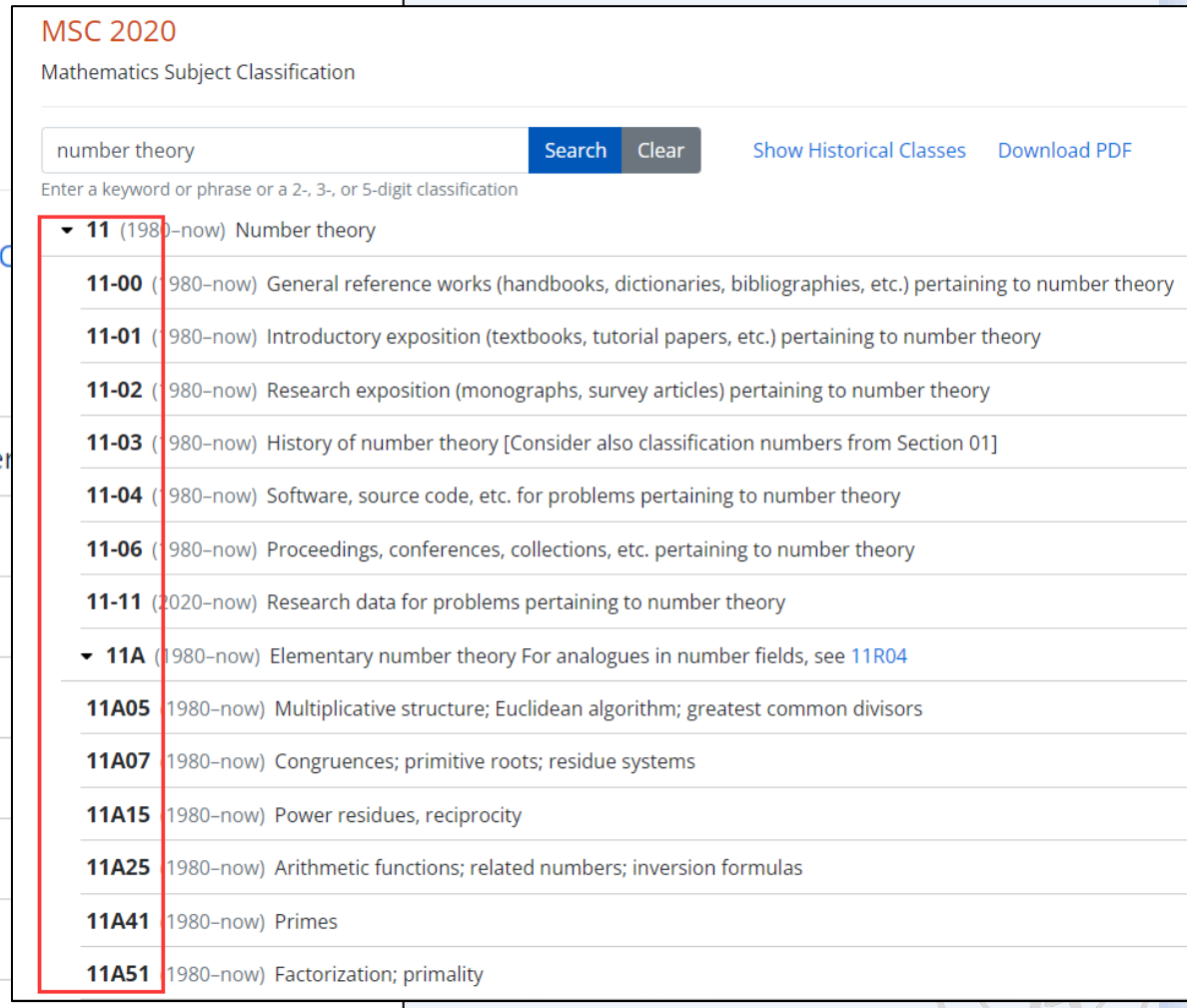
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00 (1940–now) General and overarching topics; collections
01 (1940–now) History and biography [See also the classification number --03 in the other sections]
03 (1980–now) Mathematical logic and foundations
05 (1940–now) Combinatorics For finite fields, see 11Txx
06 (1940–now) Order, lattices, ordered algebraic structures [See also 18B35]
08 (1959–now) General algebraic systems
11 (1980–now) Number theory
12 (1959–now) Field theory and polynomials
13 (1959–now) Commutative algebra
14 (1940–now) Algebraic geometry
15 (1940–now) Linear and multilinear algebra; matrix theory

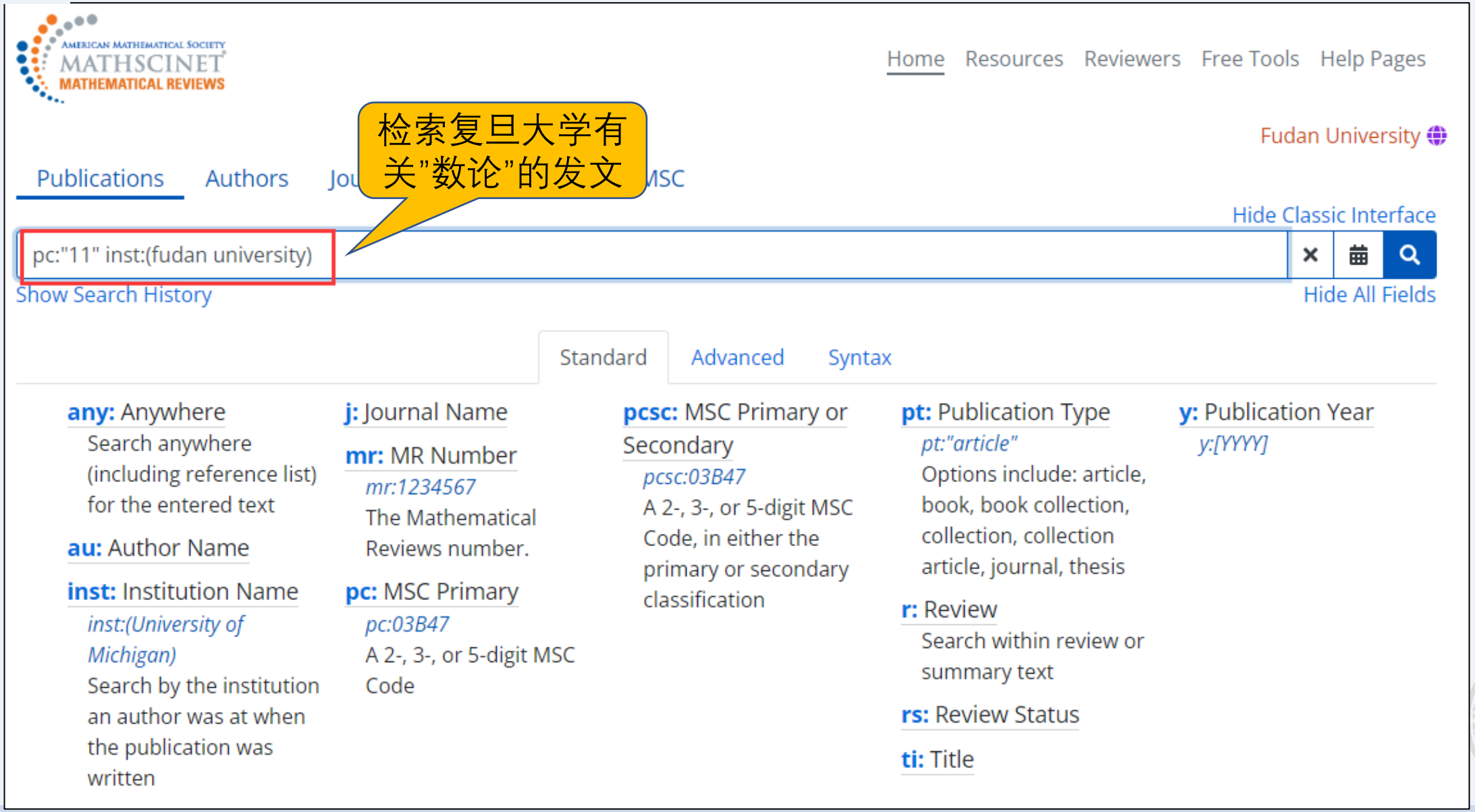

1 / 224
67%
MSC2020-Mathematics Subject Classification System
Associate Editors of Mathematical Reviews and zbMATH
00 General and overarching topics; collections
01 History and biography
03 Mathematical logic and foundations
05 Combinatorics
06 Order, lattices, ordered algebraic structures
08 General algebraic systems
11 Number theory
12 Field theory and polynomials
13 Commutative algebra
14 Algebraic geometry
15 Linear and multilinear algebra; matrix theory
16 Associative rings and algebras
17 Nonassociative rings and algebras
18 Category theory; homological algebra
19 K-theory
20 Group theory and generalizations
22 Topological groups, Lie groups
26 Real functions
28 Measure and integration
30 Functions of a complex variable
31 Potential theory
32 Several complex variables and analytic spaces
33 Special functions
34 Ordinary differential equations
35 Partial differential equations
37 Dynamical systems and ergodic theory
39 Difference and functional equations
40 Sequences, series, summability
41 Approximations and expansions
42 Harmonic analysis on Euclidean spaces
43 Abstract harmonic analysis
44 Integral transforms, operational calculus
45 Integral equations
46 Functional analysis
47 Operator theory
49 Calculus of variations and optimal control; optimization
51 Geometry
52 Convex and discrete geometry
53 Differential geometry
54 General topology
55 Algebraic topology
57 Manifolds and cell complexes
58 Global analysis, analysis on manifolds
60 Probability theory and stochastic processes
62 Statistics
65 Numerical analysis
68 Computer science
70 Mechanics of particles and systems
74 Mechanics of deformable solids
76 Fluid mechanics
78 Optics, electromagnetic theory
80 Classical thermodynamics, heat transfer
81 Quantum theory
82 Statistical mechanics, structure of matter
83 Relativity and gravitational theory
85 Astronomy and astrophysics
86 Geophysics
90 Operations research, mathematical programming
91 Game theory, economics, social and behavioral sciences
92 Biology and other natural sciences
93 Systems theory; control
94 Information and communication, circuits
97 Mathematics education

MSC检索

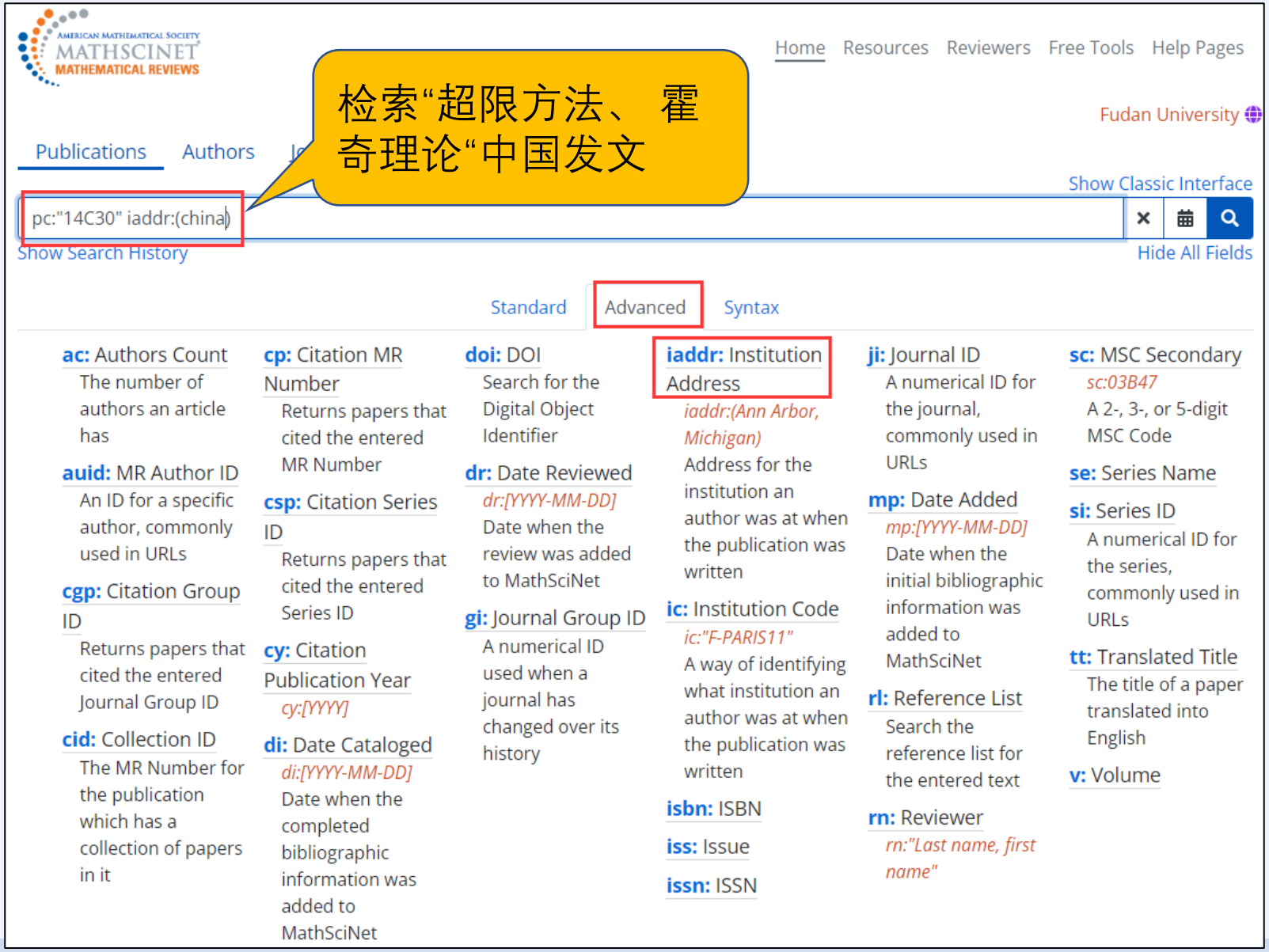

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05 (1940–now) Combinatorics For finite fields, see 11Txx
06 (1940–now) Order, lattices, ordered algebraic structures [See also 18B35]
08 (1959–now) General algebraic systems
11 (1980–now) Number theory
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11 (1980–now) Number theory
11-00 (1980–now) General reference works (handbooks, dictionaries, bibliographies, etc.) pertaining to number theory
11-01 (1980–now) Introductory exposition (textbooks, tutorial papers, etc.) pertaining to number theory
11-02 (1980–now) Research exposition (monographs, survey articles) pertaining to number theory
11-03 (1980–now) History of number theory [Consider also classification numbers from Section 01]
11-04 (1980–now) Software, source code, etc. for problems pertaining to number theory
11-06 (1980–now) Proceedings, conferences, collections, etc. pertaining to number theory
11-11 (2020–now) Research data for problems pertaining to number theory
11A (1980–now) Elementary number theory For analogues in number fields, see 11R04
11A05 (1980–now) Multiplicative structure; Euclidean algorithm; greatest common divisors
11A07 (1980–now) Congruences; primitive roots; residue systems
11A15 (1980–now) Power residues, reciprocity
11A25 (1980–now) Arithmetic functions; related numbers; inversion formulas
11A41 (1980–now) Primes
11A51 (1980–now) Factorization; primality

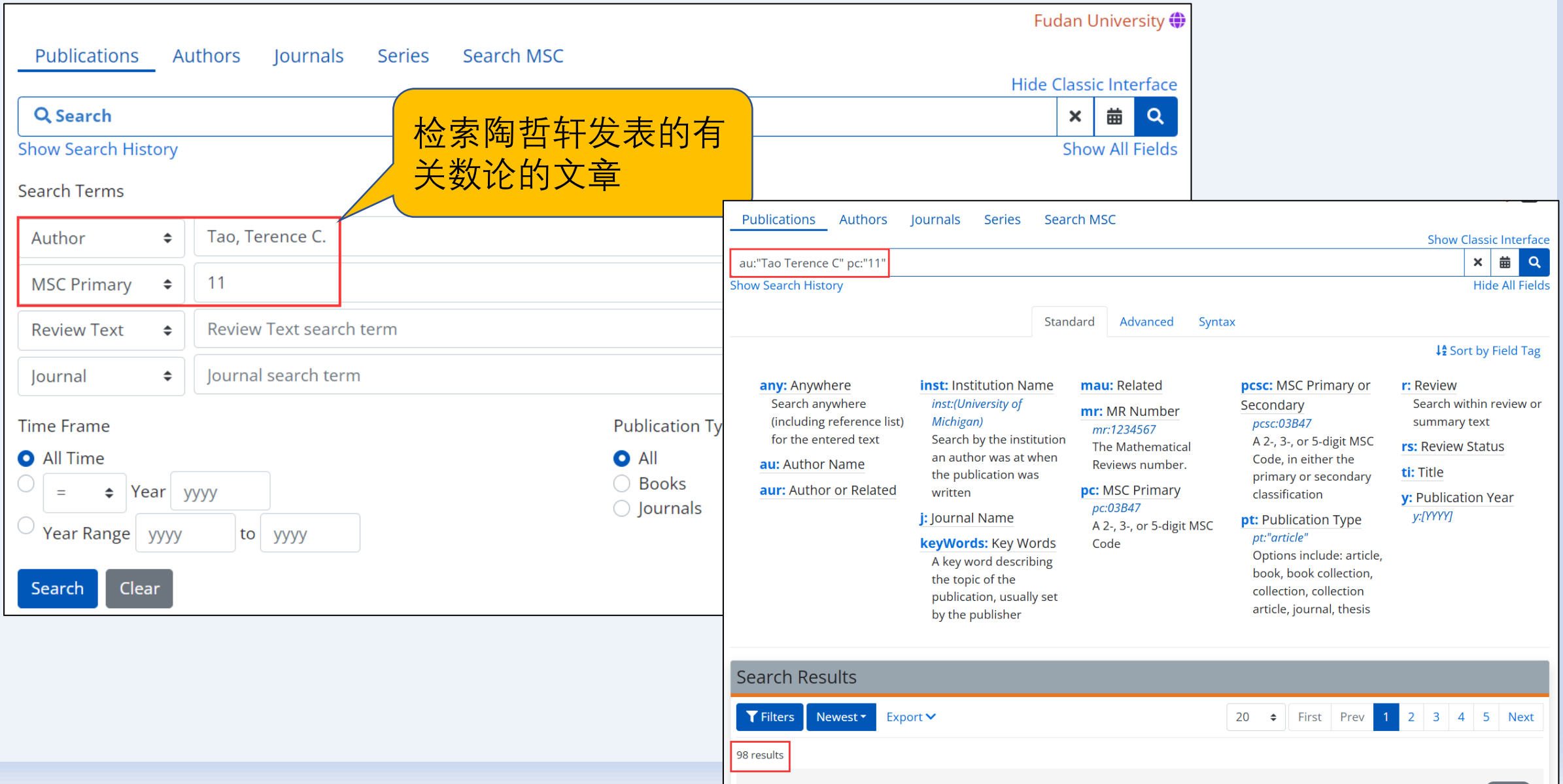
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si: Series ID
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tt: Translated Title
The title of a paper translated into English
v: Volume

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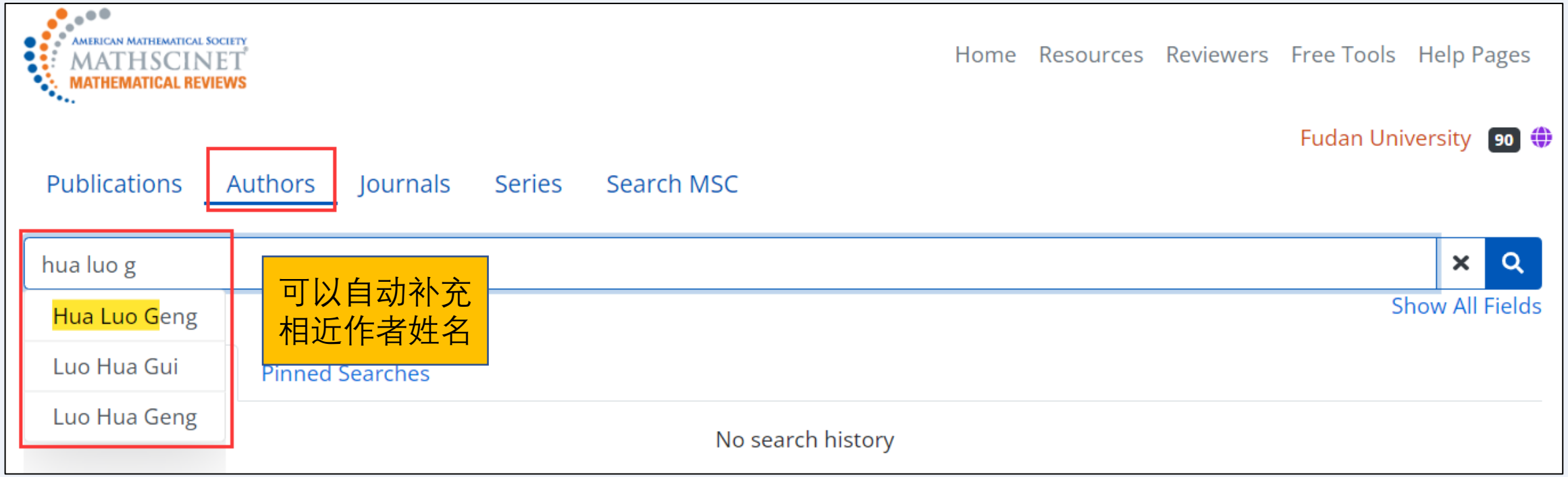

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Tao, Terence C.
MSC Primary
11
Review Text
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Time Frame
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to
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Publication Ty
All
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Search
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Publications
Authors
Journals
Series
Search MSC
Show Classic Interface
au:"Tao Terence C" pc:"11"
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Hide All Fields
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Sort by Field Tag
any: Anywhere
Search anywhere (including reference list) for the entered text
au: Author Name
aur: Author or Related
inst: Institution Name
inst:(University of Michigan)
Search by the institution an author was at when the publication was written
j: Journal Name
keyWords: Key Words
A key word describing the topic of the publication, usually set by the publisher
mau: Related
mr: MR Number
mr:1234567
The Mathematical Reviews number.
pc: MSC Primary
pc:03B47
A 2-, 3-, or 5-digit MSC Code
pcsc: MSC Primary or Secondary
pcsc:03B47
A 2-, 3-, or 5-digit MSC Code, in either the primary or secondary classification
pt: Publication Type
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98 results

3 作者检索

Authors

3 作者检索

作者检索用于检索某一特定作者的资料，包括该作者已发表的成果/评论，合作者信息、合作距离、作者师承关系等。



3 作者检索



Fudan University 90

Hua, Luo Geng

AMS

Login to edit

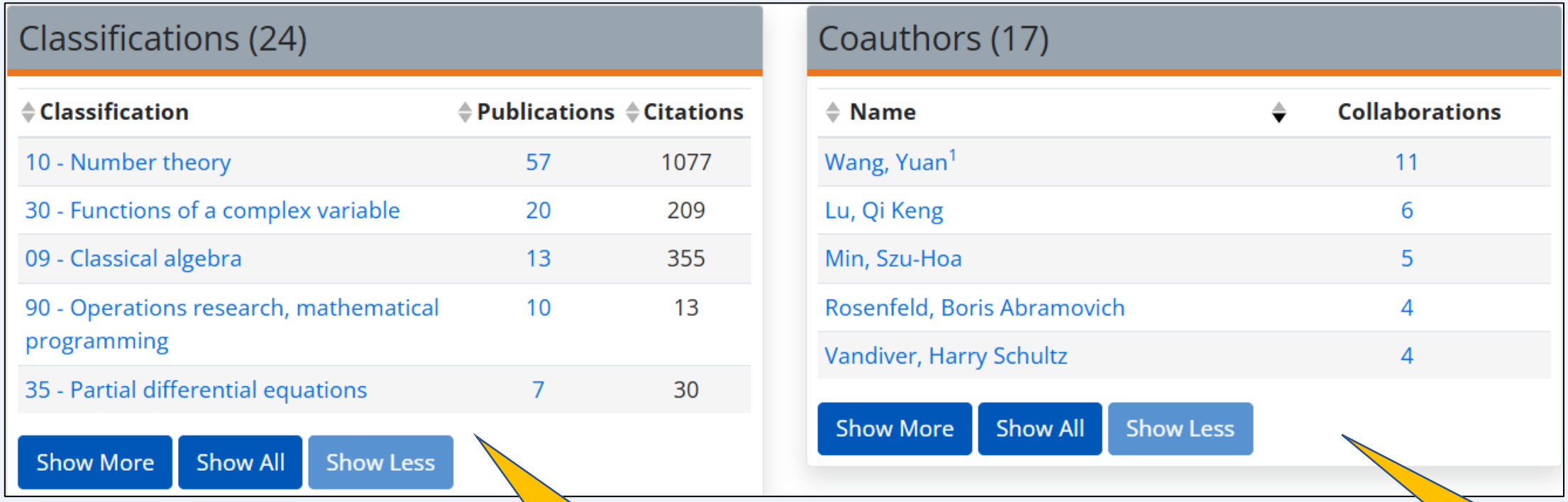
MR Author ID	213801
Earliest Indexed Publication	1935
Total Publications	166
Total Related Publications	42
Total Reviews	41
Total Citations	2,361 in 1,931 publications
Unique Citing Authors	1,993

Collaboration Distance

MacTutor History of Mathematics Archive

作者基本信息：成果数量、评论数量、引用信息、合作者距离、师承关系

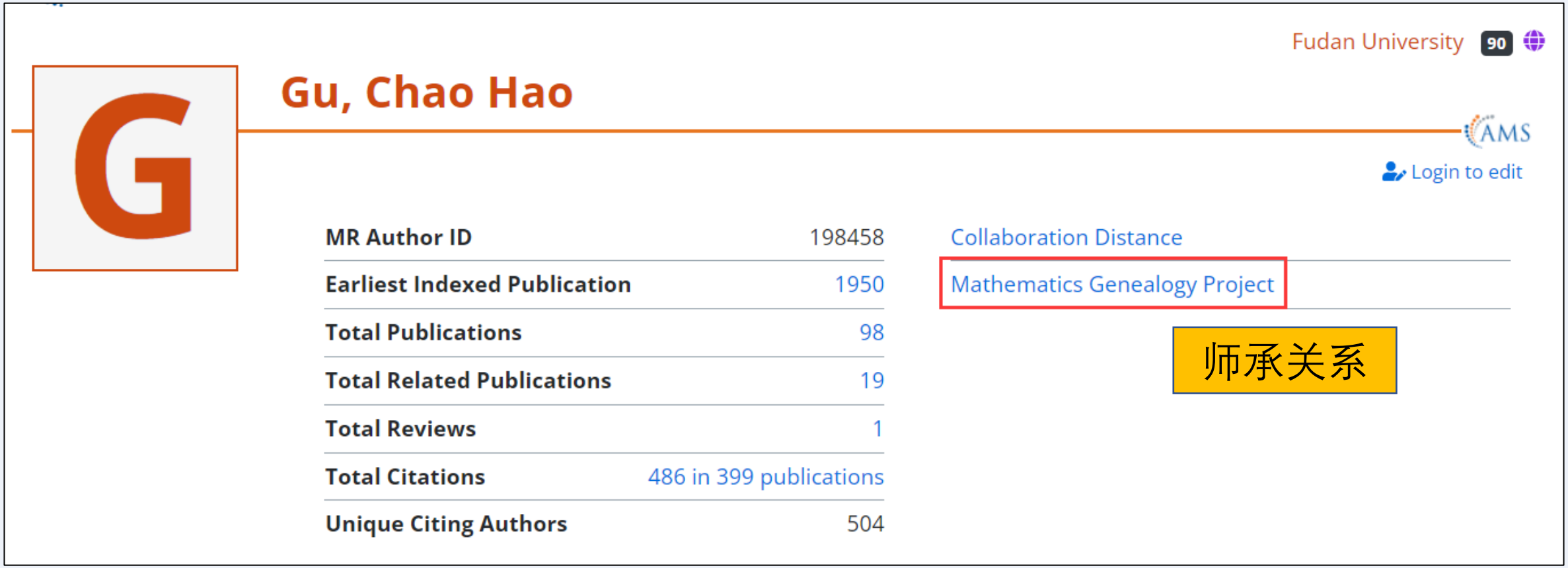
3 作者检索



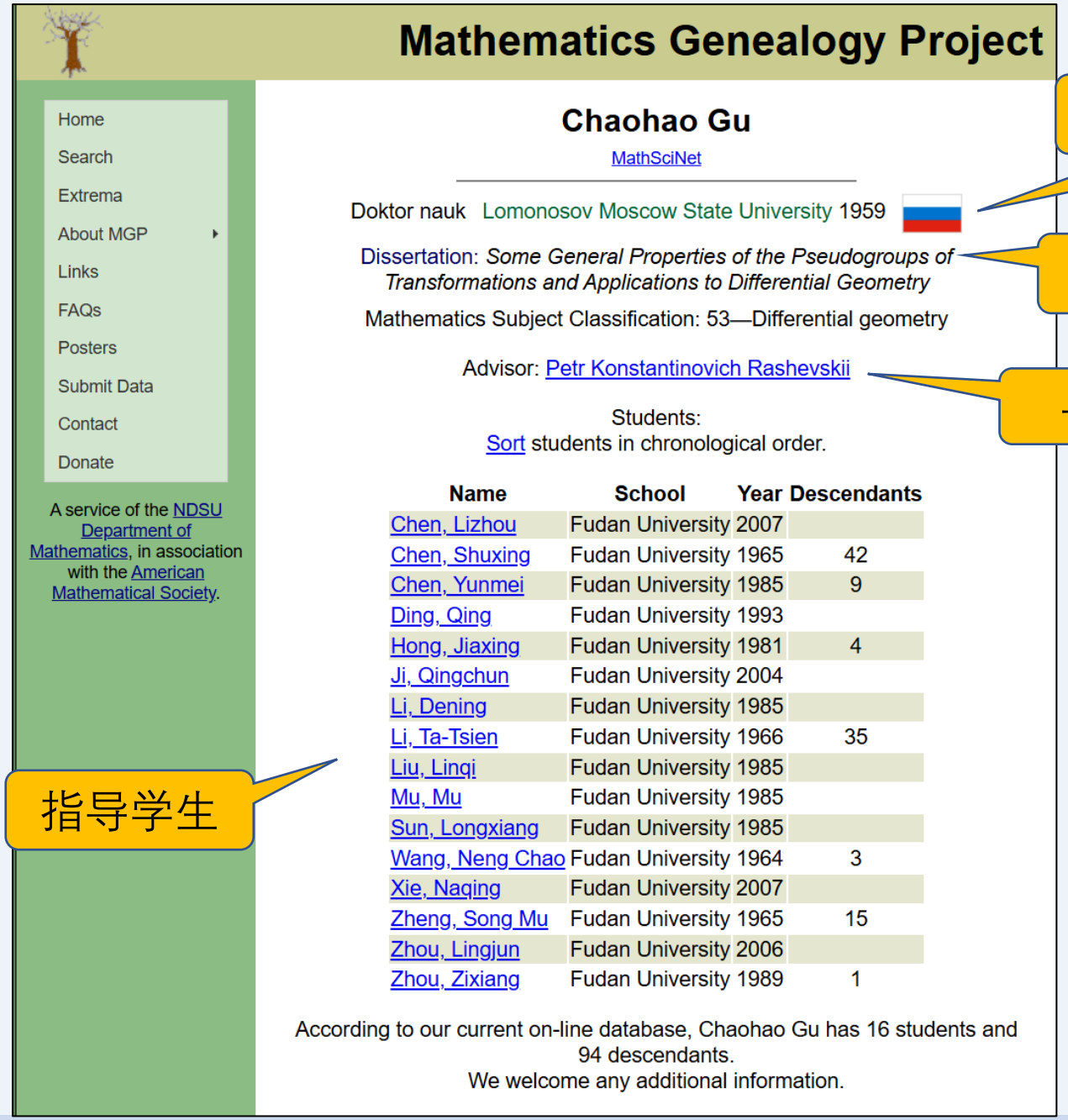
已发表成果的MSC分类信息

合作者信息

3 作者检索


Fudan University 90
Gu, Chao Hao
AMS
Login to edit
MR Author ID 198458
Earliest Indexed Publication 1950
Total Publications 98
Total Related Publications 19
Total Reviews 1
Total Citations 486 in 399 publications
Unique Citing Authors 504
Collaboration Distance
Mathematics Genealogy Project
师承关系

3 作者检索



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A service of the NDSU Department of Mathematics, in association with the American Mathematical Society.

Chaohao Gu

MathSciNet

Doktor nauk Lomonosov Moscow State University 1959

Dissertation: *Some General Properties of the Pseudogroups of Transformations and Applications to Differential Geometry*

Mathematics Subject Classification: 53—Differential geometry

Advisor: Petr Konstantinovich Rashevskii

Students:
Sort students in chronological order.

Name	School	Year	Descendants
Chen, Lizhou	Fudan University	2007	
Chen, Shuxing	Fudan University	1965	42
Chen, Yunmei	Fudan University	1985	9
Ding, Qing	Fudan University	1993	
Hong, Jiaxing	Fudan University	1981	4
Ji, Qingchun	Fudan University	2004	
Li, Dening	Fudan University	1985	
Li, Ta-Tsien	Fudan University	1966	35
Liu, Linqi	Fudan University	1985	
Mu, Mu	Fudan University	1985	
Sun, Longxiang	Fudan University	1985	
Wang, Neng Chao	Fudan University	1964	3
Xie, Naqing	Fudan University	2007	
Zheng, Song Mu	Fudan University	1965	15
Zhou, Lingjun	Fudan University	2006	
Zhou, Zixiang	Fudan University	1989	1

According to our current on-line database, Chaohao Gu has 16 students and 94 descendants.
We welcome any additional information.

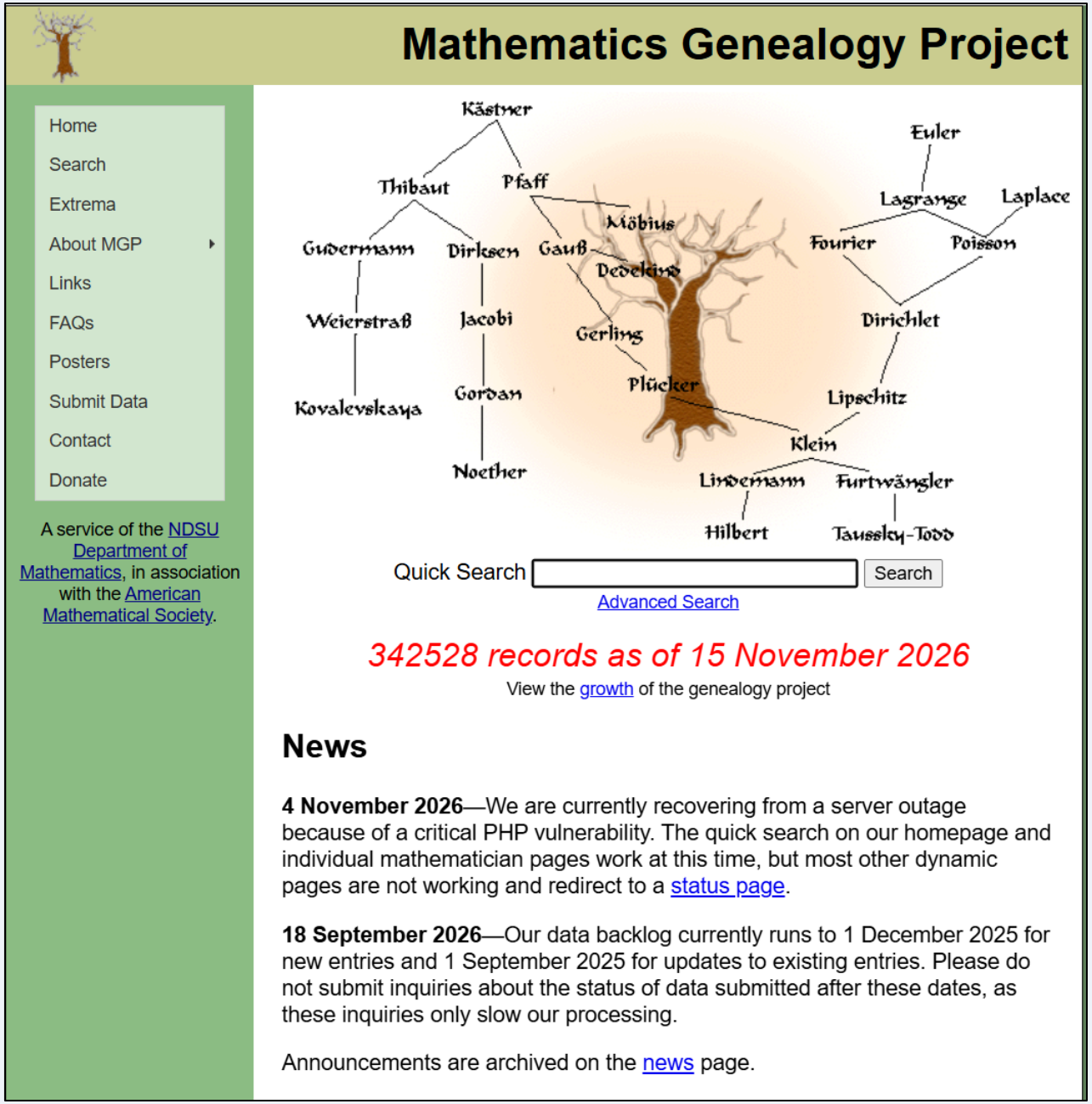
毕业院校和毕业年份

毕业论文

导师

指导学生

3 作者检索



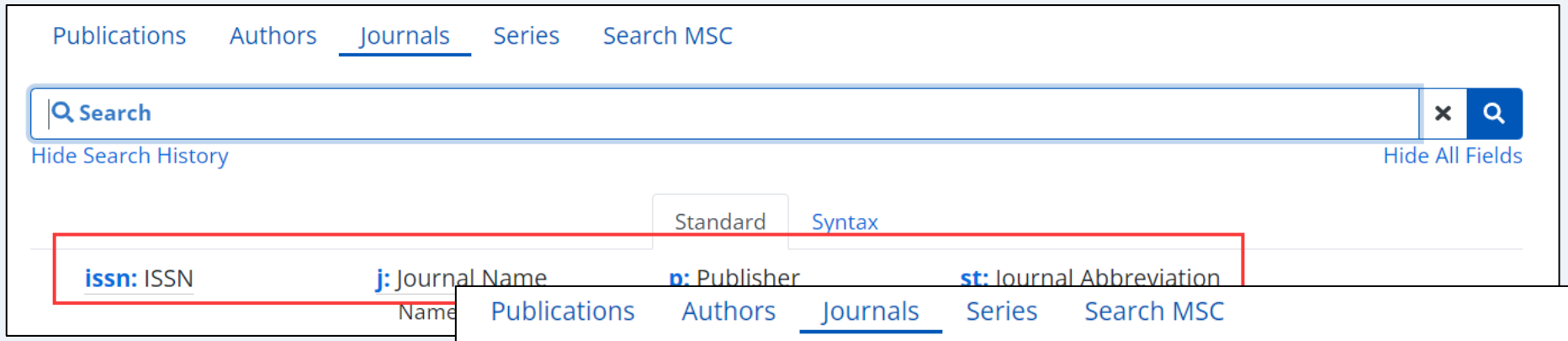
北达科他州立大学（NDSU）与AMS合作的数学家谱项目。

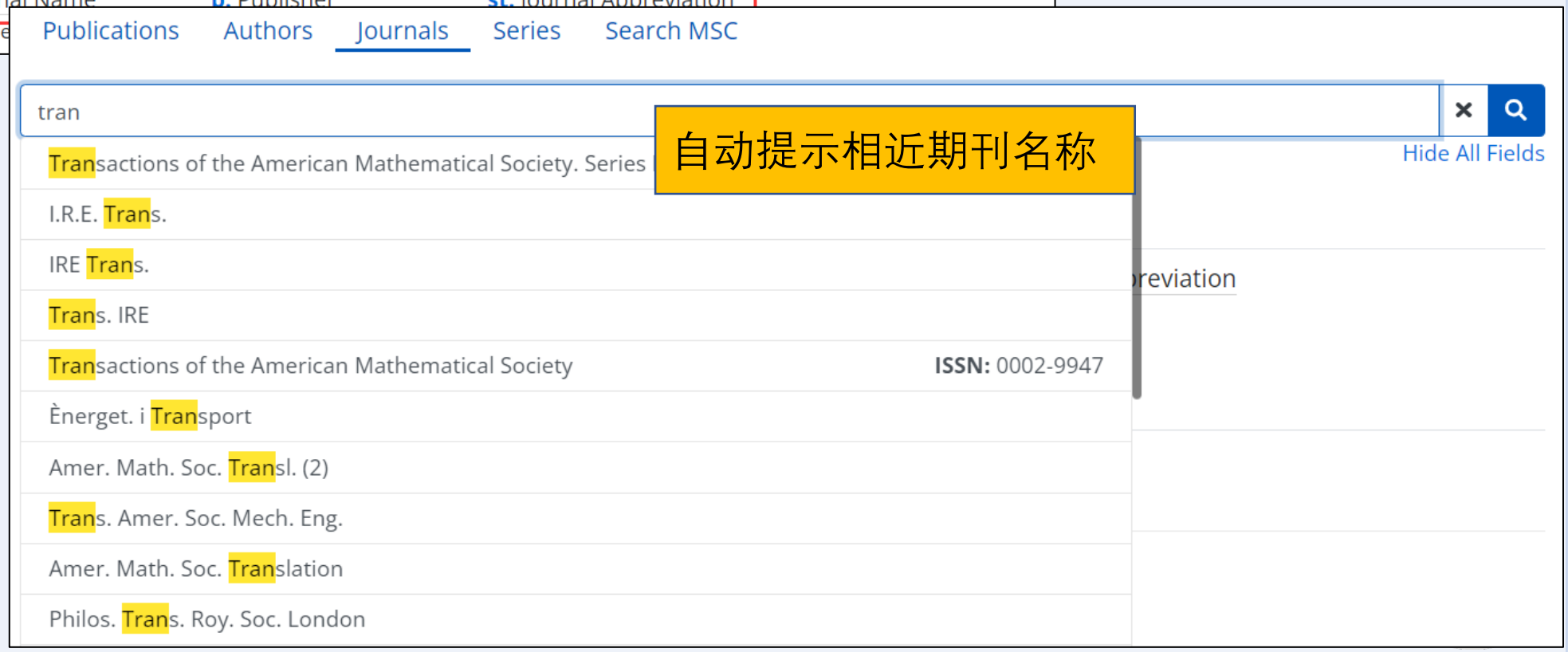
4 期刊检索

Journals

4 期刊检索

期刊检索用于检索某一特定期刊的信息。





4 期刊检索

期刊概况

该期刊被MathSciNet收录的文章数量

该期刊出版的文章被MathSciNet引用的总次数

Profile for

Transactions of the American Mathematical Society

AMS

Journal Details

Title	Transactions of the American Mathematical Society
Abbreviation	Trans. Amer. Math. Soc.
Publisher	American Mathematical Society
Websites	pubs.ams.org jstor.org
ISSN (Print)	0002-9947
ISSN (Online)	1088-6850
Frequency	12 issues/vol./yr.
Publications Listed	19,690
Reference Lists	1916 to Present
Latest Issue	**379** (2026), no. 12
Earliest Issue	**1** (1900), no. 1
Coverage	Cover-to-cover
Publications Cited	16,833 (85.5% of publications)
Citations	326,246 from 225,953 publications

Recent Issues

379 (2026), no. 12
379 (2026), no. 11
379 (2026), no. 10

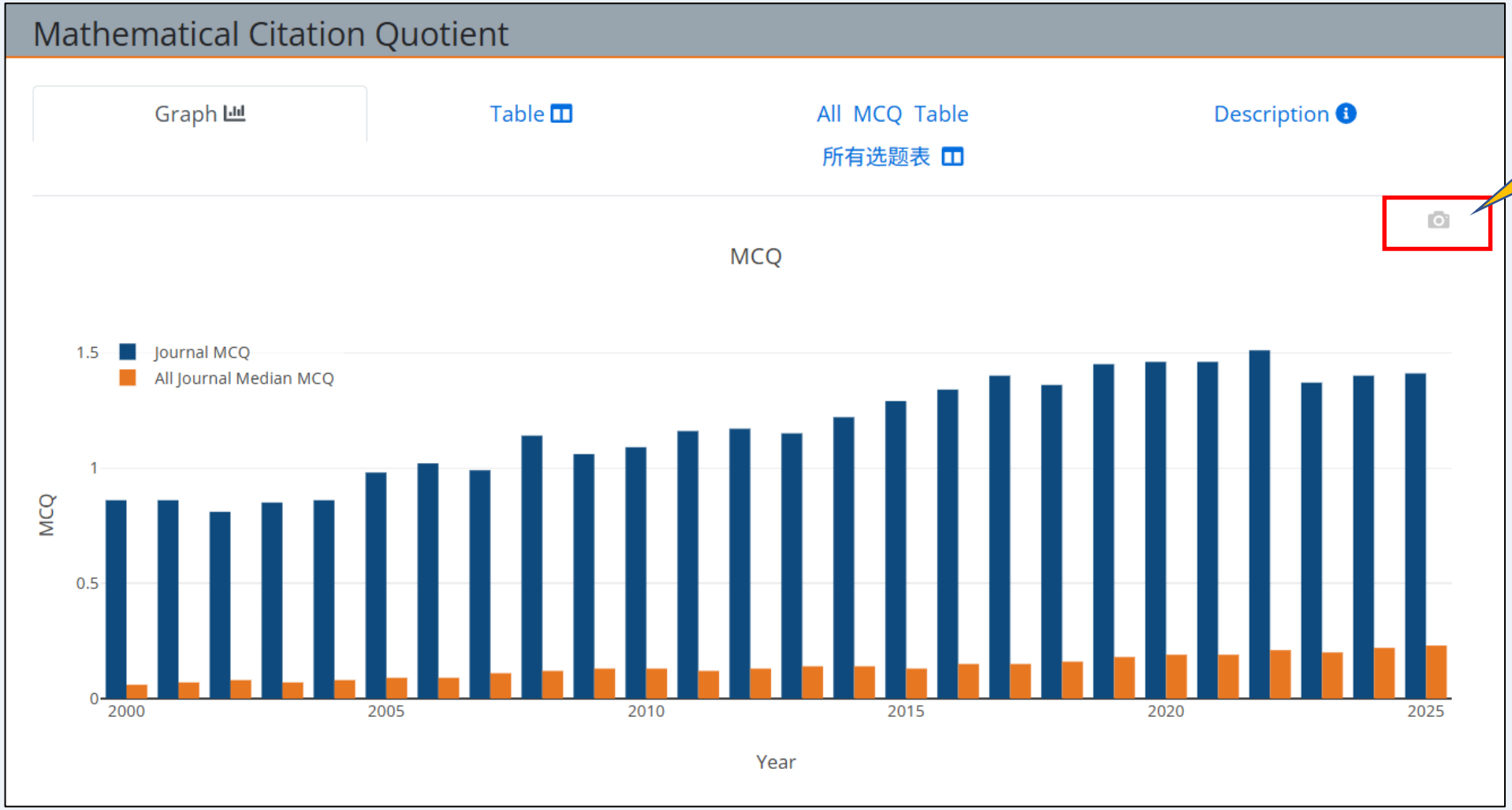
List All Issues

Journal Title History

Title	Start	End
Trans. Amer. Math. Soc.	1900	—

View Details

4 期刊检索



近年MCQ（数学引用指数）趋势

4 期刊检索

期刊被引用情况

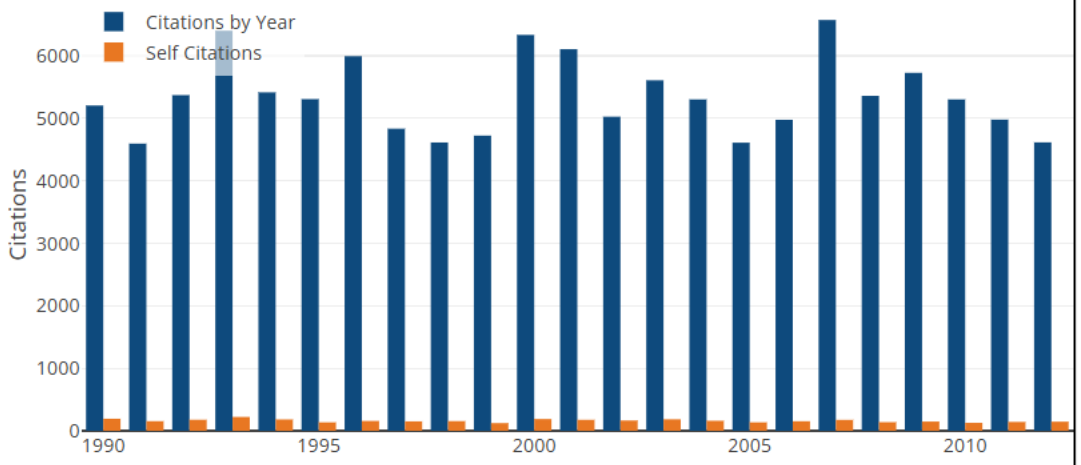
Citations

Citation Year All Time Update

Graph | Table | Top Citers Graph | Top Citers Table | Description

引用该期刊最多的期刊列表

Citations made to journal over **all time**.



Starting Year 1990 Ending Year 20

Citations

Citation Year All Time Update

Graph | Table | Top Citers Graph | Top Citers Table | Description

Top Citing Publications

Publication	Citations
Trans. Amer. Math. Soc.	9,953
Proc. Amer. Math. Soc.	9,610
J. Math. Anal. Appl.	5,865
J. Algebra	5,039
Adv. Math.	3,738
J. Differential Equations	3,418
J. Functional Analysis	3,180
Comm. Algebra	2,761
Topology Appl.	2,598
Int. Math. Res. Not. IMRN	2,335

4 期刊检索

期刊每年发表的文章数量



4 期刊检索

该期刊高发文分类（MSC分类）

Classifications

Last 3 Years | All Time

MSC*	Description	Count
35	Partial differential equations	104
11	Number theory	87
14	Algebraic geometry	87
37	Dynamical systems and ergodic theory [See also 26A18, 28Dxx, 34Cxx, 34Dxx, 35Bxx, 46Lxx, 58Jxx, 70-XX]	84
53	Differential geometry {For differential topology, see 57Rxx; for foundational questions of differentiable manifolds, see 58Axx}	84
20	Group theory and generalizations	52
57	Manifolds and cell complexes {For complex manifolds, see\newline 32Qxx}	51
60	Probability theory and stochastic processes {For additional applications, see 05Cxx, 11Kxx, 34-XX, 35-XX, 62-XX, 76-XX, 81-XX, 82-XX, 90-XX, 91-XX, 92-XX, 93-XX, 94-XX}	51
46	Functional analysis {For manifolds modeled on topological linear spaces, see 57Nxx, 58Bxx}	47
05	Combinatorics {For finite fields, see 11Txx}	32

Show All

*MSC= Mathematics Subject Classification

该期刊高发文作者

Top Authors

Last 3 Years | All Time

Name	Papers
Dong, Hongjie	5
Zheng, Fangyang	3
Buss, Alcides	3
Shi, Ruxi	3
Barbieri, Sebastián	3
Poggesi, Giorgio	3
Lee, Man-Chun	3
Ray, Anwesh	3
Karuo, Hiroaki	3
Blasco, Oscar	2

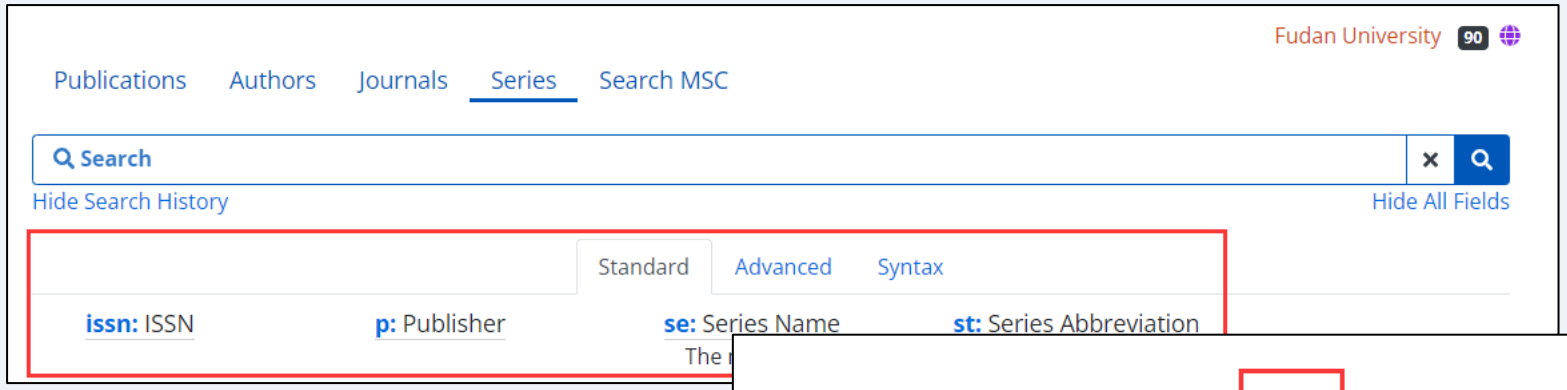
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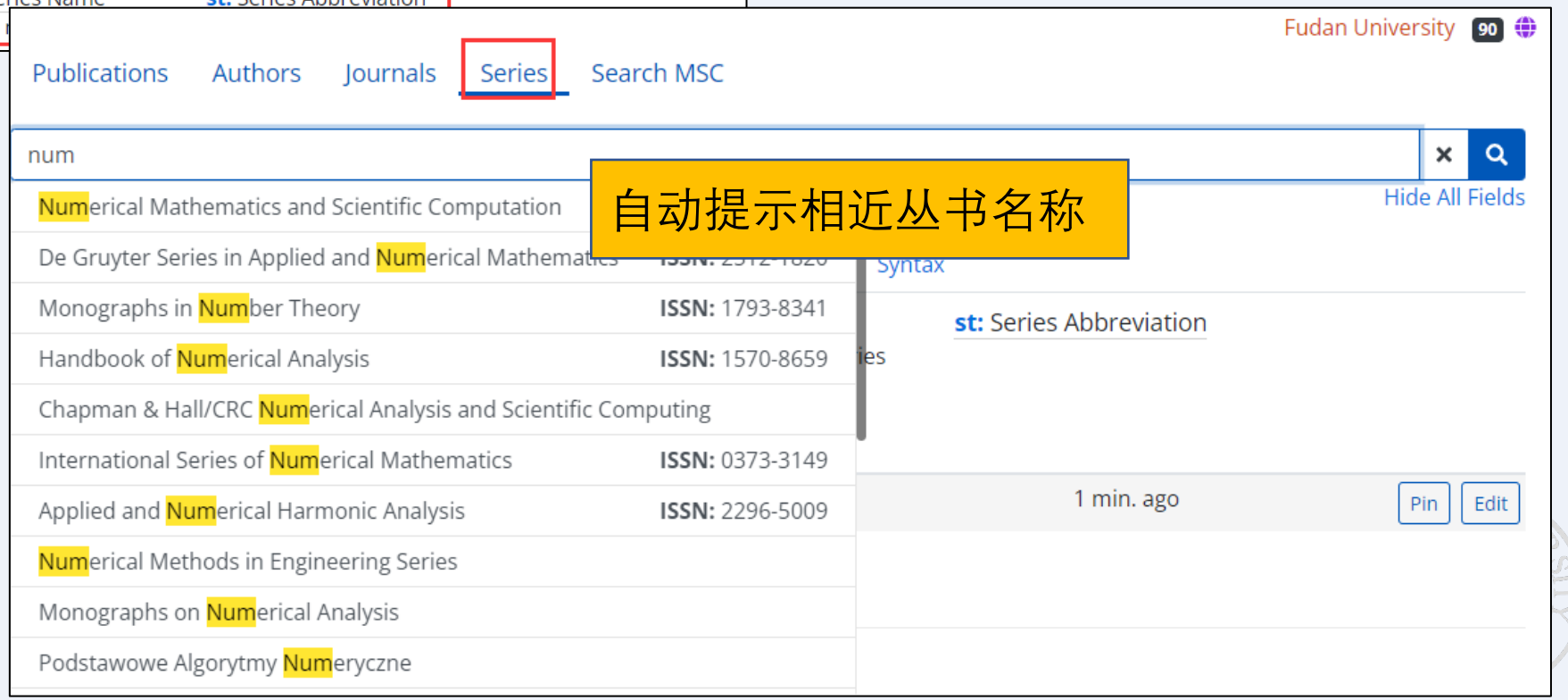
5 丛书检索

Series

5 丛书检索

丛书检索用于检索某一特定丛书的信息，可以是专著、教材、会议录等。





5 丛书检索

Profile for

Handbook of Numerical Analysis

Series Details

Title	Handbook of Numerical Analysis
Abbreviation	Handb. Numer. Anal.
Publisher	Elsevier/North-Holland
Websites	sciencedirect.com
ISSN	1570-8659
Publications Listed	233
Reference Lists	N/A
Latest Volume	2024, **vol. 25**, Numerical analysis meets machine learning
Earliest Volume	1990, **I**, Handbook of numerical analysis. Vol. I
Publications Cited	187 (80.3% of publications)
Citations	7,486 from 6,864 publications

Recent Volumes

2024, **vol. 25**, Numerical analysis meets machine learning
2023, **vol. 24**, Numerical control: Part B
2022, **vol. 23**, Numerical control. Part A

List All Volumes

Series Title History

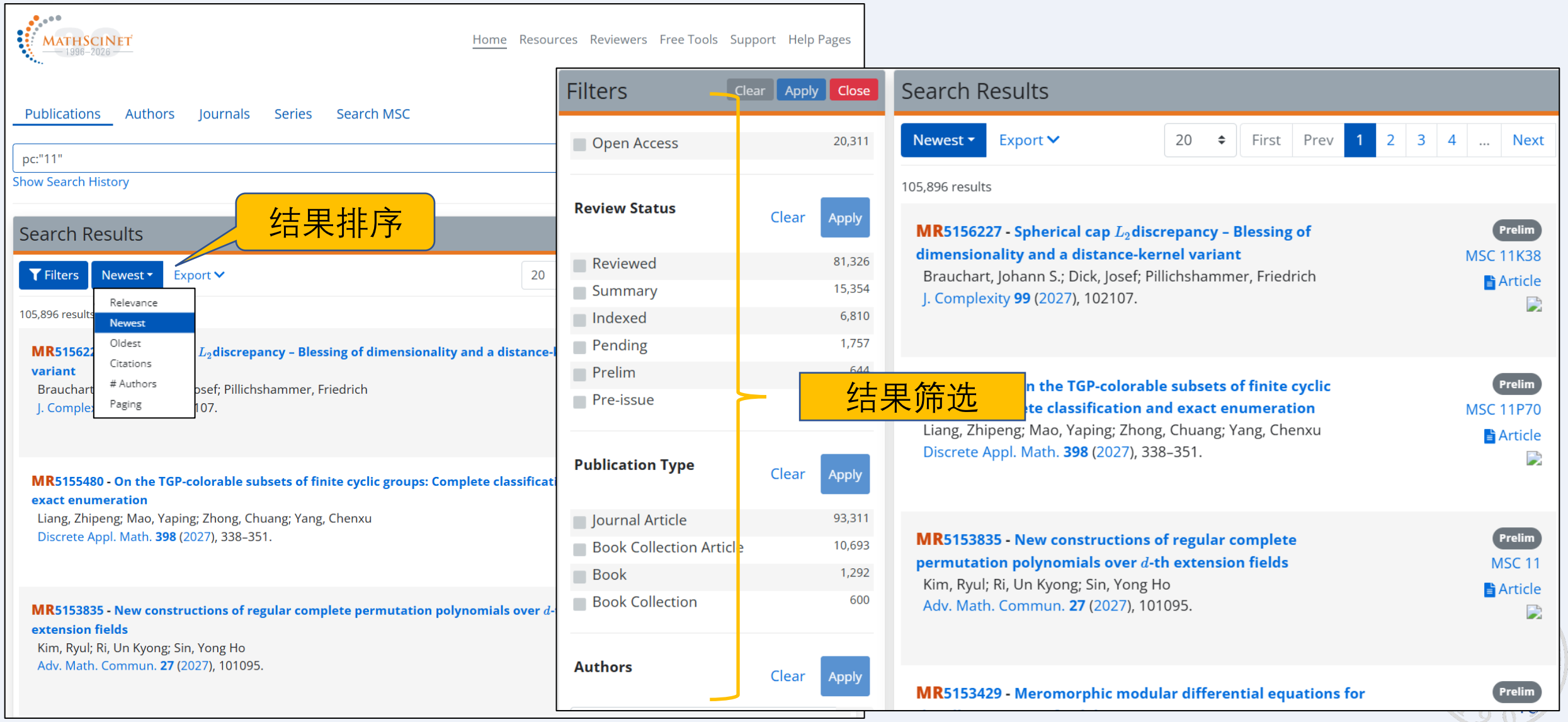
Title	Start	End
Handb. Numer. Anal.	1990	2024

View Details

丛书基本信息

6 检索结果的利用

6 检索结果


MATHSCINET 1996–2026
Home Resources Reviewers Free Tools Support Help Pages
Publications Authors Journals Series Search MSC
pc:"11"
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结果排序
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105,896 results
MR5156227 - Spherical cap L_2 discrepancy – Blessing of dimensionality and a distance-kernel variant
Brauchart, Johann S.; Dick, Josef; Pillichshammer, Friedrich
J. Complexity 99 (2027), 102107.
MR5155480 - On the TGP-colorable subsets of finite cyclic groups: Complete classification and exact enumeration
Liang, Zhipeng; Mao, Yaping; Zhong, Chuang; Yang, Chenxu
Discrete Appl. Math. 398 (2027), 338–351.
MR5153835 - New constructions of regular complete permutation polynomials over d-th extension fields
Kim, Ryul; Ri, Un Kyong; Sin, Yong Ho
Adv. Math. Commun. 27 (2027), 101095.
Filters Clear Apply Close
Open Access 20,311
Review Status Clear Apply
Reviewed 81,326
Summary 15,354
Indexed 6,810
Pending 1,757
Prelim 644
Pre-issue
结果筛选
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Journal Article 93,311
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Brauchart, Johann S.; Dick, Josef; Pillichshammer, Friedrich
J. Complexity 99 (2027), 102107.
Prelim MSC 11K38 Article
MR5155480 - On the TGP-colorable subsets of finite cyclic groups: Complete classification and exact enumeration
Liang, Zhipeng; Mao, Yaping; Zhong, Chuang; Yang, Chenxu
Discrete Appl. Math. 398 (2027), 338–351.
Prelim MSC 11P70 Article
MR5153835 - New constructions of regular complete permutation polynomials over d-th extension fields
Kim, Ryul; Ri, Un Kyong; Sin, Yong Ho
Adv. Math. Commun. 27 (2027), 101095.
Prelim MSC 11 Article
MR5153429 - Meromorphic modular differential equations for
Prelim

6 检索结果

MRID

MR4288639

作者机构代码

Reviewed

Back to search | Previous | Next | Article | Cite | Review PDF

Kowalski, Emmanuel (CH-ETHZ); Miche NDM)

CH-ETHZ
Department of Mathematics (D-MATH), Eidgenössische TH Zürich
8092 Zürich, Switzerland

Stratification and averaging for exp zed Kloosterm sums. (English summary)

Ann. Sc. Norm. Super. Pisa Cl. Sci. (5) **21** (2020), 1453–1530.

全文

Classifications

11T23 - Exponential sums
11F66 - Langlands L-functions; one variable Dirichlet series and functional equations
11L05 - Gauss and Kloosterman sums; generalizations
11N37 - Asymptotic results on arithmetic functions
11N75 - Applications of automorphic functions and forms to multiplicative problems
14D05 - Structure of families (Picard-Lefschetz, monodromy, etc.)
14F20 - Étale and other Grothendieck topologies and (co)homologies

MSC分类

Citations

From References: 5
From Reviews: 1

引用情况

Review

评论内容

The authors give estimates for the values of certain bilinear sums whose coefficients are character sums.

If q is a prime, and $K(\cdot;q)$ is the trace function of some constructible $\overline{\mathbf{Q}}_\ell$-sheaf on an algebraic variety defined over $\mathbf{F}_q$, such a bilinear form can be written as

$$B(K,\alpha,\beta)=\sum_{m\leq M}\sum_{n\leq N}\alpha_m\beta_n K(mn;q)$$

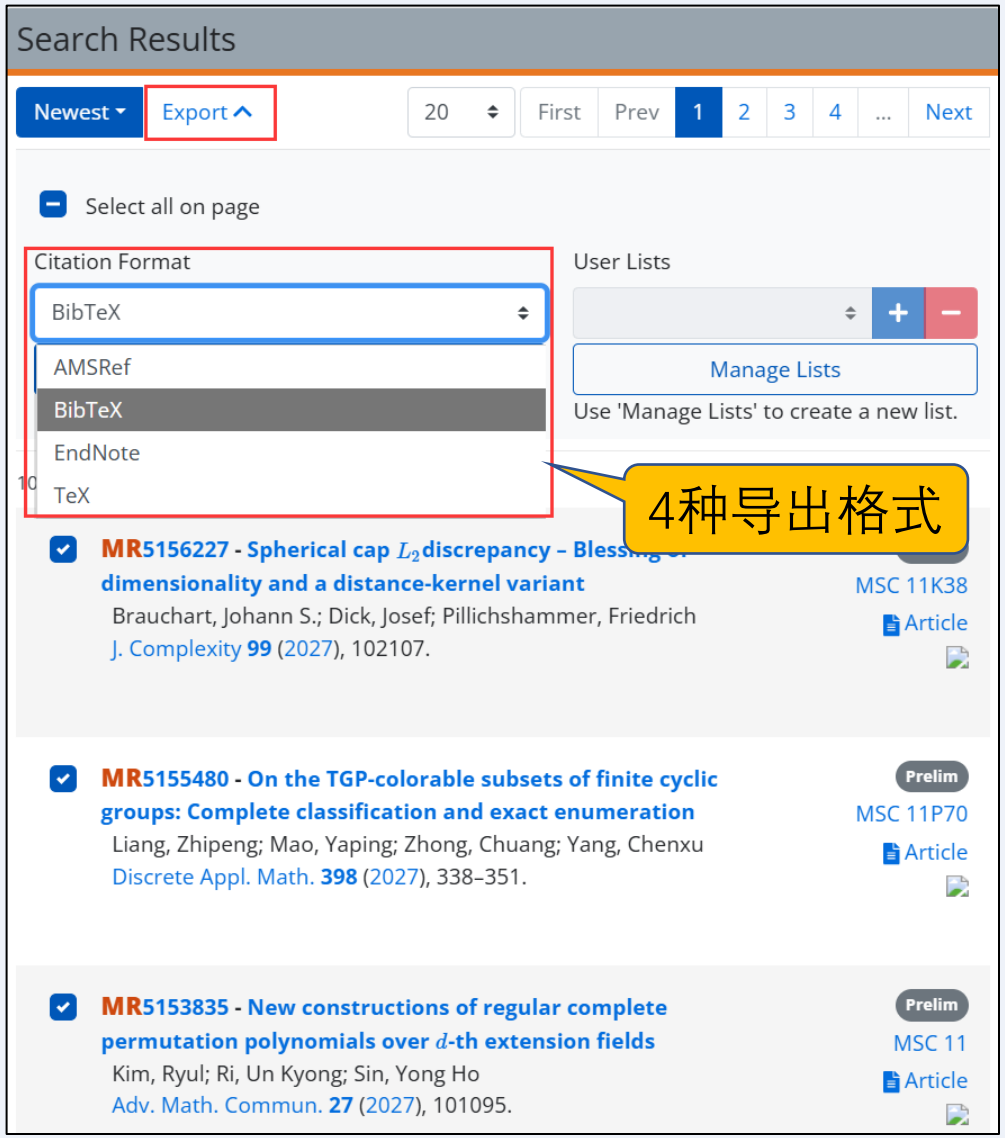
where $M,N\geq 1$ are integers, and $\alpha\in\mathbf{C}^M$, $\beta\in\mathbf{C}^N$ are complex-valued vectors.

The Pólya-Vinogradov method gives nontrivial bounds, i.e., better than the bound

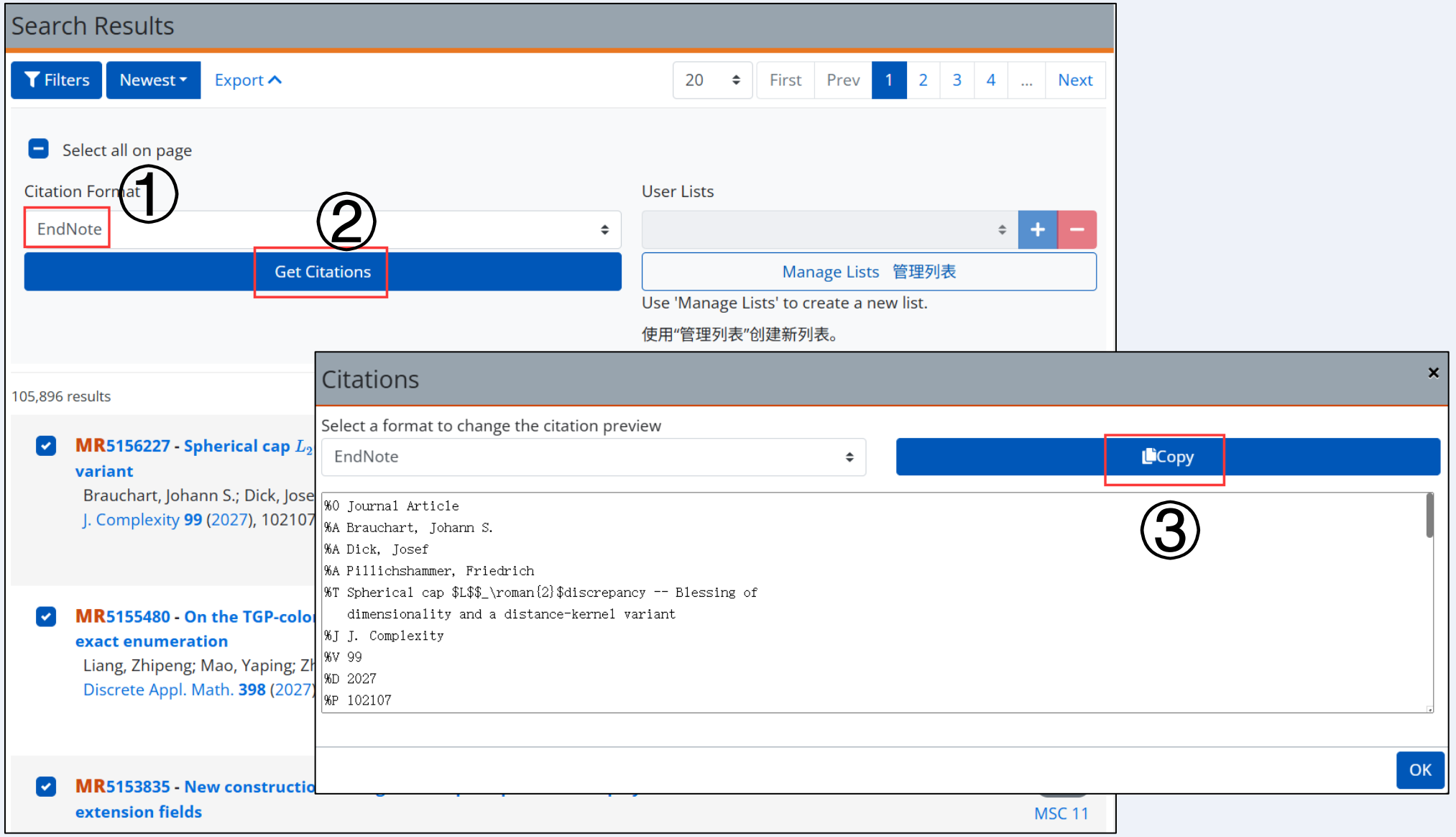
Reviewer: Blache, Régis

评论作者

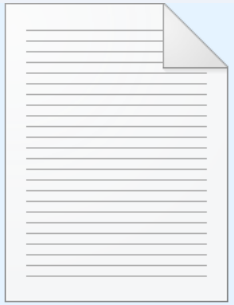
6 检索结果导出与保存


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Newest
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First
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4种导出格式
MR5156227 - Spherical cap L_2 discrepancy – Blessing of dimensionality and a distance-kernel variant
Brauchart, Johann S.; Dick, Josef; Pillichshammer, Friedrich
J. Complexity 99 (2027), 102107.
MSC 11K38
Article
MR5155480 - On the TGP-colorable subsets of finite cyclic groups: Complete classification and exact enumeration
Liang, Zhipeng; Mao, Yaping; Zhong, Chuang; Yang, Chenxu
Discrete Appl. Math. 398 (2027), 338–351.
Prelim
MSC 11P70
Article
MR5153835 - New constructions of regular complete permutation polynomials over d-th extension fields
Kim, Ryul; Ri, Un Kyong; Sin, Yong Ho
Adv. Math. Commun. 27 (2027), 101095.
Prelim
MSC 11
Article

6 检索结果导出到EndNote

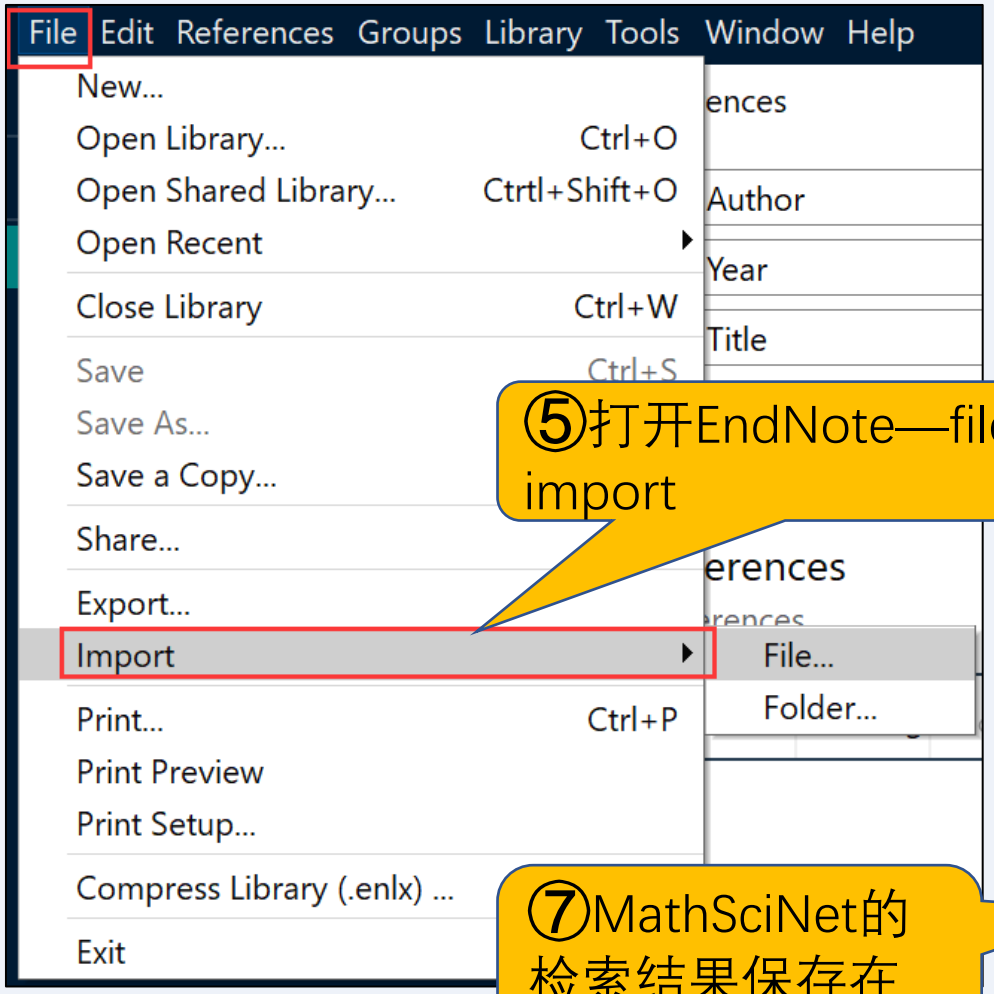


④



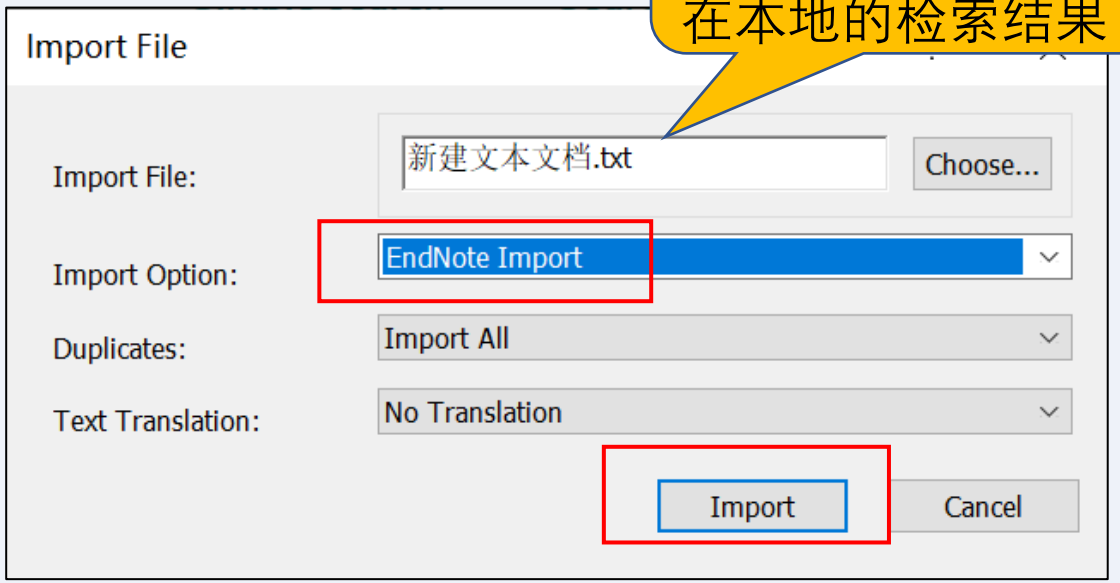
新建文本文档

6 检索结果保存

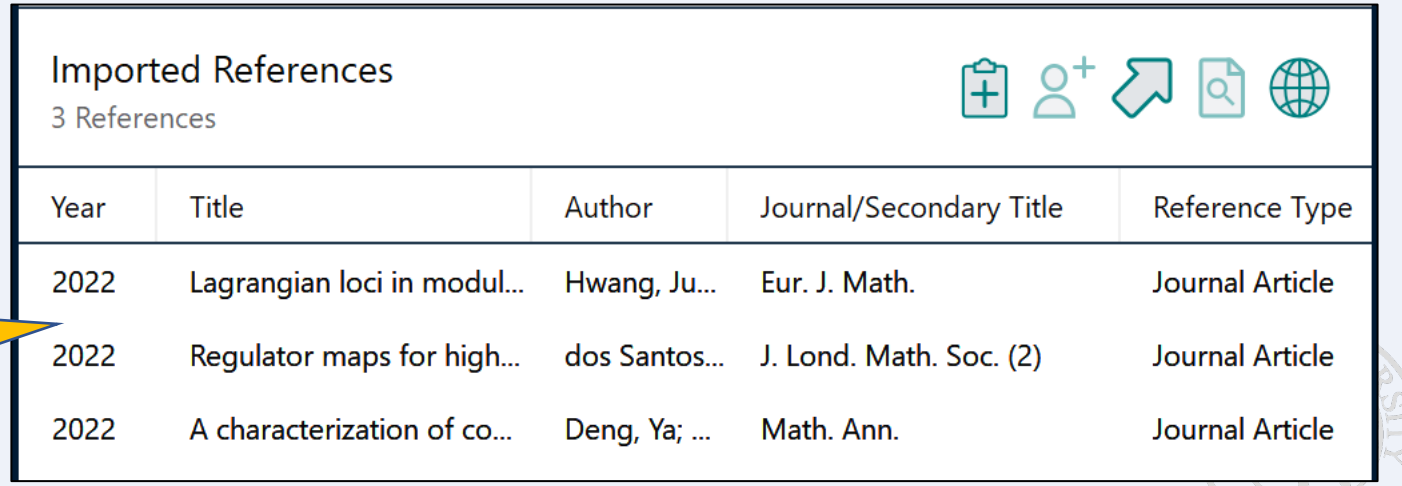


⑤打开EndNote—file—import

⑥选择从MathSciNet中保存在本地的检索结果



⑦MathSciNet的检索结果保存在EndNote



总结

MathSciNet提供4种检索方式，根据不同的需求选择不同的检索方式：

1. 出版物检索（Publications）：检索文章和图书的相关信息，可以获取评论、摘要、全文、出版日期和卷期等相关信息；
2. 作者检索（Authors）：以作者作为检索起点，获取作者相关信息；
3. 期刊检索（Journals）：以期刊作为检索起点，获取期刊相关信息；
4. 丛书检索（Series）：可以获取丛书信息。

谢 谢!

limei@fudan.edu.cn