

Peyman Niroomand

Personal information

Born: June, 21, 1980, Tehran, Iran

Gender: Male

Marital status: Married

Nationality: Iranian

Full Professor of Mathematics

E-mails: niroomand@du.ac.ir, p_niroomand@yahoo.com



ResearchGate link	Orcid link	Google scholar link	AMS link	Publons link	Scopus link	WOS link	zbMath link
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Phone: +98-233-5220092

Address: School of Mathematics and Computer Science, Damghan University, Damghan, Iran

Education

Ph.D. in Mathematics (2004-2008), Ferdowsi University of Mashhad

M.Sc. in Mathematics (2002-2004), Ferdowsi University of Mashhad

B.Sc. in Mathematics (1998-2002), Shahid Bahonar University of Kerman

Academic Positions

- Assistant Professor

Damghan University (2008-2015)

- Associate Professor

Damghan University (2015-2023)

- Professor

Damghan University (2023-)

Research interests

- The properties of Schur-multiplier of groups and Lie algebras;
- The structure of Baer-invariants of different products of groups;
- Perfect and covering groups; isologism properties;
- Variety of groups and groups with prime power order; nilpotent groups;
- The non-abelian tensor product of groups and Lie algebras;
- Linear Algebras; Mathematical Chemistry and Physics.

Publications

Total publications	Q1	Q2	Q3	Q4	Corresponding author
80	10	20	25	12	53

Total publications	WOS papers	Scopus papers	Conference papers	Journal papers
80	67	1	7	5

1) The Bogomolov multiplier of groups of order p^7 and exponent p

WOS Paper, Q4

A. Rostami, M. Parvizi and P. Niroomand

To appear in Czechoslovak Math. J

Publication year: 2024

2) The Bogomolov multiplier of Lie superalgebras

WOS Paper, Q3

Z. Araghi Rostamim, P. Niroomand and M. Parvizi

To appear in Indian J. Pure Appl. Math

Publication year: 2024

3) Bogomolov Multiplier and Isoclinism of Lie Rings

Journal Paper

Z. Araghi, M. Parvizi and P. Niroomand

MIR Journal, Volum 4, Issu 8, Pages 327-335

Publication year: 2023

4) Characterizing nilpotent Lie algebras that satisfy the converse to the Schur theorem

WOS Paper, Q1

A. Shamsaki, P. Niroomand

Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas

Publication year: 2023

5) The capability and certain functors of some nilpotent Lie algebras of class two

WOS Paper, Q1

F. Johari, P. Niroomand

To appear in Linear and Multilinear Algebra

Publication year: 2022

6) The classification of nilpotent Lie algebras L when $\dim M(L) = \dim L^2 = n - 2$

WOS Paper, Q3

Afsaneh Shamsaki, Peyman Niroomand

To appear in Publ. Math. Debrecen

Publication year: 2022

7) On characterizing nilpotent Lie algebra by their multiplier, $s(L) = 6, 7$

WOS Paper, Q2

Peyman Niroomand, Afsaneh Shamsaki

To appear in Results in Math

Publication year: 2022

8) Exterior square graph of a finite group

WOS Paper, Q3

M. Zamani, P. Niroomand, M. Sanati, M. Parvizi

To appear in Filomat

Publication year: 2022

9) Nilpotent Lie algebras of class 3 with 1-dimensional center and 3-dimensional derived subalgebra

WOS Paper, Q3

A. Shamsaki, F. Johari, P. Niroomand

To appear in Comm. Algebras

Publication year: 2022

10) The structure of finite abelian p -groups by order of their Schur multipliers

Journal Paper

M Parvizi, P Niroomand, A Mohammadpour Yengjeh, S Kayvanfar

Mathematical Researches, Vol. 8, No. 1, 2022

11) On the triple tensor product of some class of nilpotent Lie algebras

Conference Paper

Afsaneh Shamsaki, Peyman Niroomand

27th Iranian Algebra Seminar

March 9–10, 2022

12) On the triple tensor product of nilpotent Lie algebras

WOS Paper, Q1

A. Shamsaki and P. Niroomand

To appear in Linear and Multilinear algebra

Publication year: 2022

13) Capability of nilpotent Lie algebras of small dimension

WOS Paper, Q3

F. Pazandeh, P. Niroomand, A. Shamsaki, F. Russo

Bull. Iranian Math. Soc 48, pages 1153–1167 2022

Publication year: 2022

14) Characterization of finite dimensional nilpotent Lie algebras by the dimension of their Schur multipliers, $s(L)=5$

WOS Paper, Q3

Afsaneh Shamsaki, Peyman Niroomand

To appear in Math. Report

Publication year: 2022

15) Classification of p -groups via their 2-nilpotent multipliers

WOS Paper, Q2

Peyman Niroomand, Mohsen Parvizi

To appear in Rend. Circ. Mat. Palermo

Publication year: 2022

16) On a generalization of Schur's theorem

Conference Paper

Afsaneh Shamsaki, Peyman Niroomand

51st Annual Iranian Mathematics Conference

Publication year: February 15–20 2021

17) Nilpotent Lie algebras of class 4 with derived subalgebra of dimension 3

WOS Paper, Q3

F. Johari, P. Niroomand and M. Parvizi

Comm. Algebras Volume 49 - Issue 2, 2021

Publication year: 2021

18) On the non-abelian tensor square of all groups of order dividing p^5

WOS Paper, Q3

T. Jalaeian, M. Parvizi and P. Niroomand

Asian-Eur. J. Math, Vol. 14, No. 06, 2150107 (2021)

Publication year: 2021

19) The Schur multiplier of a nilpotent Lie algebra with derived subalgebra of maximum dimension

WOS Paper, Q1

F. Johari, P. Niroomand and A. Shamsaki

Quaest. Math. Volume 44, 2021 - Issue 6

Publication year: 2021

20) c -nilpotent multiplier and c -capability of the direct sum of Lie algebras

WOS Paper, Q3

F. Johari, P. Niroomand and M. Parvizi

J. Algebra Appl Vol. 19, No. 02, 2050037 (2020)

Publication year: 2020

21) c -nilpotent multiplier of finite p -groups

WOS Paper, Q1

F. Johari, P. Niroomand and M. Parvizi

Bull. Malays. Math. Sci. Soc. 43, pages 941–956 (2020)

Publication year: 2020

22) On characterizing nilpotent Lie algebras by their multiplier, $s(L)=4$

WOS Paper, Q2

Shamsaki, P. Niroomand

Rend. Circ. Mat. Palermo 69, pages 259–272 (2020)

Publication year: 2020

23) Bogomolov multiplier and the Lazard correspondence

WOS Paper, Q3

Z. Araghi Rostami, M. Parvizi, P. Niroomand

Comm. Algebras Volume 48, - Issue 3, 2020

Publication year: 2020

24) The Bogomolov multiplier of Lie algebras

WOS Paper, Q3

Z. Araghi Rostami, M. Parvizi, P. Niroomand

Hacet. J. Math. Stat. Volume 49 (3) (2020), 1190 – 1205

Publication year: 2020

25) Finite groups with few relative tensor or exterior

WOS Paper, Q1

Peyman Niroomand and Francesco Russo

Bull. Malays. Math. Sci. Soc. 43, pages 3201–3219 (2020)

Publication year: 2020

26) The Schur multiplier of a p -group with the derived subgroup of maximal order

WOS Paper, Q3

Shamsaki, P. Niroomand and F. Johari

Comm. Algebras Volume 48, Issue 11, 2020

Publication year: 2020

27) Tensor square and exterior square of maximal Lie algebras

Conference Paper

Afsaneh Shamsaki, Peyman Niroomand

The 50th Annual Iranian Mathematics Conference

26–29 August 2019

28) Capable Lie algebras with the derived subalgebra of dimension two over an arbitrary field

WOS Paper, Q1

Peyman Niroomand, Farangis Johari & Mohsen Parvizi

Linear and Multilinear Algebra, Volume 67, 2019 - Issue 3

Publication year: 2019

29) On finite groups with a given number of exterior centralizers

WOS Paper, Q3

M. Divandari, F. Pazandeh, P. Niroomand, A. Faramarzi

Comm. Algebra, Volume 47, 2019 - Issue 1

Publication year: 2019

30) Certain functors of a nilpotent Lie algebra with the derived subalgebra of dimension two

WOS Paper, Q3

Farangis Johari, Peyman Niroomand
J. Algebra Appl, Vol. 19, No. 01, 2050012 (2020)
Publication year: 2019

31) On the Schur multipliers of Lie algebras of maximal class

WOS Paper, Q4

Shamsaki. A, P. Niroomand
Internat. J. Algebra Comput. Vol. 29, No. 05, pp. 795-801 (2019)
Publication year: 2019

32) Nilpotent Lie algebras having the Schur multiplier of maximum dimension

WOS Paper, Q1

Shamsaki, P. Niroomand
Quaest. Math Volume 43, Issue 9, 2020 -
Publication year: 2019

33) c-Capability of Lie algebras with derived subalgebra of dimension two

WOS Paper, Q3

F. Johari, M. Parvizi and P. Niroomand
Comm. Algebras Volume 47,- Issue 12, 2019
Publication year: 2019

34) Some results on the Schur multiplier of nilpotent Lie algebras

WOS Paper, Q2

P. Niroomand and F. Johari
J. Algebra Volume 534, 15 September 2019, Pages 34-50
Publication year: 2019

35) Classifying p-groups by their Schur multipliers

WOS Paper, Q4

Peyman Niroomand
Math. Report (Vol. 20(70), No. 3/2018
Publication year: 2018

36) On the non-abelian tensor square of p-groups of order p^4

WOS Paper, Q4

T. Jalaeeyan, M. Parvizi and P. Niroomand
Asian-Eur. J. Math, Vol. 11, No. 6 (2018) 1850084
Publication year: 2018

37) Decomposition of the nonabelian tensor product of Lie algebras via the diagonal ideal

WOS Paper, Q1

P. Niroomand, F. Johari. M. Parvizi, F.G. Russo
Bull. Malays. Math. Sci. Soc, DOI :10.1007/s40840-017-0540-6.
Publication year: 2018

38) The structure, capability and the Schur multiplier of generalized Heisenberg Lie algebras

WOS Paper, Q2

Peyman Niroomand and Farangis Johari
Journal of Algebra, Volume 505, 1 July 2018, Pages 482-489
Publication year: 2018

39) The tensor degree of a pair of finite groups

Journal Paper

Golmakani Hanieh, Jafarzadeh Abbas*, Niroomand P.
Journal of New Researches in Mathematics, Spring 2018 , Volume 4 , Number 13 ; Page(s) 41 To 45.
Publication year: 2018

40) On the tensor degree of finite groups

WOS Paper, Q4

P. Niroomand , F. G. Russo
Ars Combinatoria, 131 (2017), 273--283
Publication year: 2017

41) Capability and Schur multiplier of a pair of Lie algebras

WOS Paper, Q2

F. Johari, M. Parvizi, P. Niroomand
J. Geometry Phys , 114 (2017) pages 184–196
Publication year: 2017

42) On dimension of Schur multiplier of nilpotent Lie algebras II

WOS Paper, Q4

F. Saeedi, H. Arabyani, P. Niroomand
Asian-Eur. J. Math, Vol. 10, No. 04, 1750076 (2017)
Publication year: 2017

43) 2-capability and 2- nilpotent multiplier of finite dimensional nilpotent Lie algebras

WOS Paper, Q2

P. Niroomand and M. Parvizi
J. Geometry Phys, Volume 121, November 2017, Pages 180-185
Publication year: 2017

44) Some results on the exterior degree of extra-special groups

WOS Paper, Q4

Peyman Niroomand
Ars Combinatoria, 125 (2016), 121--128
Publication year: 2016

45) Probabilistic properties of the relative tensor degree of finite groups

WOS Paper, Q2

Peyman Niroomand, F. G. Russo
Indag. Math, 27, pages 147-159
Publication year: 2016

46) Non-exterior square graph of finite group

WOS Paper, Q3

P. Niroomand, A. Erfanian, M. Parvizi, B. Tolue
Filomat, 31:3 (2017), 877–883
Publication year: 2016

47) On the capability and Schur multiplier of nilpotent Lie algebra of class two

WOS Paper, Q2

P. Niroomand F. Johari, M. Parvizi
Proc. Amer. Math. Soc, 144, 4157-4168
Publication year: 2016

48) 2-Nilpotent multipliers of a direct product of Lie algebras

WOS Paper, Q2

P. Nirooman, M. Parvizi
Rend. Circ. Mat. Palermo, 2016, Volume 65, Issue 3, pp 519–523
Publication year: 2016

49) On the 2-nilpotent multiplier of finite p-groups

WOS Paper, Q2

P. Niroomand , M. Parvizi
Glasgow Math J. - 1, 57, 201-210 - December, 2015 - .
Publication year: 2015

50) Characterizing finite p-groups by their Schur multipliers, $t(G)=5$

WOS Paper, Q4

Peyman Niroomand
Math. Report. 67, 17, - January, 2015 - .
Publication year: 2015

51) On the multiple exterior degree of finite groups

WOS Paper, Q3

P. Niroomand , R. Rezaei, A.Erfanian
Math. Slovaca - 4, 64, 859-870 - September, 2014 - .
Publication year: 2014

52) Some restrictions on the Betti numbers of a nilpotent Lie algebra

WOS Paper, Q3

P. Niroomand , F.G. Russo
Belgian Math. Soc. Simon Stevin - 3, 21, 403-413 - August, 2014 - .
Publication year: 2014

53) On the size of the third homotopy group of the suspension of an Eilenberg--MacLane space

WOS Paper, Q2

P. Niroomand , F.G. Russo
Turk. J. Math - 4, 38, 664-671 - April, 2014 - .
Publication year: 2014

54) The Exterior Degree of a Pair of Finite Groups

WOS Paper, Q1

P. Niroomand , R. Rezaei

Mediterr. J. Math. - 10, , 1195-1206 - October, 2013 - .

Publication year: 2013

55) Some criteria for detecting capable Lie algebras

WOS Paper, Q2

P. Niroomand , M. Parvizi , F.G Russo

J. Algebra - 384, , 36-44 - April, 2013 - .

Publication year: 2013

56) A remark on the capability of finite p-groups

Journal Paper

P. Niroomand , M. Parvizi

J. Adv. Res. Pure Math - 4, 5, 91-95 - December, 2013 - .

Publication year: 2013

57) The non-abelian tensor square and Schur multiplier of groups of orders p^2q and p^2qr

WOS Paper, Q4

P. Niroomand , S. H. Jafari , A. Erfanian

Algebra Colloq - 19, 1, 1083-1088 - November, 2012 - .

Publication year: 2012

58) An improvement of a bound of Green

WOS Paper, Q3

Peyman Niroomand , Francesco G. Russo

J. Algebra Appl. - 6, 11, 1250116 - November, 2012 - .

Publication year: 2012

59) Characterizing finite p-groups by their Schur multipliers

WOS Paper, Q2

Peyman Niroomand

C. R. Math. Acad. Sci. Paris, Ser. I - 19-20, 350, 867-870 -October, 2012 - .

Publication year: 2012

60) Some properties on the tensor square of Lie algebras

WOS Paper, Q3

Peyman Niroomand

J. Algebra Appl. - 5, 11, 1250085 - September, 2012 - .

Publication year: 2012

61) Some properties of certain subgroups of tensor squares of p-groups

WOS Paper, Q4

Peyman Niroomand , M. R. R. Moghaddam

Comm. Algebra - , 40, 1188-1193 - March, 2012 - .

Publication year: 2012

62) Commuting powers and exterior degree of finite groups

WOS Paper, Q3

P. Niroomand , R.Rezaei , F.G.Russo

J. Korean Math. Soc - 49, 4, 855-865 - March, 2012 - .

Publication year: 2012

63) On the structure of groups whose exterior or tensor square is a p-group

WOS Paper, Q2

Peyman Niroomand , Mohsen Parvizi

J. Algebra - , 352, 347-353 - February, 2012 - .

Publication year: 2012

64) A note on the Schur multiplier of groups of prime power order

Journal Paper, Scopus Q3

Peyman Niroomand

Ricerche de mat. - 2, 61, 341-346 - November, 2012 - .

Publication year: 2012

65) On the structure of groups whose exterior or tensor square is a p-group

WOS Paper, Q2

P. Niroomand , M. Parvizi

J. Algebra - , - March, 2012 - .

Publication year: 2012

66) On the multiplier of some p-groups

Conference Paper

Peyman Niroomand

22nd Iranian Algebra Seminar, Sabzevar, Tarbiat Moallem University - , , - February, 2012 - .

Publication year: 2012

67) On the tensor square of non-abelian nilpotent finite dimensional Lie algebras

WOS Paper, Q2

Peyman Niroomand

Linear and Multilinear Algebra - 8, 59, 831-836 - August, 2011 - .

Publication year: 2011

68) A note on the Schur multiplier of a nilpotent Lie algebra

WOS Paper, Q4

P. Niroomand , F. Russo

Comm. Algebra - 3, 39, 1293 - 1297 - March, 2011 - .

Publication year: 2011

69) On the exterior degree of finite group

WOS Paper, Q4

Peyman Niroomand , Rashid Rezaei

Comm. Algebra - 3, 39, 335-343. - March, 2011 - .

Publication year: 2011

70) On dimension of the Schur multiplier of nilpotent Lie Algebras

WOS Paper, Q3

Peyman Niroomand

Cent. Eur. J. Math. - 1, 9, 57-64 - January, 2011 - .

Publication year: 2011

71) A restriction on the Schur multiplier of nilpotent Lie algebras

WOS Paper, Q3

Peyman Niroomand , F. Russo,

Electron. J. Linear Algebra - 1, 22, 1-9 -January, 2011 - .

Publication year: 2011

72) Some properties of tensor square of nilpotent Lie algebra

Conference Paper

Peyman Niroomand

Third conference and workshop on group theory, Tehran 2011, University of Tehran - , , 121-123 - March, 2011 - .

Publication year: 2011

73) The Schur multiplier of p-groups with large derived subgroup

WOS Paper, Q2

Peyman Niroomand

Arch. Math(Basel) - 95, 2, 101-103 - February, 2010 - .

Publication year: 2010

74) The converse of Schur's theorem

WOS Paper, Q2

Peyman Niroomand

Arch. Math(Basel) - 94, 5, 401-403 - January, 2010 - .

Publication year: 2010

75) A remark on the abelian p-groups

Conference Paper

Peyman Niroomand , M. Parvizi , A. Mohammadpour

41th annual iranian Mathematics conference, 2010,university of urmia, urmia, Iran. - , - September, 2010 - .

Publication year: 2010

76) The Schur multiplier of prime power group

Conference Paper

Peyman Niroomand

Group Theory Conference, Mashhad 2010, Ferdowsi University of Mashhad, Iran - , , 10-12 - March, 2010 - .

Publication year: 2010

77) On the order of Schur multiplier of non-abelian p-groups

WOS Paper, Q3

Peyman Niroomand

J. Algebra - 12, 322, 4479-4482 - December, 2009 - .

Publication year: 2009

78) A note on the exterior centralizer

WOS Paper, Q2

Peyman Niroomand , Francesco Russo
Arch. Math(Basel) - 96, 6, 505-512 - June, 2009 - .
Publication year: 2009

79) Some properties of tensor centre of groups

WOS Paper, Q3

M. R. R. Moghaddam , P. Niroomand , S. H. Jafari
J. Korean Math. Soc - 46, 2, 249—256. -February, 2009 - .
Publication year: 2009

80) Covering groups with respect to two varieties of groups

Journal Paper

M. R. R. Moghaddam , A. R. Salemkar , P. Niroomand
Southeast Asian Bull. Math - 31, 2, 313--320 - January, 2007 - .
Publication year: 2007

Teaching and student supervision

Courses taught

- Algebra I,II,III
- Finite p-groups and their applications
- Schur multiplier
- Lie algebras
- Calculus I,II
- Differential equation

I have supervised about 20 MSc and 6 PhD theses in the last 10 years. Most of them have been related to various topics in group theory and Lie algebras.

Professional memberships

- Member of the American Mathematical Society
- Member of the Iranian Mathematical Society

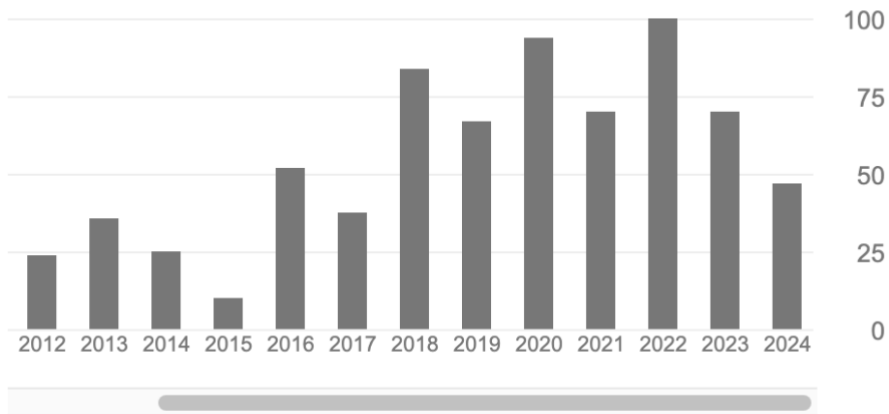
Honors and honor activity

- Distinguished researcher in basic sciences of the University of Damghan (2020-2021)
- Distinguished researcher in basic sciences of the University of Damghan (2018-2019)
- Distinguished researcher in basic sciences of the University of Damghan (2013-2014)
- Distinguished lecturer in basic sciences of the University of Damghan (2012-2013)
- Distinguished researcher in basic sciences of the University of Damghan (2012-2013)
- Distinguished researcher in basic sciences of the University of Damghan (2010-2011)
- Distinguished researcher in basic sciences of the University of Damghan (2009-2010)
- First grade student in Ph.D. (2008)
- First grade student in M.Sc (2004)
- Member of editorial board of the Bulletin of Malaysian Mathematical Society (2019--)
- Reviewer of the American Mathematical Reviews (2009--)
- Reviewer of the zbMath (2021--)
- Executive Manager and managing editor of GADM

Referee for

- Algebra Colloquium. (World Scientific).
- Communications in Algebra (Taylor & Francis)
- Filomat
- Bulletin of the Malaysian Mathematical Sciences Society
- Linear Algebra and its Applications (Elsevier Inc.)
- Ars Combinatoria (Charles Babbage Res. Centre, Canada)
- Journal of Group Theory (Walter de Gruyter)
- Publicationes Mathematicae Debrecen (The Institute of Mathematics, University of Debrecen, Hungary)
- Journal of Algebra (Elsevier Inc.)
- Bulletin of the Iranian Mathematical Society
- Revista de la Real Academia de Ciencias Exactas
- Rendiconti del Circolo Matematico di Palermo Series 2
- Quaestiones Mathematicae.
- Mathematica Slovaca
- Archiv der Mathematik
- Southeast Asian Bulletin of Mathematics
- International Journal of Group Theory

Citations per year on Google scholar



Citations & h-index on Google scholar		
	All	Since 2020
Citations	748	382
h-index	15	11
i10-index	22	13

Published papers (From date range 2008 - 2024)

PUBLICATION METRICS

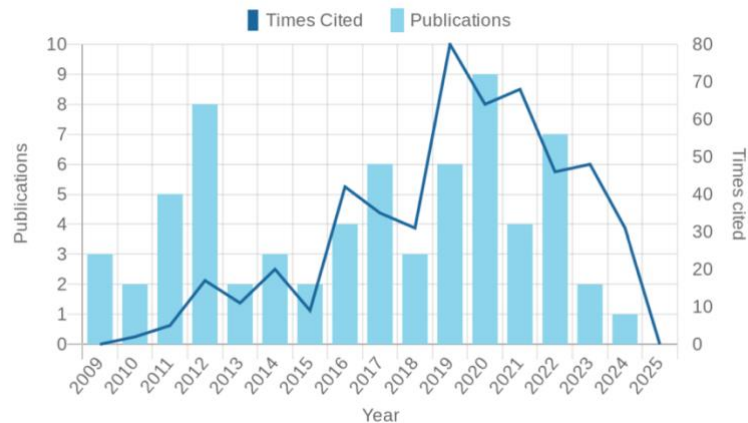
For manuscripts published from date range 2008 - 2024

TOTAL CITED	TIMES	H-INDEX	PUBLICATIONS
509		12	102

WEB OF SCIENCE DOCUMENTS

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PUBLICATION IMPACT OVER TIME



PUBLISHING SUMMARY

For manuscripts published from date range January 2008 - January 2025

(33) ArXiv	(9) Communications in Algebra
(5) Journal of Algebra	(4) Journal of Algebra and Its Applic...
(4) Mathematical Reports	(4) Bulletin of the Malaysian Mathe...
(4) Linear and Multilinear Algebra	(3) Asian-European Journal of Mathe...
(3) Archiv der Mathematik	(2) Journal of the Korean Mathemati...
(2) Quaestiones Mathematicae	(2) Indagationes Mathematicae
(2) Ars Combinatoria	(2) Algebra Colloquium
(2) Rendiconti del Circolo Matematic...	(2) Journal of Geometry and Physics
(2) Filomat	(1) Mathematica Slovaca
(1) Central European Journal of Mat...	(1) Ricerche di Matematica
(1) Proceedings of the American Ma...	(1) Bulletin of the Iranian Mathemati...
(1) Mediterranean Journal of Mathe...	(1) International Journal of Algebra ...
(1) Electronic Journal of Linear Alge...	(1) Bulletin of the Belgian Mathemat...
(1) Glasgow Mathematical Journal	(1) Hacettepe Journal of Mathematic...
(1) Turkish Journal of Mathematics	(1) Czechoslovak Mathematical Jour...
(1) Publicationes Mathematicae	(1) Comptes Rendus Mathematique
(1) Results in Mathematics	(1) Revista de la Real Academia de ...