



**HOTTEST  
ARTICLES**  
ON ScienceDirect.com

## INTRODUCTION

The ScienceDirect TOP25 Hottest Articles is a free quarterly service from ScienceDirect. When you subscribe to the ScienceDirect TOP25, you'll receive an e-mail every three months listing the ScienceDirect users' 25 most frequently downloaded journal articles, from any selected journal among more than 1,600 titles in the ScienceDirect database, or from any of 24 subject areas.

Now you can keep track of the latest trends in your speciality and find out what your colleagues are reading. A simple click on any of the listed articles will take you to the journal abstract, and of course, you have the option to download any article straight to your desktop, depending on your access rights.

Read more about [how the TOP25 is generated](#) and what it reflects.

Check out the ScienceDirect TOP25 Hottest Articles within your area of interest.

Subject Area:	<input type="text" value="Mathematics"/>
Journal:	<input type="text" value="Advances in Mathematics"/>

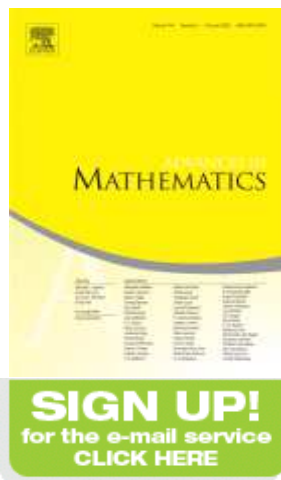
With these drop-down menus, the ScienceDirect TOP25 Hottest Articles are selected. Please refine your selection if necessary. To see the overall TOP25 within a certain subject area or journal, please select 'all subjects' or 'all journals' from the drop-down menus.

## TOP25 articles within the journal: Advances in Mathematics

1. [Partial Differential Equations in the 20th Century](#) • Article  
Advances in Mathematics, Volume 135, Issue 1, 15 April 1998, Pages 76-144
2. [Structure of the Malvenuto-Reutenauer Hopf algebra of permutations](#) • Article  
Advances in Mathematics, Volume 191, Issue 2, 1 March 2005, Pages 225-275
3. [The modular properties and the integral representations of the multiple elliptic gamma functions](#) • Article  
Advances in Mathematics, Volume 189, Issue 2, 20 December 2004, Pages 247-267
4. [Ramanujan's "Lost" Notebook VIII: the entire Rogers-Ramanujan function](#) • Article  
Advances in Mathematics, Volume 191, Issue 2, 1 March 2005, Pages 393-407
5. [Weighted composition operators and the Gleason-Kahane-Zelazko theorem](#) • Article  
Advances in Mathematics, Volume 191, Issue 2, 1 March 2005, Pages 423-445
6. [Limit sets of automatic sequences](#) • Article  
Advances in Mathematics, Volume 175, Issue 2, 10 May 2003, Pages 169-196
7. [A topological colorful Helly theorem](#) • Article  
Advances in Mathematics, Volume 191, Issue 2, 1 March 2005, Pages 305-311

### SIGN UP!

Would you like to be kept posted on the latest TOP25 ARTICLES within *Advances in Mathematics*?



**SIGN UP!**  
for the e-mail service  
CLICK HERE

8. [Graph picture spaces](#) • Article  
Advances in Mathematics, Volume 191, Issue 2, 1 March 2005, Pages 312-338
9. ["Lost" notebook IX: the partial theta function as an entire function](#) • Article  
Advances in Mathematics, Volume 191, Issue 2, 1 March 2005, Pages 408-422
10. [Or quantum affine sl^n](#) • Article  
Advances in Mathematics, Volume 191, Issue 2, 1 March 2005, Pages 276-304
11. [Fibrations on toric manifolds with positive first Chern class](#) • Article  
Advances in Mathematics, Volume 188, Issue 1, 20 October 2004, Pages 1-10
12. [A growth bound of semigroups associated with Lie algebras](#) • Article  
Advances in Mathematics, Volume 191, Issue 1, 15 February 2005, Pages 1-10
13. [Structure for metric measure spaces](#) • Article  
Advances in Mathematics, Volume 183, Issue 2, 1 April 2004, Pages 271-315
14. [Limits of finite metric spaces](#) • Article  
Advances in Mathematics, Volume 189, Issue 2, 20 December 2004, Pages 1-10
15. [Lie algebras](#) • Article  
Advances in Mathematics, Volume 189, Issue 1, 1 December 2004, Pages 1-10
16. [Metric spaces: a categorical equivalence](#) • Article  
Advances in Mathematics, Volume 189, Issue 1, 1 December 2004, Pages 1-10
17. [Identities between q-hypergeometric and hypergeometric integrals of](#)

**different dimensions • Article**

Advances in Mathematics, Volume 191, Issue 1, 15 February 2005, Pages 29-45

**18. Oriented matroids, complex manifolds, and a combinatorial model for BU • Article**

Advances in Mathematics, Volume 179, Issue 2, 10 November 2003, Pages 250-290

**19. Compositions of theta correspondences • Article**

Advances in Mathematics, Volume 190, Issue 2, 30 January 2005, Pages 225-263

**20. Conformal field theory and elliptic cohomology • Article**

Advances in Mathematics, Volume 189, Issue 2, 20 December 2004, Pages 325-412

**21. The combinatorial structure of random polytopes • Article**

Advances in Mathematics, Volume 191, Issue 1, 15 February 2005, Pages 178-208

**22. Hormander form and uniqueness for the Cauchy problem • Article**

Advances in Mathematics, Volume 189, Issue 1, 1 December 2004, Pages 237-245

**23. Sigma-cotorsion rings • Article**

Advances in Mathematics, Volume 191, Issue 1, 15 February 2005, Pages 11-28

**24. The heat flow in nonlinear Hodge theory • Article**

Advances in Mathematics, Volume 190, Issue 2, 30 January 2005, Pages 360-424

**25. Euler equations on homogeneous spaces and Virasoro orbits • Article**

Advances in Mathematics, Volume 176, Issue 1, 1 June 2003, Pages 116-144



Do you want to search in other fields of interest?

**Just go to the [top of the page](#) and use the drop-down menus to select another TOP25.**