

International Comparative Performance of India's Research Base (2009-14)

A Bibliometric Analysis



सत्यमेव जयते

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Department of Science & Technology (DST)
Ministry of Science & Technology
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Biochemistry, Genetics and Molecular Biology					
Rank	Citations	Year	Title	Journal	Authors and affiliations
1	1,281	2009	Silver nanoparticles as a new generation of antimicrobials	Biotechnology Advances	Gade A. (8); Yadav A. (8); Rai M. (8) *(8) Sant Gadge Baba Amravati University
2	1,029	2009	Human Protein Reference Database - 2009 update	Nucleic Acids Research	Keshava Prasad T. (11); Mathivanan S. (12); Mohmood R. (13); Kumar S. (12); Kandasamy K. (12); Ranganathan P. (11); Goel R. (11); Raju R. (12); Marimuthu A. (11); Harrys Kishore C. (11); Balakrishnan L. (11); Keerthikumar S. (12); Kanth S. (11); Rani S. (11); Ray S. (11); Venugopal A. (12); Ramabadran S. (11); Somanathan D. (11); Telikicherla D. (12); Shafreen B. (11); Sebastian A. (11); Ramachandra Y. (13); Banerjee S. (11); Ahmed M. (11); Krishna V. (13); Rahiman B. (13); Chaerkady R. (11); Mohan S. (11); Kashyap M. (12) *(11) Institute of Bioinformatics (12) Kuvempu University & Institute of Bioinformatics (13) Kuvempu University
3	995	2010	Association analyses of 249,796 individuals reveal 18 new loci associated with body mass index	Nature Genetics	Ebrahim S. (87) *(87) South Asia Network for Chronic Disease
4	973	2012	Guidelines for the use and interpretation of assays for monitoring autophagy	Autophagy	Srinivasula S. (110); Saran S. (111); Ganesh S. (1) *(1) Indian Institute of Technology, Kanpur (10) Indian Institute of Science Education and Research Thiruvananthapuram (11) Jawaharlal Nehru University
5	692	2010	Electrospinning: A fascinating fiber fabrication technique	Biotechnology Advances	Kundu S. (39); Bhardwaj N. (39) *(39) Indian Institute of Technology, Kharagpur
6	634	2010	Biodegradable polymeric nanoparticles based drug delivery systems	Colloids and Surfaces B: Biointerfaces	Yadav S. (52); Kumari A. (52) *(52) Institute of Himalayan Bioresource Technology India - CSIR - Biomedicine and Agriculture
7	424	2009	Computationally guided photothermal tumor therapy using long-circulating gold nanorod antennas	Cancer Research	Das S. (32); Bandaru N. (32) *(32) Indian Institute of Technology, Madras
8	318	2010	Meta-analysis identifies 13 new loci associated with waist-hip ratio and reveals sexual dimorphism in the genetic basis of fat distribution	Nature Genetics	Ebrahim S. (87) *(87) South Asia Network for Chronic Disease
9	316	2010	Novel chitin and chitosan nanofibers in biomedical applications	Biotechnology Advances	Prabakaran M. (53); Jayakumar R. (54); Nair S. (54) *(53) SRM University (54) Amrita Institute of Medical Sciences India - Amrita Vishwa Vidyapeetham
10	307	2012	The IntAct molecular interaction database in 2012	Nucleic Acids Research	Mahadevan U. (108); Raghunath A. (108) *(108) Molecular Connections Private Limited

Table 6.3 — Top 10 publications in Biochemistry, Genetics and Molecular Biology with at least one author affiliated with an Indian institution, 2009-2014