

HOMI BHABHA CENTRE FOR SCIENCE EDUCATION
Tata Institute of Fundamental Research

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September 2014

Publications

In Journals (Years 1974-2014)

2013-2014

1. Aguirre, V. S., Ruchti, G.R., Hekker, S., Cassisi, S., Christensen-Dalsgaard, J., Datta, A., Jendreieck, A., Jessen-Hansen, J., Mazumdar, A., Mosser, B., Stello, D., Beck, P. G., & De Ridder, J. (2014). Old puzzle, new insights: a lithium-rich giant quietly burning helium in its core. *The Astrophysical Journal Letters*. 784, L16.
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2. Arvind Kumar (1989). Physics, A textbook for Senior Secondary Classes, Vol. I, Parts I and II, NCERT, 1988-89 (co-author).
3. Kulkarni V. G. (1989). Science, A textbook for Class IX, NCERT, (co-author).

1987- 1988**NIL****1986-1987**

1. Gambhir V. G. Co-author of new science textbook for class VI, *NCERT*, New Delhi.
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1974-1986**NIL**

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2. Ramadas, J. and Mathai, S. (2008). 'Vizualization in Science Education' John K. Gilbert (Ed.), Springer, Dodrecht, The Netherlands, 346 pp., ISBN 978-1-4020-3612-5, In *International Journal of Science Education*, 30 n(15), pp. 2091-6.

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2. H C Pradhan (2002). "Tapli Vasundhara" (in Marathi) by Gargi Lagu, in *LokRang*, Sunday supplement of the daily *Loksatta*, December 8.
3. Hetu C. Sheth (2003). Volcanoes in America's National Parks, by Robert Decker and Barbara Decker, in *Current Science*, 84, p. 4569.

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Pradhan, H. C. (1997). Scientific Outlook and US (in Marathi), a book by Sudhir Panse, reviewed in Thinkers Academy Journal, August-September.

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3. Sonawane, V., & Agarkar, S. (2014). Shaleya vidnyanatil shankaa: bhautik vidnyan. Mumbai: HBCSE, TIFR.

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2. S. C. Agarkar and Arvind Kumar (2013). *Remedial Geometry Part 2: Mensuration, Congruence, Simliarity and Symmetry (in Marathi)*, HBCSE, TIFR, Mumbai.
3. Nagarjuna G., Arvind Jamakhandi, and Ebie M. Sam (Eds.) (2013). *Proceedings of epiSTEME-5: Third International Conference to Review Research on Science, Technology and Mathematics Education*. CinnamonTeal Publishing.
4. A. D. Ghaisas (2012). *Aakash kase pahawe: Marathi book on observational astronomy*, 4th book in the "He mahit haweche 101" series of books, Manovikas Prakashan, Pune, June.
5. A. D. Ghaisas (2012). *Khagolshastradnya: Marathi book on the contribution of 101 Astronomers to the development of Astronomy with their short biographies*; 5th book in the "He mahit haweche 101" series of books, Manovikas Prakashan, Pune, December.
6. Subramaniam, K. & Ramanujam, R. (Eds.) (2012). *Mathematics Education in India: Status and Outlook*, Mumbai: Homi Bhabha Centre for Science Education (TIFR). Available at <http://nime.hbcse.tifr.res.in/articles/INPBook.pdf>.
7. Savita Ladage, Swapna Narvekar and Indrani Sen (2013). *Experimental Problems In Chemistry (2003-2007)*, Mumbai: HBCSE Publications (2009). Second Edition, January.
8. K. K. Mishra (2012). *Abstract Book of the National Workshop on Development of Educational e-materials in Hindi*, organized by HBCSE under the auspices of Vigyan Pariashad Prayag from November 2-4.
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11. Vijay Singh (2012). Brochure: National Olympiad Programme in Physics, Chemistry, Biology, Astronomy and Junior Science, Mumbai: HBCSE.
12. Vijay A. Singh and Praveen Pathak (2013). *Indian National Physics Olympiad Theory Problems And Solutions (2006-2009)*, HBCSE Publications, Mumbai – 88 (2008) (Fifth Edition, January)
13. Sule A., Ghaisas A. and Vahia M. (2012). *Question papers of Indian National Astronomy Olympiad (1999 – 2008)*, Manovikas Prakashan.
14. Aniket Sule, Anand Ghaisas, M. N. Vahia (2013). (compiled) *Question Papers of Indian National Astronomy Olympiad (1999 – 2008)* Manovikas Prakashan.

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2. Ghaisas, A. D. (2012). *Aakash kase pahaave*, Manovikas Prakashan.
3. Haydock, K. (2011). Illustrated books:
 - (a) रेशन सितारे, (Hindi) by Arvind Gupta, published by Eklavya, Bhopal, August.
 - (b) असे घडले शास्त्रज्ञ, (Marathi) by Arvind Gupta, published by Manovikas Prakashan, Pune.
 - (c) Ujwala Kidigalu (Kannada), by Arvind Gupta, published by Navakarnatika Publications, Bangalore.
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4. Mavalankar A., Pradhan H. C., Kulkarni A. and Nimkar N. (2011). Text-cum-workbook of Class I developed by HBCSE under Homi Bhabha Curriculum revised and printed in new format, and divided in four parts. '*Maze Ganit*' Part I, II, III and IV (in Marathi) '*My Maths*' Part I, II, III and IV (in English), December.
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4. Pradhan, H. C. and others (2011). Kumar Vishwakosh (Junior Science) Biology and Environment (Part I), Maharashtra Rajya Vishwakosh Nirmiti Mandal, February (Pages 237 + 31) (in Marathi).
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3. Ladage, S., (2009). Interesting Experiments for Undergraduate Chemistry, Published by HBCSE, April 2009.
4. Ladage, S., Narvekar, S. and Sen, I. (2009). *Challenging Experiments in Chemistry*, published by HBCSE, April 2009.
5. Mishra K. K., Chaubey N. P. , Kharatmal M. and Sushma (2009). Peoples Science Education Abstracts", on 'Science Education in India', Volume II.
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17. The following books in Marathi are co-edited by Prof. H. C. Pradhan (with Dr. Bal Phondke) for Y.C. Maharashtra Open University, Nashik. These are textbooks on science education under their M.Ed. programme (2008).
 - *Science Education – Part 1: Nature, Characteristics and Instructions*
 - *Science Education – Part 2: Practical, Communication and Scientific Attitude*
 - *Science Education – Part 3: Curriculum, Syllabus and Content-cum-Methodology*
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1. Deshmukh, N., and Agarkar S. C. (2007). *Krutipradhan Vidnyan Adhyapan* (Jaiwik Vidnyan) (in Marathi), March 2007, HBCSE, TIFR, Mumbai.
2. Gambhir, V. G. (ed) (2006). *In Harmony With Nature*, Teachers' handbook on learning for sustainable living, Bombay Natural History Society, Mumbai. Marathi edition of this book, *Maitry Nisargashi*, has also been brought out by BNHS.

3. Mishra, K. K. (2007). *Halka-Phulka Vigyan, Kaksha- 4, Shikshak Pustika* (ed), Hindi version of the Small Science, Class-4, Teacher's Book, HBCSE (TIFR) p. 354, March.
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7. Pradhan, H. C. (2007). *Vidnyan, Swaroop ani Pailoo, A Collection of Essays*, HBCSE, Mumbai, January (Foreword by B. M. Udgaonkar)
8. Ramadas, J., (co-author) (2006). *Report of the Working Group on International Collaboration in the Evaluation of Inquiry-Based Science Education Programs* (Ed. Wynne Harlen and Jorge E. Allende), Santiago, Chile: Inter-Academy Panel.
9. Ramadas, J., & S. Chunawala (Editors) (2006). *Research Trends in Science, Technology and Mathematics Education*, Review talks delivered at the International Conference epiSTEME-1 (December 2004), Homi Bhabha Centre for Science Education, Tata Institute of Fundamental Research (May).
10. Vijapurkar, J. (2006). *Small Science*, Class V, Textbook, Oxford University Press., *Small Science*, Class V, Workbook, Oxford University Press, *Small Science Teachers' book*, on CD, Oxford University Press.

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1. N. D. Deshmukh, V. D. Lale, V. C. Sonawane and S. C. Agarkar (2005). *General Science Quiz*, Homi Bhabha Centre for Science Education, TIFR, Mumbai.
2. HBCSE faculty and Scientific Staff K. K. Mishra (2006). *Lok-Vigyan : Samakaleen Rachanayen*, Homi Bhabha Centre for Science Education (TIFR), p.152, First Edition, March.
3. Three booklet brought out by CBSE in collaboration with HBCSE:
 - a) *Guidelines for Mathematics Laboratory (Class X)*, CBSE (2006)
 - b) *Assessment of Practical Skills in Science and Technology (Class IX)*, CBSE (2005)
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3. Chunawala, S. I. (2003). Gender and Science; an exhibition booklet, HBCSE, Mumbai, December.
4. Kumar Arvind and Chitra Natrajan (2003). Atoms and Development, HBCSE.
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