

CONTENTS

Special Issue: The Indian Sugar Industry

Guest Editor: Dr. S. Solomon

EDITORIAL

Editorial	253
<i>S. Solomon</i>	

REVIEW ARTICLES

The Indian sugar industry: An overview	255
<i>S. Solomon</i>	
Sugarcane cultivation and sugar industry in India: Historical perspectives	266
<i>A.K. Shrivastava · A.K. Srivastava · S. Solomon · A. Sawnani · S.P. Shukla</i>	
Sugarcane varietal development programmes in India: An overview	275
<i>N.V. Nair</i>	
Agrotechnologies to enhance sugarcane productivity in India	281
<i>B. Sundara</i>	
Conventional and microirrigation systems in sugarcane agriculture in India	299
<i>D. Esther Shekinah · P. Rakkiyappan</i>	
Mechanization of sugarcane cultivation in India	310
<i>J. Singh · A.K. Singh · M.P. Sharma · P.R. Singh · A.C. Srivastava</i>	
Physio-biochemical and molecular approaches to enhance sucrose content in sugarcane: Indian initiatives.....	315
<i>A. Chandra</i>	
Biotechnological developments in sugarcane improvement: An overview	322
<i>P. Suprasanna · V.Y. Patade · N.S. Desai · R.M. Devarumath · P.G. Kawar · M.C. Pagariya · A. Ganapathi · M. Manickavasagam · K.H. Babu</i>	
Disease scenario and management of major sugarcane diseases in India	336
<i>R. Viswanathan · G.P. Rao</i>	
Strategies for effective dissemination of appropriate technologies to sugarcane growers in India.....	354
<i>T.R. Shanthi</i>	
Application of GPS and GIS in sugarcane agriculture	360
<i>C. Palaniswami · P. Gopalsundaram · A. Bhaskaran</i>	
Alternative sweeteners production from sugarcane in India: Lump sugar (jaggery).....	366
<i>J. Singh · R.D. Singh · S.I. Anwar · S. Solomon</i>	

FEATURE ARTICLES

Sugarcane marketing systems in India.....	372
<i>R.M. Singh</i>	
Advancement in sugar processing technologies in India emerging innovations	378
<i>B.S. Gurumurthy</i>	

REVIEW ARTICLES

Bio-fuel market scenario in India	394
<i>P. Murali · K. Hari</i>	
Sweet sorghum as feedstock for biofuel production: A review	399
<i>C.V. Ratnavathi · S.K. Chakravarthy · V.V. Komala · U.D. Chavan · J.V. Patil</i>	
Sugarcane by-products based industries in India.....	408
<i>S. Solomon</i>	

Further articles can be found at www.springerlink.com

Abstracted/Indexed in *Academic OneFile, CAB Abstracts, CAB International, Chemical Abstracts Service (CAS), CSA, Elsevier Biobase, EMBiology, Expanded Academic, Global Health, Google Scholar, Indian Science Abstracts, OCLC, SCOPUS, Summon by Serial Solutions*

Instructions for Authors for *Sugar Tech* are available at <http://www.springer.com/12355>