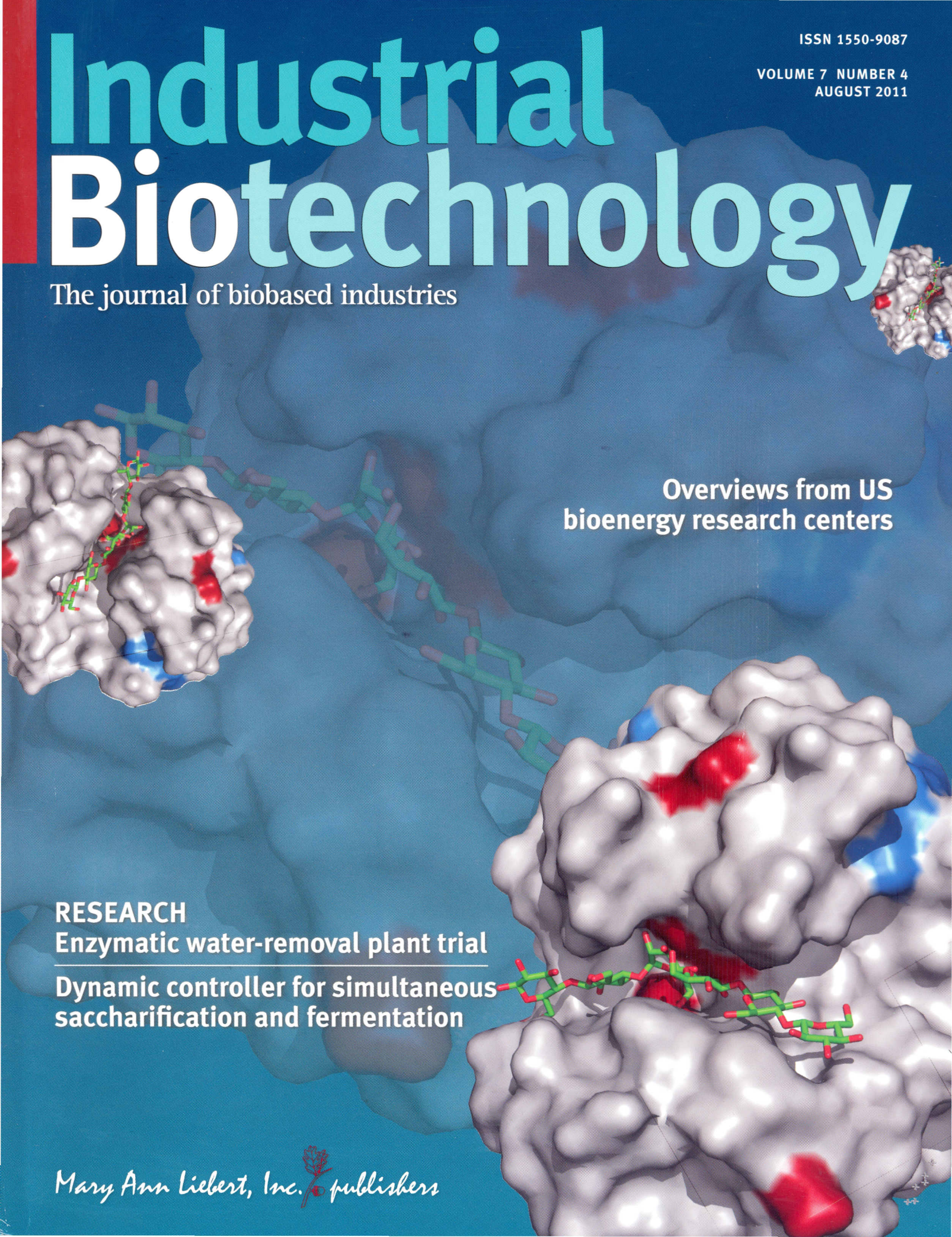


Industrial Biotechnology

The background of the cover features a large, semi-transparent molecular structure, possibly a protein or a complex of biomolecules, rendered in shades of blue and grey. Several smaller, more detailed molecular models are overlaid on this background. These models show various chemical structures, including what appear to be sugar chains (polysaccharides) and other organic molecules, colored in green, red, and blue. The overall aesthetic is scientific and high-tech.

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The journal of biobased industries

Overviews from US
bioenergy research centers

RESEARCH
Enzymatic water-removal plant trial

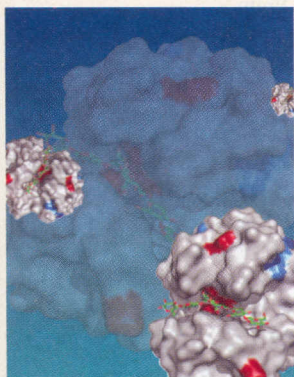
Dynamic controller for simultaneous
saccharification and fermentation

Mary Ann Liebert, Inc.  publishers

Industrial Biotechnology

VOLUME 7 NUMBER 4 • AUGUST 2011

contents



Molecular model of Spezyme cellobiohydrolase

Structure of EG3 (or EGIII, or Cel12A) with cellulose substrate modeled into active site. Positively charged regions of the protein are colored blue; negatively charged regions, red; cellulose substrate, green. Model is based on published studies (Sandgren et al, 2001, *J Mol Biol* 308:295-310, and Sandgren et al, 2004, *J Mol Biol* 342:1505-1517).

See Henriques et al, p. 298

PHOTO: Courtesy of Genencor/DuPont
Industrial Biosciences

DEPARTMENTS

225 News ... Science & business developments

242 Calendar ... Industry events

Commentary

248 USDA BioPreferred program update, July 2011

Ron Buckhalt

249 Why did USDA exclude mature market products from the BioPreferred Program?

Ron Buckhalt

251 POINT OF VIEW

Brazil, biofuels, and the ethic of sustainable development

John Sheehan

254 ROUNDTABLE

TECHNICAL UPDATES ON US BIOENERGY RESEARCH CENTERS

255 Great Lakes Bioenergy Research Center

Timothy Donohue

257 BioEnergy Science Center

Paul Gilna

259 Joint BioEnergy Institute

Jay Keasling

261 Energy Biosciences Institute

Heather Youngs

264 Q&A roundtable on US bioenergy research

Brian Davison, Timothy Donohue, Paul Gilna, Jay D. Keasling,
and Heather Youngs

Industrial Biotechnology

VOLUME 7 NUMBER 4 • AUGUST 2011

contents

267 OECD outlook on prospects in industrial biotechnology

Iain Gillespie, Robert C. Wells, Alexandre Bartsev, and James C. Philp

269 Industrial biotechnology in the UK: A funder's perspective

Merlin Goldman

272 The Federal Circuit Court of Appeals decides that isolated DNA claims are patentable

Tiffany A. Reiter and Ryan S. McQuade

276 Biofuel feedstock modifications: A review of US patent documents

Sandra P. Thompson

Industry Report

279 Genencor Household Sustainability Index: Consumer attitudes and adoption of biobased products

Genencor

286 Genencor commentary on Household Sustainability Index

Tjerk de Ruiter

Peer Review

288 RESEARCH

Reduction in energy usage during dry grind ethanol production by enhanced enzymatic dewatering of whole stillage: Plant trial, process model, and economic analysis

Ana Beatriz Henriques, David B. Johnston, Andrew J. McAloon, and Milorad P. Dudukovic

298 RESEARCH

Industrial evaluation of a dynamic controller for simultaneous saccharification and fermentation process

Ganti S. Murthy, Kent D. Rausch, David B. Johnston, ME Tumbleson, and Vijay Singh