



White Papers

- [*Technologies that Reduce Water Use in Cement and Concrete Help Global Industry Address Mounting Concerns of Water Scarcity*](#), July 2016. Vahit Atakan, Ph.D., Chief Scientist; Jitendra Jain, Ph.D., Senior Research Scientist; Deepak Ravikumar, Ph.D., Research Scientist; Larry McCandlish, Ph.D., Senior Research Scientist (Ret.); and Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Solidia Technologies®
- [*Performance of Calcium Silicate-based Carbonated Concretes vs. Hydrated Concretes under Freeze-thaw Environments*](#), July 1, 2015. Jitendra Jain, Ph.D., Senior Research Scientist, Vahit Atakan, Ph.D., Director, Research and Development, Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Solidia Technologies®, and Jan Olek, Ph.D., PE, Professor, and HyunGu Jeong, graduate student, Purdue University
- [*Water Savings in Concrete Made from Solidia Cement™*](#), April 24, 2014. Vahit Atakan, Ph.D., Director, Research and Development, Jitendra Jain, Ph.D., Senior Research Scientist, Deepak Ravikumar, Ph.D., Research Scientist, Larry McCandlish, Ph.D., Senior Research Scientist, and Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Solidia Technologies®
- [*Solidia Concrete™*](#), February 19, 2014. Jitendra Jain, Ph.D., Senior Research Scientist, Sada Sahu, Ph.D., Principal Scientist, and Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Solidia Technologies®
- [*Solidia Cement™*](#), December 17, 2013. Sada Sahu, Ph.D., Principal Scientist, and Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Solidia Technologies®

Published Articles

- [*Technologies that Reduce Water Use in Cement and Concrete Help Global Industry Address Mounting Concerns of Water Scarcity*](#), [*The Masterbuilder*](#), July 2016. Vahit Atakan, Ph.D., Chief Scientist; Jitendra Jain, Ph.D., Senior Research Scientist; Deepak Ravikumar, Ph.D., Research Scientist; Larry McCandlish, Ph.D., Senior Research Scientist (Ret.); and Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Solidia Technologies®
- [*Turning Carbon into a Solution for the Cement and Concrete Industry*](#), [*Carbon Market Review*](#), Inaugural issue, November 2016, pp. 32-33. Tom Schuler, President and CEO, Solidia Technologies®
- [*Repositioning Concrete as a Material of the Future: Solidia Technologies Transforms CO₂ into a Profitable Solution for Industry*](#), [*Institute of Concrete Technology Yearbook 2015*](#), December 2015. Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Vahit Atakan, Ph.D., Director, Research and Development, Sada Sahu, Ph.D., Principal Scientist, and Devin Patten, Project Manager, Technology Deployment, Solidia Technologies®
- [*CO₂- Reducing Cement Based on Calcium Silicates*](#), Presented at the 14th International Congress on the Chemistry of Cement, October 2015. Sada Sahu, Ph.D., Principal Scientist, Sean Quinn, Research Engineer, Vahit Atakan, Ph.D., Director, Research and Development, Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Solidia Technologies®
- [*Reducing the Clinker Factor*](#), [*World Cement*](#), September 2015, pp. 48-54. Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Solidia Technologies®

- *Performance of Calcium Silicate-based Carbonated Concretes vs. Hydrated Concretes under Freeze-thaw Environments*, The Masterbuilder, July 2015, pp. 66-68. Jitendra Jain, Ph.D., Senior Research Scientist, Vahit Atakan, Ph.D., Director, Research and Development, and Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Solidia Technologies®; and Jan Olek, Ph.D., PE, Professor, and HyunGu Jeong, graduate student, Purdue University
- *New CO₂-Curing Technology for Concrete*, CryoGas International, May 2015, pp.28-29. Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Solidia Technologies®, and Andreas Opfermann, Ph.D., Head of Clean Energy and Innovation Management, Linde
- *Driving Innovation that Works for Industry: Transforming CO₂ into a Profitable Solution for Cement and Concrete*, World Cement, April 2015, pp. 71-76. Nicholas DeCristofaro, Ph.D., Chief Technology Officer, and Vahit Atakan, Ph.D., Director, Research and Development, Solidia Technologies®
- *Exploring the Chemical Properties and Performance Results of Sustainable Solidia Cement™ and Solidia Concrete™ – Part II*, The Masterbuilder, March 2015, pp.116-124. Nicholas DeCristofaro, Ph.D., Chief Technology Officer, and Sada Sahu, Ph.D., Principal Scientist, Solidia Technologies®
- *Driving Sustainable Innovation to Market: It Can't Just Be Green, It Has to Be Better*, Sustainable Business Magazine, March 2015, pp. 4-5. Tom Schuler, CEO, Solidia Technologies®
- *Exploring the Chemical Properties and Performance Results of Sustainable Solidia Cement™ and Solidia Concrete™ – Part I*, The Masterbuilder, February 2015, pp. 82-88. Nicholas DeCristofaro, Ph.D., Chief Technology Officer, and Sada Sahu, Ph.D., Principal Scientist, Solidia Technologies®
- *Sustainable Alternatives*, International Cement Review, February 2015, pp. 90-91. Vahit Atakan, Ph.D., Director, Research and Development, Sada Sahu, Ph.D., Principal Scientist, and Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Solidia Technologies®
- *CO₂-curing Technology for Concrete*, Carbon Capture Journal, November/December 2014, pp.13-15. Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Solidia Technologies®, and Andreas Opfermann, Ph.D., Head of Clean Energy and Innovation Management, Linde
- *Curing Concrete with Carbon*, Concrete Engineering International, July/August 2014, pp. 32-34. Nick DeCristofaro, Ph.D., Chief Technology Officer, Vahit Atakan, Ph.D., Director, Research and Development, and Sada Sahu, Ph.D., Principal Scientist, Solidia Technologies®
- *Why CO₂ Matters – Advances in a New Class of Cement*, ZKG International, March 2014. Vahit Atakan, Ph.D., Director, Research and Development, Sada Sahu, Ph.D., Principal Scientist, Sean Quinn, Research Engineer, Xudong Hu, Ph.D., Senior Research Scientist, and Nicholas DeCristofaro, Ph.D., Chief Technology Officer, Solidia Technologies®
- *CO₂-Reducing Cement*, World Cement, January 2014, pp. 71-74. Nicholas DeCristofaro, Ph.D., Chief Technology Officer, and Sada Sahu, Ph.D., Principal Scientist, Solidia Technologies®

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