

## Cements Division Brunauer Award

Year (PUB)	Recipients	Paper Title
2016	Sungchul Bae, Rae Taylor, David Shapiro, Peter Denes, John Joseph, Rich Celestre, Stefano Marchesini, Howard Padmore, Tolek Tyliczszak, Tony Warwick, David Kilcoyne, Pierre Levitz, Paulo J. M Monteiro	Soft X-ray Ptychographic Imaging and Morphological Quantification of Calcium Silicate Hydrates (C–S–H)
2015	Hamed M. Kayello; Naresh K. R. Tadisina; Natalia Shlonimskaya; Joseph J. Biernacki; Donald P. Visco Jr.	An Application of Computer-Aided Molecular Design (CAMD) Using the Signature Molecular Descriptor  Part 1. "Identification of Surface Tension Reducing Agents and the Search for Shrinkage Reducing Admixtures", Journal of the American Ceramic Society, 97 (2) 365-377 (2014)
	Natalia Shlonimskaya; Joseph J. Biernacki; Hamed M. Kayello; Donald P. Visco Jr.	Part 2. "Evaluating Newly Identified Surface Tension-Reducing Substances for Potential Use as Shrinkage-Reducing Admixtures", Journal of the American Ceramic Society, 97 (2) 378-385 (2014)
2014	No Award Given	
2013	Jeffrey J. Thomas	The Instantaneous Apparent Activation Energy of Cement Hydration Measured Using a Novel Calorimetry-Based Method
2009	Krassimir Garbev Günter Beuchle Peter Stemmermann Leon Black Marc Bornefeld	"Cell Dimensions and Composition of Nanocrystalline Calcium Silicate Hydrate Solid Solutions. Part 2: X-Ray and Thermogravimetry Study"
2008	Jeffrey J. Thomas	"A New Approach to Modeling the Nucleation and Growth Kinetics of Tricalcium Silicate"
2007	John J. Valenza II George W. Scherer	"Mechanism for Salt Scaling"
2006	Not Awarded	
2005	Elena Bonaccorsi Stefano Merlino	"The Crystal Structure of Tobermorite 14A (Plombierite), a C-S-H Phase"

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	Anthony Kampf	
<b>2004</b>	Vanessa K. Peterson Brett A. Hunter Abhi Ray	"Tricalcium Silicate T1 and T2 Polymorphic Investigations: Rietveld Refinement at Various Temperatures Using Synchrotron Powder Diffraction"
<b>2003</b>	Valeri S. Harutyunyan Eduard S. Abovyan Paulo J. M. Monteiro Vahram P. Mkrtychyan Minas K. Balyan Ashoi P. Aivazyan	"Xray Diffraction Investigations of Microstructure of Calcium Hydroxide Crystallites in the Interfacial Transition Zone of Concrete"
<b>2002</b>	Hua Ai J. Francis Young George Scherer	"Thermal Expansion Kinetics: Methods to Measure Permeability of Cementitious Materials: II, Application to Hardened Cement Pastes"
<b>2001</b>	Glen H. Kirby Jennifer A. Lewis	"Rheological Property Evolution in Concentrated Cement - Polyelectrolyte Suspensions"
<b>2000</b>	George W. Scherer	"Measuring Permeability of Rigid Materials by a Beam-Bending Method: I, Theory"
<b>1999</b>	Ping Yu R. James Kirkpatrick Brent Poe Paul McMillan Xiandong Cong	"Structure of Calcium Silicate Hydrate (C-S-H): Near-, Mid-, and Far-Infrared Spectroscopy"
<b>1998</b>	D.P. Bentz	"Three-Dimensional Computer Simulation of Portland Cement Hydration and Microstructure Development"
<b>1997</b>	D. Viehland J.-F. Li I.-J. Yuan Z. Xu	"Mesostructure of Calcium Silicate Hydrate Gels in Portland Cement Paste: Short Range Ordering, Nanocrystallinity, and Local Compositional Order"
<b>1996</b>	Stephen Kwan Judith LaRosa Michael W. Grutzeck	" <sup>29</sup> Si and <sup>27</sup> Al MASNMR Study of Stralingite"

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1995	Norifumi Isu Satoshi Teramura Hideki Ishida Takeshi Mitsuda	"Mechanical Property Evaluation during Autoclaving Process of Aerated Concrete Using Slag:II, Fracure Toughness & Microstructure"
1994	Ian G. Richardson A.R. Brough R. Brydson G. Groves C. Dobson	"Location of Aluminum in Substituted Calcium Silicate Hydrate (C-S-H) Gels as Determined by $^{29}\text{Si}$ and $^{27}\text{Al}$ NMR and EELS"
1993	Hideki Ishida Katsumi Mabushi Kaori Sasaki Takeshi Mitsuda	"Low Temperature Synthesis of $\beta\text{-Ca}_2\text{SiO}_4$ from Hillebrandite"
1992	Ellis Gartner David F. Myers	"Influence of the Ferrite Phase on Cement Strength Development"
1991	Oludele O. Popoola Waltraud M. Kriven J. Francis Young	"Microstructural and Microchemical Characterization of a Calcium Aluminate - Polymer Composite (MDF Cement)"
1990	A. Zurg I. Odler F. Pfiemann K. Berghofer	"Autoclave Free Formation of a Hemihydrate Gypsum"
1989	No Award	
1988	Waltraud M. Kriven Chin-Jong Chan J. Francis Young	"Analytical Electron Microscopic Studies of Doped Dicalcium Silicates"
1987	P. Brown	"The Effect of Particle Size Distribution on the Kinetics of $\text{C}_3\text{S}$ Hydration"