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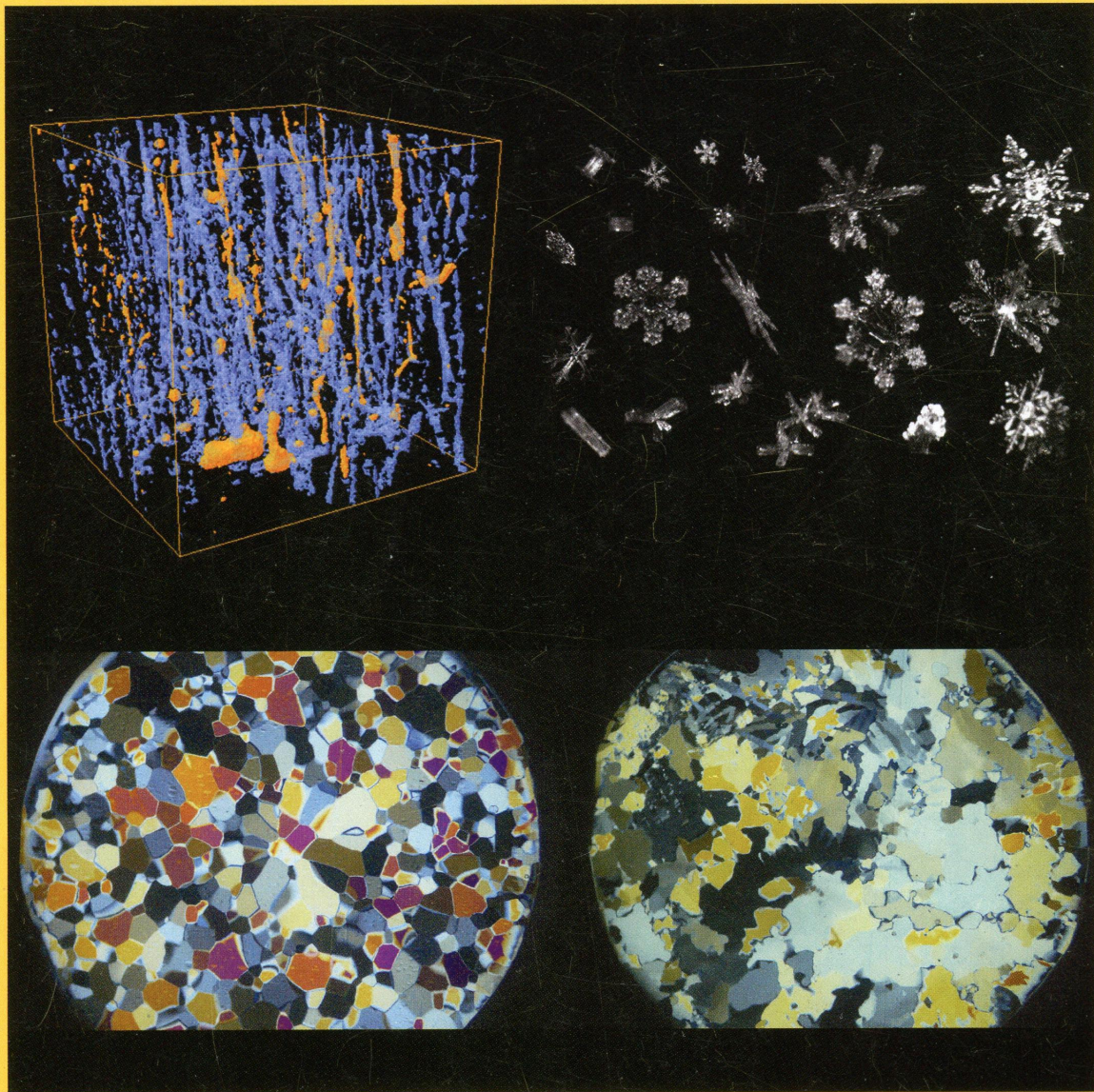
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THE JOURNAL OF PHYSICAL CHEMISTRY

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**PHYSICS AND
CHEMISTRY
OF ICE 2014**

X-ray Micro-Computed
Tomography Image of
Sea Ice, Snowflakes
in Free-Fall, and the
Effect of Sulfuric
Acid on the Fabric
Development in
Polycrystalline Ice
under Strain

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ON THE COVER: Top left: Brine channels (blue) and air bubbles (orange) in sea ice, reconstructed using images collected using X-ray micro-computed tomography. Cube is 7.5 mm in length on each side. Credit: Ross Lieb-Lappen, Thayer School of Engineering, Dartmouth College. Top Right: Snowflakes in free-fall: collage of images taken with the Multi Angle Snowflake Camera at Alta, Utah. Credit: Tim Garrett, Department of Atmospheric Sciences, University of Utah, and Kevin Hammonds, Thayer School of Engineering, Dartmouth College. Bottom: Effect of 1 ppm sulfuric acid on the fabric development in polycrystalline ice under 10% strain at -10°C . Images are approximately 5 cm wide. Credit: Kevin Hammonds, Thayer School of Engineering, Dartmouth College. This special section was organized by Guest Editors Rachel W. Obbard and Ian Baker.

SPECIAL SECTION: PHYSICS AND CHEMISTRY OF ICE 2014

Guest Editors: Rachel W. Obbard and Ian Baker

Special Section Preface

13323 DOI: 10.1021/jp507860k
Preface to the 13th Physics and Chemistry of Ice Conference (PCI-2014)
Rachel W. Obbard* and Ian Baker

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Yuanfei Bi and Tianshu Li*

13333 DOI: 10.1021/jp503552w
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13341 DOI: 10.1021/jp5039706
Hidden Asymmetry of Ice
Mikhail V. Kirov*

13349 DOI: 10.1021/jp503997t
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DOI: 10.1021/jp504128m

Proton Diffusion in the Hexafluorophosphoric Acid Clathrate Hydrate

Laura Bedouret, Patrick Judeinstein, Jacques Ollivier, Jérôme Combet, and Arnaud Desmedt*

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DOI: 10.1021/jp504134v

Effect of Temperature and Potassium Chloride Impurity on the Relative $\langle 10\bar{1}0 \rangle$ Tilt Grain Boundary and Surface Free Energies in Ice

Carlos L. Di Prinzio,* Esteban Druetta, and Olga B. Nasello

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DOI: 10.1021/jp5042487

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DOI: 10.1021/jp5044046

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Xiangrui Kong,* Erik S. Thomson, Panos Papagiannakopoulos, Sofia M. Johansson, and Jan B. C. Pettersson*

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DOI: 10.1021/jp5049502

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13435 DOI: 10.1021/jp506264k
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13440 DOI: 10.1021/jp507789z
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- 13544 DOI: 10.1021/jp509134d
 γ S-Crystallin Proteins from the Antarctic Nototheniid Toothfish: A Model System for Investigating Differential Resistance to Chemical and Thermal Denaturation
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- 13554 DOI: 10.1021/jp509356k
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- 13564 DOI: 10.1021/jp509459y
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- 13573 DOI: 10.1021/jp509697n
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- 13744 DOI: 10.1021/jp508635n
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