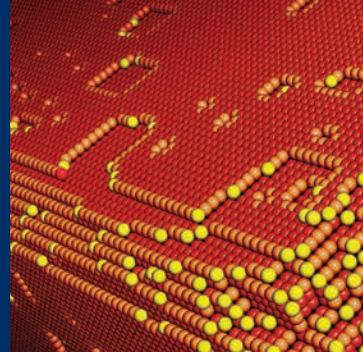


Elements

An International Magazine of Mineralogy, Geochemistry, and Petrology



Volume 9, Number 3 • June 2013

The Mineral–Water Interface

Guest Editors: **Christine V. Putnis and Encarnación Ruiz-Agudo**

ABOUT THE COVER: Model simulation of a dissolving crystal surface showing the detail of a corner and monolayer dissolution pits (see page 185). Dissolution begins preferentially at these mineral surface sites and is a process continually occurring at the surface of the Earth where aqueous fluids are abundantly available.

Elements is published jointly by the Mineralogical Society of America, the Mineralogical Society of Great Britain and Ireland, the Mineralogical Association of Canada, the Geochemical Society, The Clay Minerals Society, the European Association of Geochemistry, the International Association of GeoChemistry, the Société Française de Minéralogie et de Cristallographie, the Association of Applied Geochemists, the Deutsche Mineralogische Gesellschaft, the Società Italiana di Mineralogia e Petrologia, the International Association of Geoanalysts, the Polskie Towarzystwo Mineralogiczne (Mineralogical Society of Poland), the Sociedad Española de Mineralogia, the Swiss Society of Mineralogy and Petrology, the Meteoritical Society, and the Japan Association of Mineralogical Sciences. It is provided as a benefit to members of these societies.

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Publications mail agreement no. 40037944

Printed in USA

ISSN 1811-5209 (print)
ISSN 1811-5217 (online)

www.elementsmagazine.org

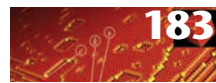
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The Mineral–Water Interface: Where Minerals React with the Environment

Christine V. Putnis and Encarnación Ruiz-Agudo



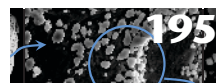
A Stochastic Treatment of Crystal Dissolution Kinetics

Andreas Lüttge, Rolf S. Arvidson, and Cornelius Fischer



How Ions and Molecules Organize to Form Crystals

Henry H. Teng



Environmental Remediation by Crystallization of Solid Solutions

Manuel Prieto, José Manuel Astilleros, and Lurdes Fernández-Díaz



Control of Crystal Nucleation and Growth by Additives

Carlos Rodriguez-Navarro and Liane G. Benning



Virtual Probes of Mineral–Water Interfaces: The More Flops, the Better!

Andrew G. Stack, Julian D. Gale, and Paolo Raiteri

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