

**T**his first comprehensive overview of the modern aspects of biomineralization represents life and materials science at its best: Bioinspired pathways are the hot topics in many disciplines and this holds especially true for biomineralization.

Here, the editors – well-known members of associations and prestigious institutes – have assembled an international team of renowned authors to provide first-hand research results.

This second volume deals with biometric model systems in biomineralization, including the biomineral approach to bionics, bioinspired materials synthesis and bio-supported materials chemistry, encapsulation and the imaging of internal nanostructures of biominerals.

An interdisciplinary must-have account, for biochemists, bioinorganic chemists, lecturers in chemistry and biochemistry, materials scientists, biologists, and solid state physicists.



**Peter Behrens** studied chemistry at the University of Hamburg, Germany, where he received his PhD. He performed post-doc work at the University of Constance. In 1994 he was appointed Professor for Inorganic Chemistry at the Ludwig-Maximilians-University of Munich. In 1998, he became a full professor at the Leibniz University Hanover. He is a member of the Braunschweig Scientific Society and was President of the German Zeolite Association. He acts as a reviewer for several national and international foundations and journals. Professor Behrens' research interests include biomineralization, synthesis methods for materials, especially porous materials, biomaterials, hybrid and composite materials. From 2001 to 2007, Professor Behrens has acted as a coordinator for the Priority Research Program "Principles of Biomineralization" of the German Science Foundation.



**Edmund Baeuerlein** was born in 1932 in Höchst (Germany). He studied chemistry in Saarbrücken, Munich and Frankfurt (Germany) and he completed his PhD with Prof. Th. Wieland on biologically relevant hydroquinones. He then moved to the Max-Planck-Institut for medical research, Heidelberg (Germany), as a research group leader. He completed his Habilitation at the chemistry department of the University of Heidelberg in 1974, where he was appointed Professor in 1980. In 1984 he moved to the Max-Planck-Institut for biochemistry in Munich, department of membrane biochemistry, where he was research group leader until 1997. Apart from having published numerous scientific papers, he edited in 2000 a first book on Biomineralization – From Biology to Biotechnology and Medical Application and in 2004 a second one on Biomineralization – Progress in Biology, Molecular Biology and Application. Both editions were published with the intention to direct attention to the rapidly growing importance of molecular biology methods in biomineralization.



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