

Crystallography, Past, Present, Future

CHIMIA NEWS

- 1 Editorial Board
- 1 Contents 2014
- 1 On-Line Availability
- 1 Open Access Publishing
- 1 Plagiarism
- 2 Instructions to Authors 2014

EDITORIAL

- 6 Crystallography in Switzerland and elsewhere from 1912 to 2013 and beyond
H.-B. Bürgi, K. Fromm
- 8 'Seeing' Atoms: The Crystallographic Revolution
D. Schwarzenbach
- 14 Crystallographic Services and Technology Support for Industry
A. Neels, O. Sereda, T. Bandi, X. Maeder*
- 19 Solving the Structures of Polycrystalline Materials: from the Debye-Scherrer Camera to SwissFEL
L. B. McCusker, C. Baerlocher*
- 26 Absolute-Structure Determination: Past, Present and Future
H. D. Flack
- 31 Crystallographic Approaches for the Investigation of Molecular Materials: Structure Property Relationships and Reverse Crystal Engineering
P. Macchi
- 38 Complex Hydrides – When Powder Diffraction needs Help
*P. Schouwink, R. Černý**
- 45 Quasicrystals – A Paradigm Shift in Crystallography?
W. Steurer
- 49 Stereochemistry of 2D Molecular Crystallization
K.-H. Ernst
- 54 Biocrystallography in Switzerland: Achievements and Future Perspectives
M. G. Grütter
- 60 Crystallography beyond the Bragg Peaks
T. Weber
- 66 Coherent X-ray Imaging: Bridging the Gap between Atomic and Micro-scale Investigations
M. Stampanoni, A. Menzel, B. Watts, K. S. Mader, O. Bunk*
- 73 Science Opportunities at the SwissFEL X-ray Laser
*B. D. Patterson, P. Beaud, H. H. Braun, C. Dejoie, G. Ingold, C. Milne, L. Patthey, B. Pedrini, J. Szlachentko, R. Abela**

COLUMNS

- 79 CONFERENCE REPORT
Olten Meeting 2013 – Bioinformatics and Bioprocess Engineering
E. Heinzelmann
- 83 BIOTECHNET SWITZERLAND
Investigating the Antioxidant Capacity of Coffee!
- 85 SWISS SCIENCE CONCENTRATES
Prepared by
C. Daepen, A. von der Höh, V. Köhler, R. Reuter, M. Spulber, T. R. Ward
- 86 HIGHLIGHTS OF ANALYTICAL SCIENCES IN SWITZERLAND
OMA & OPA – A Software Tool for Mass Spectrometric Sequencing of Nucleic Acids
*Y. Hari, S. R. Stucki, A. Nyakas, L. Blum, J.-L. Reymond, S. Schürch**
- 87 POLYMER AND COLLOID HIGHLIGHTS
Colloidal Routes to Macroscopic Monoliths of Porous Titania and Copper
*N. Kränzlin, F. J. Heiligtag, M. Niederberger**

SWISS CHEMICAL SOCIETY

- 88 Annual Report 2013
- 99 General Assembly 2014
- 100 Society News
- 100 A warm welcome to our new members!
- 101 Happy Birthday!
- 102 Division für Analytische Wissenschaften: Weiterbildung Analytik

INFORMATION

- 103 News
- 103 Conferences/Workshops/Symposia
- 104 Lectures

CHIMIA REPORT/COMPANY NEWS

- 107 Markt, Apparate, Chemikalien und Dienstleistungen