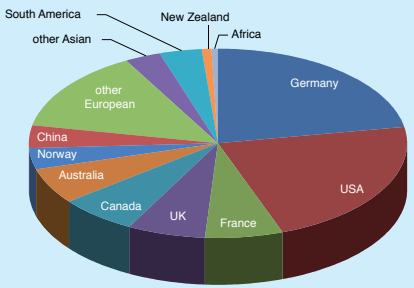
GeoReM users worldwide



More information in:

Vol. 35 – N° 4 12 11 p. 397–429
GEOSTANDARDS and GEOANALYTICAL RESEARCH

Determination of Reference Values for NIST SRM 610–617 Glasses Following ISO Guidelines

Klaus Peter **Jochum** (1)*, Ulrike **Weis** (1), Brigitte **Stoll** (1), Dmitry **Kuzmin** (1, 2), Qichao **Yang** (1), Ingrid **Raczek** (1), Dorrit E. **Jacob** (3), Andreas **Stracke** (4, 5), Karin **Birbaum** (6), Daniel A. **Frick** (6), Detlef **Günther** (6) and Jacinta **Enzweiler** (7)

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Reference materials in geochemistry and environmental research and the GeoReM database

Klaus Peter Jochum *, Uwe Nohl
Max-Planck-Institut für Chemie, Postfach 3060, Mainz, Germany

Vol. 35 – N° 4 12 11 p. 485–488
GEOSTANDARDS and GEOANALYTICAL RESEARCH

Geostandards and Geoanalytical Research Bibliographic Review 2010

Klaus Peter **Jochum** (1)*, Xiaohong **Wang** (2), Uwe **Nohl** (1), Steffen **Schmidt** (1), Beate **Schwager** (1), Brigitte **Stoll** (1), Qichao **Yang** (1) and Ulrike **Weis** (1)

(1) Max Planck Institute for Chemistry, P.O. Box 3060, 55020 Mainz, Germany
(2) National Research Centre for Geoanalysis, Chinese Academy of Geological Sciences, 26 Baiwanzhuang Dajie, 100037 Beijing, China
* Corresponding author. e-mail: k.jochum@mpic.de

2009 年 8 月 岩 矿 测 试 Vol. 28, No. 4
August 2009 ROCK AND MINERAL ANALYSIS 311 – 315
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地球化学与环境样品分析标准物质和 GeoReM 数据库

JOCHUM Klaus Peter[1], 王晓红[2]
(1. 德国马 – 普化学所, 美因兹 55128, 德国; 2. 国家地质实验测试中心, 北京 100037)

GeoReM Team
(from left to right)

http://georem.mpch-mainz.gwdg.de

91500 zircon BCR-1 NIST SRM 987 KL2-G JR-1

GeoReM Geological Reference Materials

MAX-PLANCK-GESELLSCHAFT

is cross-linked with

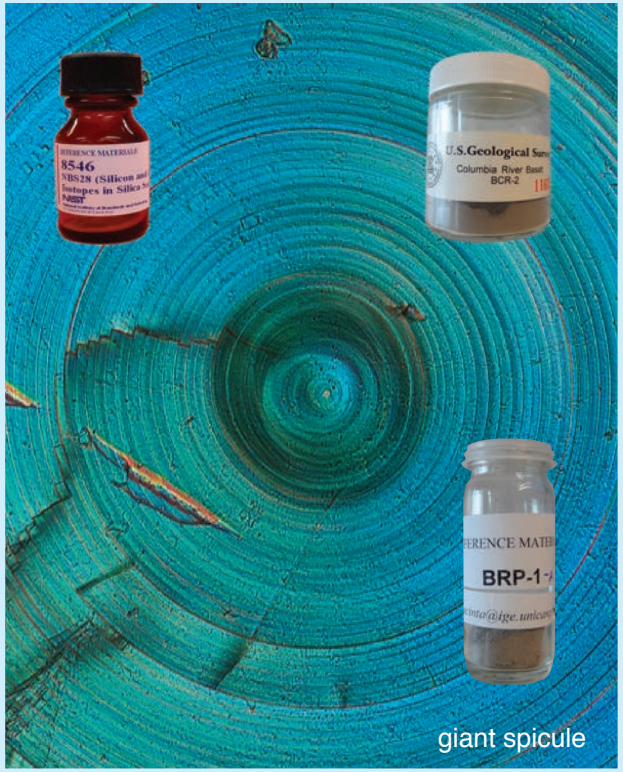
GEOROC
Geochemistry of Rocks of the Oceans and Continents
Max-Planck-Gesellschaft

http://georoc.mpch-mainz.gwdg.de

GeoReM Geological Reference Materials

Database:

http://georem.mpch-mainz.gwdg.de



Max-Planck-Institut
für Chemie
Mainz, Germany
email: k.jochum@mpic.de

MAX-PLANCK-INSTITUT FÜR CHEMIE
MAX-PLANCK-GESELLSCHAFT

Six different search strategies are possible:

Samples or Materials (published Values)

Ranges of published data (overview)
List of analytical data and metadata

Samples (GeoReM preferred Values)

Reference values for frequently used reference materials

Chemical Criteria

Search based on chemistry

Chemical Criteria based on Bibliography

Chemical search by authors or publications

Bibliography

Bibliographic search by author, by journal and by keywords

Methods or Institutions

Lists of methods used in selected institutions
Lists of institutions using certain techniques

Send your data

Fast data input

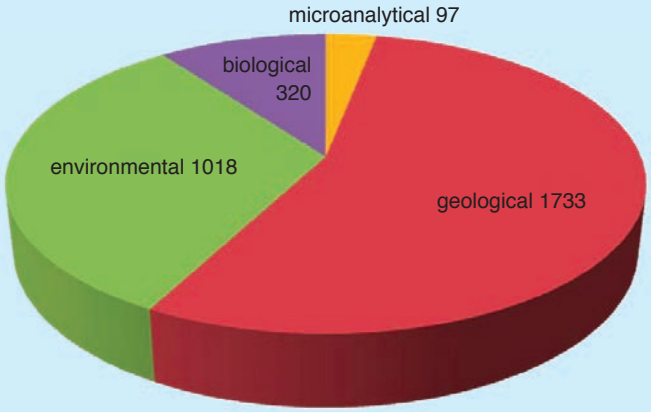
GeoReM is a Max Planck Institute database for reference materials of geological and environmental interest, such as rock powders, synthetic and natural glasses as well as mineral, isotopic, biological, river water and seawater reference materials.

GeoReM contains published analytical data and compilation values (major and trace element concentrations, radiogenic and stable isotope ratios).

GeoReM contains all important metadata about the analytical values such as uncertainty, analytical method and laboratory. Sample information and references are also included.

GeoReM contains more than 2,550 reference materials, more than 28,600 analyses from more than 6,100 papers, and preferred analytical values (State:09/01/2012).

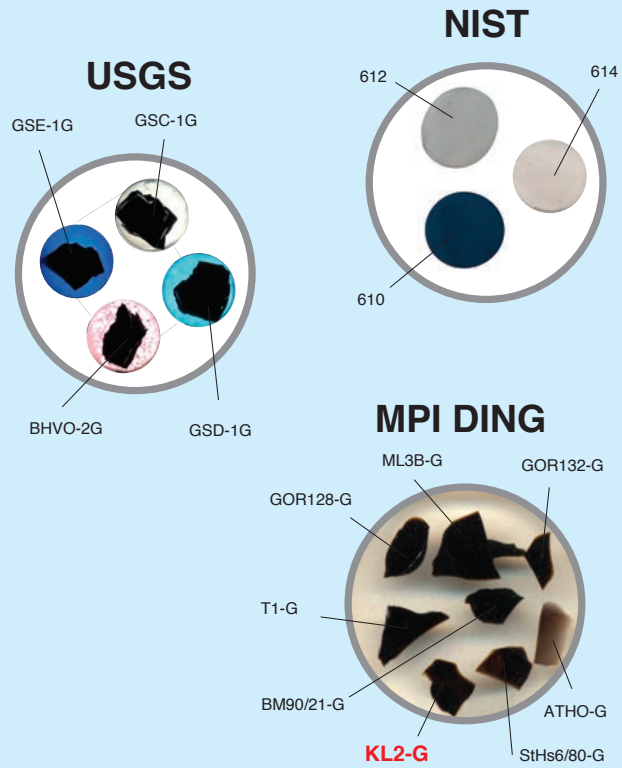
Reference materials in GeoReM



Most frequently requested reference materials of different categories

geological	microanalytical	mineral	environmental	biological
BHVO-2 BCR-2 BHVO-1 BIR-1 BCR-1 AGV-1	NIST SRM610 NIST SRM612 BCR-2G KL-2G BHVO-2G ATHO-G	91500 Zircon	NASS-5 SLRS-4 MESS-3 PACS-2 NIST SRM2711 LKSD-1	JCp-1

Microanalytical reference materials



Overview of Analytical Data

U	0.3 - 1.1 µg/g 34 values (compiled: 0.548 - 0.55 µg/g , 2 values)
V	206 - 465 µg/g 14 values (compiled: 309 - 370 µg/g , 2 values)
W	0.28 - 1.07 µg/g 12 values (compiled: 0.37 µg/g)
Y	21 - 33.6 µg/g 34 values (compiled: 25.4 - 26.8 µg/g , 2 values)
Yb	1.8 - 2.32 µg/g 37 values (compiled: 2.1 - 2.13 µg/g , 2 values)
Zn	85 - 123 µg/g 11 values (compiled: 110 - 112 µg/g , 2 values)
Zr	127 - 218 µg/g 39 values (compiled: 152 - 159 µg/g , 2 values)
143Nd/144Nd	0.51295 (compiled: 0.51295)
176Hf/177Hf	0.283109 (compiled: 0.283109)
206Pb/204Pb	18.974 - 19.2 11 values (compiled: 19.03)
207Pb/204Pb	15.581 - 15.78 11 values (compiled: 15.632)
207Pb/206Pb	0.8189 - 0.8248 19 values (compiled: 0.82146)
208Pb/204Pb	38.453 - 38.61 11 values (compiled: 38.524)
208Pb/206Pb	2.016 - 2.0278 19 values (compiled: 2.0243)
87Sr/86Sr	0.703517 (compiled: 0.703517)
d17O	4.31 ‰VSMOW (compiled: 4.31 ‰VSMOW)
d18O	8.63 ‰VSMOW (compiled: 8.63 ‰VSMOW)
d44/40Ca	-1.18 ‰IAPSO (: 0.67 ‰NIST915a) (compiled: 0.67 ‰NIST915a)
d44Ca/40Ca	0.65 - 0.73 ‰NIST915a 3 values
d7Li	4.1 ‰LSVEC (compiled: 4.1 ‰NIST8545)