

Dr Guil MALLMANN

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CV

Personal Information

Date of Birth: August 25, 1979
Place of Birth: Estrela RS, Brazil
Citizenship: Brazilian (Australian Permanent Resident)
Full Name: Guilherme Mallmann

Research Profile

I use experimental tools to simulate the high temperature and pressure conditions of planetary interiors with the aim of understanding fundamental petrological and geochemical processes. I am also interested in novel applications of micro-analytical techniques and synchrotron light in the characterization of natural and synthetic materials. Current research projects are focused on trace element partitioning, element speciation in magmatic systems, oxidation state of planetary interiors, basalt petrogenesis, highly siderophile elements, early Earth evolution, and core-mantle-crust differentiation.

Academic Background

- 11/2004 – 10/2008 Ph.D. Earth Sciences
The Australian National University, RSES (Canberra, Australia)
Area: Experimental petrology/geochemistry; *Thesis Title:* Mantle redox state and its effect on trace element partitioning during basalt petrogenesis; *Supervisor:* Hugh St. C. O'Neill; *Degree awarded:* 8 April 2009.
- 06/2002 – 05/2004 M.Sc. Earth Sciences
Federal University of Rio Grande do Sul – UFRGS (Porto Alegre, Brazil)
Area: Geochemistry; *Thesis Title:* Mantle processes beneath north Patagonia (Argentina): Petrographic, geochemical and isotopic evidences from mantle xenoliths [translated from Portuguese]; *Supervisors:* Farid Chemale Jr & Rommulo V. Conceição; *Degree awarded:* 26 January 2005.
- 03/1997 – 05/2002 B.Sc. Geology
Federal University of Rio Grande do Sul – UFRGS (Porto Alegre, Brazil)
First Class Honors; *Area:* Tectonics, geochemistry & geochronology; *Thesis Title:* A contribution to the geology of the Nico Pérez Terrane (Uruguay): Structural and Rb-Sr and Sm-Nd isotopic data [translated from Portuguese]; *Supervisor:* Farid Chemale Jr; *Degree awarded:* 27 May 2002.

Appointments

- 09/2010 – present FAPESP Junior Research Fellow
Institute of Geosciences, University of São Paulo (São Paulo, Brazil)
- 11/2008 – 06/2010 Postdoctoral Research Assistant
RSES, The Australian National University (Canberra, Australia)

10/2009 – 12/2009	Interim Technical Officer (RSES Laser-ablation Q-ICP-MS Laboratory) RSES, The Australian National University (Canberra, Australia)
08/2007 – 01/2008	Casual Technical Assistant SHRIMP Geochronology Division, Geoscience Australia (Canberra, Australia)

Awards, Small Grants, and Fellowships

04/2011 – 04/2011	IUGG 2011 Conference (Melbourne) Support Grant; AU\$ 1,890
09/2010 – 08/2014	FAPESP Junior Research Fellowship; R\$ 69,000/yr.
10/2007 – 10/2007	ANU Vice-Chancellor Travel Grant; AU\$ 1,250
10/2004 – 09/2008	Brazilian Research Council Ph.D. Scholarship (stipend & tuition); AU\$ 46,000/yr.
06/2002 – 02/2004	Brazilian Research Council M.Sc. Scholarship; US\$ 5,500/yr.
09/1999 – 06/2002	Brazilian Research Council Undergraduate Scholarship; US\$ 1,600/yr.
04/1999 – 08/1999	PROPESq-UFRGS Undergraduate Scholarship; US\$ 1,600/yr.
09/1997 – 02/1999	Brazilian Research Council Undergraduate Scholarship; US\$ 1,600/yr.

Research Funding

09/2010 – 08/2014	São Paulo Research Foundation (FAPESP); Project: <i>Experimental studies of planetary accretion and differentiation</i> ; Principal Investigator: G. Mallmann; Collaborators: H.St.C. O'Neill, A.J. Berry, V.A. Janasi, S.M. Vlach; Funding: ~US\$ 325,000.
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Allocated Time at Research Facilities

Diamond Light Source, UK	April 2011; 4 days at beamline I18; Project: New insights into basaltic melts from the oxidation state of iron; Research Team: Berry A.J. (PI), Mallmann G., O'Neill H.St.C.
	July 2010; 4 days at beamline I18; Project: Partial melting of the Earth's mantle and the oxidation state of iron in basaltic glasses; Research Team: Berry A.J. (PI), Mallmann G., O'Neill H.St.C.
European Synchrotron Radiation Facility, France	April 2010; 6 days at beamline ID26; Project: The oxidation state of vanadium in geological melts; Research Team: Berry A.J. (PI), Foran G., Glatzel P., Mallmann G., O'Neill H.St.C.
Australian Synchrotron	May 2009; 3 days at the X-ray microspectroscopy Beamline; Project: Oxidation state of Fe in basaltic glasses; Research Team: O'Neill H.St.C. (PI), Mallmann G., Berry A.J.
	November 2008; 6 days at ANBF (Photon Factory, Japan); Project: The oxidation state and coordination of transition metals in silicate melts; Research Team: O'Neill H.St.C. (PI), Berry A.J., Mallmann G., Scott D.
Argonne Photon Source, USA	February 2008; 4 days at beamline 13ID-C; Project: XANES study of the oxidation state of vanadium in silicate glasses; Research Team: O'Neill H.St.C. (PI),

Skills & Experience

Fieldwork	Precambrian terranes in South America (Brazil and Uruguay); Tertiary volcano-sedimentary units in the Argentinean Precordillera (Andes); Recent plateau basalts containing ultramafic nodules (Patagonia, Argentina); Plutonic and volcano-sedimentary units in the South Shetland Islands (Antarctica); Ophiolite in New Caledonia; Hawaiian volcanoes.
Experimental	One atmosphere gas mixing furnaces; Piston-cylinder high-pressure apparatus; Multi-anvil high-pressure apparatus.
Analytical	Electron probe micro analyzer (EPMA); Laser-ablation inductively-coupled plasma mass spectrometry (LA-ICP-MS); Secondary ion mass spectrometry (SIMS); Thermal ionization mass spectrometry (TIMS); X-ray diffractometry (XRD); X-ray fluorescence (XRF); Fourier transformed infrared spectroscopy (FTIR); X-ray absorption spectroscopy (XAS) - especially XANES.

Professional Responsibilities

09/2010 – Present	In charge of setting up a laboratory for experimental studies in petrology and geochemistry in the Institute of Geosciences at the University of São Paulo (Brazil). Details at www.igc.usp.br/experimental .
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Teaching Experience

04/2011 – 04/2011	Experimental petrology and geochemistry, undergraduate level, 2 hours <i>University of São Paulo – USP, Brazil</i>
10/2004 – 11/2004	Basalt petrogenesis, undergraduate level, 10 hours <i>Rio Grande do Sul Federal University – UFRGS, Brazil</i>

Peer-Review Service

2008x1, 2010x1	<i>Geochimica et Cosmochimica Acta</i>
2010x1, 2013x1	<i>Journal of Petrology</i>
2011x1	<i>Earth and Planetary Science Letters; Geology</i>
2012x1	<i>American Mineralogist</i>

Invited Presentations

12/2012	Incompatible elements in olivine: Using Sc, Y and V as temperature and redox monitors in basaltic magmas <i>AGU Fall Meeting, Invited talk, All about olivine!</i>
03/2012	V-Sc-Y oxythermobarometer for olivine-phyric basaltic rocks <i>Steinmann Institut, Universität Bonn, Germany</i>
09/2011	Understanding the deep Earth through experiments at extreme conditions <i>Australian National Nuclear Research and Development Organization (ANSTO), Sydney.</i>

09/2011	Understanding the deep Earth through experiments at extreme conditions <i>Department of Earth and Planetary Sciences, Macquarie University, Sydney.</i>
08/2011	Applications of synchrotron radiation in mineralogy, petrology and geochemistry <i>LNLS, Brazilian Synchrotron, Campinas, Brazil.</i>
04/2010	The oxidation state of terrestrial basalts and its link to the mantle <i>Institut für Mineralogy, Universität Muenster, Germany.</i>
03/2010	The oxidation state of terrestrial basalts revisited <i>Research School of Earth Sciences, Australian National University, Canberra.</i>
09/2009	The oxidation state of terrestrial basalts as recorded by vanadium <i>Department of Earth and Planetary Sciences, Macquarie University, Sydney.</i>
11/2007	The geochemical behavior of Re and Os at high-T and implications for interpreting isotope data <i>Geosciences Institute, University of São Paulo, São Paulo.</i>

Publications

Forthcoming Papers

- [01] Fonseca R.O.C., **Mallmann G.**, Sommer J., Sprung P., Heuser A., Speelmanns I., Blanchard H. Redox-controlled fractionation of tungsten relative to incompatible lithophile elements during mantle melting. Submitted to *Earth and Planetary Science Letters*, October 2012. * [in review](#)
- [02] Ávila J.N., Ireland T., Gyngard, F., Zinner E., **Mallmann G.**, Holden P., Amari S., The Ba isotopic compositions in large stardust SiC grains from the Murchison meteorite: A cautionary tale of unresolved mass interferences. Submitted to *Geochimica et Cosmochimica Acta*, November 2011. * [revised](#)
- [03] McKibbin S.J., O'Neill H.St.C., **Mallmann G.**, Halfpenny A. LA-ICP-MS mapping of olivine from the Brahin and Brehm meteorites: Complex elemental distributions in the pallasite olivine precursor. Submitted to *Geochimica et Cosmochimica Acta*, December 2011. * [revised](#)

Refereed Journal Papers

- [01] **Mallmann G.**, O'Neill H.St.C. (2013). Calibration of an empirical thermometer and oxybarometer based on the partitioning of Sc, Y and V between olivine and silicate melt. *Journal of Petrology*, Accepted for publication. Doi: 10.1093/petrology/egt001.
- [02] Fonseca R.O.C., Laurenz V., **Mallmann G.**, Lugué A., Hoehne N., Jochum K.P. (2012). New constraints on the genesis and long-term stability of Os-rich alloys in the Earth's mantle. *Geochimica et Cosmochimica Acta* 87, 227-242.
- [03] Chemale Jr F., **Mallmann G.**, Bitencourt M.F., Kawashita K. (2012). Time constraints on magmatism along the Major Gercino Shear Zone, southern Brazil: Implications for West Gondwana reconstruction. *Gondwana Research* 22, 184-199.
- [04] Fonseca R.O.C., **Mallmann G.**, O'Neill H.St.C., Campbell I.H., Laurenz V. (2011). Solubility of Os and Ir in sulfide melt: Implications for Re/Os fractionation during mantle melting. *Earth and Planetary Science Letters* 311, 339-350.
- [05] **Mallmann G.**, O'Neill H.St.C. (2009). The crystal/melt partitioning of V during mantle melting as a function of oxygen fugacity compared with some other elements (Al, P, Ca, Sc, Ti, Cr, Fe, Ga, Y, Zr and Nb). *Journal of*

- [06] **Mallmann G.**, O'Neill H.St.C., Klemme S. (2009). Heterogeneous distribution of phosphorus in olivine from otherwise well-equilibrated spinel peridotite xenoliths and its implications for the mantle geochemistry of lithium. *Contributions to Mineralogy and Petrology* 158, 485-504.
- [07] **Mallmann G.**, O'Neill H.St.C. (2007). The effect of oxygen fugacity on the partitioning of rhenium between crystals and silicate melt during mantle melting. *Geochimica et Cosmochimica Acta* 71, 2837-2857.
- [08] Fonseca R.O.C., **Mallmann G.**, O'Neill H.St.C., Campbell I.H. (2007). How chalcophile is rhenium? An experimental study of the solubility of Re in sulphide mattes. *Earth and Planetary Science Letters* 260, 537-548.
- [09] **Mallmann G.**, Chemale Jr. F., Ávila J.N., Kawashita K., Armstrong R.A. (2007). Isotope geochemistry and geochronology of the Nico Pérez Terrane, Rio de la Plata Craton, Uruguay. *Gondwana Research* 12, 489-508.
- [10] Ávila J.N., Chemale Jr. F., **Mallmann G.**, Kawashita K., Armstrong R.A. (2006). Combined stratigraphic and isotopic studies of Triassic strata, Cuyo Basin, Argentine Precordillera. *Geological Society of America Bulletin* 118, 1088-1098.
- [11] Ávila J.N., Chemale Jr. F., **Mallmann G.**, Borba, A.W., Luft, F.F. (2005). Thermal evolution of inverted basins: Constraints from apatite fission track thermochronology in the Cuyo Basin, Argentine Precordillera. *Radiation Measurements* 39, 603-611.
- [12] Conceição R.V., **Mallmann G.**, Koester E., Schilling M., Bertotto G.W., Rodriguez-Vargas A. (2005). Andean subduction-related mantle xenoliths: Isotopic evidence of Sr-Nd decoupling during metasomatism. *Lithos* 82, 273-287.
- [13] Schilling M., Conceição R.V., **Mallmann G.**, Koester E., Kawashita K., Hervé F., Morata D., Motoki A. (2005). Spinel-facies mantle xenoliths from Cerro Redondo, Argentine Patagonia: Petrographic, geochemical, and isotopic evidence of interaction between xenoliths and host basalt. *Lithos* 82, 485-502.
- [14] Rodriguez-Vargas A., Koester E., **Mallmann G.**, Conceição R.V., Kawashita K., Weber M.B.I. (2005). Mantle diversity beneath the Colombian Andes, Northern Volcanic Zone: Constraints from Sr and Nd isotopes. *Lithos* 82, 471-484.
- [15] **Mallmann G.**, Chemale Jr. F., Morales L.F.G. (2004). Evolução estrutural da porção sul do Terreno Nico Pérez, Uruguai: Registro da convergência entre as placas Rio de la Plata e Kalahari no final do Neoproterozóico. *Revista Brasileira de Geociências* 34, 201-212. [in Portuguese]
- [16] Philipp R.P., **Mallmann G.**, Bitencourt M.F., Souza E.R., Souza M.M.A., Liz J.D., Wild F., Arendt S., Oliveira A.S., Duarte L., Rivera C.B., Prado M. (2003). Caracterização litológica e evolução metamórfica da porção leste do Complexo Metamórfico Brusque, Santa Catarina. *Revista Brasileira de Geociências* 34, 21-34. [in Portuguese]
- [17] **Mallmann G.**, Cupertino J.A., Chemale Jr. F. (2002). Caracterização por microsonda eletrônica dos teores de cloro de apatitas e sua importância nos estudos de Traços de Fissão: *Pesquisas em Geociências* 29, 31-36. [in Portuguese]
- [01] Ávila J.N., Ireland T.R., Lugaro M., Gyngard F., Zinner E., **Mallmann G.**, Holden P. (2012). U-Th-Pb isotopic compositions in stardust SiC grains from the Murchison meteorite. *43rd Lunar and Planetary Science Conference*,

League City, Texas. Abstract #2709.

- [02] **Mallmann G.**, Stewart G.A., O'Neill H.St.C. (2010). A Mössbauer study of the Fe oxidation state in a basalt-like silicate melt. *19th Australian Institute of Physics Congress*, Melbourne, Australia.
- [03] Chemale Jr. F., **Mallmann G.**, Koester E., Almeida D.P.M., Machado A. (2010). U-Pb zircon age of the arc-related granites from the Greenwich Island, Antarctic. *7th South American Symposium on Isotope Geology*, Brasilia, Brazil.
- [04] **Mallmann G.**, Chemale Jr. F., Armstrong R.A., Kawashita K. (2003). Sm-Nd and U-Pb SHRIMP zircon studies of the Nico Pérez Terrane, reworked Rio de la Plata Craton, Uruguay. *4th South American Symposium on Isotope Geology*, Salvador, Brazil, pp. 207-209.
- [05] Chemale Jr. F., **Mallmann G.**, Bitencourt M.F., Kawashita K. (2003). Isotope geology of syntectonic magmatism along the Major Gercino Shear Zone, southern Brazil: Implications for the timing of deformation events. *4th South American Symposium on Isotope Geology*, Salvador, Brazil, pp. 516-519.
- [06] Schilling M., **Mallmann G.**, Koester E., Conceição R.V., Kawashita K. (2003). Sr-Nd-Pb isotopic modifications in mantle xenoliths from Cerro Redondo, Patagonia Argentina: Mantle metasomatism versus host basalt infiltrations. *4th South American Symposium on Isotope Geology*, Salvador, Brazil, pp. 679-682.
- [07] Conceição R.V., Koester E., **Mallmann G.**, Kawashita K., Chemale Jr. F., Cingolani C., Hervé F., Bertotto G.W., Schilling M., Rodriguez-Vargas A., Weber M.B.I., Morata D., Espinoza F. (2003). New insights on the Andean-related subcontinental lithospheric mantle and evidence of Sr-Nd decoupling. *4th South American Symposium on Isotope Geology*, Salvador, Brazil, pp. 528-531.
- [08] Rodriguez-Vargas A., Koester E., **Mallmann G.**, Conceição R.V., Kawashita K., Weber M.B.I. (2003). Sr and Nd isotopic signatures of mantle and crustal xenoliths from Mercaderes, Northern Volcanic Zone, Colombia. *4th South American Symposium on Isotope Geology*, Salvador, Brazil, pp. 662-665.
- [09] Ávila J.N., Takehara L., Chemale Jr. F., **Mallmann G.** (2001). Investigation of "nanobacteria" in banded iron formations by scanning electron microscopy: An example from Urucum and Carajás, Brazil. *18th Congress of the Brazilian Society for Microscopy and Microanalysis*, Aguás de Lindóia, Brazil, Acta Microscopica, Supplement A, pp. 95-96.

Selected Conference Abstracts

- [01] **Mallmann G.**, O'Neill H.St.C. (2012). Incompatible elements in olivine: Using Sc, Y and V as temperature and redox monitors in basaltic magmas. AGU Fall Meeting, San Francisco, USA. Session "All about olivine!" INVITED.
- [02] Fonseca R.O.C., Luguet A., **Mallmann G.**, Laurenz V., Ballhaus C., Speelmanns I., Gockeln M. (2012). Why are mantle-derived noble metal alloys rhenium-free and what can they tell us about mantle melting. European Mineralogical Conference, Frankfurt/Main, Germany. Vol. 1, EMC2012-329.
- [03] **Mallmann G.**, O'Neill H.St.C. (2012). V-Sc-Y oxythermobarometer for olivine-phyric basaltic rocks. *14th Experimental Mineralogy, Petrology and Geochemistry (EMPG) Conference*, Kiel, Germany.
- [04] **Mallmann G.**, O'Neill H.St.C., Berry A.J., Norman M.D., Eggins S.M., Kamenetsky V., Turner S., Smith I.E., Ballhaus C. (2011). The oxidation state of terrestrial basalts and its link with the mantle. *AGU Fall Meeting*, San

Francisco, USA. Abstract #V31D-2551.

- [05] O'Neill H.St.C., Berry A.J., **Mallmann G.** (2011). Redox variable trace elements. *21st V.M. Goldschmidt Conference*, Prague, Czech Republic. *Mineralogical Magazine* 75(3), p. 1557.
- [06] McKibbin S.J., O'Neill H.St.C., **Mallmann G.**, Halfpenny, A. (2011). Complex Al and P zoning in pallasite olivine: Constraints on high-T history. *21st V.M. Goldschmidt Conference*, Prague, Czech Republic. *Mineralogical Magazine* 75(3), p. 1442.
- [07] McKibbin S.J., O'Neill H.St.C., **Mallmann G.** (2011). Mn, Co and Ni diffusion profiles in pallasite olivine. *European Planetary Science Conference*, Nantes, France.
- [08] **Mallmann G.**, O'Neill H.St.C., Berry A.J., Norman M.D., Eggins S.M., Kamenetsky V.S., Turner S.P., Smith I.E.M., Ballhaus C. (2011). The oxidation state of terrestrial basalts and its link with the mantle: Constraints from V/Sc bulk-rock systematics, V/Sc olivine-liquid partitioning and Fe-XANES. *IUGG Conference*, Melbourne, Australia.
- [09] McKibbin, S.J., O'Neill H.St.C., **Mallmann G.** (2010). Laser ablation inductively coupled plasma mass spectrometry (LA-ICP-MS) mapping of olivine trace element distribution in the pallasite meteorite Brahin. *Australian Earth Science Convention*, Canberra, Australia.
- [10] O'Neill H.St.C., Berry A.J., **Mallmann G.** (2009). The oxidation state of uranium in silicate melts and its implications for U crystal/liquid partition coefficients. *Biennial Conference of the Specialist Group in Geochemistry, Mineralogy and Petrology*, Kangaroo Island, Australia.
- [11] Klemme S., **Mallmann G.**, O'Neill H.St.C. (2009). Heterogeneous distribution of phosphorus in olivine from otherwise well-equilibrated spinel peridotite xenoliths and its implications for the mantle geochemistry of lithium. *Microanalysis, Process, Time (MAPT) Conference*, Edinburgh, UK, p. 160-161.
- [12] **Mallmann G.**, O'Neill H.St.C., Jenner F., Norman M., Eggins S., Arculus R., Ballhaus C. (2008). Determining the redox state of basalts and picrites using V/Sc olivine-melt partitioning: Experimental calibration and application to natural systems. *TANDEM Workshop*, Matsuyama, Japan.
- [13] Fonseca R.O.C., **Mallmann G.**, Campbell, I.H., O'Neill H.St.C. (2008). The solubility of Os and Ir in sulphide melts: Implications for Os heterogeneity in the Earth's mantle. *18th V.M. Goldschmidt Conference*, Vancouver, Canada. *Geochimica et Cosmochimica Acta* 72(12), Supplement 1, A277.
- [14] **Mallmann G.**, O'Neill H.St.C. (2007). Vanadium partitioning and mantle oxidation state: New experimental data. *AGU Fall Meeting*, San Francisco, USA. *Eos Transactions* 88(52), Supplement, V31D-0679.
- [15] O'Neill H.St.C., **Mallmann G.** (2007). The P/Nd ratio of basalt as an indicator of pyroxenite in its source. *17th V.M. Goldschmidt Conference*, Cologne, Germany. *Geochimica et Cosmochimica Acta* 71(15), Supplement S, A741.
- [16] **Mallmann G.**, O'Neill H.St.C. (2006). The redox control upon the rhenium crystal/silicate-melt partitioning. *16th V.M. Goldschmidt Conference*, Melbourne, Australia. *Geochimica et Cosmochimica Acta* 70(18), Supplement S, A386.
- [17] Fonseca R.O.C., **Mallmann G.**, O'Neill H.St.C., Campbell I.H. (2006). An experimental study of the chalcophile character of Re: The effect of fO_2 , fS_2 and temperature. *16th V.M. Goldschmidt Conference*, Melbourne, Australia.

Geochimica et Cosmochimica Acta 70(18), Supplement S, A180.

- [18] Dantas C., Grégoire M., Koester E., Conceição R.V., **Mallmann G.** (2006). Nature and evolution of the lithospheric mantle beneath the Somuncura Plateau, Northern Patagonia (Argentina): Evidence from mantle xenoliths sampled by alkaline lavas. *European Geological Union Congress*, Vienna, Austria.
- [19] **Mallmann G.**, Conceição R.V., Koester E. (2003). Andean subduction-related lithospheric mantle: Growth and isotopic evidence of chemical exchange in mantle and crustal reservoirs. *13th V.M. Goldschmidt Conference*, Kurashiki, Japan, *Geochimica et Cosmochimica Acta* 67(18), Supplement, A271.
- [20] Conceição R.V., **Mallmann G.**, Koester E., Kawashita K. (2003). Andean subduction-related mantle xenoliths: Isotopic evidence of Sr-Nd decoupling during metasomatism. *13th V.M. Goldschmidt Conference*, Kurashiki, Japan, *Geochimica et Cosmochimica Acta* 67(18), Supplement, A69.
- [21] Koester E., Rodriguez-Vargas A., Conceição R.V., **Mallmann G.**, Kawashita K., Weber M.B.I. (2003). Mantle diversity beneath the Mercaderes region, Andean Northern Volcanic Zone, Colombia. *13th V.M. Goldschmidt Conference*, Kurashiki, Japan, *Geochimica et Cosmochimica Acta* 67(18), Supplement, A225.
- [22] **Mallmann G.**, Conceição R.V., Koester E., Bertotto G.W., Schilling M., Chemale Jr. F., Cingolani C.A. (2003). Petrographic and geochemical constraints on mantle xenoliths from northern Patagonia, Argentina. *AGU Fall Meeting*, San Francisco, USA, *Eos Transactions*, Supplement AGU 84 (46).
- [23] Koester E., **Mallmann G.**, Conceição R.V., Bertotto G.W., Schilling M., Chemale Jr. F., Cingolani C.A. (2003). Oxygen isotopic signature of mantle xenoliths from the Patagonia region, Argentina. *AGU Fall Meeting*, San Francisco, USA, *Eos Transactions*, Supplement AGU 84 (46).

Citation Count / Profile Pages

Total no. citations	272
h-index	10
i10-index	10
Date of search	February 8, 2013
Source	Google Scholar
Google profile page	http://scholar.google.com/citations?user=Zq2s5IEAAAAJ&hl=en
Researcher ID	http://www.researcherid.com/rid/C-3757-2012
Academia profile	http://usp-br.academia.edu/GuilMallmann