

Publications for Michael O. Garcia

Authored or co-authored of 100+ published papers in the scientific literature and 3 geologic/bathymetric maps of Hawai'i (former student and post-doc co-authors are listed *in italics*)

2012

Garcia, M.O., Weis, D., Hanano, D., Apuzen-Ito, G., Flinders, A., Kurz, M., Age, geology, geophysics and geochemistry of Mahukona volcano, Hawaii. *Bulletin of Volcanology* (in review).

Jicha, B.R., Rhodes, J.M., Singer, B.S., **Garcia, M.O.**, The $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology of submarine Mauna Loa volcano, Hawaii. (in review)

Pietruszka, A.J., Norman, M.D., Garcia, M.O., Marske, J., Burns, D.H., Rhodes, D. H., Chemical heterogeneity in the Hawaiian mantle plume from the alteration and dehydration of recycled oceanic crust. *Earth and Planetary Science Letters*, (in review)

2011

*Marske, J. P., Pietruszka, A. P., Trusdell, F. A., **Garcia, M.O.**, Geochemistry of southern Pagan Island lavas, Mariana arc: the role of subduction zone processes. *Contributions to Mineralogy and Petrology*, 162, 231–252, DOI 10.1007/s00410-010-0592-1.*

*Pietruszka, A.J., Keyes, M.J., Duncan, J.A., Hauri, E. H., Carlson, R.W., **Garcia, M.O.**, Excesses of seawater-derived ^{234}U in volcanic 1 glasses from Loihi Seamount due to crustal contamination. *Earth and Planetary Science Letters*, 304, 280-289.*

Weis, D., **Garcia, M.O.**, Rhodes, J.M., Jellinek, M. and Scoates, J.S., Role of the deep mantle in generating the compositional asymmetry of the Hawaiian mantle plume. *Nature Geoscience*, 4, 831-838, DOI: 10.1038/NCEO1328

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*Flinders, A., Ito, I., **Garcia, M.O.**, Gravity anomalies of the Northern Hawaiian Islands: implications on the shield evolution of Kauai and Niihau. *Journal of Geophysical Research*, 115, B08412, doi:10.1029/2009JB006877.*

*Greene, A.R., **Garcia, M.O.**, Weis, D., Ito, G., Kuga, M., Robinson, J., Yamasaki, S., Low-productivity Hawaiian volcanism between Kaua'i and O'ahu: Constraints on source composition and lithology. *Geochemistry, Geophysics, Geosystems*, v. 11, Q0AC08, doi:10.1029/2010GC003233.*

Staudigel, H., Moyer, C., **Garcia, M.O.**, Malahoff, A., Clague, D., Koppers, A., Spotlight: Loihi Seamount. *Oceanography*, 23-1, 72-73.

Wang, Z., Eiler, J.M., Asimow, P., **Garcia, M.O.**, Takahashi, E., Oxygen isotope constraints on the structure of the Hawaiian plume. *American Journal of Science*, 310, 683-720, DOI 10.2475/08.2010.01.

2009

*Ireland, T.J., Walker, R.J. and **Garcia, M.O.**, Highly siderophile element and ^{187}Os isotope systematics of Hawaiian picrites: Implications for parental melt composition and source heterogeneity. *Chemical Geology*, 260, 112–128.*

2008

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Garcia, M.O., Ito, G., Weis, D. and 16 others, Widespread secondary volcanism around the northern Hawaiian Islands. *EOS Transactions*, 52, 542-543.

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