Oleg Abramov

PUBLICATIONS

SUMMARY:

27 peer-reviewed papers (13 first-authored) in 20 years of publishing (2004-2024)
Average number of citations per first-authored paper = 91
Hirsch citation metric: h = 18

JOURNAL ARTICLES:

Rodriguez, J. A. P., D. Domingue, B. Travis, J. S. Kargel, **O. Abramov**, M. Zarroca, M. E. Banks, J. Weirich, A. Lopez, N. Castle, Y. Jianguo, and F. Chuang, Mercury's Hidden Past: Revealing a Volatile-dominated Layer through Glacier-like Features and Chaotic Terrains, *Planet. Sci. J.*, 4(11), 2023.

Abramov, O., K.L. Bebell, and S.J. Mojzsis, Emergent bioanalogous properties of blockchain-based distributed systems, *Orig. Life Evol. Biosph*., 51 (2), 131-165, 2021.

Brasser, R., S.J. Mojzsis, S.C. Werner, and **O. Abramov**, A new estimate for the age of highly-siderophile element retention in the lunar mantle from late accretion, *Icarus*, 361, 2021.

Richardson, J.E., and **O. Abramov**, Modeling the formation of the lunar upper megaregolith layer, *Planet. Sci. J.*, 1(1), 2020.

Mojzsis, S.J., R. Brasser, N.M. Kelly, **O. Abramov**, and S.C. Werner, Onset of giant planet migration before 4480 million years ago, *Astrophys. Jour.*, 881:44, 2019.

Mojzsis, S.J., **O. Abramov,** E.A. Frank, and R. Brasser, Thermal effects of late accretion to the crust and mantle of Mercury, *Earth Planet. Sci. Lett.*, 482, 536-544, 2018.

Frank, E.A., R.W. Potter, **O. Abramov**, P.B. James, R.L. Klima, S.J. Mojzsis, and L.R. Nitter, Evaluating an impact origin for Mercury's high-magnesium region, *J. Geophys. Res., Planets*, 122(3), 614-632, 2017.

Abramov, O., and S.J. Mojzsis, Thermal effects of impact bombardments on Noachian Mars, *Earth Planet. Sci. Lett.*, 442, 108-120, 2016.

Baker, L.L., A. Bernard, W.C. Rember, M. Milazzo, C. Dundas, **O. Abramov**, and L. Keszthelyi, Temperature profile around a basaltic sill intruded into wet sediments, *J. Vol. Geotherm. Res*. 302, 81-86, 2015.

Hopkins, M.D., S.J. Mojzsis, W.F. Bottke, and **O. Abramov**, Micrometer-scale U–Pb age domains in eucrite zircons, impact re-setting, and the thermal history of the HED parent body, *Icarus*, 245, 367-378, 2015.

Tsang, C.C.C., J.A. Rathbun, J.R. Spencer, B.E. Hesman, and **O. Abramov**, Io's hot spots in the near-infrared detected by LEISA during the New Horizons flyby, *J. Geophys. Res.: Planets*, 119, 10 2222-2238, 2014.

Mojzsis, S.J., N. L. Cates, G. Caro, D. Trail, **O. Abramov**, M. Guitreau, J. Blichert-Toft, M.D.Hopkins, and W. Bleeker, Component geochronology in the ca. 3920 Ma Acasta Gneiss, *Geochim. et Cosmochim. Acta*, 133, 68-96, 2014.

Abramov, O., J.A. Rathbun, B.E. Schmidt, and J.R. Spencer, Detectability of thermal signatures associated with active formation of 'chaos terrain' on Europa, *Earth Planet.Sci. Lett*., 384, 37-41, 2013.

Abramov, O., D.A. Kring, and S.J. Mojzsis, The impact environment of the Hadean Earth, *Chemie Der Erde*, 73, 227-248, 2013.

Abramov O., S.M. Wong, and D.A. Kring, Differential melt scaling for oblique impacts on terrestrial planets. *Icarus*, 218, 906-916, 2012.

Schwenzer, S.P., **O. Abramov**, C.C. Allen, S. Clifford, J. Filiberto, D.A. Kring, J. Lasue, P.J. McGovern, H.E. Newsom, A.H. Treiman, D.T. Vaniman, R.C. Wiens, and A. Wittmann, Gale Crater: Formation and Post-Impact Hydrous Environments, *Planet. Space Sci.*,70, 84-95, 2012.

Schwenzer, S.P., **O. Abramov**, C.C. Allen, S.M. Clifford, C.S. Cockell, J. Filiberto, D.A. Kring, J. Lasue, P.J. McGovern, H.E. Newsom, A.H. Treiman, D.T. Vaniman, and R.C. Wiens, Puncturing Mars: How impact craters interact with the Martian cryosphere, *Earth Planet. Sci. Lett*., 335, 9-17, 2012.

Abramov, O., and S.J. Mojzsis, Abodes for life in carbonaceous asteroids?, *Icarus*, 213, 273-279, 2011.

Fairen, A.G., V. Chevrier, **O. Abramov**, G.A. Marzo, P. Gavin, A.F. Davila, L.L. Tornabene, J.L. Bishop, T.L. Roush, C. Gross, T. Kneissl, E.R. Uceda, J.M. Dohm, D. Schulze-Makuch, J.A.P. Rodriguez, R. Amils, and C.P. McKay, Noachian and more recent phyllosilicates in impact craters on Mars, *Proc. Nat. Acad. Sci*., 107, 12095-12100, 2010.

Abramov, O., and S.J. Mojzsis, Microbial habitability of the Hadean Earth during the late heavy bombardment, *Nature*, 459, 419 -422, 2009.

Abramov, O., and J.R. Spencer, Endogenic heat from Enceladus' south polar fractures: New observations, and models of conductive surface heating, *Icarus*, 199, 189-196, 2009.

Abramov, O., and J.R. Spencer, Numerical modeling of endogenic thermal anomalies on Europa, *Icarus*, 195, 378-385, 2008.

Spencer, J.R., S.A. Stern, A.F. Cheng, H.A. Weaver, D.C. Reuter, K. Retherford, A. Lunsford, J.M. Moore, **O. Abramov**, R.M.C. Lopes, J.E. Perry, L. Kamp, M. Showalter, K.L. Jessup, F. Marchis, P.M. Schenk, and C. Dumas, Io Volcanism Seen by New Horizons: A Major Eruption of the Tvashtar Volcano, *Science*, 318, 240-243, 2007.

Abramov, O., and D.A. Kring, Numerical modeling of impact-induced hydrothermal activity at the Chicxulub crater, *Meteor. Planet. Sci*., 42, 93-112, 2007.

Abramov, O., and D.A. Kring, Impact-induced hydrothermal activity on early Mars, *J. Geophys. Res.*, 110, E12S09, doi:10.1029/2005JE002453, 2005.

Abramov, O., and D.A. Kring, Numerical modeling of an impact-induced hydrothermal system at the Sudbury crater, *J. Geophys. Res*., 109, E10007, doi:10.1029/2003JE002213, 2004.

Abramov, O., and A.S. McEwen, An evaluation of interpolation methods for MOLA data, *Int. J. Rem. Sens*., 25(3), 669-676, 2004.