

Gene M. Yogodzinski

University of South Carolina
School of Earth, Ocean, and Environment
701 Sumter Street, EWSC Room 617
Columbia, SC 29208
(803) 777-9524
gyogodzin@geol.sc.edu

1993 Ph.D. Cornell University, Ithaca, New York
Dissertation: Processes and Components Contributing to the Formation of Island Arc Volcanic Rocks: Evidence from the Western Aleutians
Advisor: Robert W. Kay

1985 M.S. Oregon State University, Corvallis, Oregon
Thesis: The Deschutes Formation - High Cascade Transition in the Whitewater River Area, Jefferson County, Oregon
Advisor: Edward M. Taylor

1979 B.S. The University of Maine, Orono, Maine

ACADEMIC EXPERIENCE & POSITIONS HELD

2024 –	Interim Director School of Earth-Ocean-Environment, Univ. of South Carolina
2021 – 2024	Associate Director School of Earth-Ocean-Environment, Univ. of South Carolina
2019 – 2020	Professor of Geological Sciences, Univ. of South Carolina
2007 – 2018	Associate Professor of Geological Sciences, Univ. of South Carolina
2008 – 2010	Associate Chair, Department of Earth & Ocean Sciences, Univ. of South Carolina
2006 – 2008	Undergraduate Director, Department of Earth & Ocean Sciences
2001 – 2006	Assistant Professor, Dept. of Earth & Ocean Sciences Univ. of South Carolina
2001	Associate Professor, Dickinson College, Carlisle, PA
1995 – 2000	Assistant Professor, Dickinson College, Carlisle, PA
1993 – 1994	Research Associate, University of Nevada, Las Vegas, NV
1993	Visiting Lecturer, Hamilton College, Clinton, NY
1987 – 1992	Graduate Research and Teaching Assistant, Cornell University
1983	Exploration Geologist, St. Joe American, Spokane, WA
1981	Exploration Geologist, Utah International, Reno, NV
1980	Exploration Geologist, J.S. Cummings Inc., Bangor, ME

PROFESSIONAL AFFILIATIONS

Geochemical Society
American Geophysical Union
Geological Society of America
Mineralogical Society of America

RESEARCH FOCUS

formation and evolution of subduction-related magmas
relationships between magmatism and tectonics
crust-mantle evolution
field geology, especially in areas of active volcanism

TEACHING FOCUS

mineralogy, petrology, geochemistry
isotope & trace element geochemistry
igneous processes & crustal genesis
field geology
introductory geology

FIELD EXPERIENCE & CRUISE PARTICIPATION

2016 Shipboard Scientist, R/V Sonne SO249/2, Komandorsky Islands – Bering Sea
2016 Shipboard Scientist, R/V Sonne SO249/1, North Pacific – Aleutians, AK
2015 Geological Field Work, Unalaska, Atka and Umnak Islands, Aleutians, AK
2014 Geological Field Work, Ecuador, Sangay Volcano
2014 IODP Expedition 351 Core Description Team
2010 Geological Field Work, Ecuador, Sumaco and Reventador volcanoes
2009 Shipboard Scientist, R/V Sonne KALMAR 201-2, Bering Sea - Aleutians
2009 Shipboard Scientist, R/V Sonne, KALMAR 201-1b, NW Pacific - Aleutians
2005 Chief Scientist, TN182 Western Aleutian Volcano Expedition, R/V Thompson
2004 Co-Chief Scientist, Jason II and R/V Revelle, NOAA-NURP Aleutian Cruise
2004 Geological Fieldwork, Atka Island, Aleutians, Alaska
2003 Geological Fieldwork, Shiveluch and Kharchinsky volcanoes, Kamchatka
2002 Geological Fieldwork, Atka Island, Aleutians, Alaska
2001 Geological Fieldwork, Atka Island, Aleutians, Alaska
1998 Geological Fieldwork, Shiveluch Volcano, northern Kamchatka
1993 Geologic Mapping, Reveille Range, Nye County, Nevada
1992 Geological Fieldwork, Avachinsky Volcano, eastern Kamchatka
1990 Shipboard Scientist, Leg 38, Soviet R/V Vulkanolog, Aleutians
1989 Shipboard Scientist, Leg 35, Soviet R/V Vulkanolog, Aleutians – Bering Sea
1988 Geological Fieldwork, Attu Island, Aleutian Islands, Alaska
1987 Geological Fieldwork, Adak and Attu islands, Aleutian Islands, Alaska
1984 Geologic Mapping, Mt Jefferson area, Central Oregon
1983 Mineral Exploration, Central Washington
1982 Geologic Mapping, Mt Jefferson area, Central Oregon
1981 Mineral Exploration, Northeastern Nevada
1980 Mineral Exploration, Northern Maine

INVITED & KEYNOTE TALKS

INSTOC Symposium (Cornell University) Invited Talk – October 2019
National GSA Invited Talk, Phoenix, AZ – September 2019
National GSA Invited Talk, Denver, CO – September 2016
Cornell University Department of Earth & Atmospheric Sciences – February 2016
Hamilton College Department of Geology – February 2016
Fall AGU Invited Talk, San Francisco, CA – December 2015
GeoPRISMS TEI Student Symposium, Redondo Beach, CA – September 2015
University of Alaska Department of Geosciences, AK – November 2013
USGS / Alaska Volcano Observatory, Anchorage, AK – November 2013
University of Wyoming Department of Geology & Geophysics – September 2012
Lamont-Doherty Earth Observatory, Palisades, NY – March 2012
Fall AGU Invited Talk, San Francisco, CA – December 2011
GEOPRISMS Alaska Planning Workshop Student Symposium – September 2011
KALMAR Workshop, Trier, Germany – May 2011
University of Nevada, Las Vegas Department of Geoscience – September 2010
Georgia Southern University, Statesboro, GA – April 2009
University of Florida Department of Geological Sciences – March 2009
Goldschmidt Conference Keynote Talk, Vancouver, BC – July 2008
University of Georgia Department of Geology – October 2006
University of South Florida School of Geosciences – April 2006
USGS Alaska Volcano Observatory, Anchorage, AK – February 2005
Washington State University Dept. of Earth & Environmental Sciences – January 2005
University of South Carolina, Aiken Department of Geology – February 2004
University of Münster Institute for Mineralogy, Münster, Germany – June 2003
USGS Alaska Volcano Observatory, Anchorage, AK – November 2002
University of North Carolina Department of Geological Sciences – October 2001
Colgate University Department of Geology – March 1997
Dickinson College Department of Geology – March 1994
SUNY Plattsburg Department of Geology – May 1993
University of Rochester Department of Earth & Environmental Sciences – March 1993
Hamilton College Department of Geology – February 1992

GRADUATE & POSTDOCTORAL RESEARCH ADVISING

Owen Jensen PhD – in progress (chair)
Ryan Waldman, PhD – in progress (chair)
Ekaterina Rojas Kolomiets, PhD – in progress (committee)
Nandana Goswami, PhD – in progress (committee)
Brian Duggan, PhD – 2022 (committee)
Wei Zhang, PhD – 2022 (examination reader – Okayama University, Japan)
Lisa Kant, PhD – 2022 (committee – University of Wyoming)
Sierra Paterson, MS – 2021 (committee)
Max Siegrist, PhD – 2020 (chair)
Saad Alarifi, PhD – 2020 (committee)
Wolfgang Ashley, MS – 2019 (committee)

Paul Béguelin, PhD – 2019 (committee)
Saad Alarifi, MS – 2019 (committee)
Carl Frisby, PhD – 2016 (committee)
Ben Hocking, MS – 2016 (chair)
Jessica Holm, MS – 2016 (committee)
Max Siegrist, MS – 2013 (chair)
Reid Mobley, MS – 2012 (chair)
Tyler Izykowski, MS – 2012 (committee)
Tarun Khanna, Postdoctoral – 2011 (co-adviser)
Shawn Arndt, MS – 2011 (chair)
Shawn Wallace, MS – 2011 (committee)
Josh Turka, MS – 2010 (chair)
Mel Fillerup, PhD – 2010 (committee)
Zahid Khandaker, PhD – 2010 (committee)
Nickles Badger, MS – 2009 (committee)
Jessica Mason, MS – 2009 (committee)
David Gomboshi, MS – 2008 (committee)
Jason Bryant, PhD – 2008 (chair)
Shaun Brown, MS – 2006 (chair)
Christine Dektor, MS – 2006 (chair)
Megan Gerseny, MS – 2005 (committee – Washington State University)
Jason Meyer, MS – 2005 (committee)

NATIONAL SERVICE

IEDA Science Community Committee, 2017 - 2020
GeoPRISMS Science Oversight Committee, 2013-2016
Co-Convener, GeoPRISMS Theoretical & Applied Institute, Redondo, CA, Sep. 2015
AGU Fall Meeting Session Organizer and Co-Convener, December 2013
Co-Convener, GeoPRISMS Alaska Planning Workshop, Portland, Oregon, Sep. 2011
NSF Proposal Review Panel - MG&G, November 2010
Goldschmidt Conference Session Organizer, June 2005
Western Pacific Geophysics Meeting Session Organizer, June 2000

RESEARCH GRANT AWARDS

NSF – MG&G and IC Programs (May 2021) with co-PI M. Bizimis, *Distinguishing Sediment, Serpentinite, and Altered Oceanic Crust in the Source of Aleutian Volcanic Rocks Using Boron & Molybdenum Isotopes*, 36 months, \$372,790

NSF – GeoPRISMS Program (May 2018) *Investigating Initiation and History of the Aleutian Arc and Composition and Significance of North Pacific Seafloor via Dredge Samples from the R/V Sonne*, 24 months, \$229,186

NSF – GeoPRISMS Program (May 2016), *Building an International Component in the Aleutian-Alaska Primary Site through US Participation in Research Cruises of the German R/V Sonne*, 12 months, \$74,434

NSF – Marine Geology & Geophysics Program (July 2015), with co-PI M Bizimis (University of South Carolina) *Geochemistry of IODP Site 1438 and West Philippine Basin Volcanic Rocks: Constraints on Subduction Initiation and the Early Development of the Izu-Bonin-Mar*, 24 months, \$157,355

National Geographic – Research & Exploration Program (2015) coPI with lead PI KWW Sims (University of Wyoming) *Understanding Sangay Volcano: A Geologic Expedition to “The Frightener”*, 12 months, \$23,000

Consortium for Ocean Drilling (2014) *Continental Crust Formation at Intra-Oceanic Arc: Arc Foundations, Inception and Early Evolution*, 24 months, \$46,742

College of Arts & Sciences – University of South Carolina (2013) *Acquisition of a High-Pressure Asher: An Associate Professor Instrumentation Proposal*, 12 months, \$49,653

Office of the Vice President for Research – University of South Carolina (2013) with co-PIs DL Barbeau, M Bizimis, and H Scher (all University of South Carolina) *Acquisition of a Laser-Ablation System for the Center of Elemental Mass Spectrometry (CEMS) Campus Core Facility*, 12 months, \$165,000

NSF – Earth Science Instrumentation & Facilities Program (February 2009) with co-PI DL Barbeau (University of South Carolina) *Upgrade of Electron Microprobe for Use in Geological and Materials Research at the University of South Carolina*, 24 months, \$166,853

College of Arts & Sciences – University of South Carolina (2009) *Proposal for Student Instructional Technology Funds in Support of the Purchase of an X-Ray Diffractometer for Use in Rock & Mineral Teaching Laboratories in the Department of Geological Sciences*, 12 months, \$58,437

NSF – Ocean Sciences Marine Geology & Geophysics Program (2007), *Collaborative Research: Genesis of Primitive, High-Sr Lavas in the Western Aleutians*, 36 months, \$216,847

NSF – Earth Sciences Petrology, Geochemistry & Volcanology Program (2004), *Collaborative Research: Evaluating the Competing Roles of Garnet and Fluid in Controlling U-Th Disequilibria in Aleutian Lavas*, 24 months, \$165,187

NSF – Ocean Sciences Marine Geology & Geophysics Program (2004), *Collaborative Research: Primitive Magmatism and Crustal Genesis in an Island Arc*, 12 months, \$168,241

University of South Carolina – Research and Productive Scholarship Category One Grant (2004), *A Preliminary Study of Volcanic Rock Geochemistry at Little Sikin Volcano, Aleutian Islands, Alaska*, 18 months, \$13,732

NSF – Earth Sciences-Petrology & Geochemistry Program (2003), *Collaborative Research: Geochemistry of Ultramafic Xenoliths from the Mantle Wedge of the Kamchatka Arc*, 24 months with the University of Rochester, \$124,679

NSF – Earth Sciences-Instrumentation and Facilities Program (2003), *Acquisition of a Quadrupole ICP Mass Spectrometer for the Department of Geological Sciences and Marine Science Program at the University of South Carolina*, 36 months, \$173,269

NSF – Earth Sciences-Petrology & Geochemistry Program (2003), *Collaborative Research: High Field Strength Element and Hf-Nd Isotope Systematics in Aleutian Lavas: Implications for Conservative Element Behavior in Subduction Zones*, 24 months, \$139,038

NOAA – National Undersea Research Program (2002), *Primitive Plutonism in an Island Arc: A Study of Deep Submarine Canyons in the Western Aleutians*, 12 months, \$31,500

NSF – Major Research Instrumentation Program (1999), Acquisition of Scanning Electron Microscope with X-ray Analysis System for Geology, Biology, and Environmental Studies at Dickinson College: An RUI Request, 24 months, \$162,428

NSF – Earth Sciences Petrology, Geochemistry & Volcanology Program (1996) *Regional Variability in Aleutian Primitive Magmas and Implications for Processes in the Mantle Wedge: Proposal for an Ion Probe Study*, 24 months, \$75,000

CITATION SUMMARY (Google Scholar)

Total Citations: 5810

2023 Annual Rate: 398

H-index: 29

i10-index: 37

PUBLICATIONS (asterisk* indicates USC graduate students)

Klaver, M., G.M. Yogodzinski, C. Albert, M. Camejo-Harry, M. Elburg, K. Hoernle, Macpherson, C., Nowell, G., Rushmer, T., Williams, H., Millet, M.-A., *Earth and Planetary Science Letters* 2023 v. 626 118544, 10.1016/j.epsl.2023.118544

Rojas-Kolomiets, E., O. Jensen, M. Bizimis, G. M. Yogodzinski and L. Ackerman, *Earth and Planetary Science Letters* 2022 v. 603 117970, 10.1016/j.epsl.2022.117970

Bezard, R, Hoernle, K, Pfander, JA, Jicha, B, Werner, R, Hauff, F, Portnyagin, M, Sperner, B, Yogodzinski, GM, Turner S (2021) $^{40}\text{Ar}/^{39}\text{Ar}$ ages and bulk-rock chemistry of the lower

submarine units of the central and western Aleutian Arc, *Lithos*, v. 392-393, 10.1016/j.lithos.2021.106147

McCarthy, A., GM Yogodzinski, M Bizimis, IP Savov, R Hickey-Vargas, R Arculus, O Ishizuka (2021), Volcaniclastic sandstones record the influence of subducted Pacific MORB on magmatism at the early Izu-Bonin arc, *Geochimica et Cosmochimica Acta*, v. 296, p. 170-188, 10.1016/j.gca.2021.01.006

Bezard, R, S Turner, B Schaefer, GM Yogodzinski, K Hoernle (2021) Os isotopic composition of western Aleutian adakite: Implications for the Re/Os of oceanic crust processed through hot subduction zones, *Geochimica et Cosmochimica Acta*, v. 292, p. 452-467, 10.1016/j.gca.2020.10.009

*Siegrist, M, GM Yogodzinski, M Bizimis (2021) Origins of Os-isotope and platinum-group element compositions of metasomatized peridotite and cumulate pyroxenite xenoliths from Kharchinsky Volcano, Kamchatka, *Geochimica et Cosmochimica Acta*, v. 299, p. 130-150, 10.1016/j.gca.2021.01.045 0016-7037

*Waldman, RJ, KM Marsaglia, R Hickey-Vargas, O Ishizuka, KE Johnson, A McCarthy, GM Yogodzinski, E Samajpati, H Li, K Laxton, IP Savov, S Meffre, RJ Arculus, A Bandini, AP Barth, K Bogus, PA Brandl, M Burnis, F Jiang (2020) Sedimentary and volcanic record of the nascent Izu-Bonin-Mariana arc from IODP Site U1438, *Geological Society of America Bulletin*, 10.1130/B35612.1

Nielsen, SG, Y Shu, M Auro, GM Yogodzinski, R Shinjo, T Plank, SM Kay, TJ Horner, (2020) Barium isotope systematics of subduction zones, *Geochimica et Cosmochimica Acta*, v. 275, p. 1-18, 10.1016/j.gca.2020.02.006

*Siegrist, M., GM Yogodzinski, M Bizimis, J Fournelle, T Churikova, C Dektor, and R Mobley (2019) Fragments of metasomatized forearc: Origin and implications of mafic and ultramafic xenoliths from Kharchinsky Volcano, Kamchatka, *Geochemistry, Geophysics, Geosystems*, v. 20, p. 4426-4456, 10.1029/2019GC008478

Tomanikova, L., IP Savov, J Harvey, JCM de Hoog, TG Churikova, B Godeychik and GM Yogodzinski (2019) A limited role for metasomatized subarc mantle in the generation of boron isotope signatures of arc volcanic rocks, *Geology*, v. 47, p. 517-521, 10.1130/G46092.1

McCarthy, A, GM Yogodzinski, FJ Tepley, M Bizimis, R Arculus, and O Ishizuka (2019) Isotopic characteristics of Neogene-Quaternary tephra from IODP Site U1438: A record of explosive volcanic activity in the Kyushu-Ryukyu arc, submitted to the *Geophysics-Geochemistry-Geosystems*, v. 20, p 2318-2333, 10.1029/2019GC008267

- Ishizuka, O, R Hickey-Vargas, RJ Arculus, GM Yogodzinski, Y Kusano, A McCarthy, IP Savov and M Sudo (2018) Age of Izu-Bonin-Mariana arc basement, *Earth and Planetary Science Letters*, v. 481, p. 80-90 10.1016/j.epsl.2017.10.023.
- Yogodzinski, GM, M Bizimis, R Hickey-Vargas, A McCarthy, *BD Hocking, IP Savov, O Ishizuka, and R Arculus, (2018) Implications of Eocene-Age Philippine Sea and Forearc Basalts for initiation and early history of the Izu-Bonin-Mariana Arc, *Geochemica et Cosmochimica Acta*, v. 228, p. 136-156, 10.1016/j.gca.2018.02.047
- Hickey-Vargas, R, GM Yogodzinski, O Ishizuka, A McCarthy, M Bizimis, Y Kusano, IP Savov, and R Arculus, (2018) Origin of depleted basalts during subduction initiation: Evidence from IODP Expedition 351 Site U1438, Amami Sankaku Basin, *Geochemica et Cosmochimica Acta*, v. 229, p. 85-111, 10.1016/j.gca.2018.03.007
- Garrison, JM, KWW Sims, GM Yogodzinski, SS Scott, R Escobar, PA Mothes, ML Hall, and P Ramon, (2018) Shallow-level differentiation of phonolitic lavas from Sumaco Volcano, Ecuador, *Contributions to Mineralogy and Petrology*, v. 173, 10.1007/s00410-017-1431-4
- Yogodzinski, GM, PB Kelemen, K Hoernle, *ST Brown, I Bindeman, JD Vervoort, KWW Sims, M Portnyagin, R Werner (2017) Sr and O isotopes in western Aleutian seafloor lavas: Implications for the source of fluids and trace element character of arc volcanic rocks. *Earth and Planetary Science Letters*, doi:10.1016/j.epsl.2017.07.007
- Nielsen, S. G., Yogodzinski, G. M., Prytulak, J., Plank, T., Kay, S. M., Kay, R. W., Blusztajn, J., Owens, J. D., Auro, M., Kading, T. (2016). Tracking along-arc sediment inputs to the Aleutian arc using thallium isotopes. *Geochemica et Cosmochimica Acta*, doi:10.1016/j.gca.2016.03.010
- Arculus, R., Ishizuka, O., Bogus, K. A., Gurnis, M., Hickey-Vargas, R., Aljahdali, M. H., Bandini, A. N., Barth, A. P., Brandl, P. A., Drab, L., do Monte Guerra, R., Hamada, M., Jiang, F., Kanayama, K., Kender, S., Kusano, Y., Li, H., Loudin, L. C., Maffione, M., Marsaglia, K. M., McCarthy, A., Meffre, S., Morris, A., Neuhaus, M., Savov, I. P., Sena, C., Tepley, F. J., van der Land, C., Yogodzinski, G. M., Zhang, Z. (2015). Subduction initiation on an extended Philippine Sea Plate: Izu-Bonin-Mariana Arc inception. *Nature Geoscience*, doi:10.1038/NGEO2515
- Yogodzinski, G. M., *Brown, S. T., Kelemen, P. B., Vervoort, J. D., Portnyagin, M., Sims, K. W. W., Hoernle, K., Jicha, B., Werner, R. (2015). The role of subducted basalt in the source of island arc magmas: evidence from seafloor lavas of the western Aleutians. *Journal of Petrology*, doi: 10.1093/petrology/egv006
- Gazel, E., Hayes, J., Hoernle, K., Kelemen, P. B., Everson, E., Holbrook, W. S., Hauff, F., van den Bogaard, P., Vance, E. A., Chu, S., Calvert, A. J., Carr, M. J., Yogodzinski, G. M.

(2015). Continental crust generated in oceanic arcs. *Nature Geoscience*, doi:10.1038/NGEO2392

- Chadwick, J., Keller, R., Kamenov, G., Yogodzinski, G. M., Lupton, J. (2014). The Cobb Hotspot: HIMU-DMM mixing and melting controlled by a progressively thinning lithospheric lid *Geochemistry, Geophysics, Geosystems*, doi:10.1002/2014GC005334
- Khanna, T. C., Bizimis, M., Yogodzinski, G. M., Mallick, S. (2014). Hafnium-neodymium isotope systematics of the 2.7 Ga Gadwal greenstone terrane, eastern Dharwar craton, India: Implications for the evolution of the Archean depleted mantle. *Geochimica et Cosmochimica Acta*, doi:10.1016/j.gca.2013.11.024
- Mobley, R. M., Yogodzinski, G. M., Creaser, R. A., Berry, J. M. (2014). Geologic history and timing of mineralization at the Haile Gold Mine, South Carolina. *Economic Geology* 109, 1863-1881.
- Simon, A., Yogodzinski, G. M., Robertson, K., E., S., Selyangin, O., Kiryukhin, A., Mulcahy, S. R., Walker, J. D. (2014). Evolution and genesis of volcanic rocks from Mutnovsky Volcano, Kamchatka, *Journal of Volcanology and Geothermal Research*, doi:10.1016/j.jvolgeores.2014.09.003
- Patiño Douce, A. E., Roden, M. F., Chaumba, J., Fleisher, C., and Yogodzinski, G. M., 2011, Compositional variability of terrestrial mantle apatites, thermodynamic modeling of apatite volatile contents, and the halogen and water budgets of planetary mantles: *Chemical Geology*, doi: 10.1016/j.chemgeo.2011.05.018
- Yogodzinski, G. M., Vervoort, J. D., *Brown, S. T., and Gerseny, M., 2010, Subduction controls of Hf and Nd isotopes in lavas of the Aleutian island arc: *Earth and Planetary Science Letters*, doi: 10.1016/j.epsl.2010.09.035
- Zimmer, M. M., Plank, T., Hauri, E. H., Yogodzinski, G. M., Stelling, P., Larsen, J., Singer, B., Jicha, B., Mandeville, C., and Nye, C. J., 2010, The role of water in generating the calc-alkaline trend: New volatile data for Aleutian magmas and a new tholeiitic index: *Journal of Petrology*, doi: :10.1093/petrology/egq062
- *Bryant, J. A., Yogodzinski, G. M., and Churikova, T. G., 2010, High-Mg# andesitic lavas of the Shisheisky Complex, Northern Kamchatka: implications of primitive calc-alkaline magmatism: *Contributions to Mineralogy and Petrology*, doi:10.1007/s00410-010-0565-4
- Kelemen, P. B., and Yogodzinski, G. M., 2007, High-magnesian andesite from Mount Shasta: A product of magma mixing and contamination, not a primitive melt: COMMENT: *Geology*, doi: 10.1130/G24099C.1

- Yogodzinski, G. M., and Kelemen, P. B., 2007, Trace elements in clinopyroxenes from Aleutian xenoliths: Implications for primitive subduction magmatism in an island arc: *Earth and Planetary Science Letters*, doi:10.1016/j.epsl.2007.02.015
- *Bryant, J. A., Yogodzinski, G. M., and Churikova, T., 2007, Evidence of Melt-Mantle Interaction from Ultramafic Xenoliths from Shiveluch Volcano, Kamchatka, *Geochemistry Geophysics Geosystems*, doi:10.1029/2006GC001443
- *Bryant, J. A., Yogodzinski, G. M., Hall, M. L., Lewicki, J., and Bailey, D. G., 2006, Geochemical Constraints on the Source of Volcanic Rocks from the Andean Northern Volcanic Zone, Ecuador: *Journal of Petrology*, doi:10.1093/petrology/egl006
- Jicha, B. R., Scholl, D. W., Singer, B. S., Yogodzinski, G. M., and Kay, S. M., 2006, Revised age of Aleutian Island arc formation implies high rate of magma production: *Geology*, doi:10.1130/G22433.1
- Bindeman, I. N., Eiler, J. M., Yogodzinski, G. M., Tatsumi, Y., Stern, C. R., Grove, T. L., Portnyagin, M., Hoernle, K., and Danushevsky, L. V., 2005, Oxygen isotope evidence for slab melting in modern and ancient subduction zones: *Earth and Planetary Science Letters*, doi:10.1016/j.epsl.2005.04.014
- Saha, A., Basu, A., Jacobsen, S., Poreda, R., Yin, Q., and Yogodzinski, G. M., 2005, Slab devolatilization and Os and Pb mobility in the mantle wedge of the Kamchatka arc: *Earth and Planetary Science Letters*, doi:10.1016/j.epsl.2005.05.018
- Münker, C., Wörner, G., Yogodzinski, G. M., and Churikova, T., 2004, Behavior of high field strength elements in subduction zones: Constraints from Kamchatka-Aleutian arc lavas: *Earth and Planetary Science Letters*, doi:10.1016/j.epsl.2004.05.030
- Kelemen, P. B., Yogodzinski, G. M., and Scholl, D. W., 2003, Along-strike variation in lavas of the Aleutian Island Arc: Implications for the genesis of high Mg# andesite and the continental crust, in Eiler, J., ed., *Inside the Subduction Factory*, Geophysical Monograph 138: Washington D.C., American Geophysical Union, p. 223-276.
- Yogodzinski, G. M., Lees, J. M., Churikova, T. G., Dorendorf, F., Wörner, G., and Volynets, O. N., 2001, Geochemical evidence for the melting of subducting oceanic lithosphere at plate edges: *Nature*, v. 409, p. 500-504.
- Yogodzinski, G. M., and Kelemen, P. B., 1998, Slab melting in the Aleutians: implications of an ion probe study of clinopyroxene in primitive adakite and basalt: *Earth and Planetary Science Letters*, v. 158, p. 53-65.

- Yogodzinski, G. M., Naumann, T. R., Smith, E. I., Bradshaw, T. K., and Walker, J. D., 1996, Evolution of a mafic volcanic field in the central Great Basin, south-central Nevada: *Journal of Geophysical Research*, v. 101, p. 17425-17445.
- Volynets, O. N., Koloskov, A. V., Vinogradov, V. I., Yogodzinski, G. M., Pokrovskii, B. G., and Grigor'ev, V. S., 1995, Strontium and oxygen isotope compositions of Late Cenozoic K-Na alkalic basalts of the within-plate geochemical type in Kamchatka: *Petrology*, v. 3, p. 183-188.
- Yogodzinski, G. M., Kay, R. W., Volynets, O. N., Koloskov, A. V., and Kay, S. M., 1995, Magnesian andesite in the western Aleutian Komandorsky region: Implications for slab melting and processes in the mantle wedge: *Geological Society of America Bulletin*, v. 107, no. 5, p. 505-519.
- Yogodzinski, G. M., Volynets, O. N., Koloskov, A. V., Seliverstov, N. I., and Matvenkov, V. V., 1994, Magnesian andesites and the subduction component in a strongly calc-alkaline series at Piip Volcano, far western Aleutians: *Journal of Petrology*, v. 35, no. 1, p. 163-204.
- Yogodzinski, G. M., Rubenstone, J. L., Kay, S. M., and Kay, R. W., 1993, Magmatic and tectonic development of the western Aleutians: An oceanic arc in a strike-slip setting: *Journal of Geophysical Research*, v. 98, p. 11807-11834.