

ALLEN F. GLAZNER

Mary Lily Kenan Flagler Bingham Distinguished Professor Emeritus Department of Earth, Marine and Environmental Sciences, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-331, afg@unc.edu

Education

- 1972 - 1976 Pomona College, Claremont, California, B.A. Cum Laude in Geology, June 1976
- 1976 - 1981 University of California at Los Angeles: Ph.D. in Geology, August 1981. Thesis: "Cenozoic Evolution of the Mojave Block and Adjacent Areas" (Adviser: Art Montana)

Honors and Awards

Mineralogical Society of America Distinguished Lecturer, 2018-2019
 J. Carlyle Sitterson Freshman Teaching Award, 2011
 Named Mary Lily Kenan Flagler Bingham Distinguished Professor of Geological Sciences, 2009
 Woodford-Eckis Lecturer at Pomona College, 2008
 Chapman Family Faculty Fellow, Fall 2007
 Tanner Award for Excellence in Undergraduate Teaching, 2000
 Samuel Shepard Jones Professor of Geology, 1993-1999 (term chair)
 Fellow of the Geological Society of America, 1990
 National Science Foundation Fellowship for graduate studies, 1976-1980

Professional Experience

- 2009-2019 Distinguished Professor, University of North Carolina, Chapel Hill
- 2008-2013 Department Chair
- 1999 - 2002 Co-editor, Geological Society of America Bulletin
- 2001 Acting Chair (Fall semester)
- 1991 Acting Editor, Journal of Geophysical Research (Volcanology and Petrology)
- 1993 - 2009 Professor of Geological Sciences, University of North Carolina, Chapel Hill
- 1988 - 1993 Associate Professor of Geology, University of North Carolina, Chapel Hill
- 1981-1988 Assistant Professor of Geology, University of North Carolina, Chapel Hill
- 1976 - 1981 Graduate student, University of California, Los Angeles
- 1975 - 1976 U.S. Geological Survey, Menlo Park, California: Field Assistant. Performed precise distance, leveling, and creep measurements across major faults in California.

Research Interests

Igneous petrology: mechanisms and timescales of pluton assembly; interplays between magmatism, climate, and tectonics; causes of volcanism; mass balance in subduction zones; genesis of Cenozoic and Mesozoic igneous rocks in the southwestern United States

Tectonics: interplay between magmatism and tectonism; structural geology of magma emplacement; reconciling geologic, seismic, and geodetic images of magma chambers; role of lithospheric processes in climate-volcanism feedback; use of igneous rocks to understand tectonic processes

Geoinformatics: analysis of large databases of geochemical data using advanced search, statistical, and animation methods

Geoscience education: transforming undergraduate classes from lecture-based to inquiry-based; incorporating original research into lower-level undergraduate courses

Geology of western North America: development of the Sierra Nevada batholith; Tertiary extension and volcanism in the southwestern United States; timing and nature of volcanism, faulting, and basin formation in the southwestern United States as a function of plate-tectonic events

Notable Teaching

J. Carlyle Sitterson Freshman Teaching Award, 2011

Incorporated original research projects into First-Year Seminar on “Field Geology of Eastern California”, 2009

Tanner Award for Excellence in Undergraduate Teaching, 2000

Taught inaugural Burch Field Research Seminar (12-week field experience for undergraduates) in eastern California, Fall 1999

Taught inaugural First-Year Seminar on “Volcanoes and Civilization” (program instituted in 2000)

Taught First-Year Seminar on “Field Geology of Eastern California” since 2002

Field Trips Led

Principal leader of September 2019 Geological Society of America field trip “Pluton Construction in the Sierra Nevada Viewed Using the StraboSpot Field Data System”

Principal leader of June 2014 Goldschmidt Conference field trip “Silicic Magmatism: Plutonism in Yosemite National Park and Volcanism in Long Valley Caldera”; co-wrote and edited guidebook

Co-leader of September 2011 Bostok Conference field trip and meeting on “Layered granodiorites of the eastern Sierra Nevada”

Co-leader of March 2008 G.S.A. Cordilleran Section field trip on “Active Tectonics of the Eastern California Shear Zone”; co-wrote guidebook

Co-leader of October 2005 Geological Society of America Field Forum “Rethinking the Assembly and Evolution of Plutons: Field Tests and Perspectives”; co-wrote guidebook

Principal leader of G.S.A. Cordilleran Section field trip “Large dextral offset across Owens Valley, California from 148 Ma to 1872 A.D.”, May 2005; co-wrote and edited guidebook

Co-leader of G.S.A. Cordilleran Section field trip to Mesozoic convergent margin, June 1999; co-wrote guidebook

Co-leader of G.S.A. Cordilleran Section field trip “Independence dikes and mafic rocks of the eastern Sierra”, April 1998; co-wrote and edited guidebook

Principal leader of G.S.A. Cordilleran Section tectonics field trip “Reconstruction of the Mojave Block”, March 1994; co-wrote and edited guidebook

Co-leader of G.S.A. Cordilleran Section volcanology field trip to western Arizona and the Mojave Desert, March 1986; co-wrote and edited guidebook

Co-leader of G.S.A. Cordilleran Section tectonics field trip to the Mojave Desert, Anaheim, California, April 1982; co-wrote and edited guidebook

Other Activities

Co-editor of issue of *Elements* on “The Enigmatic Relationship Between Silicic Plutonic and Volcanic Rocks”

Featured in Japanese television NHK program *Great Nature* on Death Valley, April 2015

Featured in *The Waltz of the Continents: North America*, television episode about Yosemite National Park by La Compagnie des Taxi-Brousse, France, 2014

Featured in Yosemite Nature Notes video podcast Episode 20, *Granite*, 2013

(<http://www.nps.gov/yose/photosmultimedia/ynn.htm>)

Featured in History Channel television episode *How the Earth Was Made: Yosemite*, 2010

Taught classroom and field geology to NASA astronaut candidates, 2010

Taught field geology to NASA flight engineers, 2009

Invited speaker at Penrose Conference on "Arc crustal genesis", Valdez, Alaska, July 2006

Invited speaker at Penrose Conference on "Kinematics and geodynamics of intra-plate dextral shear in eastern California and western Nevada", Mammoth Lakes, California, April 2005

Invited speaker at Penrose Conference on "Exhumation Processes: Normal Faulting, Ductile Flow, and Erosion", Crete, October 1996

Acting Editor, *Journal of Geophysical Research (Volcanology and Petrology)*, March-December 1991

Associate Editor, *Geological Society of America Bulletin*, 1989-1995

Associate Editor, *Journal of Geophysical Research (Volcanology and Petrology)*, December 1991-1995

Associate Chair, 1989-1992; 1999-2002

Guest Editor of special issue of the *Journal of Geophysical Research* on "Mid-Tertiary Cordilleran Magmatism: Plate-Convergence vs. Intraplate Processes"

Theses Supervised

Loomis, Dana P., 1984, Miocene stratigraphic and tectonic evolution of the El Paso Basin, California (M.S.)

Turner, Ryan D., 1985, Miocene folding and faulting of an evolving volcanic center in the Castle Mountains, southeastern California and southern Nevada (M.S.)

Sanner, Wayne K., 1985, Tectonic significance of early Miocene basin formation in the Box Canyon area, Mojave Desert, California (M.S.)

Hughes, William T., 1986, Geochemical evolution of basalts from Amboy and Pisgah lava fields, Mojave Desert, California (M.S.)

Ussler, William III, 1988, Experimental and theoretical studies of mixed magmas (Ph.D.)

Boettcher, Stefan S., 1990, Structure and petrology of Iron Mountain, central Mojave Desert, California (M.S.)

Miller, Jonathan S., 1994, Geochemical and isotopic investigations of Mesozoic magmatism and crustal structure in the central and western Mojave Desert, California (Ph.D.)

Bradford, Kevin J., 1995, Petrology of a mafic intrusive suite in the central Sierra Nevada batholith, California (M.S.)

Mihok, Peter, 1995, Pyroxenes as indicators of peridotite xenolith residence time in alkalic basalt and the petrogenesis of siliceous high-magnesium basalts (M.S.)

Waits, J.R., 1995, Geochemical and isotopic study of peridotite-bearing lavas in eastern California (M.S.)

Groves, Kristelle R., 1996, Petrology of basalts from the Volcano Peak area, Coso volcanic field, California (M.S.)

Ratajeski, Kent, 1999, Field, geochemical, and experimental study of mafic to felsic plutonic rocks associated with the Intrusive Suite of Yosemite Valley, California (Ph.D.)

Carl, Brian S., 2000, Structure, intrusion, and tectonic origin of the Independence dike swarm, eastern California (Ph.D.)

Gray, Walter, 2003, Chemical and thermal evolution of the Late Cretaceous Tuolumne Intrusive Suite, Yosemite National Park, California (Ph.D.)

- Kylander-Clark, Andrew, 2003, Testing hypotheses for large displacement across Owens Valley, California (M.S.)
- Taylor, Ryan D., 2004, Structure and petrology of an interpluton screen at May Lake, Yosemite National Park, California (M.S.)
- Roelofs, Austin, 2004, Tertiary magmatism near Sonora Pass: arc and non-arc magmatism in the central Sierra Nevada (M.S.)
- Mordick, Briana, 2005, Testing and application of a clinopyroxene thermobarometer on basalts from the Coso and Big Pine volcanic fields, California (M.S.)
- Gaschnig, Richard, 2005, Cause, timing, and significance of brittle deformation in Little Lakes Valley, eastern Sierra Nevada, California
- Johnson, Breck, 2008, Formation of K-feldspar megacrysts in granodiorite plutons by thermal cycling and late-stage textural coarsening (M.S.)
- Mills, Ryan, 2008, Scale of pluton/wall rock interaction in the Tuolumne Intrusive Suite, Yosemite National Park, California (M.S.)
- Schrecengost, Kevin, 2010, Geochemistry and U/Pb zircon geochronology of the Virgin Islands batholith, British Virgin Islands (M.S.)
- Foley, Emily, 2010, Origin of modal layering in granodiorite at Rock Creek, eastern California (M.S.)
- Ackerson, Michael, 2011, Trace element partitioning between titanite and groundmass in silicic volcanic systems (M.S.)
- Moore, Jessica, 2011, Relationships of Pliocene magmatism in the northern Sierra Nevada Range to lithospheric delamination and the ancestral Cascade Range (M.S.)
- Mills, Ryan, 2012, Re-evaluating pluton/volcano connections and igneous textures in light of incremental magma emplacement (Ph.D., co-advisor)
- Ireland, Kayla, 2012, Origin of mafic enclaves and their feldspar phenocrysts in the El Capitan Granite, Yosemite National Park, California (M.S.)
- Putnam, Roger, 2013, Understanding plutonism in three dimensions: Field and geochemical relations on the southeast face of El Capitan, Yosemite Valley, CA (M.S.)
- Curry, Adam, 2013, The role of shear heating in producing crystal-poor obsidian (M.S.)
- DeDecker, John, 2015, Correlating lava tube morphology with the petrologic and petrographic characteristics of the host rock (M.S.)
- Bauer, Janelle, 2015, Complex zoning patterns and rare earth element variations across titanite crystals from the Half Dome Granodiorite, Yosemite National Park, California (M.S.)
- Wickland, Tyler, 2016, Experimental effects of thermal cycling on titanite morphology and growth (M.S.)
- Munnikhuis, Jonathan, 2016, Variation of Sr and Pb isotopes in megacrystic K-feldspar from the Cathedral Peak Granodiorite, California (M.S.)

External Research Funding

Total external funding on non-equipment grants, excluding Dept. of Education grant: \$2.92M; P.I. or co-P.I. on equipment grants totaling \$1.94M

Amount: \$24,047
 Title: "Mapping Half Dome in Four Dimensions: Geology, Hazards, Climbing, and People"
 Agency: National Geographic Society
 Period: May 1, 2017 to April 30, 2018

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Amount: \$171,875 (total award \$1.4M)
Title: "EarthCube Data Infrastructure: Collaborative Proposal: Development of an Integrated Data System for the Geological Field Sciences"
Agency: National Science Foundation
Period: September 1, 2016 to August 31, 2019

Amount: \$118,220
Title: "Pea Island Heavy Mineral Inventory"
Agency: North Carolina Department of Transportation
Period: January 12, 2015 to December 31, 2019

Amount: \$451,508
Title: "MRI: Acquisition of a New Thermal Ionization Mass Spectrometer for High-Precision Isotope Chronology and Chemistry" (4 PIs; Drew Coleman, lead PI)
Agency: National Science Foundation
Period: August 1, 2013 to July 31, 2014

Amount: \$292,301
Title: "Effect of Temperature Cycling on Crystal Size, Crystal Alignment, and Approach to Equilibrium in Magmas"
Agency: National Science Foundation
Period: January 1, 2013 to December 31, 2015

Amount: \$14,955
Title: "Mapping a Volcano's Roots in 3D: The Cliffs of El Capitan, Yosemite Valley, California"
Agency: National Geographic Society
Period: April 5, 2012 to April 4, 2013

Amount: \$410,116
Title: "MRI: Acquisition of a Laser Ablation Inductively Coupled Plasma Mass Spectrometer (LA-ICP-MS) for Earth and Marine Science Research" (4 PIs; Justin Ries, lead PI)
Agency: National Science Foundation
Period: September 1, 2011 to August 31, 2012

Amount: \$40,728
Title: "Pilot Study: Effect of Temperature Cycling on Crystal Size and Alignment in Magmas"
Agency: National Science Foundation
Period: September 1, 2010 to August 31, 2011

Amount: \$121,988
Title: "Acquisition of an X-ray Fluorescence Spectrometer for Research in Petrology and Paleoclimatology"
Agency: National Science Foundation
Period: June 1, 2009 to May 31, 2010

Amount: \$1.25M

Title: "UNC-Best: A Program at the University of North Carolina-Chapel Hill for Baccalaureate Degrees in Biology, Physics, Mathematics, and Geological Sciences with Concurrent North Carolina Teacher Certification" (one of several PIs)
 Agency: Department of Education
 Period: October 1, 2008 to September 30, 2013

Amount: \$75,219
 Title: "Collaborative Research: Facility Support: Completing the Western North American Volcanic and Intrusive Rock Database (NAVDAT)"
 Agency: National Science Foundation
 Period: August 15, 2006 to July 31, 2011

Amount: \$141,100
 Title: "Collaborative Research: Lithospheric removal: The Sierra Nevada as the prototype of a fundamental process in mountain building"
 Agency: National Science Foundation
 Period: June 15, 2006 to July 31, 2011

Amount: \$285,984
 Title: "Collaborative Research: Testing the Timescale and Geometry of Incremental Pluton Assembly Through 3-D Modeling and Thermochronology" (co-PI w/ D.S. Coleman)
 Agency: National Science Foundation
 Period: January 1, 2006 to December 31, 2008

Amount: \$216,518
 Title: "Petrologic Synthesis of the Coso Volcanic Field and Surrounding Areas"
 Agency: Naval Air Warfare Center, China Lake
 Period: July 15, 2004 to December 31, 2006

Amount: \$122,149
 Title: "Are Plutons Assembled Over Long Periods of Time Through Amalgamation of Small Ephemeral Magma Chambers?"
 Agency: National Science Foundation
 Period: January 1, 2004 to December 31, 2006

Amount: \$111,830
 Title: "Development of data visualization and query tools for NAVDAT, western North American volcanic and intrusive rock database" (collaborative with Univ. of Kansas, Univ. of Colorado, and Carnegie Institution of Washington; total award \$490,000)
 Agency: National Science Foundation
 Period: September 1, 2003 to August 31, 2006

Amount: \$238,888
 Title: "Fault kinematics of the Coso region, eastern California: testing hypotheses for significant right-lateral offset along Owens Valley" (co-PI w/ D.S. Coleman)
 Agency: Naval Air Warfare Center, China Lake
 Period: September 1, 2001 to September 30, 2003

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Amount: \$68,487
 Title: "Development of a Western North American Volcanic and Intrusive Rock Database"
 (collaborative with Univ. of Colorado, Univ. of Kansas, Carnegie Institute of Washington, and
 U.S. Geological Survey; total award, \$250,000)
 Agency: National Science Foundation and Naval Air Warfare Center
 Period: September 2001 to August 2003

Amount: \$40,720
 Title: "Interpluton wall rock screens in the Sierra Nevada and their bearing on pluton
 emplacement processes"
 Agency: National Science Foundation
 Period: January 1, 1999 to December 31, 2001

Amount: \$30,000
 Title: "Melting behavior of mafic lower crust in continental arcs"
 Agency: National Science Foundation
 Period: June 1, 1998 to November 1, 1999

Amount: \$150,000
 Title: "Cooperative Agreement: Geologic and Geophysical Synthesis of the Southwestern Basin
 and Range and Mojave Desert" (collaborative project with the University of Kansas)
 Agency: Naval Air Warfare Center, China Lake
 Period: September 1, 1997 to March 31, 2001

Amount: \$200,001
 Title: "Petrologic studies of the Coso and Eagle Crags volcanic fields"
 Agency: Naval Air Warfare Center, China Lake
 Period: September 29, 1995 to March 28, 1998

Amount: \$117,548
 Title: "Age, deformation, and significance of the Independence dike swarm, California"
 Agency: National Science Foundation
 Period: March 1, 1996 to August 31, 1998

Amount: \$82,943
 Title: "Continental Mountains in Extensional Environments: The Sierran Paradox. A Collaborative
 Research Proposal" (Subproject of Continental Dynamics Proposal)
 Agency: National Science Foundation
 Period: August 15, 1996 to July 31, 2000

Amount: \$170,000
 Title: "Request for Renovation of an Isotope Geochemistry Laboratory for North Carolina Triangle
 Universities Consortium" (multi-P.I. proposal; P. Fullagar, principal P.I.)
 Agency: National Science Foundation
 Period: November 15, 1996 to October 31, 1998

Amount: \$120,000
 Title: "Time-space variability of mafic plutons in the Sierra-Mojave batholith"

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Agency: National Science Foundation
 Period: January 1, 1993 to December 31, 1996

Amount: \$102,000
 Title: "Acquisition of a scanning electron microscope facility for the Triangle Earth Science Analytical Consortium" (multi-P.I. proposal; T. Bralower, principal P.I.)

Agency: National Science Foundation
 Period: June 1, 1993 to May 31, 1994

Amount: \$84,946
 Title: "Causes of isotopic variability in basalts from southern California: isotopic and experimental studies"

Agency: National Science Foundation
 Period: July 1, 1992 to May 31, 1994

Amount: \$50,000
 Title: "Acquisition of a direct current plasma spectrometer"

Agency: National Science Foundation
 Period: January 1, 1992 to December 31, 1992

Amount: \$60,000
 Title: "A geochronologic, geochemical, and isotopic study of Mesozoic plutonism in the central and western Mojave Desert"

Agency: National Science Foundation
 Period: March 1, 1990 to April 30, 1992

Amount: \$25,000 (total award to UNC, Univ. of Utah, and Univ. of Kansas: \$120,000)
 Title: "Magnitude, timing, and paleogeographic significance of Mesozoic compression and Cenozoic extension in the central Mojave Desert, California"

Agency: National Science Foundation
 Period: March 1, 1990 to April 30, 1992

Amount: \$168,416
 Title: "Thermal ionization mass spectrometry facility for Triangle area universities: North Carolina, Duke, North Carolina State" (multi-P.I. proposal; P. Fullagar, principal P.I.)

Agency: National Science Foundation
 Period: August 1, 1990 to July 31, 1992

Amount: \$31,400 (total award to UNC and Univ. of Colorado: \$113,900)
 Title: "Cenozoic tectonic and magmatic evolution of the Mojave Desert: constraints from isotopic and trace-element compositions of volcanic rocks"

Agency: National Science Foundation
 Period: December 1, 1988 to November 30, 1990

Amount: \$5682 (total 1-year award to UNC, Univ. of Utah, and Univ. of Kansas: \$50,000)
 Title: "Magnitude, timing, and paleogeographic significance of Mesozoic compression and Cenozoic extension in the central Mojave Desert, California"

Agency: National Science Foundation

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Period: January 1, 1989 to December 31, 1989
 Amount: \$35,000
 Title: "Activity-composition relations in silicate melts"
 Agency: Department of Energy
 Period: February 1, 1988 to December 31, 1989

Amount: \$75,717
 Title: "Activity-composition relations in silicate melts"
 Agency: Department of Energy
 Period: August 1, 1985 to July 31, 1987

Amount: \$64,600
 Title: "Petrology, age, and correlation of Tertiary volcanic rocks in the Mojave block, California"
 Agency: National Science Foundation
 Period: March 15, 1983 to February 28, 1986

Amount: \$12,000
 Title: "Geologic effects of Tertiary subduction of the Mendocino fracture zone under the southwestern United States"
 Agency: Petroleum Research Fund
 Period: April 1, 1982 to August 31, 1984

PUBLICATIONS

Publications in Refereed Journals

Glazner, A. F., Baker, V. R., Bartley, J. M., Bohacs, K. M., and Coleman, D. S., 2022, The rocks don't lie, but they can be misunderstood: *GSA Today*, in press.

Glazner, A. F., 2022, Cenozoic magmatism and plate tectonics in western North America: have we got it wrong?: *in* Foulger, G.R., Hamilton, L.C., Jurdy, D.M., Stein, C.A., Howard, K.A., and Stein, S., eds., *In the Footsteps of Warren B. Hamilton: New Ideas in Earth Science: Geological Society of America Special Paper 553*, p. 1–14, [https://doi.org/10.1130/2021.2553\(09\)](https://doi.org/10.1130/2021.2553(09)).

Glazner, A. F., & McNutt, S. R., 2021, Relationship between dike injection and *b*-value for volcanic earthquake swarms: *Journal of Geophysical Research: Solid Earth*, v. 126, e2020JB021631. <https://doi.org/10.1029/2020JB021631>

Glazner, A. F., 2021, Thermal constraints on the longevity, depth, and vertical extent of magmatic systems. *Geochemistry, Geophysics, Geosystems*, v. 22, e2020GC009459. <https://doi.org/10.1029/2020GC009459>

Glazner, A. F., Bartley, J. M., and Law, B. S., 2021, Immiscibility and the origin of ladder structures and schlieren in plutons: *Geology*, v. 49, p. 86–90, doi.org/10.1130/G47634.1.

Glazner, A. F., and Walker, J. D., 2020, StraboTools: a mobile app for quantifying fabric in geology: *GSA Today*, v. 30, doi.org/10.1130/GSATG454A.1. (August issue)

- Glazner, A.F., Bartley, J.M., Coleman, D.S., and Lindgren, K., 2020, Aplite diking and infiltration: a differentiation mechanism restricted to plutonic rocks: *Contributions to Mineralogy and Petrology*, v. 175, doi:10.1007/s00410-020-01677-1.
- Farmer, G.L., Fritz, D., and Glazner, A.F., 2020, Identifying metasomatized continental lithospheric mantle involvement in Cenozoic magmatism from Ta/Th Values, southwestern North America: *Geochemistry, Geophysics, Geosystems*, doi:10.1029/2019GC008499.
- Bartley, J.M., Glazner, A.F., Stearns, M.A., and Coleman, D.S., 2020, The granite aqueduct and autometamorphism of plutons: *Geosciences*, v. 10, doi:10.3390/geosciences10040136.
- Glazner, A.F., 2020, Climate and the development of magma chambers: *Geosciences (Switzerland)*, v. 10, doi:10.3390/geosciences10030093.
- Glazner, A.F., 2019, The ascent of water-rich magma and decompression heating: A thermodynamic analysis: *American Mineralogist*, v. 104, p. 890–896, doi:10.2138/am-2019-6925.
- Treiman, A. H., Kulis, M., and Glazner, A. F., 2019, Spinel-anorthosites on the Moon: impact melt origins suggested by enthalpy constraints: *American Mineralogist*, v. 104, p. 370-384.
- Glazner, A. F., Bartley, J. M., and Coleman, D. S., 2019, A more informative way to name plutonic rocks: *GSA Today*, v. 29, doi.org/10.1130/GSATG384A.1.
- Bartley, J.M., Glazner, A.F., and Coleman, D.S., 2018, Dike intrusion and deformation during growth of the Half Dome pluton, Yosemite National Park, California: *Geosphere*, v. 14, no. 3, doi:10.1130/GES01458.1.
- *Challener, S. C., and Glazner, A. F., 2017, Igneous or metamorphic? Hornblende phenocrysts as greenschist facies reaction cells in the Half Dome Granodiorite, California: *American Mineralogist*, v. 102, p. 436-444.
- Glazner, A. F., and P. M. Sadler, 2016, Estimating the duration of geologic intervals from a small number of age determinations: A challenge common to petrology and paleobiology, *Geochemistry Geophysics Geosystems*, 17, doi:10.1002/2016GC006542.
- Glazner, A. F., J. M. Bartley, and D. S. Coleman, 2016, We need a new definition for "magma": *Eos*, v. 97, doi:10.1029/2016EO059741. Published on 22 September 2016.
- Treiman, A. H., and 33 others including Glazner, A. F., 2016, Mineralogy, provenance, and diagenesis of a potassic basaltic sandstone on Mars: CheMin X-ray diffraction of the Windjana sample (Kimberley Area, Gale Crater): *Journal of Geophysical Research—Planets*, v. 121, p. 75–106, doi:10.1002/2015JE004932.
- Lundstrom, C. C., and Glazner, A. F., 2016, Silicic magmatism and the volcanic-plutonic connection: *Elements*, v. 12, p. 91-96, DOI: 10.2113/gselements.12.2.91
- Glazner, A. F., Coleman, D. S., and Mills, R. D., 2015, The volcanic-plutonic connection: in Breikreuz, C., and Rocchi, S., eds., *Physical Geology of Shallow Magmatic Systems: Dykes, Sills and Laccoliths*, *Advances in Volcanology*, Springer, DOI: 10.1007/11157_2015_11.
- Putnam, R., Glazner, A.F., Coleman, D.S., Kylander-Clark, A.R.C., Pavelsky, T., and Abbot, M.I., 2015, Plutonism in three dimensions: Field and geochemical relations on the southeast face of El Capitan, Yosemite National Park, California: *Geosphere*, v. 11, no. 4, p. 1–25, doi:10.1130/GES01133.1.
- Glazner, A. F., 2014, Magmatic life at low Reynolds number: *Geology*, v. 42, p. 935-938, doi:10.1130/G36078.1.
- Farmer, G. L., Glazner, A. F., Kortemeier, W. T., Cosca, M. A., Jones, C. H., Moore, J. E., and Schweickert, R. A., 2013, Mantle lithosphere as a source of post-subduction magmatism, northern Sierra Nevada, California: *Geosphere*, v. 9, p. 1102-1124.
- Cordes, S. E., Stock, G. M., Schwab, B. E., and Glazner, A. F., 2013, Supporting evidence for a 9.6 ± 1 ka rock avalanche originating from Glacier Point in Yosemite Valley, California: *Environmental & Engineering Geoscience*, v. 19, p. 345-361. (AEG Best Paper Award for 2014)

- Glazner, A. F., and Johnson, B. R., 2013, Late crystallization of K-feldspar and the paradox of megacrystic granites: *Contributions to Mineralogy and Petrology*, v. 166, p. 777-799.
- Mills, R. D., and Glazner, A. F., 2013, Experimental study on the effects of temperature cycling on coarsening of plagioclase and olivine in an alkali basalt: *Contributions to Mineralogy and Petrology*, v. 166, p. 97-111.
- Coleman, D. S., Bartley, J. M., Glazner, A. F., and Pardue, M. J., 2012, Is chemical zonation in plutonic rocks driven by changes in source magma composition, or shallow crustal differentiation?: *Geosphere*, v. 8, p. 1568-1587.
- Glazner, A. F., and Mills, R. D., 2012, Statistics of two-dimensional cuts through objects with a fractal size distribution: application to xenoliths, breccias, and enclaves: *Geosphere*, v. 8, p. 902-914, doi:10.1130/GES00731.1.
- Bartley, J. M., Glazner, A. F., and Mahan, K. H., 2012, Formation of pluton roofs, floors, and walls by crack opening at Split Mountain, Sierra Nevada, California: *Geosphere*, v. 8, p. 1-18, 1 plate, 1 kmz file.
- Mills, R. D., Ratner, J. J., and Glazner, A. F., 2011, Experimental evidence for crystal coarsening and fabric development during temperature cycling: *Geology*, v. 39, p. 1139-1142, doi:10.1130/G32394.1.
- Johnson, B. R., and Glazner, A. F., 2010, Formation of K-feldspar megacrysts in granodioritic plutons by thermal cycling and late-stage textural coarsening: *Contributions to Mineralogy and Petrology*, v. 159, p. 599-619, DOI 10.1007/s00410-009-0444-z.
- Mills, R. D., Glazner, A. F., and Coleman, D. S., 2009, Scale of pluton/wall rock interaction near May Lake, Yosemite National Park, California, USA: *Contributions to Mineralogy and Petrology*, v. 158, p. 263-281, doi: 10.1007/s00410-009-0381-x.
- Glazner, A. F., Coleman, D. S., and Bartley, J. M., 2008, The tenuous connection between high-silica rhyolites and granodiorite plutons: *Geology*, v. 36, p. 183-186, doi: 10.1130/G24496A.1.
- Gray, W., Glazner, A. F., Coleman, D. S., and Bartley, J. M., 2008, Long-term geochemical variability of the Late Cretaceous Tuolumne Intrusive Suite, central Sierra Nevada, California: *Geological Society of London Special Publication*, v. 304, p. 183-201.
- Glazner, A. F., Carl, B. S., Coleman, D. S., Miller, J. S., and Bartley, J. M., 2008, Chemical variability and composite nature of dikes from the Jurassic Independence dike swarm, eastern California: *Geological Society of America Special Paper 438*, p. 455-480.
- Bartley, J.M., Coleman, D.S., and Glazner, A.F., 2008, Incremental emplacement of plutons by magmatic crack-seal. In: N. Petford and S. Sparks (Editors), *Plutons and Batholiths*. *Transactions of the Royal Society of Edinburgh (Wallace Pitcher Memorial Issue)*, v. 97, p. 383-396.
- Glazner, A. F., 2007, Thermal limitations on incorporation of wall rock into magma: *Geology*, v. 35, p. 319-322, DOI: 10.1130/G23134A.1.
- Bartley, J.M., Glazner, A. F., Coleman, D. S., Kylander-Clark, A.R.C., Mapes, R., and Friedrich, A.M., 2007, Large Laramide dextral offset across Owens Valley, California, and its possible relation to tectonic unroofing of the southern Sierra Nevada: *Geological Society of America Special Paper 434*, p. 129-148.
- Glazner, A. F., and Bartley, J. M., 2006, Is stopping a volumetrically significant pluton emplacement process?: *Geological Society of America Bulletin*, v. 118, p. 1185-1195, DOI: 10.1130/B25738.1.
- Mordick, B. E., and Glazner, A. F., 2006, Clinopyroxene thermobarometry of basalts from the Coso and Big Pine volcanic fields, California: *Contributions to Mineralogy and Petrology*, v. 152, p. 111-124, DOI: 10.1007/s00410-006-0097-0.
- Walker, J. D., Bowers, T. D., Black, R. A., Glazner, A. F., Farmer, G. L., and Carlson, R. W., 2006, A geochemical database for western North American volcanic and intrusive rocks (NAVDAT), in Sinha, A. K., ed., *Geoinformatics: Data to Knowledge*: *Geological Society of America Special Paper 397*, p. 61-71.

- Ratajeski, K., Sisson, T. W., and Glazner, A. F., 2005, Experimental and geochemical evidence for derivation of the El Capitan Granite, California, from hydrous mafic lower crust: *Contributions to Mineralogy and Petrology*, v. 149, p. 713-734, doi: 10.1007/s00410-005-0677-4.
- Kylander-Clark, A. R. C., Coleman, D. S., Glazner, A. F., and Bartley, J. M., 2005, Evidence for 65 km of dextral slip across Owens Valley, California, since 83 Ma: *Geological Society of America Bulletin*, v. 117, p. 962-968.
- Sisson, T. W., Ratajeski, K., Hankins, W. B., and Glazner, A. F., 2005, Voluminous granitic magmas from basaltic sources: *Contributions to Mineralogy and Petrology*, v. 148, p. 635-661, DOI 10.1007/s00410-004-0632-9.
- Coleman, D. S., Gray, W., and Glazner, A. F., 2004, Rethinking the emplacement and evolution of zoned plutons: Geochronologic evidence for incremental assembly of the Tuolumne Intrusive Suite, California: *Geology*, v. 32, p. 433-436, doi: 10.1130/G20220.1.
- Glazner, A. F., Bartley, J. M., Coleman, D. S., Gray, W., and Taylor, R. Z., 2004, Are plutons assembled over millions of years by amalgamation from small magma chambers? *GSA Today*, v. 14, p. 4-11, doi: 10.1130/1052-5173(2004)014<0004:APAOMO>2.0.CO;21996.
- Whitney, D.L., Paterson, S.R., Schmidt, K.L., Glazner, A.F., and Kopf, C.F., 2004, Growth and demise of continental and orogenic plateaux in the North American Cordillera: from Baja to British Columbia. In: Grocott, J., McCaffrey, K., Taylor, G., and Tikoff, B. (eds.), *Vertical Coupling and Decoupling of the Lithosphere*, Geological Society of London Special Publication SP227.
- Mahan, K. H., Bartley, J. M., Coleman, D. S., Glazner, A. F., and Carl, B. S., 2003, Sheeted intrusion of the synkinematic McDoogle pluton, Sierra Nevada, California: *Geological Society of America Bulletin*, v. 115, p. 1570-1582.
- Glazner, A. F., Bartley, J. M., Hamilton, W. B., and Carl, B. S., 2003, Making space for batholiths by extrusion of sub-batholithic crust: *International Geology Review*, v. 45, p. 959-967.
- Coleman, D. S., Briggs, S., Glazner, A. F., and Northrup, C. J., 2003, Timing of plutonism and deformation in the White Mountains of eastern California: *Geological Society of America Bulletin*, v. 115, p. 48-57.
- Fletcher, J. M., Miller, J. S., Boettcher, S. S., Glazner, A. F., Martin, M. W., and Bartley, J. M., 2002, Cretaceous arc tectonism in the central Mojave Desert: profound crustal modification that controlled subsequent tectonic regimes: *Geological Society of America Memoir* 195, p. 131-149.
- Walker, J. D., Martin, M. W., and Glazner, A. F., 2002, Late Paleozoic to Mesozoic development of the Mojave Desert and environs: *Geological Society of America Memoir* 195, p. 1-18.
- Carl, B. S., and Glazner, A. F., 2002, Extent and significance of the Independence dike swarm: *Geological Society of America Memoir* 195, p. 117-130.
- Glazner, A. F., Walker, J. D., Bartley, J. M., and Fletcher, J. M., 2002, Cenozoic evolution of the Mojave block and environs: *Geological Society of America Memoir* 195, p. 19-41.
- Farmer, G. L., Glazner, A. F., and Manley, C. R., 2002, Did lithospheric delamination trigger late Cenozoic potassic volcanism in the southern Sierra Nevada, California?: *Geological Society of America Bulletin*, v. 114, p. 754-768.
- Ratajeski, K., Glazner, A. F., and Miller, B. V., 2001, Geology and geochemistry of mafic to felsic plutonic rocks associated with the Cretaceous intrusive suite of Yosemite Valley, California: *Geological Society of America Bulletin*, v. 113, p. 1486-1502.
- Manley, C. R., Glazner, A. F., and Farmer, G. L., 2000, Timing of volcanism in the Sierra Nevada of California: evidence for Pliocene delamination of the batholithic root?: *Geology*, v. 28, p. 811-814.
- Miller, J. S., Glazner, A. F., Farmer, G. L., Suayah, I. B., and Keith, L. B., 2000, Middle Tertiary magmatism across the Mojave Desert and southeastern California: A Sr, Nd, and Pb isotopic study of mantle domains and crustal structure: *Geological Society of America Bulletin*, v. 112, p. 1264-1279.

- Coleman, D. S., Glazner, A. F., Bartley, J. M., and Carl, B. S., 2000, Cretaceous dikes within the Independence dike swarm in eastern California: *Geological Society of America Bulletin*, v. 112, p. 504-511.
- Glazner, A. F., Bartley, J. M., and Sanner, W. K., 2000, Nature of the southern boundary of the central Mojave Tertiary province, Rodman Mountains, California: *Geological Society of America Bulletin*, v. 112, p. 34-44.
- Glazner, A. F., Bartley, J. M., and Carl, B. S., 1999, Oblique opening and noncoaxial emplacement of the Independence dike swarm, California: *Journal of Structural Geology*, v. 21, p. 1275-1283.
- Walker, J. D., and Glazner, A. F., 1999, Tectonic development of the southern California deserts: *Geological Society of America Special Paper 338*, p. 375-380.
- Glazner, A. F., 1999, Exposure of deep, dense rocks: interplay between erosion and sinking: in Ring, U., Brandon, M. T., Lister, G. S., and Willett, S. D., eds., *Exhumation Processes: Normal Faulting, Ductile Flow and Erosion*, Geological Society of London Special Publication 154, p. 233-239.
- Glazner, A. F., Manley, C. R., Marron, J. S., and Rojstaczer, S., 1999, Fire or ice: anticorrelation of volcanism and glaciation in California over the past 800,000 years: *Geophysical Research Letters*, v. 26, p. 1759-1762.
- Beard, B.L., and Glazner, A.F., 1998, Petrogenesis of Pliocene high-K basanites from Deep Springs Valley, California: Evidence for recycling crust back into the mantle: *Contributions to Mineralogy and Petrology*, v. 133, p. 402-417.
- Coleman, D. S., and Glazner, A. F., 1998, The Sierra crest magmatic event: rapid formation of juvenile crust during the Late Cretaceous in California: in Ernst, W. G., and Nelson, C. A., eds., *Integrated Earth and Environmental Evolution of the Southwestern United States*, Geological Society of America International Book Series, v. 1, p. 253-272. (republication of Coleman and Glazner 1997)
- Coleman, D. S., and Glazner, A. F., 1997, The Sierra crest magmatic event: rapid formation of juvenile crust during the Late Cretaceous in California: *International Geology Review*, v. 39, p. 768-787.
- Glazner, A. F., and Miller, D. M., 1997, Late-stage sinking of plutons: *Geology*, v. 25, p. 1099-1102.
- Miller, J. S., Glazner, A. F., and Crowe, D. E., 1996, Muscovite-garnet granites in the Cretaceous arc: relation to crustal structure of the Mojave Desert: *Geology*, v. 24, p. 335-338.
- Fletcher, J. M., Bartley, J. M., Martin, M. W., Glazner, A. F., and Walker, J. D., 1995, Large-magnitude continental extension: an example from the central Mojave metamorphic core complex: *Geological Society of America Bulletin*, v. 107, p. 1468-1483.
- Miller, J. S., Glazner, A. F., Walker, J. D., and Martin, M. W., 1995, Geochronologic and isotopic evidence for Triassic-Jurassic emplacement of the eugeoclinal allochthon in the Mojave Desert region, California: *Geological Society of America Bulletin*, v. 107, p. 1441-1457.
- Farmer, G. L., Glazner, A. F., Wilshire, H. G., Wooden, J. L., Pickthorn, W. J., and Katz, M., 1995, Origin of late Cenozoic basalts at the Cima volcanic field, Mojave Desert, California: *Journal of Geophysical Research*, v. 100, p. 8399-8415.
- Walker, J. D., Fletcher, J. M., Fillmore, R. P., Martin, M. W., Taylor, W. J., Glazner, A. F., and Bartley, J. M., 1995, Connection between igneous activity and extension in the central Mojave metamorphic core complex, California: *Journal of Geophysical Research*, v. 100, p. 10,477-10,494.
- Coleman, D. S., Glazner, A. F., Miller, J. S., Bradford, K. J., Frost, T. P., Joye, J. L., and Bachl, C. A., 1995, Exposure of a Late Cretaceous layered mafic-felsic magma system in the central Sierra Nevada batholith, California: *Contributions to Mineralogy and Petrology*, v. 120, p. 129-136.
- Hanson, R. B., and Glazner, A. F., 1995, Thermal requirements for extensional emplacement of granitoids: *Geology*, v. 23, p. 213-216.
- Beard, B. L., and Glazner, A. F., 1995, Trace element and Sr and Nd isotopic composition of mantle xenoliths from the Big Pine volcanic field, California: *Journal of Geophysical Research*, v. 100, p. 4169-4179.

- Miller, J. S., and Glazner, A. F., 1995, Jurassic plutonism and crustal evolution in the central Mojave Desert, California: *Contributions to Mineralogy and Petrology*, v. 118, p. 379-395.
- Fillmore, R. P., Walker, J. D., Bartley, J. M., and Glazner, A. F., 1994, Development of three genetically related basins associated with detachment-style faulting: Predicted characteristics and an example from the central Mojave Desert, California: *Geology*, v. 22, p. 1087-1090.
- Glazner, A. F., 1994, Foundering of mafic plutons and density stratification of continental crust: *Geology*, v. 22, p. 435-438.
- Glazner, A. F., and Bartley, J. M., 1994, Eruption of alkali basalts during crustal shortening in southern California: *Tectonics*, v. 13, p. 493-498.
- Nielson, J. E., Howard, K.A., and Glazner, A. F., 1993, Introduction to the area south of I-40 and north of I-10, California and Arizona: in Sherrod, D. R., and Nielson, J. E., *Tertiary stratigraphy of highly extended terranes, California, Arizona, and Nevada: U.S. Geological Survey Bulletin 2053*, p. 87-93.
- Nielson, J. E., Turner, R.D., and Glazner, A. F., 1993, Tertiary stratigraphy and structure of the Castle Mountains and Castle Peaks, California and Nevada: in Sherrod, D. R., and Nielson, J. E., *Tertiary stratigraphy of highly extended terranes, California, Arizona, and Nevada: U.S. Geological Survey Bulletin 2053*, p. 45-49.
- Martin, M. W., Glazner, A. F., Walker, J. D., and Schermer, E. R., 1993, Evidence for right-lateral transfer faulting accommodating en echelon Miocene extension, Mojave Desert, California: *Geology*, v. 21, p. 355-358.
- Coleman, D. S., Frost, T. P., and Glazner, A. F., 1992, Evidence from the Lamarck Granodiorite for rapid Late Cretaceous crust formation in California: *Science*, v. 258, p. 1924-1926.
- Ussler, W. III, and Glazner, A. F., 1992, Graphical analysis of enthalpy-composition relationships in mixed magmas: *Journal of Volcanology and Geothermal Research*, v. 51, p. 23-40.
- Glazner, A. F., and Farmer, G. L., 1992, Production of isotopic variability in basalts by cryptic crustal contamination: *Science*, v. 255, p. 72-74.
- Bartley, J. M., and Glazner, A. F., 1991, En echelon Miocene extension in the Colorado River trough and central Mojave Desert: *Geology*, v. 19, p. 1165-1168.
- Glazner, A. F., 1991, Plutonism, oblique subduction, and continental growth: An example from the Mesozoic of California: *Geology*, v. 19, p. 784-786.
- Glazner, A. F., Farmer, G. L., Hughes, W. T., Wooden, J. L., and Pickthorn, W., 1991, Contamination of basaltic magma by mafic crust at Amboy and Pisgah craters, Mojave Desert, California: *Journal of Geophysical Research*, v. 96, p. 13,673-13,691.
- Glazner, A. F., and Bartley, J. M., 1991, Volume loss, fluid flow, and state of strain in extensional mylonites in the central Mojave Desert, California: *Journal of Structural Geology*, v. 13, p. 587-594.
- Turner, R. D., and Glazner, A. F., 1991, Miocene volcanism, folding, and faulting in the Castle Mountains, southern Nevada and eastern California: *Geological Society of America Memoir 176*, "Basin and Range Extensional Tectonics near the Latitude of Las Vegas, Nevada," edited by B. P. Wernicke, p. 23-35.
- Glazner, A. F., 1990, Recycling of continental crust in Miocene volcanic rocks from the Mojave block, southern California: *Geological Society of America Memoir 174*, "The Nature and Origin of Cordilleran Magmatism", edited by J. L. Anderson, p. 147-168.
- Bartley, J.M., Fletcher, J.M., and Glazner, A. F., 1990, Tertiary extension and contraction of lower-plate rocks in the central Mojave metamorphic core complex, southern California: *Tectonics*, v. 9, p. 521-534.
- Bartley, J. M., Glazner, A. F., and Schermer, E. R., 1990, North-south contraction of the Mojave block and strike-slip tectonics in southern California: *Science*, v. 248, p. 1398-1401.
- Nielson, J. E., Lux, D. R., Dalrymple, G. B., and Glazner, A. F., 1990, Age of the Peach Springs Tuff, southeastern California and western Arizona: *Journal of Geophysical Research*, v. 95, p. 571-580.

- Walker, J. D., Bartley, J. M., and Glazner, A. F., 1990, Large-magnitude Miocene extension in the central Mojave Desert: Implications for Paleozoic to Tertiary paleogeography and tectonics: *Journal of Geophysical Research*, v. 95, p. 557-569.
- Glazner, A. F., and O'Neil, J. R., 1989, Crustal structure of the Mojave Desert, California: Inferences from Sr- and O-isotope studies of Miocene volcanic rocks: *Journal of Geophysical Research*, v. 94, p. 7861-7870.
- Glazner, A. F., and Ussler, W., III, 1989, Crustal extension, crustal density, and the evolution of Cenozoic magmatism in the Basin and Range: *Journal of Geophysical Research*, v. 94, p. 7952-7960.
- Ussler, W. III., and Glazner, A. F., 1989, Phase equilibria along a basalt-rhyolite mixing line: implications for the origin of calc-alkaline intermediate magmas: *Contributions to Mineralogy and Petrology*, v. 101, p. 232-244.
- Glazner, A. F., Bartley, J. M., and Walker, J. D., 1989, Magnitude and significance of Miocene crustal extension in the central Mojave Desert, California: *Geology*, v. 17, p. 50-53.
- Glazner, A. F., and Ussler, W., III, 1988, Trapping of magma at midcrustal density discontinuities: *Geophysical Research Letters*, v. 15, p. 673-675.
- Glazner, A. F., 1988, Stratigraphy, structure, and potassic alteration of Miocene volcanic rocks in the Sleeping Beauty area, central Mojave Desert, California: *Geological Society of America Bulletin*, v. 100, p. 424-435.
- Nielsen, R. L., Glazner, A. F., Baker, D. B., Nekvasil, H., and Russell, J. K., 1987, Developments in empirical and theoretical phase equilibria models for natural systems: *EOS*, v. 68, p. 121, 126-127.
- Glazner, A. F., Nielson, J. E., Howard, K. A., and Miller, D. M., 1986, Correlation of the Peach Springs Tuff, a large-volume Miocene ignimbrite sheet in California and Arizona: *Geology*, v. 14, p. 840-843.
- Loomis, D. P., and Glazner, A. F., 1986, Middle-Miocene tectonic uplift of the southern San Joaquin basin, California: *American Association of Petroleum Geologists Bulletin*, v. 70, p. 1003-1007.
- Bartley, J. M., and Glazner, A. F., 1985, Hydrothermal systems and Tertiary low-angle normal faulting in the southwestern United States: *Geology*, v. 13, p. 562-564.
- Glazner, A. F., and Schubert, G., 1985, Flexure of the North American lithosphere above the subducted Mendocino fracture zone and the formation of east-west faults in the Transverse Ranges: *Journal of Geophysical Research*, v. 90, p. 5405-5409.
- Glazner, A. F., and Bartley, J. M., 1985, Evolution of lithospheric strength after thrusting: *Geology*, v. 13, p. 42-45.
- Glazner, A. F., 1984, Activities of olivine and plagioclase components in silicate melts and their application to geothermometry: *Contributions to Mineralogy and Petrology*, v. 88, p. 260-268.
- Glazner, A. F., 1984, A short CIPW norm program: *Computers and Geosciences*, v. 10, p. 449-450.
- Glazner, A. F., and Bartley, J. M., 1984, Timing and tectonic setting of Tertiary low-angle normal faulting and associated magmatism in the southwestern United States: *Tectonics*, v. 3, p. 385-396.
- Glazner, A. F., and Loomis, D. P., 1984, Effect of subduction of the Mendocino fracture zone on Tertiary sedimentation in southern California: *Sedimentary Geology*, v. 38, p. 287-303.
- Glazner, A. F., and Supplee, J. A., 1982, Migration of Tertiary volcanism in the southwestern United States and subduction of the Mendocino fracture zone: *Earth and Planetary Science Letters*, v. 60, p. 429-436.
- Glazner, A. F., 1980, Frequency distribution of plagioclase extinction angles: Precision of the Michel-Lévy technique: *American Mineralogist*, v. 65, p. 1050-1052.
- Glazner, A. F., and D. B. McIntyre, 1979, Computer-aided x-ray diffraction identification of minerals in mixtures: *American Mineralogist*, v. 64, p. 902-905.

In Review

Glazner, A. F., Bartley, J. M., and Coleman, D. S., in review, The rocks don't lie, but they can be misunderstood: GSA Today.

In Progress

Glazner, A. F., *Petrology and Plate Tectonics*, textbook for Oxford University Press; 11 of 15 chapters done as of May 2019.

Books

- Glazner, A. F., Sharp, R. P., and Sylvester, A. G., 2022, *Geology Underfoot in Death Valley and Owens Valley, Second Edition*, Missoula, Mountain Press Publishing Company, 318 p.
- Sylvester, A. G., Sharp, R. P., and Glazner, A. F., 2020, *Geology Underfoot in Southern California, Second Edition*, Missoula, Mountain Press Publishing Company, 269 p.
- Glazner, A. F., and Stock, G. M., 2010, *Geology Underfoot in Yosemite National Park*, Missoula, Mountain Press Publishing Company, 304 p.
- Glazner, A. F., Walker, J. D., and Bartley, J. M., eds., 2002, *Geologic Evolution of the Mojave Desert and Southwestern Basin and Range*: Geological Society of America Memoir 195, 16 chapters, fold-out color geologic map, and CD with 21 detailed geologic maps in GIS format, 308 p.
- Sharp, R. P., and Glazner, A. F., 1997, *Geology Underfoot in Death Valley and Owens Valley*, Missoula, Mountain Press Publishing Company, 321 p.
- Sharp, R. P., and Glazner, A. F., 1993, *Geology Underfoot in Southern California*, Missoula, Mountain Press Publishing Company, 224 p.

Geologic Maps

- Putnam, R. L., Glazner, A. F., Law, B. S., and Stock, G. M., 2014, Geologic Map of the Southeast Face of El Capitan, Yosemite Valley, California: Geological Society of America Maps and Charts, MCH106F.
- Glazner, A. F., 2002, Geologic map of the Sleeping Beauty area, southern Cady Mountains, San Bernardino County, California: Geological Society of America Memoir 195, scale 1:24,000: Geological Society of America Digital Maps and Charts Series, doi:10.1130/1998-glazner-beauty.
- Fletcher, J. M., Glazner, A. F., Miller, J. S., Coleman, D. S., and Martin, M. W., 2002, Geologic map of the Fremont Peak area, San Bernardino County, California: Geological Society of America Memoir 195, scale 1:10,000: Geological Society of America Digital Maps and Charts Series, doi: 10.1130/1994-fletcher-fremont.

Other Publications

- Glazner, A. F., 2020, Yet another study of columnar jointing in the Devils Postpile, and commonalities with bees, the world's strongest material, and animal territories: White Mountain Research Center Fall/Winter 2020 Newsletter, 5 p.
- Bartley, J. M., Glazner, A. F., Kylander-Clark, A. R. C., Coleman, D. S., and Frazer, R. E., 2017, Neogene deformation in Owens Valley reactivates a major shear zone of probable Laramide age, in Phillips, F. M., Levy, D. and Hancock, P., Northern Owens Valley: 2017 Friends of the Pleistocene Guidebook, p. 31-39.
- Glazner, A., Bartley, J., Putnam, R., Coleman, D., Hildreth, W., Law, B., and Stock, G., 2014, Silicic magmatism: plutonism in Yosemite National Park and volcanism in Long Valley caldera: guidebook for field trip associated with the 2014 Goldschmidt Meeting, 40 p.

5/8/22

- Matasci, B., Guerin, A., Putnam, R., Stock, G. M., Jaboyedoff, M., and Glazner, A. F., 2014, Three dimensional geological mapping of the vertical rock face of El Capitan, Yosemite (California, USA), with field work, gigapixel photography, and terrestrial laser scanning: Vertical Geology Conference, University of Lausanne, Switzerland, February 2014, 5 p.
- Putnam, R.L., Stock, G.M., Glazner, A.F., Bartley, J.M., and Coleman, D.S., 2013, Granite, glaciers, and rockfall in Yosemite Valley, California, *in* Putirka, K., ed., *Geologic Excursions from Fresno, California, and the Central Valley: A Tour of California's Iconic Geology: Geological Society of America Field Guide 32*, p. 13-35, doi:10.1130/2013.0032(02).
- Glazner, A. F., 2012, Geologic setting of Little Lake rock art: in Van Tilburg, J. A., Hull, G., and Bretney, J. C., eds., *Captured Visions: Rock Art at Little Lake Ranch, Owens Valley, California: Monumenta Archaeologica Series*, p. 3-9.
- Farmer, G. L., Walker, J. D., Ash, J., and Glazner, A. F., 2009, Online access to western North American igneous rock geochemical data: EOS, v. 90, p. 2-3.
- Glazner, A. F., and Bartley, J. M., 2008, Reply to comments on "Is stoping a volumetrically significant pluton emplacement process?": *Geological Society of America Bulletin*, v. 120, p. 1082-1087, doi: 10.1130/B26312.1.
- Frankel, K.L., Glazner, A.F., Kirby, E., Monastero, F.C., Strane, M.D., Oskin, M.E., Unruh, J.R., Walker, J.D., Anandakrishnan, S., Bartley, J.M., Coleman, D.S., Dolan, J.F., Finkel, R.C., Greene, D., Kylander-Clark, A., Morrero, S., Owen, L.A., and Phillips, F., 2008, Active tectonics of the eastern California shear zone, in Duebendorfer, E.M., and Smith, E.I., eds., *Field Guide to Plutons, Volcanoes, Faults, Reefs, Dinosaurs, and Possible Glaciation in Selected Areas of Arizona, California, and Nevada: Geological Society of America Field Guide 11*, p. 43–81, doi: 10.1130/2008.fl d011(03).
- Coleman, D.S., Glazner, A.F., Bartley, J.M., and Law, R.D., 2005, Incremental Assembly and Emplacement of Mesozoic Plutons in the Sierra Nevada and White and Inyo Ranges, California: *Geological Society of America Field Forum Field Trip Guide (Rethinking the Assembly and Evolution of Plutons: Field Tests and Perspectives, 7–14 October 2005)*, 55 p., doi: 10.1130/2005.MCBFYT.FFG.
- Glazner, A. F., Lee, J., Bartley, J. M., Coleman, D. S., Kylander-Clark, A., Greene, D. C., and Le, K., 2005, Large dextral offset across Owens Valley, California from 148 Ma to 1872 A.D.: in Stevens, C., and Cooper, J., *Western Great Basin Geology: Fieldtrip guidebook and volume prepared for the joint meeting of the Cordilleran Section--GSA and Pacific Section--AAPG, April 29-May 1, 2005, San Jose, California: Fullerton, CA, Pacific Section SEPM*, p. 1-35.
- Glazner, A. F., 2004, Late Cenozoic magmatic sweeps in the Basin and Range and the setting of the Coso geothermal field, California: *Geothermal Resources Council Transactions*, v. 28, p. 655-658.
- Coleman, D. S., Glazner, A. F., Gray, W., Bartley, J. M., and Walker, J. D., 2004, Longevity of geothermal resources and incremental pluton emplacement: *Geothermal Resources Council Transactions*, v. 28, p. 7-12.
- Bartley, J. M., Coleman, D. S., Glazner, A. F., and Walker, J. D., 2004, Late Cenozoic deformation in the Coso Range, eastern California, and relation to the Coso geothermal and magmatic systems: *Geothermal Resources Council Transactions*, v. 28, p. 633-636.
- Stock, G.M., Bull, W.B., Weissmann, G.S., Glazner, A.F., Caprio, A., Stephenson, N, Wakabayashi, J., and Tinsley, J.C., 2003, Tectonics, climate change, and landscape evolution in the southern Sierra Nevada: *Pacific Cell Friends of the Pleistocene field trip guidebook, Sequoia - Kings Canyon, October 3-5*, 140 p.
- Glazner, A. F., 2003, Igneous petrology: *Geotimes*, v. 48, p. 16-17.
- Frankel, K. L., Jayko, A. S., and Glazner, A. F., 2001, Characteristics of Holocene fault scarp morphology, southern part of the Black Mountains fault zone, Death Valley: in Machette, M. N., Johnson, M. L., and Slate, J. L., *Quaternary and late Pliocene geology of the Death Valley region: recent observations on*

- tectonics, stratigraphy, and lake cycles (guidebook for the 2001 Pacific Cell--Friends of the Pleistocene field trip), U. S. Geological Survey Open-File Report 01-51, p. 205-216.
- Ingersoll, R. V., Ratajeski, K., Glazner, A. F., and Cloos, M., 1999, Mesozoic convergent margin of central California: in Wagner, D., Graham, S. A., eds., GSA Field Trip Guidebook, California Division of Mines and Geology Special Publication 119, p. 121-153.
- Carl, B. S., Glazner, A. F., Bartley, J. M., Dinter, D. A., and Coleman, D. S., 1998, Independence dikes and mafic rocks of the eastern Sierra: guidebook and roadlog: in Behl, R. J., ed., Guidebook to Field Trip #4, Geological Society of America Cordilleran Section meeting field trip guidebook, published by California State University Long Beach Dept. of Geological Sciences, 26 p.
- Feiss, P.G., Glazner, A.F., and Bartley, J.M., 1996, Syntectonic silver-barite mineralization in the hanging-wall of the Waterman Hills detachment fault, central Mojave Desert, CA. in Coyner, A.R., and Fahey, P. L., eds., Geology and Ore Deposits of the American Cordillera: Geological Society of Nevada Symposium Proceedings, Reno/Sparks, Nevada, April 1995, p. 855-870.
- Glazner, A. F., and Bartley, J. M., 1995, Early Miocene dome emplacement, diking, and limited tectonism in the northern Marble Mountains, eastern Mojave Desert, California, in Reynolds, R. E., and Reynolds, J., eds., Ancient Surfaces of the East Mojave Desert: San Bernardino County Museum Association Quarterly, v. 42, Redlands, California, San Bernardino County Museum Association, p. 29-34.
- Glazner, A. F., Walker, J. D., Bartley, J. M., Coleman, D. S., and Taylor, W. J., 1994, Igneous activity at releasing bends and transfer zones in extensional systems: implications for site and mode of geothermal activity: Geothermal Resources Council Transactions, v. 18, p. 7-9.
- Glazner, A. F., Walker, J. D., Bartley, J. M., Fletcher, J. M., Martin, M. W., Schermer, E. R., Boettcher, S. S., Miller, J. S., Fillmore, R. P., and Linn, J. K., 1994, Reconstruction of the Mojave block (guidebook and roadlog): in McGill, Sally F., and Ross, Timothy M., eds., Geological investigations of an active margin: Geological Society of America Cordilleran Section Guidebook, Redlands, California, San Bernardino County Museum Association, p. 3-30.
- Glazner, A. F., 1992, Book review of "Magma Transport and Storage", American Scientist, May-June 1992, p. 285-286.
- Lipman, P. W., and Glazner, A. F., 1991, Introduction to special issue on "Mid-Tertiary Cordilleran Magmatism: Plate-Convergence vs. Intraplate Processes": Journal of Geophysical Research, v. 96, p. 13,193-13,199.
- Glazner, A. F. and Bartley, J. M., 1990, Early Miocene dome emplacement, diking, and limited tectonism in the northern Marble Mountains, eastern Mojave Desert, California: South Coast Geological Society Guidebook, p. 89-97.
- Glazner, A. F., Bartley, J. M., and Walker, J. D., 1989, The Waterman Hills detachment fault, central Mojave Desert, California: in Reynolds, R. E., ed., The west-central Mojave Desert: Quaternary studies between Kramer and Afton Canyon: San Bernardino County Museum Association, Redlands, California, p. 5-26.
- Reynolds, R. E., Glazner, A. F., and Meek, N., 1989, Field trip roadlog: in Reynolds, R. E., ed., The west-central Mojave Desert: Quaternary studies between Kramer and Afton Canyon: San Bernardino County Museum Association, Redlands, California, p. 5-26.
- Glazner, A. F., Bartley, J. M., and Walker, J. D., 1988, Geology of the Waterman Hills detachment fault, central Mojave Desert, California: in Weide, D. L., and Faber, M. L., eds., This extended land, Geological journeys in the southern Basin and Range: Geological Society of America Cordilleran Section Field Trip Guidebook, University of Nevada at Las Vegas Department of Geoscience Special Publication No. 2, p. 225-237.
- Nielson, J. E., and Glazner, A. F., 1986, Introduction and road log: Geological Society of America Cordilleran Section Guidebook to Miocene Stratigraphy and Structure: Colorado Plateau to the Central Mojave Desert, p. 1-6.

- Glazner, A. F., 1986, Stratigraphy, structure, and potassic alteration of Miocene volcanic rocks in the Sleeping Beauty area, central Mojave Desert, California: Geological Society of America Cordilleran Section Guidebook to Miocene Stratigraphy and Structure: Colorado Plateau to the Central Mojave Desert, p. 51-63.
- Glazner, A. F., Nielson, J. E., Howard, K. A., and Miller, D. M., 1986, Correlation of the Peach Springs Tuff, a large-volume Miocene ignimbrite sheet in California and Arizona: Geological Society of America Cordilleran Section Guidebook to Miocene Stratigraphy and Structure: Colorado Plateau to the Central Mojave Desert, p. 65-68.
- Bartley, J. M., Feiss, P. G., and Glazner, A. F., 1983, Student handbook for Geology 128-129 - field course in geology: Univ. of North Carolina at Chapel Hill Dept. of Geology, 81 p.
- Glazner, A. F., 1983, Discussion of "Paleoconvergence rates determined from K_2O/SiO_2 ratios in magmatic rocks and their application to Cretaceous and Tertiary tectonic patterns in southwestern North America" by S. B. Keith: Geological Society of America Bulletin, v. 94, p. 1032.
- Dokka, R. K., and Glazner, A. F., 1982, Aspects of early Miocene extension of the central Mojave Desert: *in* Cooper, J. D., compiler, Geologic excursions in the California Desert, Geological Society of America Cordilleran Section Guidebook, p. 31-45.
- Dokka, R. K., and Glazner, A. F., 1982, Field Trip Roadlog: Late Cenozoic tectonic and magmatic evolution of the central Mojave Desert, California: *in* Cooper, J. D., compiler, Geologic excursions in the California Desert, Geological Society of America Cordilleran Section Guidebook, p. 1-30.
- Glazner, A. F., 1981, Cenozoic evolution of the Mojave block and adjacent areas [Ph.D. Dissertation]: University of California, Los Angeles, 175 p.
- Glazner, A. F., and B. J. Bilodeau, 1980, Geologic guidebook to the Mojave Desert: UCLA Dept. of Earth and Space Sciences Guidebook No. 11, 56 p.
- Glazner, A. F., 1980, Geology of the Sleeping Beauty area, southeastern Cady Mountains: *in* D. L. Fife and A. R. Brown, eds., Geology and mineral wealth of the California desert, South Coast Geological Society Guidebook, p. 249-255.

Abstracts

- Glazner, A. F., and Wörner, G., 2016, A problem for the mush model: mismatch Between trace element patterns of rhyolites and dacite matrix glass: American Geophysical Union Fall Meeting, paper V44A-07.
- Bartley, J. M., Glazner, A. F., and Coleman, D. S., 2016, The meaning of "magma": American Geophysical Union Fall Meeting, paper V44A-01.
- Wickland, T. D., and Glazner, A. F., 2016, Oscillatory zoning of La- and Y-doped titanite during thermal cycling experiments: American Geophysical Union Fall Meeting, paper V23B-2984.
- Glazner, A. F., and Bartley, J. M., 2016, Mafic layering in granodiorites and the uncomfortable possibility of liquid immiscibility in silicic rocks: GSA Penrose Conference on Layered Mafic Intrusions and Associated Economic Deposits.
- Glazner, A. F., and Challener, S. C., 2016, The ugly guts of beautiful hornblende phenocrysts in the Half Dome Granodiorite, Yosemite National Park, California: Geological Society of America Abstracts, v. 48, doi: 10.1130/abs/2016CD-274354
- Glazner, A. F., and Bartley, J. M., 2016, Layering in the Tuolumne Intrusive Suite formed by liquid immiscibility: Geological Society of America Abstracts, v. 48, doi: 10.1130/abs/2016CD-274704.
- Doorn, C. J., Glazner, A. F., Coleman, D. S., and Munnikhuis, J., 2016, Rb-Sr isotope characterization of pegmatites from the Tuolumne Intrusive Suite, California, USA: Geological Society of America Abstracts, v. 48, doi: 10.1130/abs/2016CD-274778.

- Gaynor, S., and Glazner, A. F., 2016, Did the Johnson Granite Porphyry erupt?: Geological Society of America Abstracts, v. 48, doi: 10.1130/abs/2016CD-274578.
- Glazner, A. F., 2015, Magma chambers, thermal energy, and the unsuccessful search for a magma chamber thermostat: American Geophysical Union Fall Meeting, paper V34B-07.
- Treiman, A. H., and 18 others including Glazner, A. F., 2015, Mineralogy and genesis of the Windjana Sandstone, Kimberley Area, Gale Crater, Mars: abstract for 2015 Lunar and Planetary Science Conference.
- Treiman, A. H., Gross, J., and Glazner, A. F., 2015, Lunar rocks rich in Mg-Al spinel: enthalpy constraints suggest origins in impact melts: abstract for 2015 Lunar and Planetary Science Conference.
- Putnam, R. L., Stock, G. M., Matasci, B., and Glazner, A. F., 2014, Using 3-D mapping to understand bedrock controls on the morphology of El Capitan, Yosemite National Park, California: Geological Society of America Abstracts with Programs, v. 46, p. 504.
- Bauer, J. E., and Glazner, A. F., 2014, Trace element profiles across zoned titanite crystals from the Half Dome Granodiorite, Yosemite National Park, California: Geological Society of America Abstracts with Programs, v. 46, p. 300.
- Glazner, A. F., Bartley, J. M., Coleman, D. S., and Mills, R. D., 2013, Chemical divergence between volcanic and plutonic rocks produced by infiltration and recrystallization of aplitic liquids: Geological Society of America Abstracts with Programs, v. 45, p. 691.
- Martinez-Poza, A. I., Glazner, A. F., and Bartley, J. M., 2013, 3D analysis of a multiple dike intrusion and later deformation, Independence dike swarm, California: Geological Society of America Abstracts with Programs, v. 45, p. 612.
- Glazner, A. F., Bartley, J. M., and Coleman, D. S., 2013, Reconciling incremental emplacement and widespread deformation with the apparent homogeneity and isotropy of plutonic rocks: Geological Society of America Abstracts with Programs, v. 45, p. 227.
- Glazner, A. F., and Bartley, J. M., 2013, Evidence for liquid immiscibility in ladder dikes and layered granodiorites, Sierra Nevada, California: Geological Society of America Abstracts with Programs, v. 45, p. 57.
- Cordes, S. E., Stock, G. M., Schwab, B. E., and Glazner, A. F., 2013, Supporting evidence for a large rock fall 9.6 ± 1 ka from Glacier Point in Yosemite Valley, California: Geological Society of America Abstracts with Programs, v. 45, p. 26.
- Bartley, J. M., Glazner, A., Law, B., and Coleman, D. S., 2013, Geometry and emplacement mechanism of ladder dikes in the Cathedral Peak Granodiorite, Yosemite National Park: Geological Society of America Abstracts with Programs, v. 45, p. 13.
- Putnam, R. L., Glazner, A. F., and Law, B., 2013, Understanding plutonism in the vertical: field and geochemical relations on the southeast face of El Capitan, Yosemite Valley, California: Geological Society of America Abstracts with Programs, v. 45, p. 57.
- Mills, R. D., Coleman, D. S., Frazer, R. E., Glazner, A. F., and Tappa, M. J., 2012, The general lack of igneous rocks with cumulate chemical signatures: is there an elephant in the room?: Abstract V43D-2893 presented at 2012 Fall Meeting, AGU.
- Beck, C. L., Bartley, J. M., Frazer, R. E., Coleman, D. S., and Glazner, A., 2012, New insights into migration of the Cretaceous Sierran arc using high-precision U/Pb zircon geochronology: Geological Society of America Abstracts with Programs, v. 44, p. 490.
- Farmer, G. L., Glazner, A. F., Kortemeier, W. T., Schweickert, R. A., and Moore, J., 2012, Mantle lithosphere as sink and source of continental arc and post-arc magmatism: Geological Society of America Abstracts with Programs, v. 44, p. 74.
- Mills, R. D., and Glazner, A. F., 2012, Coarsening of crystals during temperature cycling in magmas and icy materials: Lunar and Planetary Science Conference Abstract #1819.

- Ireland, K. R., Glazner, A. F., and Mills, R. D., 2011, Origin of mafic enclaves and their feldspar phenocrysts in the El Capitan Granite, Yosemite National Park, California: Abstract V43B-2577 presented at 2011 Fall Meeting, AGU.
- Coleman, D. S., Glazner, A. F., and Bartley, J. M., 2011, Geochemical trends define three distinct processes operating at different scales during batholith formation: Abstract V33F-07 presented at 2011 Fall Meeting, AGU.
- Bartley, J. M., Glazner, A. F., and Coleman, D. S., 2011, Near-roof structure and crack-seal emplacement, Colosseum pluton, Sierra Nevada, California: Abstract V13C-2627 presented at 2011 Fall Meeting, AGU.
- Glazner, A. F., Bartley, J. M., Law, B., and Coleman, D. S., 2011, The granite aqueduct and advection of water and heat through plutonic terranes: Abstract V14B-05 presented at 2011 Fall Meeting, AGU.
- Mills, R. D., and Glazner, A. F., , 2011, Experimental evidence for coarsening of crystals and bubbles during thermal cycling of mafic and silicic magmas: Mineralogical Magazine (Goldschmidt Conference Abstract), v. 75, p. 1475.
- Glazner, A. F., and Mills, R. D., 2011, Chemical and thermodynamic evidence bearing on how magmas become contaminated: Seventh Hutton Symposium on Granites and Related Rocks, Abstracts Book, ISBN13: 978-84-694-5253-0, p. 61.
- Mills, R. D., Glazner, A. F., and Ratner, J. J., 2011, Textural coarsening by thermal cycling in a basaltic magma and a magma analog: Joint Annual Meeting of the GAC - MAC – SEG – SGA, Ottawa, Canada.
- Gaynor, S., Glazner, A. F., and Law, B., 2011, Evaluating the eruptive nature of the Johnson Porphyry Granite; a geochemical analysis: Geological Society of America Abstracts with Programs, v. 43, p. 67.
- Benton, T. J. Gaynor, S., and Glazner, A. F., 2011, Testing composite dike intrusion models with chemical analysis: Geological Society of America Abstracts with Programs, v. 43, p. 68.
- Stock, G. M., Glazner, A. F., Ratajeski, K., and Law, B., 2010, Geological mapping of the vertical southeast face of El Capitan, Yosemite Valley, California: Abstract V11C-2304 presented at 2010 Fall Meeting, AGU.
- Ackerson, M., and Glazner, A. F., 2010, Rare earth element partitioning between titanite and groundmass in silicic volcanic systems: Geological Society of America Abstracts with Programs, v. 42, p. 625.
- Glazner, A. F., Bartley, J. M., and Coleman, D. S., 2010, Reconciling incremental emplacement with the apparent homogeneity of plutonic rocks: LASI 4 conference, Moab, Utah, September 2010.
- Glazner, A. F., Bartley, J. M., and Coleman, D. S., 2010, The room non-problem: Geological Society of America Abstracts with Programs, v. 42, p. 52.
- Rosenberg, J. E., and Glazner, A. F., 2010, Is Pliocene magmatism in the northern Sierra Nevada range linked to lithospheric delamination or to the ancestral Cascade Range?: Geological Society of America Abstracts with Programs, v. 42, p. 80.
- Keefer, E., Poletti, J., Howard, K., Chawla, D., Fleishman, S., Jepson, R. Mazza, S., Rodenbough, E., and Glazner, A., 2010, Widespread volcanic ash component in soils of eastern California and the Ancient Bristlecone Pine Forest: Geological Society of America Abstracts with Programs, v. 42, p. 63.
- Cates, S., Farthing, H., Burnett, P., Pianowski, L., and Glazner, A., 2010, Salinity variations in Mono Lake, eastern California, and formation of tufa towers in mixing zones between lake water and groundwater: Geological Society of America Abstracts with Programs, v. 42, p. 64.
- Glazner, A. F., Contrasting space-time patterns of Laramide and younger magmatism across the U.S.-Mexico border: GeoLaramide Conference, February 1-5, 2010, Universidad de Sonora, Hermosillo, Mexico.
- Glazner, A. F., Ratner, J., and Mills, R. D., 2009, Development of megacrysts and magmatic fabrics in plutons via thermal cycling and thermal gradients: Eos Transactions AGU, v. 90, no. 52, Abstract V14A-02.

- Glazner, A. F., Wohletz, K. H., and Bindeman, I. N., 2009, Possible climatic modulation of large caldera-forming eruptions: American Geophysical Union Fall Meeting, abstract NHG33B-1137.
- Schrecengost, K. L., Glazner, A. F., and Coleman, D. S., 2009, Geochemistry and geochronology of the Virgin Islands batholith: American Geophysical Union Fall Meeting, abstract T53A-1555.
- Glazner, A. F., Foley, E. B., Johnson, B. R., Coleman, D. S., and Bartley, J. M., 2009, Sources of geochemical and modal variability in plutonic rocks of the Sierra Nevada batholith, California: Goldschmidt Conference Abstracts, *Geochimica et Cosmochimica Acta*, v. 73, no. 12, supp. 1, p.A441.
- Glazner, A. F., and Farmer, G. L., 2009, Drawing the curtain on slab windows: Geological Society of America Abstracts with Programs, abstract 4-7.
- Foley, E. B., and Glazner, A., 2009, Characteristics of modal layering in the Round Valley Peak Granodiorite, eastern Sierra Nevada, California: Geological Society of America Abstracts with Programs, abstract 9-1.
- Mazza, S. E., and Glazner, A., 2009, SEM analysis of fulgurite formed on quartzite, White Mountains, California: Geological Society of America Abstracts with Programs, abstract 9-10.
- Glazner, A. F., 2008, Why are students not very interested in petrology?: Geological Society of America Abstracts with Programs, abstract 275-1.
- Bartley, J. M., Coleman, D. S., Glazner, A. F., and Stelten, M., 2008, Rhyolites and rhyolites: Geological Society of America Abstracts with Programs, abstract 236-2.
- Schrecengost, K. L., Glazner, A. F., and Coleman, D. S., 2008, A new look at the Virgin Islands batholith: Geological Society of America Abstracts with Programs, abstract 154-14.
- Glazner, A. F., and Bartley, J. M., 2008, Statistics of 2D cuts through 3D fractal objects, with application to xenoliths in plutons: Geological Society of America Abstracts with Programs, abstract 331-1.
- Glazner, A. F., Bartley, J. M., and Coleman, D. S., 2008, Magmatic crack-seal and why it is difficult to recognize in plutons: Laccoliths and Shallow Intrusions Conference 3, Elba, Italy.
- Glazner, A. F., Mills, R. D., and Coleman, D. S., 2008, Selective vs. bulk assimilation and the restricted chemical variability of igneous rocks: Goldschmidt Conference Abstracts, *Geochimica et Cosmochimica Acta*, v. 72, no. 12, supp. 1, p. A313.
- Mills, R. D., Glazner, A. F., and Coleman, D. S., 2008, Comparing the compositional patterns of volcanic and plutonic rocks using the NAVDAT database: Goldschmidt Conference Abstracts, *Geochimica et Cosmochimica Acta*, v. 72, no. 12, supp. 1, p. A631.
- Glazner, A. F., Bartley, J. M., Johnson, B. R., and Coleman, D. S., 2008, Ripening of granitic texture and the hidden lives of plutons: European Geosciences Meeting, Vienna, *Geophysical Research Abstracts*, v. 10.
- Coleman, D. S., Gracely, J. T., Gaschnig, R., , Glazner, A. F., and Bartley, J. M., , 2008, Rethinking how we map and date plutons: John Muir Intrusive Suite of the Sierra Nevada batholith: Geological Society of America Abstracts with Programs, v. 40, p. 62.
- Stelten, M., Glazner, A. F., and Coleman, D. S., 2008, Questioning the relationship between high-silica rhyolites and aplite dikes: Geological Society of America Abstracts with Programs, v. 40, p. 66.
- Estes, C. S., and Glazner, A. F., 2008, Analysis of plutonic texture by GIS analysis of thin sections: Geological Society of America Abstracts with Programs, v. 40, p. 66.
- Glazner, A. F., and Farmer, G. L., 2008, Ancestral Cascades = modern Cascades: Geological Society of America Abstracts with Programs, v. 40, p. 98.
- Glazner, A. F., Miller, J. S., Leeman, W. P., Johnson, B. R., and Monastero, F. C., 2007, Magmatic evolution of the Coso geothermal area, California: EOS, *Transactions American Geophysical Union*, v. 88, Abstract V53F-01.
- Glazner, A. F., Bartley, J. M., Coleman, D. S., Boudreau, A., and Walker, J. D., 2007, Questioning the sedimentary paradigm for granites: EOS, *Transactions American Geophysical Union*, v. 88, Abstract V43G-08.

- Glazner, A. F., 2007, What controls space-time patterns of magmatism in western North America: plate tectonics, delamination, or convection?: EOS, Transactions American Geophysical Union, v. 88, Abstract V23C-08.
- Mills, R. D., Glazner, A. F., and Coleman, D. S., 2007, Scale of pluton/wall rock interaction in the Tuolumne Intrusive Suite, Yosemite National Park, California: EOS, Transactions American Geophysical Union, v. 88, Abstract V53B-09.
- Johnson, B. R., Glazner, A. F., and Coleman, D. S., 2006, Potassium feldspar megacrysts in granites: passive markers of magma dynamics or products of textural coarsening? EOS, Transactions American Geophysical Union, v. 87, Abstract V51B-1670.
- Coleman, D. S., Bartley, J. M., Glazner, A. F., and Johnson, B. R., 2006, Incremental growth and consolidation of the Half Dome Granodiorite, Tuolumne Intrusive Suite: EOS, Transactions American Geophysical Union, v. 87, Abstract V22A-08.
- Glazner, A. F., Coleman, D. S., Bartley, J. M., and Wohletz, K. H., 2006, What plutons have to say about big eruptions: EOS, Transactions American Geophysical Union, v. 87, Abstract V23G-05.
- Bartley, J. M., Glazner, A. F., and Mahan, K. H., 2006, Pluton emplacement processes inferred from geologic mapping of the Split Mountain roof pendant, Sierra Nevada batholith: Geological Society of America Abstracts with Programs, v. 38, no. 7, p. 559.
- Gaschnig, R. M., Coleman, D. S., and Glazner, A. F., 2006, Twin of the Tuolumne: new geochronology from the Mono Pass Intrusive Suite: Geological Society of America Abstracts with Programs, v. 38, no. 7, p. 559.
- Johnson, B. R., Glazner, A. F., and Coleman, D. S., 2006, Significance of K-feldspar megacryst size and distribution in the Tuolumne Intrusive Suite, California: Geological Society of America Abstracts with Programs, v. 38, no. 5, p. 93.
- Glazner, A. F., and Atwater, T. M., 2006, Flat subduction and Cenozoic magmatic patterns in western North America: Geological Society of America Backbone of the Americas Meeting, Mendoza, Argentina, April 2006.
- Bartley, J. M., Glazner, A. F., and Coleman, D. S., 2005, Do large silicic eruptions leave behind even larger plutons?: EOS, Transactions American Geophysical Union, v. 86, Abstract V22A-04.
- Valencia Moreno, M., Ferrari, L., Farmer, L., Glazner, A., and Bowers, T., 2005, El proyecto North American Volcanic and Intrusive Rock Database (NAVDAT) y el avance actual para México: GEOS (Unión Geofísica Mexicana Reunión Anual), v. 25, p. 251.
- Glazner, A., 2005, How close is the link between plate tectonics and magmatism in western North America?: GEOS (Unión Geofísica Mexicana Reunión Anual), v. 25, p. 251.
- Bartley, J. M., Coleman, D. S., and Glazner, A. F., 2005, No big tank: slow incremental growth of plutons by magmatic crack-seal: Geological Society of America Abstracts with Programs, v. 37, p. 312.
- Monastero, F. C., and Glazner, A. F., 2005, Facilitation of Pleistocene magmatism through Pliocene thermal softening of the crust at the Coso geothermal area, east-central California: Geological Society of America Abstracts with Programs, v. 37, p. 70.
- Glazner, A. F., and Wohletz, K. H., 2005, Interaction between magma input and precipitation in the growth of large magma chambers: Geological Society of America Abstracts with Programs, v. 37, p. 130.
- Walker, J. D., Farmer, G. L., Glazner, A. F., Carlson, R. W., and Bowers, T. D., 2005, Using the NAVDAT database to better understand Cenozoic magmatism in western North America: Geological Society of America Abstracts with Programs, v. 37, p. 416.
- Coleman, D. S., Bartley, J. M., Glazner, A. F., and Ratajeski, K., 2005, Field evidence for the assembly of the Half Dome pluton by amalgamation of small intrusions: Geological Society of America Abstracts with Programs, v. 37, p. 71.

- Rittase, W. M., Glazner, A. F., and Oskin, M. E., 2005, Comparison of bedrock geology with fracture and stream orientations in Yosemite National Park, California: Geological Society of America Abstracts with Programs, v. 37, p. 78.
- Gaschnig, R. M., Glazner, A. F., and Coleman, D., 2005, Fractures in the Cretaceous plutons of Little Lakes Valley, eastern Sierra Nevada: cooling structures or the result of regional tectonic stress?: Geological Society of America Abstracts with Programs, v. 37, p. 72.
- Bartley, J. M., Coleman, D. S., and Glazner, A. F., 2005, Junction fault zone, Sierra Nevada, CA, may transfer displacement between the Kern Canyon and Owens Valley faults: Geological Society of America Abstracts with Programs, v. 37, p. 73.
- Law, B. S., Glazner, A. F., and Schweickert, R. A., 2005, Ladder dikes hosted in metavolcanic wall rock and "The Vortex": magmatic structures from the central Sierra Nevada, California: Geological Society of America Abstracts with Programs, v. 37, p. 70.
- Glazner, A. F., and Bartley, J. M., 2005, The case against magmatic stoping: Geological Society of America Abstracts with Programs, v. 37, p. 72.
- Glazner, A. F., Bartley, J. M., and Oskin, M. E., 2005, Speculations on Sierra Nevada batholith evolution: Geological Society of America Abstracts with Programs, v. 37, p. 39.
- Bartley, J. M., Glazner, A., and Coleman, D. S., 2005, Distinguishing pluton emplacement mechanisms: Geological Society of America Abstracts with Programs, v. 37, p. 38.
- Coleman, D. S., Gray, W., Glazner, A. F. and Bartley, J. M., 2004, Geochronologic and thermochronologic evidence for incremental assembly of large zoned intrusions: EOS, Transactions American Geophysical Union, v. 85, no. 47, p. 1931.
- Glazner, A. F., Bartley, J. M. and Coleman, D. S., 2004, Incremental assembly and the nature of granitic plutons: EOS, Transactions American Geophysical Union, v. 85, no. 47, p. 1931.
- Bartley, J. M., Wohletz, K., Coleman, D. S. and Glazner, A. F., 2004, Thermal modeling of large composite plutons: EOS, Transactions American Geophysical Union, v. 85, no. 47, p. 1935.
- Roelofs, A., Mapes, R. W., and Glazner, A. F., 2004, Time-animated geochemical variation diagrams as a tool for exploring large datasets: Geological Society of America Abstracts with Programs, v. 36, p. 10.
- Glazner, A. F., 2004, Animation of space-time trends in Cenozoic magmatism of western North America: Geological Society of America Abstracts with Programs, v. 36, p. 10.
- Lehnert, K. A., Carlson, R., Hofmann, A., Langmuir, C. H., Lenhardt, W. C., Sarbas, B., Walker, D., Glazner, A., and Farmer, L., 2003, earthchem.org: integrating data management for igneous geochemistry: Geological Society of America Abstracts with Programs, v. 35, p. 366.
- Bartley, J. M., Friedrich, A. M., Glazner, A. F., Coleman, D. S., and Kylander-Clark, A., 2003, Large Laramide dextral shear across Owens Valley, eastern California, and extensional unroofing of the southern Sierra Nevada: Geological Society of America Abstracts with Programs, v. 35, p. 305.
- Glazner, A. F., Bartley, J. M., Coleman, D. S., and Lees, J. M., 2003, An iconoclastic view of plutons: why big fierce magma chambers are rare: Geological Society of America Abstracts with Programs, v. 35, p. 138.
- Gray, W. M., Glazner, A. F., and Coleman, D. S., 2003, Lateral and vertical variations in geochemistry of the Tuolumne Intrusive Suite, Yosemite National Park, California: Geological Society of America Abstracts with Programs, v. 35, p. 18.
- Kylander-Clark, A. R. C., Coleman, D. S., Glazner, A. F., and Bartley, J. M., 2003, Correlation of the Golden Bear and Coso dike sets: Implications for post-Cretaceous dextral offset across Owens Valley, California: Geological Society of America Abstracts with Programs, v. 35, p. 80.
- Glazner, A. F., Bartley, J. M., Coleman, D. S., and Kylander-Clark, A. R. C., 2003, Evidence from the Independence dike swarm for 65 km or more of post-Jurassic dextral offset across Owens Valley, California: Geological Society of America Abstracts with Programs, v. 35, p. 80.

- Walker, J. D., Glazner, A. F., Bowers, T. D., Straus, A. K., Farmer, G. L., Carlson, R. W., Black, R. A., and Grossman, J. N., 2002, Implementation and compatibility of a North American volcanic and plutonic rock database (NAVDAT): *Eos Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract OS62B-247.
- Glazner, A. F., and Brandon, M. T., 2002, Origin of enriched geochemical signatures in continental arc rocks by antithetic subduction of continental lithosphere: *Eos Trans. AGU*, 83(47), Fall Meet. Suppl., Abstract V12C-10.
- Briggs, S., Coleman, D., Glazner, A., and Northrup, C. J., 2002, Timing of plutonism and deformation in the White Mountains, California: *Geological Society of America Abstracts with Programs*, v. 34, p. 510.
- Bartley, J. M., Glazner, A. F., Mahan, K. H., Grasse, S. W., and Taylor, R. Z., 2002, Thin wall rock screen and intrusive processes in the Sierra Nevada batholith: *Geological Society of America Abstracts with Programs*, v. 34, p. 374-375.
- Coleman, D. S., Gray, W., and Glazner, A. F., 2002, U-Pb geochronological evidence for incremental filling of the Tuolumne Intrusive Suite magma chamber: *Geological Society of America Abstracts with Programs*, v. 34, p. 269.
- Glazner, A. F., Taylor, R. Z., Bartley, J. M., and Gray, W. M., 2002, Dike assembly of the Tuolumne Intrusive Suite, Yosemite National Park, California: *Geological Society of America Abstracts with Programs*, v. 34, p. 269.
- Carlson, R. W., Walker, D., Black, R., Glazner, A., Farmer, L., and Grossman, J., 2001, NAVDAT—a western North American volcanic and intrusive rock geochemical database: *Geological Society of America Abstracts with Programs*, v. 33, p. 175.
- Glazner, A. F., and Farmer, G. L., 2001, Correlation between strontium isotopic composition and topography in volcanic rocks from eastern California: *Geological Society of America Abstracts with Programs*, v. 33, p. A-65.
- Bartley, J. M., Glazner, A. F., and Mahan, K. H., 2001, Structure of the Cardinal Mountain interpluton screen, Sierra Nevada batholith, California: *Geological Society of America Abstracts with Programs*, v. 33, p. A-50-51.
- Grasse, S. W., Bartley, J., and Glazner, A. F., 2001, Emplacement of the North Mountain pluton, Kings Canyon National Park, California: *Geological Society of America Abstracts with Programs*, v. 33, p. A-50.
- Briggs, S. M., Miller, B. V., Carl, B. S., Glazner, A. F., and Coleman, D. S., 2001, Ages of Sage Hen Flat and Redding Canyon plutons, White Mountains, California: *Geological Society of America Abstracts with Programs*, v. 33, p. A-58.
- Taylor, R. Z., Glazner, A. F., and Bartley, J. M., 2001, Structure and stratigraphy of the May Lake interpluton screen, Yosemite National Park, California: *Geological Society of America Abstracts with Programs*, v. 33, p. A-58.
- Bartley, J. M., Grasse, S., Mahan, K. H., Glazner, A. F., and Coleman, D. S., 2000, Formation of thin wall rock screens and pluton emplacement processes, Sierra Nevada, California: *Geological Society of America Abstracts with Programs*, v. 32, p. A-99.
- Templeton, J. A., Tibbits, M. D., Glazner, A. F., Bartley, J. M., and Coleman, D. S., 2000, Contact relations of two thin interpluton screens in the eastern Sierra Nevada, California: *Geological Society of America Abstracts with Programs*, v. 32, p. A-71.
- Bryson, J. L., Pritchett, D., and Glazner, A. F., 2000, Where, oh where, do the bristlecones grow? Geologic and topographic controls on the distribution of bristlecone pine trees (*Pinus longaeva*), White Mountains, California: *Geological Society of America Abstracts with Programs*, v. 32, p. A-6.
- Monastero, F. C., Walker, J. D., and Glazner, A. F., 2000, Microplates of the Pacific-North America boundary: *Geological Society of America Abstracts with Programs*, v. 3, p. A-156.

- Glazner, A. F., Bartley, J. M., and Walker, J. D., 2000, How widespread was Cenozoic extension in the Mojave Desert?: Geological Society of America Abstracts with Programs, v. 32, p. A-156.
- Bartley, J. M., Mahan, K. H., Carl, B. S., and Glazner, A. F., 1999, Reverse-sense shear origin of steep dips in eastern Sierran wall rocks: Geological Society of America Abstracts with Programs, v. 31, p. A37.
- Glazner, A. F., 1999, Cordilleran batholiths and the geology of subduction zones: Geological Society of America Abstracts with Programs, v. 30, p. A57 (invited paper).
- Ratajeski, K., Sisson, T. W., and Glazner, A. F., 1999, Fluid-absent partial melting of mafic lower crust in continental-margin arcs: implications for the origin of low silica granites in the Sierra Nevada batholith: Geological Society of America Abstracts with Programs, v. 30, p. A86.
- Glazner, A. F., Bartley, J. M., and Hamilton, W. B., 1999, Making space for batholiths by extrusion of sub-batholithic crust: Geological Society of America Abstracts with Programs, v. 31, p. A235.
- Farmer, G. L., Glazner, A. F., and Manley, C. R., 1999, Late Cenozoic volcanism and tectonic evolution of the southern Sierra Nevada: Geological Society of America Abstracts with Programs, v. 31, p. A481.
- Bartley, J. M., and Glazner, A. F., 1998, Megastoping and the formation of interpluton wall rock screens in the Sierra Nevada, California: Geological Society of America Abstracts with Programs, v. 30, p. 4.
- Glazner, A. F., and Manley, C. R., 1998, Late Cenozoic volcanism in and around the Sierra Nevada: possible links to plate boundary events and climate: Geological Society of America Abstracts with Programs, v. 30, p. 15-16.
- Bartley, J. M., Dinter, D. A., Glazner, A. F., and Carl, B. S., 1998, AMS of Cretaceous dikes in the Independence swarm, California: Geological Society of America Abstracts with Programs, v. 30, p. A73.
- Walker, J. D., Black, R. A., Kamola, D. L., and Glazner, A. F., 1998, Collaborative effort on the geologic and geophysical synthesis of the southwestern Basin and Range and Mojave Desert: Fifth Annual USN-Geothermal Program Office Technical Symposium, Las Vegas, Nevada, November 12-13, 1998.
- Glazner, A. F., Manley, C. R., Marron, J. S., and Rojstaczer, S., 1998, Fire or ice: anticorrelation of volcanism and glaciation in California over the past million years: Fifth Annual USN-Geothermal Program Office Technical Symposium, Las Vegas, Nevada, November 12-13, 1998.
- Monastero, F. C., Katzenstein, A. M., Glazner, A. F., Miller, J. S., and Adams, M. C., 1998, Evidence for a nascent metamorphic core complex at the Coso geothermal area, California: Fifth Annual USN-Geothermal Program Office Technical Symposium, Las Vegas, Nevada, November 12-13, 1998.
- Glazner, A. F., Leeman, W. P., and Miller, J. S., 1998, Summary of geochemical studies of volcanic rocks in the Coso geothermal area and environs: Fifth Annual USN-Geothermal Program Office Technical Symposium, Las Vegas, Nevada, November 12-13, 1998.
- Bartley, J. M. and Glazner, A. F., 1998, Deep geothermal convection as the cause of the alteration pattern of SW U.S. metamorphic core complexes: Fifth Annual USN-Geothermal Program Office Technical Symposium, Las Vegas, Nevada, November 12-13, 1998.
- Manley, C. R., Glazner, A. F., and Farmer, G. L., 1998, Timing of delamination of the Sierra Nevada root: evidence from a 3-4 Ma pulse of volcanism in the southern Sierra: EOS, v. 79, p. F559.
- Glazner, A. F., Manley, C. R., Marron, J. S., and Rojstaczer, S., 1998, Fire or ice: anticorrelation of volcanism and glaciation in California over the past million years: EOS, v. 79, p. F982.
- Glazner, A. F., Bartley, J. M., and Carl, B. S., 1997, North-south opening of the Independence dike swarm and Late Jurassic tectonics of California: Geological Society of America Abstracts with Programs, v. 29, p. 16.
- Ratajeski, K. R., and Glazner, A. F., 1997, Field and isotopic characteristics of mafic rocks associated with the El Capitan granite in Yosemite Valley, California: Geological Society of America Abstracts with Programs, v. 29, p. 58.
- Coleman, D. S., and Glazner, A. F., 1997, Where in the world does 0.706 come from?: Geological Society of America Abstracts with Programs, v. 29, p. A68.

- Glazner, A. F., and Miller, J. S., 1997, A major lithospheric boundary in eastern California defined by isotope ratios in Cenozoic basalts from the Coso Range and surrounding areas: Geological Society of America Abstracts with Programs, v. 29, p. A69.
- Miller, J. S., and Glazner, A. F., 1997, Correlation of basalt sources with seismicity in California and western Nevada: Geological Society of America Abstracts with Programs, v. 29, p. A279.
- Carl, B. S., Glazner, A. F., and Bartley, J. M., 1997, Composite Independence dikes, eastern California: Geological Society of America Abstracts with Programs, v. 29, p. A391.
- Monastero, F. C., Katzenstein, A. F., Glazner, A., Miller, J., Adams, M., and Hasting, M., 1997, Evidence for a nascent metamorphic core complex at the Coso geothermal area, California: EOS, v. 78, p. F659.
- Farmer, G. L., Glazner, A. F., and Manley, C., 1997, Sources of late Cenozoic basalts, southern Sierra Nevada, California: EOS, v. 78, p. F815.
- Coleman, D. S., Glazner, A. F., and Hirschmann, M. M., 1996, Growth of continental lithosphere during continental arc magmatism, an example from the Sierra Nevada batholith, CA: Geological Society of America Abstracts with Programs, v. 28, p. 56.
- Carl, B. S., Glazner, A. F., Miller, J. S., Groeger, A., and UNC Advanced Field Camp, 1996, Field relations along the eastern Sierran front near Independence, California: Geological Society of America Abstracts with Programs, v. 28, p. 54.
- Bartley, J. M., Carl, B. S., and Glazner, A. F., 1996, Injection of dikes along faults: Geological Society of America Abstracts with Programs, v. 28, p. 47.
- Glazner, A. F., and Miller, D. M., 1996, Post-emplacement sinking of plutons: Geological Society of America Abstracts with Programs, v. 28, p. 69.
- Groves, K. R., and Glazner, A. F., 1996, Isotopic and geochemical analysis of Pleistocene basalts from the southern Coso volcanic field, California: Geological Society of America Abstracts with Programs, v. 28, p. 71.
- Dinter, D. A., Carl, B., Bartley, J. M., and Glazner, A. F., 1996, AMS evidence for sinistral shear during emplacement of Independence dike swarm, California: Geological Society of America Abstracts with Programs, v. 28, p. A-247.
- Glazner, A. F., and Coleman, D. S., 1996, Genesis of Sierran crust: the view from low SiO₂: EOS, v. 77, p. F381.
- Carl, B. S., Bartley, J. M., and Glazner, A. F., 1996, Mechanical model for synintrusive Nevadan deformation in the eastern Sierra: EOS, v. 77, p. F641.
- Carl, B. S., Bartley, J. M., and Glazner, A. F., 1995, Structural geology of Independence dikes, eastern Sierra Nevada, Calif.: Geological Society of America Abstracts with Programs, v. 27, p. 9.
- Waits, J. R., and Glazner, A. F., 1995, Isotopic and geochemical variations in mantle xenolithic basalts from eastern California: Geological Society of America Abstracts with Programs, v. 27, p. 82.
- Hirt, W. H., and Glazner, A. F., 1995, Sr and Nd isotopic compositions of granitoids from the Mount Whitney intrusive suite, southern Sierra Nevada, California: EOS, v. 76, p. F657.
- Bradford, K. J., Glazner, A. F., and Coleman, D. S., 1994, Mafic sill complexes in the eastern Sierra Nevada, California, and Cretaceous crustal growth: Geological Society of America Abstracts with Programs, v. 26, p. 40-41.
- Miller, J. S., Walker, J. D., Martin, M. W., Boettcher, S. S., Schermer, E. R., Fletcher, J. M., and Glazner, A. F., 1994, Mesozoic deformation and magmatism in the intra-arc region of the central and western Mojave Desert: Geological Society of America Abstracts with Programs, v. 26, p. 74.
- Keith, L., Miller, J. S., Glazner, A. F., and Schermer, E. R., 1994, Geochemistry of Miocene volcanism on Fort Irwin, northern Mojave Desert, California: Geological Society of America Abstracts with Programs, v. 26, p. 62-63.

- Miller, J. S., and Glazner, A. F., 1994, Mantle sources and lithospheric boundaries defined by Miocene volcanism in the Mojave Desert of California: Geological Society of America Abstracts with Programs, v. 26, p. 75.
- Farmer, G. L., Glazner, A. F., Wilshire, H. G., Wooden, J. L., and Pickthorn, W. J., 1994, A MORB source for late Cenozoic basalts at the Cima volcanic field, Mojave Desert, California: Geological Society of America Abstracts with Programs, v. 26, p. 50.
- Fink, J. H., Delaney, P. T., Moore, J. G., and Glazner, A. F., 1994, Mitigating volcanic hazards through active tectonic research: Geological Society of America Abstracts with Programs, v. 26, p. A-383.
- Glazner, A. F., and Coleman, D. S., 1994, Cretaceous crustal construction around the Owens Valley between Bishop and Independence, California: EOS, v. 75, p. 583.
- Coleman, D. S., Bartley, J. M., Glazner, A. F., and Carl, B. S., 1994, Late Cretaceous dikes in the Independence swarm, California: EOS, v. 75, p. 686.
- Glazner, A. F., and Farmer, G. L., 1993, Evolution of late Cenozoic basaltic volcanism in the Mojave Desert, California: Geological Society of America Abstracts with Programs, v. 25, p. 42.
- Miller, J. S., Walker, J. D., Glazner, A. F., and Martin, M. W., 1993, The displaced eugeoclinal rocks in the El Paso Mountains and northern Mojave Desert: A Triassic sliver: Geological Society of America Abstracts with Programs, v. 25, p. 122.
- Joye, J. L., Bachl, C. A., Miller, J. S., Frost, T. P., Glazner, A. F., and Coleman, D. S., 1993, Age and intrusive relations of the Lamarck Granodiorite and associated mafic plutons, Sierra Nevada, California: Geological Society of America Abstracts with Programs, v. 25, p. 60.
- Beard, B. L., and Glazner, A. F., 1993, Sr and Nd isotopic composition of xenoliths from the Big Pine volcanic field, California: Geological Society of America Abstracts with Programs, v. 25, p. 8.
- Miller, J. S., and Glazner, A. F., 1993, Late Cretaceous highly evolved granites in the western Mojave Desert: isotopic signature, possible source, and implications for tectonic reconstructions: Geological Society of America Abstracts with Programs, v. 25, p. 42.
- Fletcher, J. M., Glazner, A. F., and Bartley, J. M., 1993, Contrasting patterns of synkinematic retrograde metamorphism, central Mojave metamorphic core complex, California: Geological Society of America Abstracts with Programs, v. 25, p. 102.
- Beard, B. L., and Glazner, A. F., 1993, Extreme isotopic compositions of basanitic lavas from Deep Springs Valley, California: evidence for melting of mantle veins: Geological Society of America Abstracts with Programs, v. 25, p. 445.
- Glazner, A. F., 1993, Foundering of mafic plutons and density stratification of continental crust: EOS, v. 74, p. 685.
- Coleman, D. S., Glazner, A. F., and Frost, T. P., 1992, Isotopic homogeneity within the compositionally heterogeneous Lamarck granodiorite, Sierra Nevada, California: Geological Society of America Abstracts with Programs, v. 24, p. 16.
- Coleman, D. S., Glazner, A. F., Miller, J. S., and Frost, T. P., 1992, Along-strike isotopic variations in mafic rocks and Independence dikes from the Sierra-Mojave batholith: EOS, v. 73, p. 658-659.
- Glazner, A. F., Fletcher, J. M., Bartley, J. M., Walker, J. D., Martin, M. W., Miller, J. S., Taylor, W. J., and Coleman, D. S., 1992, Widespread Miocene plutonism and ductile deformation in the central Mojave metamorphic core complex, California: EOS, v. 73, p. 548.
- Miller, J. S., Fletcher, J. M., Boettcher, S. S., Martin, M. W., and Glazner, A. F., 1992, Late Cretaceous deformation, plutonism, and cooling around Fremont Peak, central Mojave Desert, California: EOS, v. 73, p. 574
- Suayah, I. B., Miller, J. S., Glazner, A. F., and Martin, M. W., 1992, Mixing and assimilation in the Miocene Fremont Peak dike swarm, central Mojave Desert, California: EOS, v. 73, p. 659.
- Bartley, J. M., Glazner, A. F., Fletcher, J. M., Martin, M. W., and Walker, J. D., 1992, Amount and nature of dextral offset on Neogene faults near Barstow, California: EOS, v. 73, p. 363.

- Farmer, G. L., Wilshire, W. G., Wooden, J. L., Glazner, A. F., and Katz, M., 1991, Temporal variations in the sources of alkali basalts at the Cima volcanic field, SE California: Geological Society of America Abstracts with Programs, v. 23, p. 23.
- Feiss, P. G., Glazner, A. F., and Bartley, J. M., 1991, Synextensional barite-silver mineralization in the hanging wall of the Waterman Hills detachment fault, central Mojave Desert, California: Geological Society of America Abstracts with Programs, v. 23, p. 24.
- Glazner, A. F., and Farmer, G. L., 1991, Production of isotopic variability in basalts by cryptic mafic contamination: EOS, v. 72, p. 267.
- Miller, J. S., Glazner, A. F., Martin, M. W., and Walker, J. D., 1991, Age relations, chemical and isotopic signature, and tectonic implications of Middle to Late Jurassic plutonism in the central and western Mojave Desert: Geological Society of America Abstracts with Programs, v. 23, p. A249.
- Farmer, G. L., and Glazner, A. F., 1991, Geochemical effects of crustal contamination in Cenozoic basalts, SE California: Geological Society of America Abstracts with Programs, v. 23, p. A45.
- Glazner, A. F., Miller, J. S., and Farmer, G. L., 1991, Geochemical and isotopic variability of mafic magmatism in the Mojave Desert, Jurassic to present: EOS, v. 72, p. 561.
- Glazner, A. F., Bartley, J. M., and Schermer, E. R., 1990, Neogene transpression in the Mojave Desert, California: Geological Society of America Abstracts with Programs, v. 22, p. A25.
- Glazner, A. F., Bartley, J. M., Fletcher, J. M., and Walker, J. D., 1990, Geologic map of the central Mojave metamorphic core complex, southern California: Geological Society of America Abstracts with Programs, v. 22, p. A25.
- Glazner, A. F., and Bartley, J. M., 1990, Contrasting Cenozoic tectonomagmatic histories of the northern and southern Basin and Range: Geological Society of America Abstracts with Programs, v. 22, p. A25.
- Walker, J. D., Martin, M. W., Bartley, J. M., and Glazner, A. F., 1990, Middle to late Jurassic deformation belt through the Mojave Desert, California: Geological Society of America Abstracts with Programs, v. 22, p. A91.
- Martin, M. W., Miller, J. S., Glazner, A. F., and Walker, J. D., 1990, Preliminary isotopic investigations of plutonic rocks from the central Mojave Desert: Implications for lithospheric structure: Geological Society of America Abstracts with Programs, v. 22, p. A63.
- Glazner, A. F., and Bartley, J. M., 1990, Large-scale fluid flow during crustal extension: A.G.U. Chapman Conference on Crustal-Scale Fluid Transport, Snowbird, Utah, June 1990.
- Glazner, A. F., Ussler, W. III, and Mathis, A. C., 1990, Interpretation of plagioclase texture in volcanic rocks: EOS, v. 71, p. 1678.
- Glazner, A. F., Bartley, J. M., Caskey, S. J., Monastero, F. C., Nitchman, S. P., and Smith, G. I., 1990, New evidence for Miocene-to-Recent north-south contraction of the Mojave block, California: EOS, v. 71, p. 1224.
- Farmer, G. L., Glazner, A. F., Hughes, W. T., Wooden, J. L., and Pickthorn, W., 1990, Mixing of basaltic magma with mafic crust at Amboy and Pisgah Craters, Mojave Desert, California: EOS, v. 71, p. 1682.
- Bartley, J. M., and Glazner, A. F., 1990, Petrological evidence for large-scale pore fluid convection in the central Mojave metamorphic core complex, California: EOS, v. 71, p. 1663.
- Glazner, A. F., and Bartley, J. M., 1989, Source of potassium in potassium-metasomatized, extended Tertiary rocks of the Mojave Desert: Abstract for International Association of Volcanology and Chemistry of the Earth's Interior meeting, New Mexico Bureau of Mines and Mineral Resources Bulletin 131, p. 109.
- Curtis, P. C., Meen, J. K., and Glazner, A. F., 1989, Liquid lines of descent in alkalic continental rift magmas: Petrologic, geochemical, and experimental constraints from the East African Rift: Abstract for International Association of Volcanology and Chemistry of the Earth's Interior meeting, New Mexico Bureau of Mines and Mineral Resources Bulletin 131, p. 65.

- Farmer, G. L., and Glazner, A. F., 1989, Isotopic evidence on the origin of Miocene–Recent basalts in SE California and the nature of the sub-Mojave mantle (abs.): EOS, v. 70, p. 1420.
- Glazner, A. F., and Bartley, J. M., 1989, Volume loss, element mobility, and fluid flow during Tertiary mylonitization in the central Mojave metamorphic core complex, California: Geological Society of America Abstracts with Programs, v. 21, p. A177.
- Bartley, J. M., Fletcher, J. M., and Glazner, A. F., 1989, Tertiary extension and contraction of lower-plate rocks in the central Mojave metamorphic core complex: Implications for footwall uplift processes in continental extension: Geological Society of America Abstracts with Programs, v. 21, p. A83.
- Bartley, J. M., and Glazner, A. F., 1989, A hypothesis for the link between Miocene extension in the Colorado River trough and Mojave Desert: Geological Society of America Abstracts with Programs, v. 21, p. A354.
- Curtis, P. C., Meen, J. K., and Glazner, A. F., 1989, Experimentally determined liquid lines of descent for alkalic continental rift magmas: Geological Society of America Abstracts with Programs, v. 21, p. A157.
- Glazner, A. F., Walker, J. D., Bartley, J. M., and Dent, S. B., 1988, Distribution and relations of Precambrian and Paleozoic rocks in the central Mojave Desert, California: Geological Society of America Abstracts with Programs, v. 20, p. 163.
- Glazner, A. F., and Bartley, J. M., 1988, Early Miocene dome emplacement, diking, and faulting in the Marble Mountains, eastern Mojave Desert: Geological Society of America Abstracts with Programs, v. 20, p. 163-164.
- Nielson, J.E., Glazner, A. F., and Lux, D. R., 1988, Problems of dating the Peach Springs Tuff: Geological Society of America Abstracts with Programs, v. 20, p. 218.
- Glazner, A. F., and Ussler, W., III, 1988, Buoyant trapping of magma in the middle crust (abs.): EOS, v. 69, p. 493.
- Bartley, J. M., Glazner, A. F., and Walker, J. D., 1988, Magnitude, timing, and significance of slip on the Waterman Hills detachment fault, central Mojave Desert, California: Geological Society of America Abstracts with Programs, v. 20, p. A382-A383.
- Glazner, A. F., Ussler, W., III, and Mies, J. W., 1988, Fate of granitic minerals in mafic magmas (abs.): EOS, v. 69, p. 1504.
- Ussler, W., III, and Glazner, A. F., 1988, Enthalpy effects of magma mixing (abs.): EOS, v. 69, p. 1465.
- Glazner, A. F., and Ussler, W., III, 1987, Crustal density control of magma contamination and ascent in extensional regions: Geological Society of America Abstracts with Programs, v. 19, p. 381.
- Glazner, A. F., Dent, S. B., and Bartley, J. M., 1987, Miocene detachment fault in the Waterman Hills, central Mojave Desert, California: Geological Society of America Abstracts with Programs, v. 19, p. 381-382.
- Hughes, W. T., and Glazner, A. F., 1987, Geochemical evolution of basalts from Amboy and Pisgah lava fields, Mojave Desert, California: Geological Society of America Abstracts with Programs, v. 19, p. 390.
- Mies, J. W., and Glazner, A. F., 1987, Quartz xenocrysts with rhyolite glass inclusions as evidence of assimilated granite (abs.): EOS, v. 68, p. 434-435.
- Ussler, W., III, and Glazner, A. F., 1987, Origin of augite coronas around quartz xenocrysts in basalts and andesites: Geological Society of America Abstracts with Programs, v. 19, p. 874.
- Bartley, J. M., and Glazner, A. F., 1987, Tertiary deformation beneath the Waterman detachment, central Mojave Desert, California: Geological Society of America Abstracts with Programs, v. 19, p. 582.
- Glazner, A. F., and Ussler, W. III, 1987, Lithospheric extension and the change from intermediate to basaltic volcanism in the western United States (abs.): EOS, v. 68, p. 1529.
- Ussler, W. III, Batiza, R., Allan, J. F., and Glazner, A. F., 1987, Phase equilibria of young Pacific seamount basalts: insights into the origin of plagioclase-phyric oceanic basalts (abs.): EOS, v. 68, p. 1542.

- Glazner, A. F., Turner, R. D., and O'Neil, J. R., 1986, Crustal structure of the Mojave Desert: inferences from $^{87}\text{Sr}/^{86}\text{Sr}$ and $\delta^{18}\text{O}$ in Miocene volcanic rocks (invited paper): Geological Society of America Abstracts with Programs, v. 18, p. 109.
- Glazner, A. F., and Ussler, W., III, 1986, The heat capacity of magmas: implications for magma cooling rates and the origin of compositional gaps: Geological Society of America Abstracts with Programs, v. 18, p. 616.
- Ussler, W., III, and Glazner, A. F., 1986, Phase equilibria along a basalt-rhyolite mixing line: Geological Society of America Abstracts with Programs, v. 18, p. 778.
- Glazner, A. F., 1985, Petrology of Miocene volcanic rocks from the Mojave Desert: interaction of mafic magmas with old continental crust: Geological Society of America Abstracts with Programs, v. 17, p. 356.
- Sanner, W. K., and Glazner, A. F., 1985, Miocene faulting, volcanism and basin formation in the Box Canyon area, central Mojave Desert: Geological Society of America Abstracts with Programs, v. 17, p. 406.
- West, N. W., and Glazner, A. F., 1985, Possible correlation of the Redfire and Peach Springs Tuffs: a 500 km³ tuff in the Mojave Desert and western Arizona?: Geological Society of America Abstracts with Programs, v. 17, p. 418.
- Schubert, G., and Glazner, A. F., 1985, Flexure of the North American lithosphere above the subducted Mendocino fracture zone: talk given at International Symposium on Deep Internal Processes in Continental Rifting, Cheng-Du, China, September 1985.
- Feiss, P. G., Ussler, W. III, and Glazner, A. F., 1985, Slate Belt metamorphism, aluminosilicate assemblages, and the phase diagram cats ask for by name: Geological Society of America Abstracts with Programs, v. 17, p. 91.
- Glazner, A. F., Ussler, W. III, and Hughes, W. T., 1985, Crystal-melt thermobarometry: application to alkali basalt evolution, the depth of magma chambers, and basalt underplating of continental crust (abs.): EOS, v. 66, p. 1121-1122.
- Glazner, A. F., 1984, Activities of olivine and plagioclase components in silicate melts and their application to geothermometry (abs.): EOS, v. 65, p. 289-290.
- Glazner, A. F., and Bartley, J. M., 1984, Evolution of lithospheric strength after thrusting (abs.): EOS, v. 65, p. 281.
- Glazner, A. F., and Turner, R. D., 1984, $^{87}\text{Sr}/^{86}\text{Sr}$ variations in Tertiary volcanic rocks from the Mojave Desert and their bearing on crustal composition and structure: Geological Society of America Abstracts with Programs, v. 16, p. 520.
- Glazner, A. F., and Richardson, B. O., 1983, Major-element differences between syn- and post-subduction volcanic rocks in the western U.S.: Geological Society of America Abstracts with Programs, v. 15, p. 280.
- Chapin, C. E., and Glazner, A. F., 1983, Widespread K_2O metasomatism of Cenozoic volcanic and sedimentary rocks in the southwestern United States: Geological Society of America Abstracts with Programs, v. 15, p. 282.
- Lindley, J. I., D'Andrea Dinkelman, J. F., Glazner, A. F., and Osburn, G. R., 1983, Chemical and mineralogic variations associated with potassium metasomatism of Tertiary volcanic rocks from the Rio Grande Rift and Mojave Desert: Geological Society of America Abstracts with Programs, v. 15, p. 282.

- Bartley, J. M. and Glazner, A. F., 1983, Relationship between Tertiary low-angle normal faults and hydrothermal systems in the southwestern U.S.: Geological Society of America Abstracts with Programs, v. 15, p. 522.
- Glazner, A. F., and Bartley, J. M., 1983, Timing of Tertiary low-angle normal faulting in the southwestern United States: Geological Society of America Abstracts with Programs, v. 15, p. 582.
- Glazner, A. F., 1982, Effect of subduction of the Mendocino fracture zone on Tertiary sedimentation in the southwestern United States: Geological Society of America Abstracts with Programs, v. 14, p. 167.
- Glazner, A. F., 1982, Tertiary volcanism and hydrothermal activity in the Mojave block: Geological Society of America Abstracts with Programs, v. 14, p. 167.
- Loomis, D. P., and Glazner, A. F., 1982, Effect of Farallon plate subduction on Miocene evolution of the San Joaquin basin, California: Geological Society of America Abstracts with Programs, v. 14, p. 549.
- Glazner, A. F., 1981, Miocene volcanic succession in the Sleeping Beauty area, central Mojave Desert, and its tectonic significance: Geological Society of America Abstracts, v. 13, p. 57.
- Glazner, A. F., 1981, Tectonic significance of the stratigraphy and distribution of Cenozoic volcanic rocks in the central Mojave Desert: U.S. Geological Survey Open-File Report 81-503, p. 39-40.
- Glazner, A. F., 1981, Detachment faulting, volcanism, and the passage of the Mendocino fracture zone under the southwestern United States: Geological Society of America Abstracts with Programs, v. 13, p. 460.
- Glazner, A. F., 1980, A new method for calculating stable phase assemblages, with applications to experimental work on the basalt-eclogite transition (abs.): EOS, v. 61, p. 151.
- Glazner, A. F., 1979, Geochemistry of ultrapotassic metasomatism in the Sleeping Beauty volcanic area, central Mojave Desert, California: Geological Society of America Abstracts, v. 11, p. 79-80.
- Glazner, A. F., and A. L. Stork, 1976, Ultrapotassic, silica-rich, Tertiary volcanic rocks from the Mojave Desert, California: Geological Society of America Abstracts with Programs, v. 8, p. 886.