

David A. Foster

March 2026

Professor and Interim Associate Dean

Department of Geological Sciences
College of Liberal Arts and Sciences
University of Florida
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Appointments

Interim Associate Dean for Research, College of Liberal Arts and Sciences, 2025-
Professor, Department of Geological Sciences, University of Florida, 2005-
Chair, Department of Geological Sciences, University of Florida, 2013-2022
Associate Chair, Department of Geological Sciences, University of Florida, 2007-2013
Visiting Professor, Department of Applied Physics, Curtin University of Technology, 2009
Associate Professor, Department of Geological Sciences, University of Florida, 2000-2005
Honorary Senior Fellow, School of Earth Sciences, University of Melbourne, 2000-2004
Assistant Professor, Department of Geology, University of Florida, 1998-2000
Honorary Senior Fellow, Department of Earth Sciences, La Trobe University, 1999-2000
Senior Research Fellow, Department of Earth Sciences, La Trobe University, 1995-1998
Research Fellow, School of Earth Sciences, La Trobe University, 1991-1995
Visiting Fellow, Research School of Earth Sciences, Australian National University, 1993
Postdoctoral Fellow, Department of Geology, La Trobe University, 1990-1991

Professional Preparation

Ph.D. 1989	University at Albany, State University of New York
M.S. 1986	University of Montana, Missoula
B.A. 1984	State University of New York, Potsdam

Research Interests

- Tectonic evolution of continents: orogeny, extension/rifting, and magmatism
- $^{40}\text{Ar}/^{39}\text{Ar}$ and U-Th-Pb geochronology and thermochronology
- Volcanic rock soil amendments, enhanced weathering, basaltic soil amendments, and CO_2 sequestration with agricultural applications

Awards

Fellow of the Geological Society of America
Fellow of the Geological Society of Australia
F.L. Stillwell Award, Geological Society of Australia (1997 and 2004)
Colonel Allan R. and Margaret G. Crow Term Professor
Exemplary Advisor and Mentor, NSF SE Alliance for Graduate Education and the Professoriate

University of Florida Research Foundation Professor
La Trobe University Research Fellowship
Jessie J. McNall Science Award

Professional Society Memberships

American Geophysical Union, Geological Society of America, Geological Society of Australia, Geochemical Society, American Association for the Advancement of Science

Committees and Administration

- Geological Science of America, Mineralogy, Geochemistry, Petrology, and Volcanology Division Distinguished Geological Career Award Committee 2026-2028
- Finance Committee, College of Liberal Arts and Sciences, Member 2009-2012, Chair 2010-2011, Member 2023-2024
- University of Florida Faculty Senate 2020-2023
- Executive Committee, Department of Geological Sciences, 2007-2025
- UF Geological Sciences External Advisory Board 2010-2024
- Geological Society of America, Structural Geology and Tectonics Division Career Contributions Award Committee, Member 2019–2023, Chair 2021 & 2023
- NASA Mission Science Panel Member
- UF Marine Science Committee, 2016-2022
- National Science Foundation, Division of Earth Sciences, Panel Member (multiple years)
- U Florida Research Foundation Grant Review Panel Member 2008, 2019-2022
- UF Astrophysics Steering Committee, 2015-2017
- Thermo2014 Awards Committee, International Thermochronology Community
- Task Force on the Future of the College of Liberal Arts and Sciences, 2012-2013
- Editor *Geosciences*, 2012-2013
- EarthScope Continental Deformation Thematic Working Group, 2008-2018
- Chair, Merit Review Committee, Geological Sciences, 2006 - 2012
- Research Advisory Committee, College of Liberal Arts and Sciences, 2005–2010
- Associate Editor, *Geological Society of America Bulletin*, 1999 – 2010
- Associate Editor, *Geology*, 2005 - 2009
- Chair, Graduate Studies Planning Committee, Geological Sciences, 2005-2007
- Department Review Committee, University of Florida, 2005-2006
- Convener, EarthScope in the Northern Rockies Workshop, 2005
- Graduate Studies Committee, University of Florida, 1998-2004
- Science Advisor to the Editor, Plenum Publishers, 1999-2002
- Organizing Committee for the International Conference on Thermochronology, 1997-2000
- Field Trip Coordinator, Geological Society of Australia, 1996
- Quality Review Team - Research and Community Service, La Trobe University, 1995
- International Committee for Fission-Track Dating Standards, IUGC, 1993-1996

Funding

- Basaltic Rock Dust (BARD) Amendment for Improved Soil Health and Environment

US Department of Agriculture USDA-NIFA: Agriculture and Food Research Initiative (AFRI)-
Soil Health 2025-67019-44443, 12/15/2025-12/14/2029 \$749,999
-Ductile Strain in the Footwall of a Metamorphic Core Complex: A Field Example to Test
Models for Dynamics, Timescales, and Controls of Mid-Crustal Flow, 2017-2022
National Science Foundation (Tectonics) (Senior Personnel)
EAR1728227 \$110,633
-Rates, Timing, and Nature of Sub-Orbital Sea-level Change, 2016-2021
National Science Foundation OCE1559040 \$503,905
-Knauss Fellowship for Alexandra Skrivanek, 2020-2021
US Department of Commerce Sea Grant Program \$69,000
-Acquisition of a MC-ICP-MS for Research and Education in U-series Geochemistry and
Applications in Geosciences, 2017-2019
National Science Foundation EAR1660318 \$693,780
-Collaborative Development of High Spatial Resolution Trace Element Applications for Earth
Systems and Materials Science, 2017-2019
UF Research Foundation Opportunity Fund \$98,479
-GEMS: GEophysical Monitoring Station for InSight Mission, 2013-2018
CAL Tech – Jet Propulsion Laboratory \$208,681
-MRI: Acquisition of a High-Resolution Electron Probe Micro-Analyzer, 2014-2017
National Science Foundation (MRI) DMR1429265 \$905,540
-Tectonic-Stratigraphic Characterization of Sedimentary Basins in the Columbian Pacific
Margin; Columbian National Petroleum Agency/Univ. of Caldas, 2013-2017 \$167,933
-Geodynamics and Continental Extension in the East African Rift System: Origin and Evolution
of the Turkana Depression in Northern Kenya (co-PI with A. Gleadow); 2013-2016
Australian Research Council \$420,000
-Precambrian Crustal Evolution in Western Laurentia: Implications from the Sawtooth
Metamorphic Complex 2012-2016, National Science Foundation (Tectonics)
EAR1145212 \$496,640 (\$288,182 UF)
-Geochemical Imaging of Post-Pangean Lithospheric Structure in the Southern Appalachians
2011-2016, National Science Foundation (Tectonics)
EAR06030000 \$412,392 (\$271,128 UF)
-Integrated Optical Emission and Isotope Ratio Measurements During Laser Ablation 2010-2013
Research Opportunity Fund, University of Florida Research Foundation \$85,066
-Collaborative Research: REU Site Project--Evolution of Precambrian Rocks in Yellowstone
National Park 2009-2012 National Science Foundation (Education and Human Resources)
EAR0851752 \$76,640
-Mid-Crustal Strain During Extension: A Field-based Investigation of Rheological Transitions,
Doming, and Vertical Coupling 2009-2013
National Science Foundation (Tectonics), EAR0838476 \$144,518
-Significance of the Damara Orogen in Gondwana Assembly: an Evaluation of Detrital Zircon
Ages and Isotopic Compositions of Neoproterozoic Metasedimentary Rocks
2008-2012 National Science Foundation (Tectonics), EAR0738874 \$291,024
-Development of a 4-D Model of Crustal Evolution in the Northern Rocky Mountains
2006-2011 National Science Foundation (EarthScope), EAR0545715 \$216,480
-⁴⁰Ar/³⁹Ar Geochronology for EarthScope 2007-2010
UNAVCO for National Science Foundation (EarthScope) \$40,000
-International Partnership in Neotropical Paleobiology and Biodiversity – Once-in-a-Century

Opportunity along the Panama Canal 2007-2008	
University of Florida Research Foundation	\$78,950
-Evolution of the SW Laurentian Margin: Implications for Proterozoic Crustal Growth and Geodynamics 2006-2010	
National Science Foundation (Tectonics), EAR0538133	\$230,000
-Tectono-Thermal Evolution and Exhumation in Transpressional Orogens: the Deep Crust of the Damara Orogen, Namibia; 2005-2007	
National Science Foundation (Tectonics), EAR0440188	\$228,779
-Relationship of Lithospheric Age and Composition to Mineral Resources Within, Beneath, and Adjacent to the Belt Basin; 2005-2006	
United States Geological Survey	\$29,500
-Development of a Laser Ablation Isotope Ratio Capability for Interdisciplinary Research; 2005-2006 University Florida Research Foundation	\$55,000
-Collaborative Research: Workshop for Integrated EarthScope Research and Education in the Northern Rocky Mountains; 2004-2006	
National Science Foundation (EarthScope), EAR0346182	\$22,250
-Technical Support for a New ICP-MS Laboratory for Earth and Ocean Science Research at the University of Florida; 2004-2009 National Science Foundation, EAR0418905	\$217,901
-Origin and Evolution of the Great Falls Tectonic Zone: Implications for the Assembly of Southern Laurentia and Rodinian Connections; 2001-2005	
National Science Foundation (Tectonics), EAR0106592	\$192,000
-Turbidite-dominated orogens: Geometrical constraints, geochronology and metamorphism of the coastal branch of the Damara Orogen, Namibia and implications for the Tasman Orogen, eastern Australia (co-PI with D.R. Gray); 2001-2003	
Australian Research Council	\$225,000
-Amalgamation and Accretion of the Lachlan Orogen, Australia; 2000-2003	
National Science Foundation (Tectonics), EAR0073638	\$169,800
-Acquisition of a Noble Gas Mass Spectrometer for Geochronology and Thermochronology at the University of Florida; 2000-2004	
National Science Foundation (IF), EAR0080086	\$280,000
-Acquisition of a Noble Gas Mass Spectrometer for Geochronology and Thermochronology at the University of Florida; 2000-2004	
University of Florida Research Foundation and CLAS	\$295,000
-Tectonic evolution across the north-east margin of the Tibetan Plateau; 2000-2002	
Australian Research Council (A10020302)	\$105,000
-Low-temperature thermochronology: applications to morphotectonics and dynamics of continental extension; 2000-2002	
Australian Research Council (A10020308)	\$403,535
-Subduction-related deformation and metamorphism of turbidite sequences: structural, geochronological and metamorphic constraints on tectonic evolution of the Otago Schist, New Zealand; 1999-2001 Australian Research Council	\$136,500
-Thermochronology of Highly Extended Terrains; 1998-2000	
Australian Research Council	\$246,000
-Thermochronological Evolution of Australian Basement Terrains; 1995-2000,	
Australian Geodynamics Cooperative Research Centre	\$358,000
-VIC-GOLD; 1996-1999	

Australian Geodynamics Cooperative Research Centre	\$346,000
-Timing of deformation in the Delamerian Fold Belt, SA; 1999	
Australian Research Council	\$5,000
-Structure and tectonics of the central Adelaide Fold Belt, South Australia; 1999	
Australian Research Council	\$9,000
-Fission track thermochronology of narrow rift flanks; 1999	
Australian Research Council	\$10,000
- ⁴⁰ Ar- ³⁹ Ar Thermochronology - Applications to Extensional Tectonics;	
1995-1997 Australian Research Council	\$165,000
-Continental Fission Track Imaging; 1996-1997,	
Australian Geodynamics Cooperative Research Centre	\$120,000
-Fission-Track Thermochronology of Continental Extension (co-PI); 1993-1995.	
Australian Research Council	\$247,000
-Continental Fission Track Imaging; 1993-1996	
Australian Geodynamics Cooperative Research Centre	\$345,000
- ⁴⁰ Ar- ³⁹ Ar Thermochronology - Applications to Extensional Tectonics; 1992-1994;	
Australian Research Council	\$172,000
-Basement Tectonics of the Sepik-Ramu Basins, northern Papua New Guinea; 1992-1993	
Mobil New Exploration Company	\$60,000
-Geochemical and Isotopic Analysis of Volcanic Rocks Related to the Kenya Rift 1992-1993	
La Trobe University	\$13,500
-The Thermochronology of Crustal Extension Tectonics 1991-1993	
La Trobe University Fellowship	\$110,000

Teaching Experience and Course Development

Developed the first online Geology BA degree in the USA (rated #1 online Geology degree)
 Geology of American National Parks
 Physical Geology
 Tectonics and Earth Structure
 Geological Evolution of North America
 Geochronology and Isotope Geology
 Tectonic Geomorphology
 Thermochronology

Graduate and Post-Doctoral Research Supervised

Post-Doctoral and Research Fellow Supervision

Sylvie Costa (1996)
 Catherine Spaggiari (2002-2003)
 Michael Hartley (2001-2004)
 James Vogl (2001-2006)
 Sergio Restrepo-Moreno (2010-2015)
 Ruben Diez Fernandez (2011-2013)
 Antonios Marsellos (2010–2015)

Ce Wang (2014-2015)
Angela Leal (2022-2023)

Graduate Student Primary Supervisor/Committee Chair

Ph.D.

- Melinda M. Mitchell, (Ph.D. 1997; Victoria Historical Society) *The Provenance and Thermal History of the Western Otway Basin and Thermotectonics of the Flinders Ranges, South Australia*
- Wayne P. Noble, (Ph.D. 1998; software engineer) *The Thermochronology of Crustal Extension Tectonics in East Africa*
- Richard A. Spikings, (Ph.D. 1998; Professor, University of Geneva) *The Fission Track and ^{40}Ar - ^{39}Ar Thermochronology and Tectonics of the Mt Isa Inlier, Murphy and Georgetown Inliers, Northeastern Australia*
- Martin Bucher, (Ph.D. 1998; Swiss Army Research) *Timing of Deformation, Plutonism and Cooling in the Western Lachlan Fold Belt, Southeastern Australia*
- Peter V. Crowhurst, (Ph.D. 1999; exploration consultant) *Tectonics of the New Guinea Mobile Belt and Sepik Basin*
- Michael Hartley, (Ph.D. 2000; De Beers Group) *Examination of Field and Geochronological Evidence for the Significance of the 500 Ma Delamerian Orogeny in Australia*
- Catherine Spaggiari, (Ph.D. 2002; Geological Survey of Western Australia) *Structural, Metamorphic, and Tectonic Evolution of Cambrian Ophiolites, Lachlan Orogen, Southeastern Australia*
- Tim Carter (Ph.D. 2003) *(U-Th)/He Thermochronology of Extension in the Basin and Range Province*
- Sergio Restrepo-Moreno (Ph.D. 2009; Professor, Universidad Nacional de Colombia) *Prehistoric vs. Modern Erosion Rates in Colombian Andes: Human Impact and Implications for Landscape Evolution and Conservation.*
- Misty Stroud (Ph.D. ABD; Dean, Morgan Community College) *Significance of 2.4-2.0 Ga Continental Crust in SW Laurentia*
- Jennifer N. Gifford (Ph.D. 2013; University of Mississippi) *Precambrian Crustal Evolution in the Great Falls Tectonic Zone.*
- Chong Ma (Ph.D. 2015; Arizona Geological Survey, University of Arizona) *Structure, Depositional age, and Magmatism in the Sawtooth Metamorphic Complex, Idaho: Implications for Cordilleran Tectonics*
- Ryan Wilhelmi (Ph.D. 2020; Adjunct Instructor, University of Florida) *Paleoproterozoic Crustal Evolution of the Western Wyoming craton*
- Angel Barbosa (Ph.D. 2020; Professor, Universidad Nacional de Colombia) *Magmatism and Tectonics of the western Cordillera, Colombia: Relationship to Closing of the Isthmus of Panama*
- Peng Jaing (Ph.D. 2022; University of Hawaii) *In-situ Chemical and Isotopic Analyses of Major and Accessory Mineral Phases: Method Developments and Applications to the Damara Orogen and the East Pacific Rise*
- Carolina Ortiz Guerrero (Ph.D. 2022; Nature Communications) *Research and Outreach in Idaho's Geology: Timescales and Conditions for Decoupled Crustal Flow in the Pioneer*

Mountains Core Complex, and Impacts of Google-Earth Electronic Field Trips in K-12 Environments

Megan Borel (Ph.D. 2023; NASA) *Extension, Tectonism and 3D Development of the Pioneer Metamorphic Core Complex, Idaho*

Danielo Cruz (Ph.D. 2025; Federal University of Para, Brazil) *Mafic Volcanic Rocks as Windows into the Earth's Interior: Field Data Acquisition, Constraints on Tectonic Models, and Links to Global Events*

Hee Jun Cheong (Ph.D. candidate, expected 2026) *Ecological Changes Across the Cretaceous-Paleogene Boundary – Geochronology, Magnetostratigraphy, Climate Modeling Approach*

Minh Pham (Ph.D. in progress) *High-Pressure Metamorphism in the Brooks Range Alaska*

Emmanuel Nyavor (Ph.D. in progress). *Enhanced Rock Weathering for Soil Health and the Environment*

Masters

Julia Murphy (Masters 2000) *Geochronology of Late Synkinematic Plutons in the Sevier Fold-Thrust belt, Montana*

Sam Coyner (Masters 2003) *Geochronology and Isotopic Systematics of the Bitterroot Mylonite, Montana/Idaho*

Warren Grice (Masters 2006) *Style and Timing of Mylonitization, Detachment, Ductile Attenuation and Metamorphism in the Anaconda Metamorphic Core Complex, West-Central Montana*

Virginia Newman (Masters 2008) *Exhumation of the Ruby Mountains metamorphic core complex*

Jennifer N. Gifford (Masters 2008) *Quantifying Eocene and Miocene Extension in the Sevier Hinterland, NE Nevada*

Brittney Newstead (Masters 2010) *Detrital Zircon and Isotope Analysis of Metasedimentary Rocks from the Damara Orogen*

Alberto Carmenate (Masters 2012) *(U-Th)/He Thermochronology of South-Central Idaho: An Investigation of Interactions Between Uplift, Extension, and Hotspot Processes*

Diego Ramirez (Masters 2013) *Detrital Geochronology and Neogene Tectonic Setting of the Panama Arc*

Qianying Lin (Masters 2015) *Alleghanian granites in the Southern Appalachian Orogen*

Alina L. Bricker (Masters 2016) *Apatite (U-Th)/He Thermochronology of the Yellowstone Crescent High Terrane: Implications for Miocene to Recent Topographic Impacts Associated with the Yellowstone Hot Spot.*

Michael Kedenburg (Masters 2016) *Thermochronological Constraints on Cenozoic Uplift and Exhumation of the Azuero Peninsula, Panama: Implications for South Central American Stratigraphy and Tectonics*

Jason Titus (Masters 2020) *Terrane Accretion in the Brooks Range, Alaska*

Meridith Miska (Masters 2023) *Tracing Archean-Proterozoic Crustal Evolution in Northern Michigan Using U-Pb Age and Hf Isotopic Compositions of Detrital Zircons*

Laura Mulrooney (Masters 2023) *Magmatism and Tectonics in the Eocene Pioneer Metamorphic Core Complex*

Graduate Student Committee Member

Ph.D.

John Chadwick (Ph.D. 2002); George Kamenov (Ph.D. 2004); Victoria Mejia (Ph.D. 2005); Kusali Gamage (Ph.D. 2005); Alejandro Gilagro (Ph.D. 2010); Vimal Prahdan (Ph.D. 2011); Edwin Cadena (Ph.D. 2012); Alexander Hastings (Ph.D. 2012); Nichelle Baxter (Ph.D. 2012); Tania Villasenor Jorquera (Ph.D. 2015); William Severa (Ph.D. 2015); Christian Stanciu (Ph.D. 2015); Sutatcha Hongresawat (Ph.D. 2015); Megan Torpey (Ph.D. 2016); Paul Bremner (Ph.D. 2016); Aldo Fernando Rincon Burbana (Ph.D. 2016); Michelle Penkrot (Ph.D. 2018); Anthony Pivarunas (Ph.D. 2019); Yitan Wang (Ph.D. 2022); Brian Kelly (Ph.D. 2024); McKenna Holiday (Ph.D. 2024); Cynthia Hotuhec-Kanter (Ph.D. in progress)

Masters

Amy Kemerer (Masters 2001); Sharon Perez-Suarez (Masters 2001); Holly Simpson (Masters 2001); Alisa Haase (Masters 2001); Scott Kutza (Masters 2002); Susan Kulp (Masters 2003); Michelle Hays (Masters 2004); Jillian Saray Hinds (Masters 2005); Laurie Cotsonika (Masters 2006); Kelly Probst (Masters 2007); Joshua Richards (Masters 2007); Shawn Malone (Masters 2007); Laura Gregory (Masters 2008); Rachel Wendt (Masters 2008); Robert Sarianni (Masters 2010); Annette Farah (Masters 2010); Aldo Fernando Rincon Burbana (Masters 2011); Mercedes Belica (Masters 2012); Katrina Garman (Masters 2012); Dylan Loss (Masters 2013); Wenyan Zhang (Masters 2014); Iliya Smithka (Masters 2015); Douglas Sagel (Masters 2016); Emily Rodriguez (Masters 2017); Kendall Salanis (Masters 2017); Sara Mills (Masters 2017); Karstin Katusin (Masters 2017); Krista McGillivray (Masters 2019); Julian Avila Bernal (Masters 2025); Kwaner Sistrunk (Masters 2025)

Ph.D. Thesis Examiner

Corine Davids (1999, Australian National University) *A Thermochronological Study of Southern Fiordland, New Zealand*
Mativz Lorenkac (2003, The University of Melbourne) *Low Temperature Thermochronology of the Canadian and Fennoscandian Shields: Integration of Apatite Fission Track and (U-Th)/H Methods*
Christian Seiler (2009, The University of Melbourne) *Structural and Thermal Evolution of the Gulf Extensional Province in Baja California, Mexico: Implications for Neogene Rifting and Opening of the Gulf of California*
Melanie Sophia Lee (2016, The University of Queensland) *Thermochronology and Stratigraphy of the Thompson Orogen north-eastern Queensland*
Song Lu (2016, The University of Melbourne) *The Thermotectonic Evolution of the Southwest Yilgarn Craton, Western Australia*
Juergen Oestle (Ph.D. 2019, University of Wellington) *The Thermo-tectonic Evolution of the Suckling-Dayman Metamorphic Core Complex, Southeastern Papua New Guinea*
Derek Hoy (2020, The University of Queensland) *The Hunter-Bowen Orogeny in eastern Australia*

Publications

Published data sets, field guides, maps, government records, and general science articles

1. Hyndman, D.W., and D.A. Foster, 1988, The northern Idaho batholith and its associated high-grade metamorphic rocks, in S.E. Lewis, and R.B. Berg, eds., Precambrian and Mesozoic plate margins: Montana, Idaho and Wyoming, *Montana Bureau of Mines and Geology, Special Publication 96*, p. 97-102.
2. Hyndman, D.W., and D.A. Foster, 1988, Field guide to a section through the northern Idaho batholith and surrounding high-grade metamorphic rocks, in S.E. Lewis, and R.B. Berg, eds., Precambrian and Mesozoic plate margins: Montana, Idaho and Wyoming, *Montana Bureau of Mines and Geology, Special Publication 96*, p. 159-164.
3. Hyndman, D.W., and D.A. Foster, 1989, Plutonism at deep crustal levels: The Idaho batholith, Montana and Idaho, in D.W. Hyndman, ed., Cordilleran volcanism, plutonism, and magma generation at various crustal levels, Montana and Idaho, *28th International Geologic Congress Field Trip Guide T337*: American Geophysical Union, Washington, D.C., p. 1-15.
4. Noble, W.P., Foster, D.A., and Gleadow, A.J.W., 1994, The post Pan African tectonothermal development of the Mozambique Belt in Eastern Tanzania, IGCP 348, Field conference in the high -grade metamorphic terranes in East Africa: Arusha, Tanzania, August 22-27.
5. Foster, D.A., D.R. Gray, and R. Offler, 1996, The Western Subprovince of the Lachlan Fold Belt: Structural Style, Geochronology, Metamorphism, and Tectonics: *Specialist Group in Geochemistry, Mineralogy, and Petrology Field Guide No. 1*, Geological Society of Australia, 89 pp.
6. Crowhurst, P.V., K.C. Hill, and D.A. Foster, 1997, The structural and tectonic development of the Frieda River mineral district, NW Papua, New Guinea: in Hancock, G. (ed.), *Proceedings of the PNG Geology, Exploration and Mining Conference 1997*, Madang, Australian Institute of Mining and Metallurgy, Melbourne, p. 51-60.
7. Barton, T.J., D.R. Gray, A.J. Owen, R.J. Korsch, B.J. Drummond, and D.A. Foster, 1998, Crustal structure in the western Lachlan Orogen, based on a seismic transect to the north of the Grampians, Victoria: *Australian Geological Survey Organisation Record*, 1998/2, p. 1-5.
8. Gray, D.R., and D.A. Foster, 1998, The western Lachlan Fold Belt: an example of a propagating “oceanic” thrust-system in a Late Ordovician-Early Devonian accretionary wedge: *Australian Geological Survey Organisation Record*, 1998/2, p. 85-87.
9. Hartley, M.J., D.A. Foster, D.R. Gray, B.P. Kohn, 1998, ^{40}Ar - ^{39}Ar and apatite fission track thermochronology of the Broken Hill Inlier: implications for the Mesoproterozoic to Recent tectonics: *Australian Geological Survey Organisation Record*, 1998/25, 46-49.
10. Spaggiari, C.V., D.R. Gray, and D.A. Foster, 1998, Intermediate P metamorphism in Cambrian oceanic sequences, western Lachlan Fold Belt and implications for tectonics: *Australian Geological Survey Organisation Record*, 1998/2, p. 166-167.
11. Wilson, C.J.L., D.R. Gray, D.A. Foster, V.J. Morand, P.M. Schaubs, and C. Spaggiari, 1999, The great southern transect I: an overview of the geology of the eastern, central, and western sub-provinces of the Lachlan Fold Belt; Murrumbidgee to Halls Gap, Victoria: *Specialist Group in Tectonics and Structural Geology Field Guide No. 5*, Geological Society of Australia, 123 pp.
12. Foster, D.A., and D.R. Gray, 2000, Field Guide to the Geology and Thermochronology of the Western Lachlan Orogen (Fold Belt): Geological Society of Australia, Sydney, pp. 57.

13. Glen, R.A., P.G. Lennox, D.A. Foster, 1999, ^{40}Ar - ^{39}Ar dating of deformations west of the Hill End Trough Lachlan Orogen New South Wales: *Quarterly Notes Geological Survey of New South Wales*, 110, 13-22.
14. Foster, D.A., 2000, Tectonic evolution of the Eocene Bitterroot metamorphic core complex, Montana and Idaho: *In* Roberts, S. and Winston, D., *Geologic field trips, western Montana and adjacent areas*: Rocky Mountain Section of the Geological Society of America, University of Montana, Missoula, p. 1-29.
15. Kalakay, T.J., B.E. John, and D.A. Foster, 2000, Dynamics of syn-compressional magmatism in Sevier fold-and-thrust belt of southwest Montana: *In* Roberts, S. and Winston, D., *Geologic field trips, western Montana and adjacent areas*: Rocky Mountain Section of the Geological Society of America, University of Montana, Missoula, p. 157-177.
16. Coyner, S.J., D.A. Foster, and C.M. Fanning, 2001, Emplacement chronology of the Paradise Pluton: Implications for the development of the Bitterroot metamorphic core complex, Montana/Idaho: *Northwest Geology*, v. 30, p. 10-20.
17. Gray, D.R., and D.A. Foster, 2004, Tasman orogenic belt, eastern Australia: an example of Paleozoic tectonic accretion - an essay. *In* B.A. van der Pluijm and S. Marshak, *Earth Structure: an Introduction to Structural Geology and Tectonics second edition*: W.W. Norton and Company, New York, p. 547-555.
18. Vogl, J.J., D.A. Foster, P.A. Mueller, J.L. Wooden, and D.W. Mogk, 2004, Lithology and age of pre-Belt Precambrian basement in the Little Belt Mountains, Montana: implications for the role of the Great Falls tectonic zone in the Paleoproterozoic assembly of North America: *Northwest Geology*, v. 33, p. 15-34.
19. Zeig, G.A., D.L. Feedback, J.J. Vogl, D.A. Foster, P.A. Mueller, and D.W. Mogk, 2004, A field tour through the Proterozoic rocks of the southern Little Belt Mountains: *Northwest Geology*, v. 33, p. 100-110.
20. Foster, D.A., T.J. Kalakay, P.A. Mueller, and A. Heatherington, 2007, Late Cretaceous granitic plutons in southwestern Montana: *Northwest Geology*, v. 36, p. 73-90.
21. Mueller, P., D. Foster, J. Gifford, J. Wooden, and D. Mogk, 2008, Tectonic and stratigraphic implications of detrital zircon suites in Cambrian and Precambrian sandstones from the eastern margin of the Belt Basin: *Northwest Geology*, v. 37, p. 61-68.
22. Mueller, P.A., D.W. Mogk, D.J. Henry, J.L. Wooden, and D.A. Foster, 2008, Geologic evolution of the Beartooth Mountains: insights from petrology and geochemistry: *Northwest Geology* v. 37, p. 5-20.
23. Mueller, P., A. Heatherington, D. Foster, and J. Wooden, 2011, Alleghanian granites of the southern Appalachian Orogen: keys to Pangean reconstructions: *Georgia Geological Society Guidebook*, v. 31, p. 29-48.
24. Mogk, D., Henry, D., Mueller, P., and Foster, D., 2012, Origins of a continent: evidence from a Research Experience for Undergraduates project in Northern Yellowstone National Park: *Yellowstone Science*, v. 20, p. 22-32.
25. Bausch, W.G., Baldwin, J.A., and Foster, D.A., 2013, Synextensional emplacement and cooling of the East Fork Dike Swarm at Lost River Pass, Southwest, Montana: *Northwest Geology*, v. 42, p. 299-308.
26. Foster, D.A., Mueller, P.A., Vogl, J.J., Gifford, J., and Mogk, D.W., 2013, The Little Belt Arc of the Great Falls tectonic zone: a key component of the Belt Basin basement: *Northwest Geology*, v. 42, p. 107-110.

27. Mueller, P., Mogk, D., Henry, D., Foster, D., Berndt, T., Grip, T., Hanson, M., Kotash, A., Maloney, P., Philbrick, K., and Ware, B., 2014, Mesoarchean plutonism in the South Snowy block (Yellowstone National Park): new evidence for an old arc, *Northwest Geology*.
28. Foster, D. A., Gray, K. D., Johnson, K., Isakson, V. H., 2022. Geochronology of Cretaceous and Paleogene granitic plutons in the Flint Creek Range, Montana and Blue Mountains, Oregon, Version 1.0. *Interdisciplinary Earth Data Alliance* (IEDA). <https://doi.org/10.26022/IEDA/112034>
29. Foster, D.A., Bhadah, J., Silveira, M.L. et al., 2024, Optimizing basaltic raw material for enhanced weathering for carbon dioxide removal and improving agricultural soil. *ESS Open Archive*, December 26, 2024, DOI:10.22541/essoar.173524408.83600971/v1.

Books

1. Till, A., Roeske, S., Sample, J., and Foster, D.A., 2007, Exhumation along major continental strike-slip systems, Geological Society of America Special Paper 434: Geological Society of America, Boulder, 264 pp.
2. Hacker, D., and Foster, D., 2019, Geology of National Parks, 7th edition: Kendall Hunt, Dubuque, Iowa, 1049 pp.
3. Foster, D.A., and Hacker, D., 2022, Geology of National Parks, 8th edition: Kendall Hunt, Dubuque, Iowa, 1148 pp.

Peer-Reviewed Journal Articles and Chapters in Books

1. Hyndman, D.W., and D.A. Foster, 1988, The role of tonalites and mafic dikes in the generation of the Idaho batholith: *Journal of Geology*, v. 96, p. 31-46.
2. Foster, D.A., T.M. Harrison, and C.F. Miller, 1989, Age, inheritance, and uplift history of the Old Woman-Piute batholith, California and implications for K-feldspar age spectra: *Journal of Geology*, v. 97, p. 232-243.
3. Hyndman, D.W., D.A. Foster, C. Rutland, H.W. Smedes, R.I. Tilling, W.R. Greenwood, and R.F. Hardyman, 1989, Cordilleran volcanism, plutonism, and magma generation at various crustal levels; Montana and Idaho: *New Mexico Bureau of Mines and Mineral Resources, Memoir 47*, p. 255-264.
4. Foster, D.A., and D.W. Hyndman, 1990, Magma mixing and mingling between synplutonic mafic dikes and granite in the Idaho-Bitterroot batholith: *Geological Society of America Memoir 174*, p. 347-358.
5. Foster, D.A., T.M. Harrison, P. Copeland, and M.T. Heizler, 1990, Effects of excess argon on K-feldspar age spectra in the presence of large diffusion domains and plagioclase inclusions: *Geochimica et Cosmochimica Acta*, v. 54, p. 1699-1708.
6. Foster, D.A., T.M. Harrison, C.F. Miller, and K.A. Howard, 1990, The $^{40}\text{Ar}/^{39}\text{Ar}$ thermochronology of the eastern Mojave Desert, California and adjacent western Arizona with implications for the evolution of metamorphic core complexes: *Journal of Geophysical Research*, v. 95, p. 20,005-20,024.
7. Carl, B.S., C.F. Miller, and D.A. Foster, 1991, Western Old Woman Mountains shear zone: Evidence for late ductile extension in the Cordilleran orogenic belt: *Geology*, v. 19, p. 893-896.

8. Dumitru, T.A., P.B. Gans, D.A. Foster, and E.L. Miller, 1991, Refrigeration of the western Cordilleran lithosphere during Laramide shallow-angle subduction: *Geology*, v. 19, p. 1145-1148.
9. Dumitru, T.A., K.C. Hill, D.A. Coyle, I.R. Duddy, D.A. Foster, A.J.W. Gleadow, P.F. Green, G.M. Laslett, B.P. Kohn, and A.B. O'Sullivan, 1991, Fission track thermochronology: Application to continental rifting of southeastern Australia: *Australian Petroleum Exploration Association Journal*, v. 31, p. 131-142.
10. Foster, D.A., D.S. Miller, and C.F. Miller, 1991, Tertiary extension in the Old Woman Mountains area, California: evidence from apatite fission track analysis: *Tectonics*, v. 10, p. 875-886.
11. Foster, D.A., and A.J.W. Gleadow, 1992, The morphotectonic evolution of rift-margin mountains in central Kenya: constraints from apatite fission track analyses: *Earth and Planetary Science Letters*, v. 113, p. 157-171.
12. Foster, D.A., C.F. Miller, T.M. Harrison, and T.D. Hoisch, 1992, The $^{40}\text{Ar}/^{39}\text{Ar}$ thermochronology and thermobarometry of metamorphism, plutonism, and tectonic denudation in the Old Woman Mountains area, California: *Geological Society of America Bulletin*, v. 104, p. 176-191.
13. Foster, D.A., and A.J.W. Gleadow, 1992, Reactivated tectonic boundaries and implications for the reconstruction of southeastern Australia and northern Victoria Land, Antarctica: *Geology*, v. 20, p. 267-270.
14. Miller, C.F., J.M. Hanchar, J.L. Wooden, V.C. Bennett, T.M. Harrison, D.A. Wark, and D.A. Foster, 1992, Source region of a granitoid batholith: evidence from lower crustal xenoliths and inherited accessory minerals: *Transactions of the Royal Society of Edinburgh: Earth Sciences*, v. 83, p. 49-62.
15. Miller, C.F., J.M. Hanchar, J.L. Wooden, V.C. Bennett, T.M. Harrison, D.A. Wark, and D.A. Foster, 1992, Source region of a granitoid batholith: evidence from lower crustal xenoliths and inherited accessory minerals: in P.E. Brown and B.W. Chappell, eds., The second Hutton symposium on the origin of granites and related rocks: *Geological Society of America Special Paper 272*, p. 49-62.
16. Baldwin, S.L., G.S. Lister, E.J. Hill, D.A. Foster, and I. McDougall, 1993, Thermochronologic constraints on the tectonic evolution of an active metamorphic core complex, D'Entrecasteaux Islands, Papua New Guinea: *Tectonics*, v. 12, p. 611-628.
17. Fitzgerald, P.G., S.J. Reynolds, E. Stump, D.A. Foster, and A.J.W. Gleadow, 1993, Thermochronologic evidence for timing of denudation and rate of crustal extension of the South Mountain metamorphic core complex and Sierra Estrella, Arizona: *Nuclear Tracks*, v. 21, p. 555-563.
18. Foster, D.A., and A.J.W. Gleadow, 1993, Episodic denudation in East Africa - a legacy of intracontinental tectonism: *Geophysical Research Letters*, v. 20, p. 2395-2398.
19. Foster, D.A., A.J.W. Gleadow, S.J. Reynolds, and P.G. Fitzgerald, 1993, The denudation of metamorphic core complexes and the reconstruction of the Transition Zone, west-central Arizona: constraints from apatite fission-track thermochronology: *Journal of Geophysical Research*, v. 98, p. 2167-2185.
20. Foster, D.A., and A.J.W. Gleadow, 1993, The architecture of Gondwana rifting in southeastern Australia: evidence from apatite fission track thermochronology, in Findley, R.H., H.R. Banks, J.J. Veevers, and R. Unrug, eds., *Gondwana 8 Assembly, Evolution and Dispersal*: A.A. Balkema, Rotterdam, p. 597-603.

21. Hill, K.C., A. Grey, D.A. Foster, and R. Barrett, 1993, An alternative model for the Oligo-Miocene evolution of northern PNG and the Sepik-Ramu Basins, in G.J. Carmen and Z. Carmen, eds., *Petroleum Exploration and Development in Papua New Guinea*: PNG Chamber of Mines and Petroleum, Port Moresby, p. 241-258.
22. John, B.E., and D.A. Foster, 1993, Structural and thermal constraints on the initiation angle of detachment faulting in the southern Basin and Range: The Chemehuevi Mountains case study: *Geological Society of America Bulletin*, v. 105, p. 1091-1108.
23. Foster, D.A., J.M. Murphy, and A.J.W. Gleadow, 1994, Middle Tertiary hydrothermal activity and uplift of the northern Flinders Ranges, South Australia: insights from apatite fission-track analysis: *Australian Journal of Earth Sciences*, v. 41, p. 11-17.
24. Foster, D.A., A.J.W. Gleadow, and G. Mortimer, 1994, Rapid Pliocene exhumation in the Karakoram, revealed by fission-track thermochronology of the K2 gneiss: *Geology*, v. 22, p. 19-22.
25. Allen, C.M., J.L. Wooden, K.A. Howard, D.A. Foster, and R.M. Tosdal, 1995, Sources of the Early Cretaceous plutons in the Turtle and West Riverside Mountains, California: Anomalous Cordillerian interior plutons: *Journal of Petrology*, v. 36, p. 1675-1700.
26. Foster, D.A., 1995, Limits on the tectonic significance of rapid cooling events in extensional settings: Insights from the Bitterroot metamorphic core complex, Idaho-Montana: Comment: *Geology*, v. 23, p. 1051-1052.
27. Howard, K.A., K.J.W. McCaffrey, J.L. Wooden, D.A. Foster, and S.E. Shaw, 1995, Jurassic thrusting of Precambrian basement over Paleozoic cover in the Clipper Mountains, southeastern California, in D.M. Miller and C. Busby, eds., *Jurassic Magmatism and Tectonics of the North American Cordillera*: *Geological Society of America Special Paper* 299, p. 375-392.
28. O'Sullivan, P.B., D.A. Foster, B.P. Kohn, A.J.W. Gleadow, and A. Raza, 1995, Constraints on the dynamics of rifting and denudation on the eastern margin of Australia: Fission track evidence for two discrete causes of rock cooling: *Australian Institute of Mining and Metallurgy Publication* 9/95, p. 441-446.
29. O'Sullivan, P.B., B.P. Kohn, D.A. Foster, and A.J.W. Gleadow, 1995, Fission track data from the Bathurst batholith: evidence for rapid middle Cretaceous uplift and erosion within the eastern highlands of Australia: *Australian Journal of Earth Sciences*, v. 42, p. 597-607.
30. Plimer, I.R., J. Lu, D. Foster, and J. Kleeman, 1995, Ar-Ar dating of multiphase mineralisation associated with the Mole Granite, Australia, in Pasava, Kribek, and Zak, eds., *Mineral Deposits*: A.A. Balkema, Rotterdam, p. 497-500.
31. Bierlein, F.P., D.A. Foster, and I.R. Plimer, 1996, Tectonothermal implications of laser ^{40}Ar - ^{39}Ar ages of sulphide-bearing veins in the Willyama Supergroup, South Australia: *Mineralogy and Petrology*, v. 58, p. 1-22.
32. Crowhurst, P.V., K.C. Hill, D.A. Foster, and A.P. Bennett, 1996, Thermochronological and geochemical constraints on the tectonic evolution of northern Papua New Guinea, in Hall, R. and D. Blundell, eds., *Tectonic Evolution of Southeast Asia*: *Geological Society London Special Publication*, 106, 525-537.
33. Foster, D.A., and A. J. W. Gleadow, 1996, Structural framework and denudation history of the flanks of the Kenya and Anza Rifts, East Africa: *Tectonics*, v. 15, p. 258-271.
34. Foster, D.A., T.A.P. Kwak, and D.R. Gray, 1996, Timing of gold mineralisation and relationship to metamorphism, thrusting, and plutonism in Victoria: *Australian Institute of Geologists Bulletin*, v. 20, 49-53.

35. Howard, K.A., and D.A. Foster, 1996, Thermal and unroofing history of a thick, tilted Basin and Range crustal section, Tortilla Mountains, Arizona: *Journal of Geophysical Research*, v. 101, p. 511-522.
36. Lu, J., P.K. Seccombe, D.A. Foster, and A.S. Andre, 1996, Timing of mineralization and source of fluids in a slate-belt auriferous vein system, Hill End goldfield, NSW, Australia: Evidence from ^{40}Ar - ^{39}Ar dating and O- and H- isotopes: *Lithos*, v. 38, p. 147-165.
37. Lu, J., I.R. Plimer, D.A. Foster, and B.G. Lottermoser, 1996, Multiple post-orogenic reactivation in the Olary Block, South Australia, evidence from $^{40}\text{Ar}/^{39}\text{Ar}$ dating of pegmatitic muscovite: *International Geology Reviews*, v. 38, p. 665-685.
38. O'Sullivan, P.B., D.A. Foster, B.P. Kohn, and A.J.W. Gleadow, 1996, Multiple post orogenic denudation events: An example from the eastern Lachlan fold belt, Australia: *Geology*, v. 24, p. 563-566.
39. Arne, D., B. Worley, C. Wilson, S.F. Chen, D.A. Foster, Z.L. Luo, S.G. Liu, and P. Dirks, 1997, Differential exhumation in response to episodic thrusting along the eastern margin of the Tibetan Plateau: *Tectonophysics*, v. 280, p. 239-256.
40. Crowhurst, P.V., K.C. Hill, and D.A. Foster, 1997, The structural and tectonic development of the Frieda River mineral district, NW Papua, New Guinea: in Hancock, G. (ed.), Proceedings of the PNG Geology, Exploration and Mining Conference 1997, Madang, Australian Institute of Mining and Metallurgy, Melbourne, p. 51-60.
41. Foster, D.A., and C.M. Fanning, 1997, Geochronology of the northern Idaho batholith and Bitterroot metamorphic core complex: magmatism preceding and contemporaneous with extension: *Geological Society of America Bulletin*, v. 109, p. 379-394.
42. Gray, D.R., and D.A. Foster, 1997, Orogenic concepts - application and definition: Lachlan Fold Belt, Eastern Australia: *American Journal of Science*, v. 297, p. 859-891.
43. Gray, D.R., D.A. Foster, and M. Bucher, 1997, Recognition and definition of orogenic events in the Lachlan Fold Belt: *Australian Journal of Earth Sciences*, v. 44, 489-501.
44. Kleeman, J.D., I.R. Plimer, J. Lu, D.A. Foster, and R. Davidson, 1997, Timing of thermal and mineralisation events associated with the Mole Granite, New South Wales: in Ashley, P.M., and Flood, P.G. (eds.) Tectonics and metallogensis of the New England Orogen: Alan H. Voisey Memorial volume: *Geological Society of Australia Special Publication*, 19, p. 254-265.
45. Kohn, B.P., S. Feinstein, D.A. Foster, M.S. Steckler, and M. Eyal, 1997, Thermal history of the eastern Gulf of Suez: II Reconstruction from apatite fission track and $^{40}\text{Ar}/^{39}\text{Ar}$ K-feldspar measurements: *Tectonophysics*, v. 283, p. 219-239.
46. Noble, W.P., D.A. Foster, and A.J.W. Gleadow, 1997, The post Pan African thermal and extensional history of crystalline basement rocks in Eastern Tanzania: *Tectonophysics*, v. 275/4, p. 331-350.
47. Soesoo, A., P.D. Bons, D.R. Gray, and D.A. Foster, 1997, Divergent double subduction: tectonic and petrologic consequences: *Geology*, v. 25, p. 755-758.
48. Spikings, R.A., D.A. Foster, and B.P. Kohn, 1997, Phanerozoic denudation history of the Mount Isa Inlier, Northern Australia: a record of the response of a Proterozoic mobile belt to intraplate tectonics: *International Geology Review*, v. 39, 107-124.
49. Foster, D.A., and K. Ehlers, 1998, ^{40}Ar - ^{39}Ar thermochronology of the southern Gawler Craton, Australia; implications for Mesoproterozoic and Neoproterozoic tectonics of East Gondwana and Rodinia: *Journal of Geophysical Research*, v. 103, p. 10,177-10,193.

50. Foster, D.A., D.R. Gray, T.A.P. Kwak, and M. Bucher, 1998, Chronology and tectonic framework of turbidite hosted gold deposits in the western Lachlan Fold Belt, Victoria: ^{40}Ar - ^{39}Ar results: *Ore Geology Reviews*, v. 13, p. 229-250.
51. Gray, D.R., and D.A. Foster, 1998, Character and kinematics of faults within the turbidite-dominated Lachlan Orogen: implications for the tectonic evolution of eastern Australia: *Journal of Structural Geology*, 20, 1691-1720.
52. Gray, D.R., D.A. Foster, C. Gray, J. Cull, and G. Gibson, 1998, Lithospheric structure of the southeast Australian Lachlan Fold Belt along the Victorian Global Geoscience Transect: *International Geology Review*, 40, 1088-1117.
53. Lennox, P., T. Fowler, and D. Foster, 1998, The composite Barry and Sunset Hills Granites: Wyangala style intrusion at the margin of a regional ductile shear zone, northern Lachlan Fold Belt, NSW: *Australian Journal of Earth Sciences*, v. 45, p. 849-863.
54. Mitchell, M.M., B.P. Kohn, and D.A. Foster, 1998, Post-orogenic cooling history of eastern South Australia from apatite FT thermochronology, in P. Van den haute and F. De Corte, eds., *Advances in Fission Track Geochronology*: Kluwer Academic Publishers, Dordrecht, p. 207-224.
55. Offler, R., J. McL. Miller, D.R. Gray, D.A. Foster, and R. Bale, 1998, Crystalinity and b_0 spacing of K-white micas in a Paleozoic accretionary complex, eastern Australia: metamorphism, paleo-geotherms and structural style of an underplated sequence: *Journal of Geology*, v. 106, p. 495-509.
56. Scott, R.J., D.A. Foster, and G.S. Lister, 1998, Tectonic implications of rapid cooling of denuded lower plate rocks from the Buckskin-Rawhide metamorphic core complex, west-central Arizona: *Geological Society of America Bulletin*, v. 110, p. 588-614.
57. Soesoo, A., P.D. Bons, D.R. Gray, and D.A. Foster, 1998, Divergent double subduction: tectonic and petrologic consequences: Reply: *Geology*, v. 29, p. 1053-1054.
58. Bierlein, F.P., D.A. Foster, S. McKnight, and D.C. Arne, 1999, Timing of gold mineralisation in the Ballarat Goldfield, central Victoria: constraints from $^{40}\text{Ar}/^{39}\text{Ar}$ results: *Australian Journal of Earth Sciences*, v. 46, p. 301-309.
59. Bierlein, F.P., D.A. Foster, S. Keay, D.C. Arne, and N.J. McNaughton, 1999, A dynamic model for gold mineralization in the western Lachlan Orogen, Victoria, Australia: implications for the origin of slate belt gold veins, in C.J. Stanley et al. (eds.), *Mineral Deposits: Processes to Processing*: Balkema, Rotterdam, pp. 1251-1254.
60. Cartwright, I., I.S. Buick, and D.A. Foster, and D.D. Lambert, 1999, Alice Springs age shear zones from the Southeastern Reynolds Range, central Australia: *Australian Journal of Earth Sciences*, v. 46, p. 355-364.
61. Foster, D.A., and B.E. John, 1999, Quantifying tectonic exhumation in an extensional orogen with thermochronology: examples from the southern Basin and Range Province: In Ring, U., Brandon, M., Lister, G.S., and Willett, S.D. (eds), *Exhumation Processes: normal faulting, ductile flow, and erosion*: *Geological Society (London) Special Publication*, 154, p. 356-378.
62. Foster, D.A., D.R. Gray, and M. Bucher, 1999, Chronology of deformation within the turbidite-dominated Lachlan orogen: implications for the tectonic evolution of eastern Australia and Gondwana: *Tectonics*, v. 18, p. 452-485.
63. Miller, J.McL., D.R. Gray, R.T. Gregory, and D.A. Foster, 1999, Exhumation of a high pressure terrain during convergent margin tectonism, Oman: structural and geochronological constraints: In Ring, U., Brandon, M., and Lister, G.S. (eds), *Exhumation*

- processes: normal faulting, ductile flow and erosion: *Geological Society (London) Special Publication*, 154, p. 246-260.
64. Pease, V., D. Foster, P. O'Sullivan, J. Wooden, J. Argent, and C. Fanning, 1999, The Northern Sacramento Mountains, Part II: Exhumation history and detachment faulting: *In* Mac Niocaill, C. and Ryan, P.D. (eds.), *Continental Tectonics, Geological Society (London) Special Publication*, v. 164, p. 199-237.
 65. Campbell, E.A., B.E. John, D.A. Foster, J. Geissman, and R.F. Livaccari, 2000, Mechanisms for accommodation of Miocene extension: low-angle normal faulting, magmatism, and secondary breakaway faulting in the southern Sacramento Mountains, southeastern California: *Tectonics*, v. 19, p. 566-587.
 66. Fletcher, J.M., B.P. Kohn, D.A. Foster, and A.J.W. Gleadow, 2000, Heterogeneous Neogene cooling and exhumation of the Las Cabos block, southern Baja California: evidence from fission track thermochronology: *Geology*, v. 28, p. 107-110.
 67. Foster, D.A., and D.R. Gray, 2000, The structure and evolution of the Lachlan Fold Belt (Orogen) of Eastern Australia: *Annual Review of Earth and Planetary Sciences*, v. 28, p. 47-80.
 68. Foster, D.A. and D.R. Gray, 2000, Timing of orogenic events in the Lachlan Orogen: *Australian Journal of Earth Sciences*, v. 47, p. 813-822.
 69. Gray, D.R., and D.A. Foster, 2000, Character and kinematics of faults within the turbidite-dominated Lachlan Orogen: implications for the tectonic evolution of eastern Australia: Reply: *Journal of Structural Geology*, v. 22, p. 529-535.
 70. Bierlein, F.P., D.C. Arne, D.A. Foster, and P. Reynolds, 2001, A geochronological framework for orogenic gold mineralisation in central Victoria, Australia: *Mineralium Deposita*, v. 36, p. 741-767.
 71. Foster, D.A., C. Schafer, C.M. Fanning, and D.W. Hyndman, 2001, Relationships between crustal partial melting, plutonism, orogeny, and exhumation: Idaho-Bitterroot batholith: *Tectonophysics*, v. 342, p. 313-350.
 72. Gray, D.R., and D.A. Foster, 2001, Character and kinematics of faults within the turbidite-dominated Lachlan Orogen: implications for the tectonic evolution of eastern Australia: reply: *Journal of Structural Geology*, v. 23, p. 145-147.
 73. Spikings, R., D.A. Foster, B.P. Kohn, and P.B. O'Sullivan, 2001, The Late Neoproterozoic to Holocene thermal history of the Precambrian Georgetown Inlier, northeast Australia: *Australian Journal of Earth Sciences*, v. 48, p. 9-24.
 74. Spikings, R.A., D.A. Foster, B.P. Kohn, and G.S. Lister, 2001, Post-orogenic (<1500 Ma) thermal history of the Mesoproterozoic Eastern Fold Belt, Mount Isa Inlier, Australia: *Precambrian Research*, v. 109, p. 103-144.
 75. Stuwe, K. and D. Foster, 2001, $^{40}\text{Ar}/^{39}\text{Ar}$, pressure, temperature and fission-track constraints on the age and nature of metamorphism around the main central thrust in the eastern Bhutan, Himalaya: *Journal of Asian Earth Sciences*, v. 19, p. 85-95.
 76. Bierlein, F.P., D.R. Gray, and D.A. Foster, 2002, Metallogenic relationships to tectonic evolution – the Lachlan Orogen, Australia: *Earth and Planetary Science Letters*, v. 202, p. 1-13.
 77. Foster, D.A., and A. Raza, 2002, Low-temperature thermochronological record of exhumation of the Bitterroot metamorphic core complex, northern Cordilleran Orogen: *Tectonophysics*, v. 349, p. 23-36.

78. Gray, D.R., D.A. Foster, F.P. Bierlein, 2002, Geodynamics and metallogeny of the Lachlan Orogen: *Australian Journal of Earth Science*, v. 49, p. 1041-1056.
79. Kohn, B.P., A.J.W. Gleadow, R.W. Brown, K. Gallagher, P.B. O'Sullivan, and D.A. Foster, 2002, Shaping the Australian crust over the last 300 million years: Insights from fission track thermotectonic imaging and denudation studies of key terranes: *Australian Journal of Earth Science*, v. 49, p. 697-717.
80. Korsch, R.J., T.J. Barton, D.R. Gray, A.J. Owen, and D.A. Foster, 2002, Geological interpretation of a deep seismic reflection transect across the boundary between the Delamerian and Lachlan orogens, in the vicinity of the Grampians, Western Victoria: *Australian Journal of Earth Science*, v. 49, p. 1057-1075.
81. Mitchell, M.M., B.P. Kohn, P.B. O'Sullivan, M. Hartley, and D.A. Foster, 2002, Low-temperature thermochronology of the Mount Painter Province, South Australia: *Australian Journal of Earth Sciences*, v. 49, p. 551-563.
82. Murphy, J.G., D.A. Foster, T.J. Kalakay, B.E. John, and M. Hamilton, 2002, U-Pb zircon geochronology of the eastern Pioneer igneous complex, SW Montana: magmatism in the foreland of the Cordilleran fold and thrust belt, *Northwest Geology*, v. 31, p. 1-11.
83. Spikings, R.A., D.A. Foster, B.P. Kohn, and G.S. Lister, 2002, Post-orogenic (<1500 Ma) thermal history of the Palaeo-Mesoproterozoic Mt. Isa province, NE Australia: *Tectophysics*, v. 349, p. 327-365.
84. Spaggiari, C.V., D.R. Gray, D.A. Foster, 2002, Blueschist metamorphism during accretion in the Lachlan Orogen, southeastern Australia: *Journal of Metamorphic Geology*, v. 20, p. 711-726.
85. Spaggiari, C.V., D.R. Gray, D.A. Foster, and M. Fanning, 2002, Occurrence and significance of blueschist in the southern Lachlan Orogen: *Australian Journal of Earth Sciences*, v. 49, p. 255-269.
86. Yin, A., P.E., Rumelhart, R. Butler, E. Cowgil, T.M. Harrison, D.A. Foster, R.V. Ingersoll, Zhang Qing, Zhou Xian-Qiang, Wang Xiao-Feng, A. Hansen, A. Raza, 2002, Tectonic history of the Altyn Tagh fault system in northern Tibet inferred from Cenozoic sedimentation: *Geological Society of America Bulletin*, v. 114, p. 1257-1295.
87. Bierlein, F.P., D.A. Foster, D.R. Gray and G.J. Davidson, 2003, Timing of orogenic gold mineralisation in NE Tasmania - implications for the tectonic evolution of SE Australia. In Eliopoulos, D.G. et al. (eds.), *Mineral Exploration and Sustainable Development*, Millpress Science, Rotterdam, pp. 739-742.
88. Biermeier, C., K. Stuwe, D.A. Foster, and F. Finger, 2003, Thermal evolution of the Redbank thrust system, central Australia: geochronological and phase-equilibrium constraints: *Tectonics*, v. 22, 1002, doi: 10.1029/2001TC901033.
89. Biermeier, C., M. Wiesinger, K. Stuwe, D.A. Foster, H.J. Gibson, A. Raza, 2003, Aspects of the structural and late thermal evolution of the Redbank thrust system, central Australia: constraints from the Spears metamorphics: *Australian Journal of Earth Sciences*, v. 50, p. 983-999.
90. Gray, D.R., D.A. Foster, V.J. Morand, C.E. Willman, R.A. Cayley, C. Spaggiari, D.H. Taylor, C.M. Gray, A.H.M. VandenBerg, M.A. Hendrix, and C.J.L. Wilson, 2003, Structure, metamorphism, geochronology and tectonics of Paleozoic rocks, Chapter 2: In Birch, B. (ed.) *Geology of Victoria, Geological Society of Australia Special Publication*, 23, p. 15-71.

91. Kalakay, T.J., D.A. Foster, and R.C. Thomas, 2003, Geometry and timing of deformation in the Anaconda extensional terrane, west-central Montana: *Northwest Geology*, v. 32, p. 124-133.
92. Kohn, B.P., Gleadow, A.J.W., Brown, R.W., Gallagher, K., O'Sullivan, P.B. and Foster, D.A., 2003, Shaping the Australian crust over the last 300 million years: Insights from fission track thermotectonic imaging and denudation studies of key terranes, Reply: *Australian Journal of Earth Science*, v. 50, p. 646-650.
93. Spaggiari, C.V., D.R. Gray, D.A. Foster, 2003, Tethyan- and Cordilleran-type ophiolites of eastern Australia: implications for the evolution of the Tasmanides. In: Dilek Y., Robinson P.T. (Eds), *Ophiolites in Earth's History*. Geological Society, London, Special Publications, 218, p. 517-539.
94. Spaggiari, C.V., D.R. Gray, and D.A. Foster, 2003, Formation and emplacement of the Dolodrook serpentinite body, Lachlan Orogen, Victoria. *Australian Journal of Earth Sciences*, v. 50, p. 709-723.
95. Spaggiari, C.V., D.R. Gray, D.A. Foster, and S. McKnight, 2003, Evolution of the boundary between the western and central Lachlan Orogen: implications for Tasmanide tectonics. *Australian Journal of Earth Sciences*, v. 50, p. 725-749.
96. Carter, T.J., B.P., Kohn, D.A. Foster, and A.J.W. Gleadow, 2004, How the Harcurar Mountains metamorphic core complex became cool: evidence from apatite (U-Th)/He thermochronometry: *Geology*, v. 32 p. 985-988, doi: 10.1130/G20936.1.
97. Crowhurst, P.V., R. Maas, K.C. Hill, D.A. Foster, and M. Fanning, 2004, Isotopic constraints on crustal architecture and Permo-Triassic tectonics in New Guinea; possible links with eastern Australia: *Australian Journal of Earth Science*, v. 51, p. 107-122.
98. Gray, D.R., and D.A. Foster, 2004, $^{40}\text{Ar}/^{39}\text{Ar}$ thermochronologic constraints on deformation, metamorphism and cooling/exhumation of a Mesozoic accretionary wedge, Otago Schist, New Zealand: *Tectonophysics*, v. 385, p. 181-210.
99. Gray, D.R., and D.A. Foster, 2004, Tasman Orogenic Belt. In D. Selley, R. Cocks, and I. Plimer (eds.) *Encyclopaedia of Geology*; Academic Press, Amsterdam, p. 237-251.
100. Gray, D.R., and D.A. Foster, 2004, Tectonic evolution of the Lachlan Orogen, southeast Australia: historical review, data synthesis and modern perspectives: *Australian Journal of Earth Sciences*, v. 51, p. 773-817.
101. Gray, D.R., J. McL. Miller, D.A. Foster, and R.T. Gregory, 2004, Transition from subduction- to exhumation-related fabrics in glaucophane-bearing eclogites, Oman: evidence from relative fabric chronology and $^{40}\text{Ar}/^{39}\text{Ar}$ ages: *Tectonophysics*, v. 389, p. 35-64.
102. John, B.E., D.A., Foster, J.M. Murphy, M.J. Cheadle, A.G. Baines, C.M. Fanning, and P. Copeland, 2004, Determining the cooling history of in-situ lower oceanic crust – Atlantis Bank, SW Indian Ridge: *Earth and Planetary Science Letters*, v. 222, p. 145-160.
103. Spaggiari, C.V., D.R. Gray, and D.A. Foster, 2004, Ophiolite accretion in the Lachlan Orogen, Southeastern Australia, *Journal of Structural Geology*, v. 26, p. 87-112.
104. Spaggiari, C.V., D. R. Gray, and D.A. Foster, 2004, Lachlan orogen subduction-accretion systematics revisited: *Australian Journal of Earth Sciences*, v. 51, p. 549-553.
105. Weber, U., K. Hill, R. Brown, K. Gallagher, B. Kohn, and D. Foster, 2004, Sediment supply to the Gippsland Basin from thermal history analysis: constraints on Emperor-Golden Beach reservoir composition: *The Australian Petroleum Exploration Association Journal*, v. 44, p. 397-416.

106. Bierlein, F.P., D.A. Foster, D.R. Gray, and G.J. Davidson, 2005, Timing of orogenic gold mineralization in northeastern Tasmania: implications for the tectonic and metallogenic evolution of Palaeozoic SE Australia: *Mineralium Deposita*, v. 39, p. 890-903; DOI 10.1007/s00126-004-0458-4.
107. Foster, D.A., D.R. Gray, C.V. Spaggiari, 2005, Timing of subduction and exhumation along the Cambrian East Gondwana margin, and the formation of Paleozoic backarc basins: *Geological Society of America Bulletin*, v. 117, p. 105-116; doi: 10.1130/B25481.1.
108. Goscombe, B., D. Gray, R. Armstrong, D.A. Foster, and J. Vogl, 2005, Event geochronology of the Pan-African Kaoko Belt, Namibia: *Precambrian Research*, v. 140, p. 103.e1-103.e41.
109. Carter, T.J., B.P. Kohn, D.A. Foster, A.J.W. Gleadow, and J.D. Woodhead, 2006, Late-stage evolution of the Chemehuevi and Sacramento detachment faults from apatite (U-Th)/He thermochronology – Evidence for mid-Miocene accelerated slip: *Geological Society of America Bulletin*, v. 118, p. 689-709; doi: 10.1130/B25736.1.
110. Foster, D.A., P.A. Mueller, D.W. Mogk, J.L. Wooden, and J.J. Vogl, 2006, Proterozoic evolution of the western margin of the Wyoming Craton: implications for the tectonic and magmatic evolution of the northern Rocky Mountains: *Canadian Journal of Earth Sciences*, v. 43, p. 1601-1619, doi: 10.1139/E06-052.
111. Gray, D.R., C.E. Willman, and D.A. Foster, 2006, Crust restoration for the western Lachlan Orogen using the strain-reversal, area-balancing technique: implications for crustal components and original thicknesses: *Australian Journal of Earth Sciences*, v. 53, p. 329-341, doi: 10.1080/08120090500499305.
112. Gray, D.R., D.A. Foster, B. Goscombe, C.W. Passchier, and R.A.J. Trouw, 2006,⁴⁰Ar/³⁹Ar thermochronology of the Pan-African Damara Orogen, Namibia with implications for tectonothermal and geodynamic evolution: *Precambrian Research*, v. 150, p. 49-72, doi:10.1016/j.precmres.2006.07.003.
113. Gray, D.R., D.A. Foster, R.J. Korsch, and C.V. Spaggiari, 2006, Structural style and crustal architecture of the Tasmanides of eastern Australia, example of a composite accretionary orogen, In Mazzoli, S., and Butler, B., eds., Styles of continental compression: *Geological Society of America Special Paper 414*, p. 119-232.
114. Opdyke, N.D., M. Hall, V. Mejia, K. Huang, and D.A. Foster, 2006, Time averaged field at the Equator: results from Ecuador: *Geochemistry, Geophysics, Geosystems*, v. 7, Q11005, doi: 10.1029/2005GC001221.
115. Spikings, R.A., D.A. Foster, and B.P. Kohn, 2006, The low-temperature (<110°C) thermal history of the Mt. Isa and Murphy Inliers, northeast Australia, evidence from apatite fission track thermochronology: *Australian Journal of Earth Science*, v. 53, p. 151-165, doi: 10.1080/08120090500434609.
116. Doughty, P.T., K.R. Chamberlain, D.A. Foster, and G. Sha, 2007, Structural, metamorphic and geochronological constraints on the origin of the Clearwater core complex, northern Idaho, In Sears, J.W., Harms, T., and Evenchick, C.A., eds., Whence the Mountains? Enquiries into the Evolution of Orogenic Systems: A Volume in Honor of Raymond Price: *Geological Society of America Special Paper 433*, p. 211-241, doi: 10.1130/2007.2433(11).
117. Foster, D.A., and D.R. Gray, 2007, Strain rate in Paleozoic thrust sheets, the western Lachlan Orogen, Australia: strain analysis and fabric geochronology, In Sears, J.W., Harms, T., and Evenchick, C.A., eds., Whence the Mountains? Enquiries into the Evolution of Orogenic

- Systems: A Volume in Honor of Raymond Price: *Geological Society of America Special Paper 433*, p. 349-368, doi: 10.1130/2007.2433(17).
118. Foster, D.A., P.T. Doughty, T.J. Kalakay, C.M Fanning, S. Coyner, W.C. Grice, and J.J. Vogl, 2007, Kinematics and timing of exhumation of Eocene metamorphic core complexes along the Lewis and Clark fault zone, northern Rocky Mountains, USA, *In* Till, A., Roeske, S., Sample, J., and Foster, D.A., eds., *Exhumation along major continental strike-slip systems: Geological Society of America Special Paper 434*, p. 205-229, doi: 10.1130/2007.2343(10).
 119. Gray, D.R., Foster, D.A., Maas, R., Spaggiari, C.V., Gregory, R.T., Goscombe, B.D., and Hoffmann, K.H., 2007, Continental growth and recycling by accretion of deformed turbidite fans and remnant ocean basins: examples from Neoproterozoic and Phanerozoic orogens, *In* Hatcher, R. D., JR., Carlson, M. P., McBride, J. H., and Martinez Catalan, J. R., (eds.) *The 4D Framework of Continental Crust: Geological Society of America Memoir 200*, p. 63-92, doi: 10.1130/2007.1200(05).
 120. Mueller, P.A., D.A. Foster, D.W. Mogk, J.L. Wooden, G.D. Kamenov, and J.J. Vogl, 2007, Detrital mineral chronology of the Unita Mountain Group: Implications for the origin of Mesoproterozoic detritus in southwestern Laurentia: *Geology*, v. 35, p. 431-434; doi:10.1130/G23148A.1.
 121. Foster, D.A., and D. R. Gray, 2008, Paleozoic crustal growth, structure, strain rate, and metallogeny in the Lachlan Orogen, Eastern Australia, *In* J.E. Spencer and S.R. Titley, eds., *Ores and Orogensis: Circum-Pacific Tectonics, Geological Evolution, and Ore Deposits: Arizona Geological Society Digest*, v. 22. P. 213-225.
 122. Gray, D.R., D.A. Foster, J.G. Meert, B.D. Goscombe, R. Armstrong, R.A.J. Trouw, and C.W. Passchier, 2008, A Damara Orogen perspective on the assembly of southwestern Gondwana, *In* R.J. Pankhurst, R.A.J Trouw, B.B. De Brito Neves, and M.J. De Wit, eds., *West Gondwana: Pre-Cenozoic Correlations Across South Atlantic Region*, Geological Society, London, Special Publication 294, p. 257-278, doi:10.1144/SP294.14.
 123. Offler, R., and D.A. Foster, 2008, Timing and development of oroclinal in the southern New England Fold Belt, Australia: *Australian Journal of Earth Sciences*, v. 55, p. 331-340, doi: 10.1080/08120090701769464.
 124. Arvizu, H.E., Iriondo, A., Izaguirre, A., Chávez-Cabello, G., Kamenov, G.D., Foster, D.A., Lozano-Santa Cruz, R., and Solís-Pichardo, G., 2009, Gneises bandeados paleoproterozoicos (~1.76-1.73 Ga) de la Zona Canteras-Puerto Peñasco: Una nueva ocurrencia de rocas de basamento tipo Yavapai en el NW de Sonora, México: *Boletín de la Sociedad Geológica Mexicana*, v. 61, no. 3, 375-402.
 125. Arvizu, H.E., Iriondo, A., Izaguirre, A., Chavez-Cabella, G., Kamenov, G.D., Solis-Pichardo, G. Foster, D.A., and Lozano-Santa Cruz, R., 2009, Rocas graníticas permicas en la Sierra Pinta en el NW de Sonora, Mexico: magmatismo de subduccion asociado al inicio del margen continental activo del SW de Norteamérica: *Revista Mexicana de Ciencias Geológicas*, v. 26, p. 709-728.
 126. Cina, S.E., A. Yin, M. Grove, C.S. Dubey, D.P. Shukla, O.M. Lovera, T.K. Kelty, G.E. Gehrels, D.A. Foster, 2009, Gangdese arc detritus within the eastern Himalayan Neogene foreland basin: implications for the Neogene evolution of the Yalu-Brahmaputra River system: *Earth and Planetary Science Letters*, v. 285, p. 150-162.

127. Foster, D.A., B.D. Goscombe, D.R. Gray, 2009, Rapid Exhumation of Deep Crust in an Obliquely Convergent Orogen: the Kaoko Belt of the Damara Orogen: *Tectonics* v. 28, TC4002, doi:10.1029/2008TC002317.
128. Foster, D.A., D.R. Gray, C. Spaggiari, G. Kamenov, and F. P. Bierlein, 2009, Palaeozoic Lachlan Orogen, Australia; accretion and construction of continental crust in a marginal ocean setting: isotopic evidence from Cambrian metavolcanic rocks. In P. A. Cawood, and A. Kroner, eds., *Earth Accretionary Systems in Space and Time*, Geological Society, London, Special Publications, 318, 329-349. doi: 10.1144/SP318.12.
129. Korsch, R.J., Adams, C.J., Black, L.P., Foster, D.A., Fraser, G.L., Murray, C.G., Foudoulis, C., and Griffin, W.L., 2009, Geochronology and provenance of the Late Paleozoic accretionary wedge and Gympie Terrane, New England Orogen, eastern Australia: *Australian Journal of Earth Science*, v. 56, p. 665-685, doi: 10.1080/08120090902825776.
130. Restrepo S.A., D.A. Foster, D.F. Stockli, and L.N. Parra, 2009, Long-term erosion and exhumation history of the Altiplano Antioqueno, Northern Andes (Columbia) from apatite (U-Th)/He thermochronology: *Earth and Planetary Science Letters*, v. 278, p. 1-12 doi:10.1016/j.epsl.2008.09.037
131. Turner, S., P. Haines, D. Foster, R. Powell, M. Sandiford, R. Offler, 2009, Did the Delameran Orogeny start in the Neoproterozoic?: *Journal of Geology*, v. 117, p. 575-583, doi: 10.1086/600866.
132. Foster, D.A., W.C. Grice, and T.J. Kalakay, 2010, Extension of the Anaconda metamorphic core complex: $^{40}\text{Ar}/^{39}\text{Ar}$ thermochronology with implications for Eocene tectonics of the northern Rocky Mountains and the Boulder batholith: *Lithosphere* v. 2 p. 232-246, doi: 10.1130/L94.1.
133. Herman, F., P. Copeland, J-P Avouac, L. Bollinger, G. Maheo, P. Le Fort, S. Rai, D.A. Foster, A. Pecher, K. Stuwe, and P. Henry, 2010, Exhumation, crustal deformation and thermal structure of the Nepal Himalaya derived from the inversion of thermochronological and thermobarometric data and modelling of the topography: *Journal of Geophysical Research*, v. 115, B06407, doi: 10.1029/2008JB006126.
134. Opdyke, N.D., D.V. Kent, K. Huang, D.A. Foster, and J.P. Patel, 2010, Equatorial paleomagnetic time-averaged field results from 0-5 Ma lavas from Kenya and the latitudinal variation of angular dispersion: *Geochemistry, Geophysics and Geosystems*, v. 11, Q05005, doi: 10.1029/2009GC002863.
135. Gasser, D., E. Bruand, K. Stuwe, D.A. Foster, R. Schuster, B. Fungenschuh, and T. Pavlis, 2011, Formation of a metamorphic complex along an obliquely convergent margin: structural and thermochronological evolution of the Chugach metamorphic complex, southern Alaska: *Tectonics*, doi:10.1029/2010TC002776.
136. Mueller, P.A., J.L. Wooden, D.W. Mogk, and D.A. Foster, 2011, Paleozoic evolution of the Farmington zone: implications for terrane accretion in southwestern Laurentia: *Lithosphere*, v. 3, p. 401-408, doi: 10.1130/L161.1.
137. Ehret, D.J., B.J. MacFadden, D.S. Jones, T.J., DeVries, D.A. Foster, and R. Salas-Gismondi, 2012, Origin of the white shark, Carcharodon (Lamniformes: Lamnidae), based on recalibration of the late Neogene, Pisco Formation of Peru: *Palaeontology*, v. 55, p. 1139-1153.
138. Foster, D.A., P.A. Mueller, A. Heatherington, J.N. Gifford and T.J. Kalakay, 2012, Lu-Hf systematics of magmatic zircons reveal a Proterozoic crustal boundary under the Cretaceous Pioneer batholith, Montana: *Lithos*, v. 142-143, p. 216-225, doi:

- 10.1016/j.lithos.2012.03.005.
139. Marsellos, A.E., D.A. Foster, G.D. Kamenov, and K. Kyriakopoulos, 2012, Detrital zircon U-Pb data from the Hellenic south Aegean belts: constraints on the age and source of the South Aegean basement: *Journal of the Virtual Explorer*, v. 42, paper 3 (8 pages).
 140. Vogl, J.J., D.A. Foster C.M. Fanning, K.A. Kent, D.A. Rogers, and T. Diedesch, 2012, Timing of extension in the Pioneer metamorphic core complex with implications for the spatial-temporal pattern of Cenozoic extension and exhumation in the northern U.S. Cordillera: *Tectonics*, v. 31, TC1008, 22 pp., doi: 10.1029/2011TC002981.
 141. Diez Fernandez, R., Foster, D.A., Barreiro, J.G., Alonso-Garcia, M., 2013, Rheological control on the tectonic evolution of a continental suture zone: the Variscan example from NW Iberia (Spain): *International Journal of Earth Science (Geol Rundsch)*, v. 102, p. 1305-1319, doi: 10.1007/s00531-013-0885-5.
 142. Foster, D.A., and Goscombe, B.D., 2013, Continental Growth and Recycling in Convergent Orogens with Large Turbidite Fans on Oceanic Crust: *Geosciences*, v. 3, 354-388; doi:10.3390/geosciences3030354.
 143. Marsellos, A.E., Foster, D.A., Kidd, W.S.F., Min, K., Garver, J., Kyriakopoulos, K., 2013, An application of GIS analysis on structural data from metamorphic rocks in Santorini Island: *Hellenic Geological Society*, v. 2013, p. 1-10.
 144. Raehee, H., Min, K., Ree, J-H., Foster, D.A., 2013, Extensional deformation along the southern boundary of the Gyeonggi Massif, South Korea: structural characteristics, age constraints and tectonic implication: *International Journal of Earth Sciences (Geol Rundsch)*, doi 10.1007/s00531-013-0985-2.
 145. Diez Fernandez, R., Francisco Pereira, M., and Foster, D.A., 2014, Peralkaline and alkaline magmatism of the Ossa-Morena zone (SW Iberia): age, source, and implications for the Paleozoic evolution of Gondwanan lithosphere: *Lithosphere*, v. 7. p. 73-90, doi:10.1130/L379.1.
 146. Foster, D.A., Mueller, P.A., Goscombe, B.D., and Gray, D.R., 2014, Accreted turbidite fans and remnant ocean basins in Phanerozoic orogens: A template for a significant Precambrian crustal growth and recycling process: in Y. Dilek and H. Furnes, eds. *Evolution of Archean Crust and Early Life*, Springer, New York, 289-328.
 147. Gifford, J.N., Mueller, P.A., Foster, D.A., and Mogk, D.W., 2014, Precambrian crustal evolution in the Great Falls tectonic zone: insights from xenoliths from the Montana Alkali Province: *Journal of Geology*, v. 122, p. 531-548.
 148. Kalakay, T.J. Foster, D.A., Lonn, J.D., 2014, Polyphase collapse of the Cordilleran hinterland: The Anaconda metamorphic core complex of western Montana – The Snoke Symposium Field Trip: in Shaw, C.A., and Tickoff, B., eds. *Exploring the Northern Rocky Mountains: Geological Society of America Field Trip Guide 37*, p. 145-159, doi:10.1130/2014.0037(07).
 149. MacFadden, B.J., Bloch, J.I., Evans, H., Foster, D.A., Morgan, G.S., Rincon, A., and Wood, A.R., 2014, Temporal calibration and biochronology of the Centerario Fauna, Early Miocene of Panama: *Journal of Geology*, v. 122, p. 113-135, doi: 10.1086/675244.
 150. Marsellos, A.E., Min, K., and Foster, D.A., 2014, Rapid exhumation of high-pressure metamorphic rocks in Kythera-Peloponeese (Greece) revealed by apatite (U-Th)/He thermochronology; *Journal of Geology*, v. 122, p. 381-396, doi:10.1086/675908.
 151. Mueller, P.A., Heatherington, A.L., Foster, D.A., Thomas, W.A., and Wooden, J.L., 2014, The Suwannee Suture: Significance for Gondwana-Laurentia Terrane Transfer and

- Formation of Pangaea: *Gondwana Research*, v. 26, p. 365-373, doi: 10.1016/j.gr.2013.06.018.
152. Mueller, P.A., Mogk, D.W., Henry, D.J., Wooden, J.L., and Foster, D.A., 2014, The plume to plate transition: Hadean and Archean evolution of the northern Wyoming Province, U.S.A.: in Y. Dilek and H. Furnes, eds. *Evolution of Archean Crust and Early Life*, Springer, New York, p. 23-54.
 153. Vogl, J.J., Min, K., Carmenate, A., Foster, D.A., and Marsellos, A., 2014, Miocene regional hotspot-related uplift, exhumation, and extension north of the Snake River Plain: evidence from apatite (U-Th)/He thermochronology: *Lithosphere*, v. 6, p. 108-123, doi: 10.1130/L308.1.
 154. Dias da Silva, I., Diez Fernandez, R., Diez-Montes, A., Gonzalez Clavijo, E. and Foster, D.A., 2015, Magmatic evolution in the N-Gondwana margin related to the opening of the Rheic Ocean – evidence from the upper parautochthon of the Galicia-Tras-os-Montes zone and from the central Iberian zone (NW Iberian Massif): *International Journal of Earth Sciences*, doi: 10.1007/s00531-015-1232-9.
 155. Foster, D.A., Goscombe, B.D., Newstead, B., Mapani, B., Mueller, P.A., and Gregory, L., Muvangua, E., 2015, U-Pb age and Lu-Hf isotopic data of detrital zircons from Neoproterozoic Damara sequence: implications for pre-Gondwana proximity of Congo and Kalahari. *Gondwana Research*, v. 28, p. 179-190, <http://dx.doi.org/10.1016/j.gr.2014.04.011>.
 156. Hongsresawat, S. Panning, M.P., Russo, R.M., Foster, D.A., Monteiller, V., and Chevrot, S., 2015, USArray shear wave splitting shows seismic anisotropy from both lithosphere and asthenosphere: *Geology*, v. 43, p. 667-670, doi:10.1130/G36610.1.
 157. Opdyke, N.D., Kent, D.V., Foster, D.A., Huang, K., 2015, Paleomagnetism of Miocene volcanics on Sao Tome: Paleosecular variations at the Equator and a comparison to its latitudinal dependence over the past 5 Myr.: *G-Cubed* DOI: 10.1002/2015GC005901
 158. Bloch, J.I., Wood, A.R., Rincon, A.F., Woodruff, E.D., Harrington, A.R., MacFadden, B.J., Morgan, G.S., Foster, D.A., Montes, C., Jaramilo, C.A., Jud, N.A., and Jones, D.S., 2016, First North American fossil monkey and early Miocene tropical biotic interchange: *Nature*, v. 533, p. 243- 246, doi:10.1038/nature17415.
 159. Foster, D.A., 2016, AUSTRALIA / Tasman Orogenic Belt: *Reference Module in Earth Systems and Environmental Sciences*, Elsevier, doi: 10.1016/B978-0-12-409548-9.09705-0.
 160. Ma, C., Bergeron, P., Foster, D.A., Dutrow, B.L., Mueller, P.A., Allen, C., 2016, Detrital zircon geochronology of the Sawtooth metamorphic complex, Idaho: evidence for metamorphosed lower Paleozoic shelf strata within the Idaho Batholith: *Geosphere*, v. 12, p. 1136-1153, doi: 10.1130/GES01201.1.
 161. Ramirez, D.A., Foster, D.A., Min, K., Montes, C., Cordona, A., Sadove, G., 2016, Exhumation of the Panama basement complex and basins: implications for the closure of the Central American Seaway: *Geochemistry, Geophysics, Geosystems*, 17, 1758–1777, doi:10.1002/2016GC006289.
 162. Stanciu, A.C., Russo, R.M., Mocanu, V.I., Bremner, P.M., Hongsresawat, S., Torpey, M.E., VanDecar, J.C., Foster, D.A., Hole, J.A., 2016, Crustal structure beneath the Blue Mountains terranes and cratonic North America, Eastern Oregon and Idaho, from teleseismic receiver functions: *Journal of Geophysical Research Solid Earth*, 121, doi:10.1002/2016JB012989.
 163. Villasenor-Jorquera, T., Jaeger, J.M., and Foster, D.A., 2016, Linking alpine glacial erosion

- and continental margin sedimentation: Late Pleistocene sediment-routing system, Canterbury Basin, New Zealand: *Earth and Planetary Science Letters*, v. 433, p. 303-316.
164. Wang, C., Liang, X., Foster, D.A., Fu, J., Jiang, Y., Zhou, Y., Wen, S., and Quynh, P.V., 2016, Detrital zircon U-Pb geochronology, Lu-Hf isotopes and REE geochemistry constraints on crustal growth and Paleozoic tectonics of Indochina Block: *Tectonophysics*, v. 677-678, p. 125-134.
 165. Wang, C., Liang, X., Foster, D.A., Xie, Y., Tong, C., Pei, J., Fu, J., Jiang, Y., Dong, C., Zhou, Y., and Wen, S., 2016, Zircon U-Pb geochronology and heavy mineral composition constraints on the provenance of the middle Miocene deep-water reservoir sedimentary rocks in the Yinggehai-Song Hon Basin, South China Sea: *Marine and Petroleum Geology*, 77, 819-834, [dx.doi.org/10.1016/j.marpetgeo.2016.05.009](https://doi.org/10.1016/j.marpetgeo.2016.05.009).
 166. Farris, D.W., Cardona, A., Montes, C., Foster, D., Jaramillo, C., 2017, Magmatic evolution of Panama Canal volcanic rocks: a record of arc processes and tectonic change: *PLOS ONE*, 12(5), <https://doi.org/10.1371/journal.pone.0176010>.
 167. Goscombe, B., Foster, D.A., Gray, D., Wade, B., Marsellos, A., and Titus, J., 2017, Focus Paper: Deformation correlations, stress field switches and evolution of an orogenic intersection: the Pan-African Kaoko-Damara orogenic junction, Namibia: *Geoscience Frontiers*, 8, 1187-1232, <http://dx.doi.org/10.1016/j.gsf.2017.05.001>.
 168. Goscombe, B., Foster, D.A., Gray, D., Wade, B., 2017, GR Focus Review: Metamorphic response and crustal architecture in a classic collisional orogen: The Damara Belt, Namibia: *Gondwana Research*, 52, 80-124, <http://dx.doi.org/10.1016/j.gr.2017.07.006>.
 169. Link, P.K., Autenrieth-Durk, K.M., Cameron, A., Fanning, C.M., Vogl, J.J., Foster, D.A., 2017, U-Pb zircon ages of the Wildhorse gneiss, Pioneer Mountains, south-central Idaho and tectonic implications: *Geosphere*, 13, 681-698, doi:10.1130/GES01418.1
 170. Ma, C., Foster, D. A., Mueller, P. A., and Dutrow, B. L., 2017, Magma-facilitated transpressional strain partitioning within the Sawtooth metamorphic complex, Idaho: A zone accommodating Cretaceous orogen-parallel translation in the Idaho batholith: *Tectonics*, 36, doi:10.1002/2016TC004264.
 171. Verbaas, J., Thorkelson, D.J., Crowley, J., Davis, W.J., Foster, D.A., Gibson, H.D., Marshall, D.D., and Milidragovic, D., 2017 A sedimentary overlap assemblage links Australia to northwestern Laurentia at 1.6 Ga: *Precambrian Research*, 305, 19-39, doi.org/10.1016/j.precamres.2017.10.001.
 172. Boone, S.C., Seiler, C., Kohn, B.P., Gleadow, A.J.W., Foster, D.A., and Chung, L., 2018 Influence of rift superposition on lithospheric response to East African Rift System extension: Lapur Range, Turkana, Kenya: *Tectonics*, 37, DOI: 10.1002/2017TC004575
 173. Boone, S.C., Kohn, B.P., Gleadow, A.J.W., Morley, C.K., Seiler, C., Foster, D.A., Chung, L., 2018, Tectono-thermal evolution of a long-lived segment of the East African Rift System: Thermochronological insights from the North Lokichar Basin, Turkana, Kenya: *Tectonophysics*, 744, 23-46, <https://doi.org/10.1016/j.tecto.2018.06.010>
 174. Gifford, J.N., Mueller, P.A., Foster, D.A., Mogk, D.W., 2018, Extending the realm of Archean crust in the Great Falls tectonic zone: Evidence from the Little Rocky Mountains, Montana: *Precambrian Research*, 315, 264-281, <https://doi.org/10.1016/j.precamres.2018.07.021>.
 175. Goscombe, B., Foster, D.A., Gray, D., Wade, B., 2018, Evolution of the Damara Orogenic System: A record of West Gondwana assembly and crustal response. In: *Geology of Southwest Gondwana, Regional Geology Reviews*, Springer International Publishing,

- https://doi.org/10.1007/978-3-319-68920-3_12.
176. Goscombe, B., Gray, D., Foster, D.A., 2018, Metamorphic response to collision in the Central Himalayan Orogen: *Gondwana Research*, 57, 191-265, DOI.org/10.1016/j.gr.2018.02.002.
 177. Londono, L., Royer, D.L., Jaramillo, C., Escobar, J., Foster, D.A., Cardenas-Rozo, A.L., and Wood, A., 2018, Early Miocene CO₂ estimates from a Neotropical fossil leaf assemblage exceed 400 ppm: *American Journal of Botany*, v. 105, p. 1929-1937, doi:10.1002/ajb2.1187.
 178. Spencer, J., Singleton, J., Strickland, E., Reynolds, S., Love, D., Foster, D., and Johnson, R., 2018, Geodynamics of Cenozoic extension along a transect across the Colorado River extensional corridor, southwestern USA: *Lithosphere*, v. 10, p. 743-759, <https://doi.org/10.1130/L1002.1>.
 179. Wang, Ce., Liang, X., Foster, D.A., Liang, X. Tong, C. and Liu, P., 2018, Detrital zircon ages: a key to unraveling provenance variations in the eastern Yinggehai-Song Hong Basin, South China Sea: *AAPG Bulletin*, DOI:10.1306/11211817270.
 180. Barbosa-Espitia, A.A., Kamenov, G.D., Foster, D.A., Restrepo-Moreno, S.A., Pardo-Trujillo, A., 2019, Contemporaneous Paleogene arc-magmatism within continental and accreted oceanic arc complexes in the northwestern Andes and Panama: *Lithos*, v. 348-349, <https://doi.org/10.1016/j.lithos.2019.105185>.
 181. Boone, S., Kohn, B., Gleadow, A., Morley, C., Seiler, C., Foster, D., 2019, Birth of the East African Rift System: Eocene nucleation of magmatism and strain in the Turkana Depression: *Geology*, v. 47, p. 886-890, <https://doi.org/10.1130/G46468.1>.
 182. Bremner, P.M., Panning, M.P., Russo, R.M., Mocanu, V., Stanciu, A.C., Torpey, M., Hongsreswat, S., VanDecar, J.C., and Foster, D.A., 2019, Crustal shear wave velocity structure of Central Idaho and Eastern Oregon from ambient seismic noise: results from the IDOR project: *Journal of Geophysical Research*, 124, 1601-1625, <https://doi.org/10.1029/2018JB016350>.
 183. Foster, D.A., 2019, Fission track thermochronology in structural geology and tectonic studies (Chapter 11): in Malusa, M.G., and Fitzgerald, P.G., eds., *Fission track Thermochronology and its Application to Geology*, Springer International Publishing, p. 211-220, https://doi.org/10.1007/978-3-319-89421-8_11.
 184. Goscombe, B., Foster, D.A., Blewett, R., Czarnota, K., Wade, B., Groenewald, B., and Gray, D., 2019, Neoproterozoic metamorphic evolution of the Yilgarn Craton: a record of subduction, accretion, extension, and lithospheric delamination: *Precambrian Research*, v. 355, <https://doi.org/10.1016/j.precamres.2019.105441>.
 185. Ma, C., Foster, D.A., Hames, W.E., Mueller, P.A., and Steltenpohl, 2019, From the Alleghanian to the Atlantic: Extensional collapse of the southernmost Appalachian orogen: *Geology*, 47, 367-370, <https://doi.org/10.1130/G46073.1>.
 186. Restrepo-Monero, S.A., Foster, D.A., Bernet, M., Min, K., and Noriega, S., 2019, Morphotectonic and Orogenic Development of the Northern Andes of Colombia: A low-temperature thermochronology perspective (Chapter 11): in Cedié, F., and Shaw, R.P., editors: *Geology and Tectonics of Northwestern South America*, Frontiers in Earth Sciences, Springer Nature, Cham, Switzerland, p. 749-831, https://doi.org/10.1007/978-3-319-76132-9_11.
 187. Wang, C., Liang, X., Foster, D.A., Liang, X., Zhang, L., and Su, M., 2019, Provenance and drainage evolution of the Red River revealed by Pb isotopic analysis of detrital K-feldspar:

- Geophysical Research Letters*, <https://doi.org/10.1029/2019GL083000>.
188. Zhang, W., Min, K. Bryan, S.E., Foster, D.A., Allen, C., and Kerrison, A., 2019, Multiple post-depositional thermal events in the Drummond Basin, Australia: evidence from apatite and zircon (U-Th/He) thermochronology: *Tectonophysics*, v. 767, 128146, <https://doi.org/10.1016/j.tecto.2019.06.016>
 189. Goscombe, B., Foster, D.A., Gray, D., and Wade, B., 2020, Assembly of central Gondwana along the Zambezi Belt: metamorphic response and basement reactivation during the Kuunga Orogeny: *Gondwana Research*, v. 80, p. 410-465, <https://doi.org/10.1016/j.gr.2019.11.004>.
 190. Goscombe, B., Foster, D.A., Gray, D., Kelsey, D., and Wade, B. 2020, Metamorphic response within different subduction-obduction settings preserved on the NE Arabian margin: *Gondwana Research*, v. 83, p. 298-371, <https://doi.org/10.1016/j.gr.2020.02.002>
 191. Kepezhinskias, N., Kamenov, G.D., Foster, D.A., and Kepezhinskias, P., 2020, Petrology and geochemistry of alkaline basalts and gabbroic xenoliths from Utila Island (Bay Islands, Honduras): Insights into back-arc processes in the Central American volcanic arc: *Lithos*, p. 352-353, 105441, <https://doi.org/10.1016/j.lithos.2019.105306>
 192. Lageson, D.R., Kalakay, T.J., and Foster, D.A., 2020, Mountain building: The orogenic evolution of Montana, in Metesh, J.J., and Vuke, S.M., eds., *Geology of Montana—Geologic History: Montana Bureau of Mines and Geology Special Publication 122*, v. 1, available at <https://mbmg.mtech.edu/pdf/geologyvolume/Lageson.pdf>. (published 08/2022)
 193. Osorio-Granada, E., Pardo-Trujillo, A., Restrepo-Moreno, S.A., Gallego, F., Munoz, J., Plata, A., Trejos-Tamayo, R., Vallejo, F., Barbosa-Espitia, A., Cardona-Sanchez, F.J., Foster, D.A., and Kamenov, G., 2020, Provenance of Eocene-Oligocene sediments in the San Jacinto fold belt: Paleogeographic and geodynamic implications for the northern Andes and the southern Caribbean: *Geosphere*, v. 16, p. 210-228, <https://doi.org/10.1130/GES02059.1>.
 194. Ma, C., Foster, D.A., Mueller, P.A., Dutrow, B.L., and Marsh, J., 2020, Mesozoic crustal melting and metamorphism in the U.S. Cordilleran hinterland: Insights from the Sawtooth metamorphic complex, central Idaho: *Geological Society of America Bulletin*, <https://doi.org/10.1130/B35837.1>.
 195. Ochoa, D., Salas-Gismondi, R., DeVries, T.J., Baby, P., de Muizon, C., Altamirano, A., Barbosa-Espitia, A., Foster, D.A., Quispe, K., Cardich, J., Gutierrez, D., Perez, A., Valqui, J., Urbina, M., and Carré, M., 2021, Late Neogene evolution of the Peruvian margin and its ecosystems: synthesis of the Sacaco record: *International Journal of Earth Sciences*, v. 110, p. 995-1025, <https://doi.org/10.1007/s00531-021-02003-1>
 196. Goscombe, B., Foster, D.A., Kelsey, D., Wade, B., Gray, D., Mulrooney, L., Jiang, P., Haseler, M., and Marsellos, A., 2022, Episodic intra-continental reactivation during collapse of a collisional orogen: The Damara Belt, Namibia: *Gondwana Research*, v. 109, p. 285-375, doi: <https://doi.org/10.1016/j.gr.2022.05.003>
 197. Gray, K.D., Foster, D.A., Johnson, K., Isakson, V.H., 2022, Rotational tectonics of the Oregon-Idaho-Montana Cordillera: *Tectonophysics*, v. 833, 229293, <https://doi.org/10.1016/j.tecto.2022.229293>
 198. Ochoa, D., DeVries, T.J., Quispe, K., Barbosa-Espitia, A., Salas-Gismondi, R., Foster, D.A., Gonzales, R., Revillon, S., Berrospi, R., Pairazaman, L., Cardich, J., Perez, A., Romero, P., Urbina, M., and Carré, M., 2022, Age and provenance of the Mio-Pleistocene sediments from the Sacaco area, Peruvian continental margin: *Journal South American Earth Sciences*,

- v. 116, 103799, <https://doi.org/10.1016/j.jsames.2022.103799>
199. Jiang, P., Perfit, M.P., Foster, D.A., and Trucco, A., 2022, Accurate analyses of key petrogenetic minor and trace elements in olivine by electron microprobe: *Chemical Geology*, v. 614, 121199, doi.org/10.1016/j.chemgeol.2022.121199.
 200. Botero-Garcia, M., Vinasco, C.J., Restrepo-Moreno, S.A., Foster, D.A., and Kamenov, G.D., 2023, Caribbean–South America interactions since the Late Cretaceous: insights from zircon U-Pb and Lu-Hf isotopic data in sedimentary sequences of the northwestern Andes: *Journal of South American Earth Sciences*, 123, 104231, <https://doi.org/10.1016/j.jsames.2023.104231>.
 201. Foster, D.A., Ma, C., Goscombe, B.D., and Mueller, P.A., 2023, Extensional Collapse of Orogens: a review and example from the Southern Appalachian Orogen: In Catlos, E.J. and Cemen, I., eds., *Compressional Tectonics: Plate Convergence to Mountain Building – Volume 1, Geophysical Monograph 277*, American Geophysical Union, John Wiley & Sons, Inc., N.Y., p. 301-319, doi:10.102/9781119773856.ch12.
 202. Ma, C., Hames, W.E., Foster, D.A., Xiao, W., Mueller, P.A., and Steltenpohl, M.G., 2023, Transformation of eastern North America from compression to extension in the Permian-Triassic: In: Whitmeyer, S.J., Williams, M.L., Kellett, D.A., and Tikoff, B., eds., *Laurentia: Turning Points in the Evolution of a Continent*, Geological Society of America Memoir 220, p. 1-16, [https://doi.org/10.1130/2022.1220\(28\)](https://doi.org/10.1130/2022.1220(28)).
 203. Salas-Gismondi, R., Ochoa, D., Gamarra, J., Pujos, F., Foster, D.A., Tejada, J.V., 2023, Pliocene pre-GABI herbivorous mammals from Espinar, Peruvian Andean Plateau: *The Journal of Vertebrate Paleontology*, doi.org/10.1080/02724634.2023.2237079.
 204. Wang, C., Foster, D.A., Su, M., Lei, Y., Zeng, L., and Cui, H., 2023, Holocene provenance evolution of the northern South China Sea inferred from detrital zircon U-Pb geochronology and Hf isotopes: *Global and Planetary Change*, 228, 104207, doi.org/10.1016/j.gloplacha.2023.104207.
 205. Gray, K., Johnson, K., Foster, D., and Isakson, V., 2024, Jura-Cretaceous synorogenic magmatism and relations to supercontinent rifting in the northwestern US Cordillera: *Geological Society of America Bulletin*, 136, 3735-3768.
 206. Goscombe, B., Foster, D.A., Wade, B., Schwartz, J.J., and Jeffcoat, R., 2024, Tectonic evolution of Macquarie Island: oceanic crust, metamorphism, new-type of core complex and transpression: *Gondwana Research*, 131, 115-180, doi.org/10.1016/j.gr.2024.02.004.
 207. Vallejo-Hincapie, F., Pardo-Trujillo, A., Barbosa-Espitia, A., Aguirre, D., Celis, S.A., Giraldo-Villegas, C.A., Plata-Torres, A., Trejos-Tamayo, R., Salazar-Ríos, A., Flores, J.A., Aubry, M-P., Gallego, F., Delgadillo, E. and Foster, D., 2024, Miocene vanishing of the Central American Seaway between the Panama Arc and the South American Plate: *Geological Society of America Bulletin*, doi.org/10.1130/B37499.1.
 208. Wang, C., Wei, L., Chaing, C-S, Foster, D.A., Cui, H., and Su, M., 2024, Linking Taiwan Island to the Cathaysia Block during the Cenozoic: Evidence from Pb isotopes in detrital K-feldspar: *Global and Planetary Change*, 239, 104508, doi.org/10.1016/j.gloplacha.2024.104508.
 209. Zeng, L., Wang, C., Foster, D.A., Su, M., Cui, H., and Jia, J., 2024, Controls on sediment transport from rivers to trenches in passive and active continental margins: *Science China Earth Sciences*, 67, 3868-3880, doi.org/10.1007/s11430-024-1435-0.
 210. Barbosa-Espitia, A.A., Pardo-Trujillo, A., and Foster, D.A., 2025, Provenance of Lower Eocene strata of the San Jacinto Fold Belt (Columbian Caribbean): paleogeographic, and

- magmatic implications: *Boletín de Geología*, 47, 13-38, doi.org/10.18273/revbol.v47n3-2025001.
211. Ochoa, D., Carré, M., Montenegro, J.-F., DeVries, T.J., Caballero-Rodríguez, D., Rodríguez-Reyes, O., Barbosa-Espitia, A., Cardich, J., Cruz-Acevedo, E., Cruz, D., Foster, D.A., LaTorre-Acuy, M., Quispe, F., Rivera-Chira, M., Romero, P.E., Salas-Gismondi, R., Urbina, M., and Flores, J.-A., 2025, Late Miocene greening of the Peruvian Desert: *Nature Communications Earth and Environment*, 6, 391, doi.org/10.1038/s43247-025-02322-0.
212. Zacharias, Q., Rioux, R., Sun, F., Wyatt, T., Pihap, E., Nyavor, E., Foster, D.A., Warren, J.L., Bradford, M.A., Raymond, P., Planavsky, N., and Saiers, J., 2026, Spatiotemporal soil fertility responses to an enhanced weathering deployment within a temperate, agricultural watershed: *Nutrient Cycling in Agroecosystems*, 132, 25 doi.org/10.1007/s10705-026-10476-2.

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