Stanford



Elizabeth Miller

Professor of Earth and Planetary Sciences, Emerita

Earth & Planetary Sciences

Bio

ACADEMIC APPOINTMENTS

- Emeritus Faculty, Acad Council, Earth & Planetary Sciences

HONORS AND AWARDS

- Annual excellence in teaching award, School of Earth, Energy and Environment, Stanford (2021)
- Career Contribution Award, Structural Geology and Tectonics Division of the Geological Society of America (2018)
- Fellow, Geological Society of America (1985)
- Outstanding Graduate Student Award, Houston Geological Society (1977)
- Outstanding Senior in Geology Award, Franklin and Marshall College (1973)
- Continental Oil Fellowship, Rieber Award, Conoco Oil Grant (1975-1976)

BOARDS, ADVISORY COMMITTEES, PROFESSIONAL ORGANIZATIONS

- Member and individual transect co-chief, Circum-Arctic Lithosphere Evolution (CALE) (2010 - 2018)
- Keynote speaker, Nevada Geological Society (2019 - present)
- Member, Advisory Board, Thinking Matters Courses, Stanford University (2018 - present)
- Session Chair Chapman Conference on Arctic Magmatism, American Geophysical Union (2019 - 2019)
- pre-major Advisor, Stanford University (2016 - 2018)
- Instructor Advanced Research in the Field: Senior capstone course in Geological Sciences, Stanford University (2017 - 2017)
- co-leader, Raft Geologic Expedition, Alatna River, Brooks Range, Alaska, Stanford University (2016 - 2016)
- co-leader, Raft Geological Expedition, John River, Brooks Range Alaska, Stanford University (2013 - 2013)
- Co-Convenor Arctic Session, American Geophysical Union (2013)
- Invited Session Chair AAPG 3P Arctic Meeting, Stavanger Norway, American Association of Petroleum Geologists (2013)
- Expedition leader, Brooks Range, Arctic Alaska, Stanford University (2013)
- Invited Chapman Speaker on the Arctic, University Alaska Fairbanks (2013)
- U.S. Participant, Expedition to Chukotka, North East Arctic Russia, Stanford University (2011)
- Co-convener, American Geophysical Union Session, American Geophysical Union (2010)
- U.S. Participant, Expedition to Polar Urals, Arctic Russia, Stanford University (2009)
- U.S. Participant, Expedition to Lena Delta, Arctic Russia, Stanford University (2008)
- Chief U.S. Geologist, Geological Expedition to Wrangel Island, Russia, Stanford University (2006)

PROFESSIONAL EDUCATION

- Post-Doctoctoral Scholar, Lamont-Doherty Geological Observatory , Marine Geology and Geophysics (1978)
- Ph.D., Rice University , Geology and Geophysics (1977)
- M.A., Rice University , Geology and Geophysics (1976)
- B.A., Franklin and Marshall College , Geology (1973)

LINKS

- Structural Geology and Tectonics: https://tectonics.stanford.edu/

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

Research

The structural geology and tectonics research group addresses topical problems in structural geology, regional geology and tectonics, and how rocks deform--at the atomic to the plate tectonic scale. The goals of our research are to contribute to our basic knowledge of deformation at the lithospheric scale, how deformation at depth is coupled to that at the surface, and to better understand the driving forces for this deformation. We utilize a variety of approaches, both traditional and innovative. Our work is field-based, involving an important component of geologic mapping in addition to structural and microstructural analysis, stratigraphic and sedimentologic studies, metamorphic and igneous petrology, cross-section balancing, modeling and geophysical data. Timing and rates of deformational events, based on geochronologic and thermochronologic data sets, are key to our research.

Teaching

I teach mostly at the upper undergraduate level with courses in field geology, structural geology and tectonics, and thin section petrography. At the graduate level, I organize topical seminars in tectonics and regional geology, field-based research projects and trips, and teach advanced classes in rock microstructures and deformation.

Professional Activities

Participant/Leader Expedition to Brooks Range, Arctic Alaska; U.S. Participant, Expedition to Chukotka, North East Arctic Russia, 2011; U.S. Participant, Expedition to Polar Urals, Arctic Russia, 2009; U.S. Participant, Expedition to Lena Delta, Arctic Russia, 2008; Invited Chair, Session on Lithosphere of the Western U.S., NSF EarthScope Biennial Conference, 2009; Keynote Speaker, GSA Penrose Conference on the Origins of the Amerasian Basin of the Arctic, 2009; Chief U.S. Geologist, Geological Expedition to Wrangel Island, Russia, 2006; Geologist expedition to Yana River, 2008, Polar Urals, 2009, Chukotka, Arctic Russia, 2011.

PROJECTS

- Circum Arctic Lithosphere Evolution - Stockholm University and Stanford University
- Structural architecture and evolution of the southern flank of the Brooks Range fold and thrust belt, Arctic Alaska - NSF Stanford University with Stockholm University, Sweden (7/31/2017 - 7/31/2020)
- Development of Eurasian Geothermalchronological Scientific Education Center - Kazan Federal University
- Evolution of the Boundary Canyon Fault, Funeral Mountains, Death Valley - Stanford University (2018 - present)
- Exploring for fault-hosted geothermal systems using low temperature thermochronology and thermo-kinematic modeling: a pilot study on the Kigluaik normal fault near Nome, Alaska - TomKat Center for Sustainable Energy Stanford University (2019 - 2022)

Teaching

COURSES

2023-24

- EPS Field Trips: EPS 291 (Aut)
- Introduction to Field Methods: EPS 105, EPS 405 (Aut)

Publications

PUBLICATIONS

- **Detrital zircon signatures of the southern Brooks Range: Implications for the Paleozoic assembly of Arctic Alaska and the Mesozoic opening of the Amerasia Basin** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Craig, J. W., Miller, E. L., Cottle, J. M., Kylander-Clark, A. R. C.
  2025
- **The Mount Distin assemblage: Neoproterozoic metasedimentary rocks in the Nome Complex of Seward Peninsula, Alaska, USA** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Miller, E. L., Hudson, T. L., Amato, J. M.
  2025; 137 (1-2): 241-258
- **Evolution of Aptian and Albian magmatism of Western and Northern Chukotka (Northeast Russia) based on zircon U-Pb geochronology and rock geochemistry** *INTERNATIONAL GEOLOGY REVIEW*
  Tikhomirov, P. L., Luchitskaya, M. V., Prokofiev, V., Akinin, V. V., Miller, E. L., Isaeva, E. P., Palechek, T. N., Starikova, E. V., Boldyreva, A. I., Wiegand, B.
  2023
- **Episodicity and the dance of late Mesozoic magmatism and deformation along the northern circum-Pacific margin: north-eastern Russia to the Cordillera** *EARTH-SCIENCE REVIEWS*
  Akinin, V. V., Miller, E. L., Toro, J., Prokopiev, A., Gottlieb, E. S., Pearcey, S., Polzunenkov, G. O., Trunilina, V. A.
  2020; 208
- **GRANITES OF THE NORTHERN TIMAN - PROBABLE INDICATORS OF NEOPROTEROZOIC STAGES OF RODINIA BREAKUP** *GEODYNAMICS & TECTONOPHYSICS*
  Andreichev, V. L., Soboleva, A. A., Udoratina, O., Ronkin, Y. L., Coble, M. A., Miller, E. L.
  2020; 11 (2): 201–18
- **Greenschist Facies Metamorphic Zircon Overgrowths as a Constraint on Exhumation of the Brooks Range Metamorphic Core, Alaska** *TECTONICS*
  Hoiland, C. W., Miller, E. L., Pease, V.
  2018; 37 (10): 3429–55
- **Provenance, U-Pb detrital zircon geochronology, Hf isotopic analyses, and Cr-spinel geochemistry of the northeast Yukon-Koyukuk Basin: Implications for interior basin development and sedimentation in Alaska** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  O'brien, T. M., Miller, E. L., Pease, V., Hayden, L. A., Fisher, C. M., Hourigan, J. K., Vervoort, J. D.
  2018; 130 (5-6): 825–47
- **Detrital zircon U-Pb geochronology and Hf isotope geochemistry of metasedimentary strata in the southern Brooks Range: constraints on Neoproterozoic-Cretaceous evolution of Arctic Alaska** *CIRCUM-ARCTIC LITHOSPHERE EVOLUTION*
  Hoiland, C. W., Miller, E. L., Pease, V., Hourigan, J. K.
  edited by Pease, Coakley, B.
  2018; 460: 121–58
- **U-Pb zircon geochronology of Cretaceous arc magmatism in eastern Chukotka, NE Russia, with implications for Pacific plate subduction and the opening of the Amerasia Basin** *CIRCUM-ARCTIC LITHOSPHERE EVOLUTION*
  Pease, V., Miller, E., Wyld, S. J., Sokolov, S., Akinin, V., Wright, J. E.
  edited by Pease, Coakley, B.
  2018; 460: 159–82

- **Neoproterozoic basement history of Wrangel Island and Arctic Chukotka: Integrated insights from zircon U–Pb, O, and Hf isotopic studies** *GSL Special Publications: Circum-Arctic Lithosphere Evolution*
  Gottlieb, E. S., Pease, V., Miller, E. L., Akinin, V. V.
  2017; 460

- **Circum-Arctic Lithosphere Evolution (CALE) Transect C: displacement of the Arctic Alaska–Chukotka microplate towards the Pacific during opening of the Amerasia Basin of the Arctic** *Geological Society London Special Publication: Circum Arctic Lithosphere Evolution*
  Miller, E., et al
  2017

- **Deformational history and thermochronology of Wrangel Island, East Siberian shelf, and coastal Chukotka, Arctic Russia** *GSL Special Publications: Circum-Arctic Lithosphere Evolution*
  Miller, E. L., Akinin, V. V., Dumitru, T. A., Gottlieb, E. S., Grove, M. J., Meisling, K. E., Seward, G.
  2017; 460

- **DREDGE SAMPLES FROM THE CHUKCHI BORDERLAND: IMPLICATIONS FOR PALEOGEOGRAPHIC RECONSTRUCTION AND TECTONIC EVOLUTION OF THE AMERASIA BASIN OF THE ARCTIC** *AMERICAN JOURNAL OF SCIENCE*
  O'Brien, T. M., Miller, E. L., Benowitz, J. P., Meisling, K. E., Dumitru, T. A.
  2016; 316 (9): 873-924

- **Mesozoic orogens of the Arctic from Novaya Zemlya to Alaska** *JOURNAL OF THE GEOLOGICAL SOCIETY*
  Toro, J., Miller, E. L., PROKOPIEV, A. V., Zhang, X., Veselovskiy, R.
  2016; 173 (6): 989-1006

- **Cenozoic paleogeographic evolution of the Elko Basin and surrounding region, northeast Nevada** *GEOSPHERE*
  Snee, J. L., Miller, E. L., Grove, M., Hourigan, J. K., Konstantinou, A.
  2016; 12 (2): 464-500

- **Evidence for a long-lived accommodation/transfer zone beneath the Snake River Plain: A possible influence on Neogene magmatism?** *TECTONICS*
  Konstantinou, A., Miller, E.
  2015; 34 (12): 2387-2398

- **Proterozoic supercontinental restorations: Constraints from provenance studies of Mesoproterozoic to Cambrian clastic rocks, eastern Siberian Craton** *PRECAMBRIAN RESEARCH*
  Khudoley, A., Chamberlain, K., Ershova, V., Sears, J., Prokopiev, A., Maclean, J., Kazakova, G., Malyshev, S., Molchanov, A., Kullerud, K., Toro, J., Miller, E., Veselovskiy, et al
  2015; 259: 78-94

- **First bedrock samples dredged from submarine outcrops in the Chukchi Borderland, Arctic Ocean** *GEOSPHERE*
  Brumley, K., Miller, E. L., Konstantinou, A., Grove, M., Meisling, K. E., Mayer, L. A.
  2015; 11 (1): 76-92

- **Closing the Canada Basin: Detrital zircon geochronology relationships between the North Slope of Arctic Alaska and the Franklinian mobile belt of Arctic Canada** *GEOSPHERE*
  Gottlieb, E. S., Meisling, K. E., Miller, E. L., Mull, C. G.
  2014; 10 (6): 1366-1384

- **Continuous zircon growth during long-lived granulite facies metamorphism: a microtextural, U-Pb, Lu-Hf and trace element study of Caledonian rocks from the Arctic** *CONTRIBUTIONS TO MINERALOGY AND PETROLOGY*
  O'Brien, T. M., Miller, E. L.
  2014; 168 (4)

- **The U-Pb age dating of detrital zircons from Upper Jurassic-Lower Cretaceous deposits of Stolbovoy Island (New Siberian Islands)** *STRATIGRAPHY AND GEOLOGICAL CORRELATION*
  Soloviev, A. V., Miller, E. L.
  2014; 22 (5): 507-517

- **Geochemistry and geochronology of the Jim Sage volcanic suite, southern Idaho: Implications for Snake River Plain magmatism and its role in the history of Basin and Range extension** *GEOSPHERE*
  Konstantinou, A., Valley, J., Strickland, A., Miller, E. L., Fisher, C., Vervoort, J., Wooden, J.

2013; 9 (6): 1681-1703

- **Early Carboniferous paleogeography of the northern Verkhoyansk passive margin as derived from U-Pb dating of detrital zircons: role of erosion products of the Central Asian and Taimyr-Severnaya Zemlya fold belts** *RUSSIAN GEOLOGY AND GEOPHYSICS*
  Prokopiev, A. V., Ershova, V. B., Miller, E. L., Khudoley, A. K.
  2013; 54 (10): 1195-1204

- **Synextensional magmatism leading to crustal flow in the Albion-Raft River-Grouse Creek metamorphic core complex, northeastern Basin and Range** *TECTONICS*
  Konstantinou, A., Strickland, A., Miller, E., Vervoort, J., Fisher, C. M., Wooden, J., Valley, J.
  2013; 32 (5): 1384-1403

- **First U-Pb datings of detrital zircons from middle and upper paleozoic sandstones of the Polar Urals: Testing the regional tectonic models** *DOKLADY EARTH SCIENCES*
  Kuznetsov, N. B., Soboleva, A. A., Miller, E. L., Udoratina, O. V., Gehrels, G., Romanyuk, T. V.
  2013; 451 (1): 692-697

- **Triassic river systems and the paleo-Pacific margin of northwestern Pangea** *GONDWANA RESEARCH*
  Miller, E. L., Soloviev, A. V., Prokopiev, A. V., Toro, J., Harris, D., Kuzmichev, A. B., Gehrels, G. E.
  2013; 23 (4): 1631-1645

- **Cretaceous lower crust of the continental margins of the northern pacific: Petrological and geochronological data on lower to middle crustal xenoliths** *PETROLOGY*
  Akinin, V. V., Andronikov, A. V., Mukasa, S. B., Miller, E. L.
  2013; 21 (1): 28-65

- **Multistage Cenozoic extension of the Albion-Raft River-Grouse Creek metamorphic core complex: Geochronologic and stratigraphic constraints** *GEOSPHERE*
  Konstantinou, A., Strickland, A., Miller, E. L., Wooden, J. P.
  2012; 8 (6): 1429-1466

- **Comment on "Geodynamics of synconvergent extension and tectonic mode switching: Constraints from the Sevier-Laramide orogen" by Michael L. Wells et al.** *TECTONICS*
  Miller, E. L., Konstantinou, A., Strickland, A.
  2012; 31

- **First Results of U-Pb Dating of Detrital Zircons from Basal Horizons of Uralides (Polar Urals)** *DOKLADY EARTH SCIENCES*
  Soboleva, A. A., Kuznetsov, N. B., Miller, E. L., Udoratina, O. V., Gehrels, G., Romanyuk, T. V.
  2012; 445 (2): 962-968

- **Age Constraints for the Pre- Uralide-Timanide Orogenic Event Inferred from the Study of Detrital Zircons** *DOKLADY EARTH SCIENCES*
  Orlov, S. Y., Kuznetsov, N. B., Miller, E. L., Soboleva, A. A., Udoratina, O. V.
  2011; 440 (1): 1216-1221

- **Baltica in the Cordillera?** *GEOLOGY*
  Miller, E. L., Kuznetsov, N., Soboleva, A., Udoratina, O., Grove, M. J., Gehrels, G.
  2011; 39 (8): 791-794

- **First results of U/Pb dating of detrital zircons from Early Paleozoic and Devonian sandstones of the Baltic-Ladoga region (south Ladoga Area)** *DOKLADY EARTH SCIENCES*
  Kuznetsov, N. B., Orlov, S. Y., Miller, E. L., Shazillo, A. V., Dronov, A. V., Soboleva, A. A., Udoratina, O. V., Gehrels, G.
  2011; 438 (2): 759-765

- **Evolution of the northwestern margin of the Basin and Range: The geology and extensional history of the Warner Range and environs, northeastern California** *GEOSPHERE*
  Egger, A. E., Miller, E. L.
  2011; 7 (3): 756-773

- **Evolution of Calc-Alkaline Magmas of the Okhotsk-Chukotka Volcanic Belt** *PETROLOGY*
  Akinin, V. V., Miller, E. L.
  2011; 19 (3): 237-277

- **The Timing of Tertiary Metamorphism and Deformation in the Albion-Raft River-Grouse Creek Metamorphic Core Complex, Utah and Idaho** *JOURNAL OF GEOLOGY*
  Strickland, A., Miller, E. L., Wooden, J. L.
  2011; 119 (2): 185-206

- **Syn-extensional crustal melting and plutonism in the Albion-Raft River-Grouse Creek metamorphic core complex** *Journal of Geology*
  Strickland, A., Miller, E. L., Wooden, J.
  2011; 119,: 185-206

- **Regional magnetic domains of the Circum-Arctic: a framework for geodynamic interpretation** *33rd International Geological Congress (IGC)*
  Saltus, R. W., Miller, E. L., Gaina, C., Brown, P. J.
  GEOLOGICAL SOC PUBLISHING HOUSE.2011

- **Sahwave Batholith, NW Nevada: Cretaceous arc flare-up in a basinal terrane** *LITHOSPHERE*
  Van Buer, N. J., Miller, E. L.
  2010; 2 (6): 423-446

- **Structural assemblies and age of deformation in the western sector of the Anyui-Chukotka Fold System, Northeastern Asia** *GEOTECTONICS*
  Katkov, S. M., Miller, E. L., TORO, J.
  2010; 44 (5): 424-442

- **The northwestern margin of the Basin-and-Range Province, part 1: Reflection profiling of the moderate-angle (similar to 30 degrees) Surprise Valley Fault** *TECTONOPHYSICS*
  Lerch, D. W., Klemperer, S. L., Egger, A. E., Colgan, J. P., Miller, E. L.
  2010; 488 (1-4): 143-149

- **Stratigraphy and U-Pb detrital zircon geochronology of Wrangel Island, Russia: Implications for Arctic paleogeography** *AAPG BULLETIN*
  Miller, E. L., Gehrels, G. E., Pease, V., Sokolov, S.
  2010; 94 (5): 665-692

- **Late Proterozoic-Paleozoic evolution of the Arctic Alaska-Chukotka terrane based on U-Pb igneous and detrital zircon ages: Implications for Neoproterozoic paleogeographic reconstructions** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Amato, J. M., Toro, J., Miller, E. L., Gehrels, G. E., Farmer, G. L., Gottlieb, E. S., Till, A. B.
  2009; 121 (9-10): 1219-1235

- **U-Pb SHRIMP ages of granitoides from the main batholith belt (North East Asia)** *DOKLADY EARTH SCIENCES*
  Akinin, V. V., Prokopiev, A. V., Toro, J., Miller, E. L., Wooden, J., Goryachev, N. A., ALSHEVSKY, A. V., Bakharev, A. G., Trunilina, V. A.
  2009; 426 (1): 605-610

- **Early Tertiary paleogeologic map of the northern Sierra Nevada batholith and the northwestern Basin and Range** *GEOLOGY*
  Van Buer, N. J., Miller, E. L., Dumitru, T. A.
  2009; 37 (4): 371-374

- **Geology, Geophysics and Tectonics of Northeastern Russia** *Stephan Mueller Special Publication Series 4*
  edited by Stone, D. B., Layer, P., Miller, E. L., Toro, J.
  European Geophysical Union.2009

- **Middle Paleozoic-Mesozoic boundary of the North Asian craton and the Okhotsk terrane: new geochemical and geochronological data and their geodynamic interpretation** *Geology, Geophysics and Tectonics of Northeastern Russia: A Tribute to Leonid Parfenov*
  Prokopiev, A. V., Toro, J., Hourigan, J. K., Bakharev, A. C., Miller, E. L.
  European Geosciences Union. 2009: 71–84

- **Petrology and Geochronology of Crustal Xenoliths from the Bering Strait Region** *Crustal cross-sections from the western North America Cordillera and elsewhere: Implications for tectonic and petrologic processes*
  Akinin, V. V., Miller, E. L., Wooden, J.
  edited by Miller, R. B., Snoke, A. W.
  Geological Society of America.2009: 39–68

- **Structural studies near Pevek Russia: Implications for formation of the East Siberian Shelf and Makarov Basin of the Arctic Ocean** *Geology, Geophysics and Tectonics of Northeastern Russia: A Tribute to L. Parfenov*

Miller, E. L., Verzhbitsky, V.
edited by Stone et al.
European Geophysical Union.2009: 223–241

- **Geochronology and thermochronology of Cretaceous plutons and metamorphic country rocks, Anyui-Chukotka Fold Belt, North East Arctic Russia** *Geology, Geophysics and Tectonics of Northeastern Russia: A Tribute to Leonid Parfenov,*
  Miller, E. L., Katkov, S., Strickland, A., Toro, J., Akinin, V. V., Dumitru, T. A.
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  European Geophysical Union.2009: 157–175

- **Geochronology and thermochronology of Cretaceous plutons and metamorphic country rocks, Anyui-Chukotka Fold Belt, North East Arctic Russia** *Geology, Geophysics and Tectonics of Northeastern Russia: A Tribute to Leonid Parfenov,*
  Miller, E. L., Katkov, S., Strickland, A., Toro, J., Akinin, V. V., Dumitru, T. A.
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  European Geophysical Union.2009: 157–175

- **Nature of the crust beneath northwest Basin and Range province from teleseismic receiver function data** *JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH*
  Gashawbeza, E. M., Klemperer, S. L., Wilson, C. K., Miller, E. L.
  2008; 113 (B10)

- **The paleo-Lena River - 200 m.y. of transcontinental zircon transport in Siberia** *GEOLOGY*
  Prokopiev, A. V., Toro, J., Miller, E. L., Gehrels, G. E.
  2008; 36 (9): 699-702

- **Tectonic and magmatic evolution of the northwestern Basin and Range and its transition to unextended volcanic plateaus: Black Rock Range, Nevada** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Lerch, D. W., Miller, E., McWilliams, M., Colgan, J.
  2008; 120 (3-4): 300-311

- **Jurassic and Cretaceous foreland basin deposits of the Russian Arctic: Separated by birth of the Makarov Basin?** *NORWEGIAN JOURNAL OF GEOLOGY*
  Miller, E. L., Soloviev, A., Kuzmichev, A., Gehrels, G., Toro, J., Tuchkova, M.
  2008; 88 (4): 201-226

- **Geology of the Bering Shelf Region of Alaska-Russia: Implications for extensional processes in continental crust** *Ores and Orogenesis: Circum-Pacific Tectonics, Geologic Evolution and Ore Deposits*
  Miller, E. L., Akinin, V. V.
  edited by Spencer, J. E., Titley, R.
  Arizona Geological Society.2008: 203–212

- **Age of granite batholiths in the Anyui-Chukotka foldbelt** *DOKLADY EARTH SCIENCES*
  Katkov, S. M., Strickland, A., Miller, E. L., TORO, J.
  2007; 414 (4): 515-518

- **Crustal structure of the northwestern Basin and Range Province and its transition to unextended volcanic plateaus** *GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS*
  Lerch, D. W., Glen, J. M., Ponce, D. A., Miller, E. L., Colgan, J. P.
  2007; 8

- **The Ust-;Lena metamorphic complex (northeast Asia): First U-Pb SHRIMP geochronologic data** *Otechestvennaya geologiya*
  Prokopiev, A. V., Toro, J., Smelov, A. P., Miller, E. L., Wooden, J., Grakhanov, S. A., Oleinikov, O. B.
  2007: 26-30

- **Granitoids of the Main batholith belt (NE Asia) New U-Pb SHRIMP geochronological and geochemical data** *Leonid Parfenov Memorial Conference*
  Prokopiev, A. V., Toro, J., Miller, E. L., Wooden, J., Truniline, V. A., Bakharev, A. G.
  edited by Khanchuk, A. I.
  2007: 286–88

- **Provenance of Paleozoic to Mesozoic siliciclastic sequences of the Verkhoyansk continental margin based on U-Pb ages of detrital zircon suites** *Leonid Parfenov Memorial Conference*
  Prokopiev, A. V., Toro, J., Miller, E. L.
  edited by Gehrels, G. E., Khanchuk, A. I.
  2007: 283–86

- **Late Cretaceous to Paleocene metamorphism and magmatism in the Funeral Mountains metamorphic core complex, Death Valley, CA** *Convergent Margin Terranes and Associated Regions: A volume in honor of W. G. Ernst*
  Mattinson, C. G., Colgan, J. P., Metcalf, J. R., Miller, E. L., Wooden, J. L.
  edited by Cloos, M., Carlson, W. D., Gilbert, M. C., Liou, J. G., Sorenson, S. S.
  Geological Society of America.2007: 205–223

- **Digital Geologic map of Great Basin National Park and Vicinity, Nevada (NPS, GRD,GRE, GRBA)** *Stanford Geological Survey Maps*
  Miller, E.L., E. L., Stanford Geological , S.
  Stanford Geological Survey.2007

- **The Uvyazka paleorift zone (northeast Asia): first U-Pb SHRIMP geochronologic data** *Otechestvennaya geologiya*
  Prokopiev, A. V., Toro, J., Bakharev, A. G., Miller, E. L., Wooden, J., Surnin, A. A.
  2007: 30-33

- **Cenozoic tectonic evolution of the basin and range province in northwestern Nevada** *AMERICAN JOURNAL OF SCIENCE*
  Colgan, J. P., Dumitru, T. A., Reiners, P. W., Wooden, J. L., Miller, E. L.
  2006; 306 (8): 616-654

- **New insights into Arctic paleogeography and tectonics from U-Pb detrital zircon geochronology** *TECTONICS*
  Miller, E. L., Toro, J., Gehrels, G., Amato, J. M., Prokopiev, A., Tuchkova, M. I., Akinin, V. V., Dumitru, T. A., Moore, T. E., Cecile, M. P.
  2006; 25 (3)

- **Timing of Cenozoic volcanism and Basin and Range extension in northwestern Nevada: New constraints from the northern Pine Forest Range** *GEOLOGICAL SOCIETY OF AMERICA BULLETIN*
  Colgan, J. P., Dumitru, T. A., McWilliams, M., Miller, E. L.
  2006; 118 (1-2): 126-139

- **Detrital zircon ages from Late Jurassic-Early Cretaceous Myrgovaam Basin sandstones (Rauchua Trough), western Chukotka, NE Russia** *Orign of Northeastern Russia*
  Miller, E. L., Toro, J., Gehrels, G., Tuchkova, M., Katkov, S.
  edited by Stone, D. B.
  University of Alaska, Fairbanks, AK.2006

- **New data on age of Okhotsk-Chukotka volcanic belt (U-Pb SHRIMP dating)** *Isotopic dating of processes of ore formation, magmatism, sedimentation, and metamorphism*
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