DONALD J. DEPAOLO
Professor, Earth and Planetary Sciences Department, University of California, Berkeley
Director, Earth Sciences Division, Lawrence Berkeley National Laboratory
Director, Center for Isotope Geochemistry
307 McCone Hall, Berkeley CA 94720-4767
Tel 510/643-5064 •
depaolo@eps.berkeley.edu or djdepaolo@lbl.gov

Education

B.S. with Honors (Geology), SUNY Binghamton, 1973
Ph.D. (Geology, minor in Chemistry), California Institute of Technology, 1978

Positions Held

University of California, Los Angeles: Assistant Professor of Geology and Geochemistry, 1978-81; Associate Professor, 1981-1983; Professor, 1983-1988
University of California, Berkeley: Professor of Geochemistry, 1988- ; Chair, Department of Geology and Geophysics. 1990-93; **Class of 1951 Professor of Geochemistry, 1998-**
Lawrence Berkeley National Laboratory, Earth Sciences Division: Faculty Scientist, 1988- ; Geochemistry Department Head, 1998-2006; **Director, Earth Sciences Division, 2007-**
Director, Center for Isotope Geochemistry, UC Berkeley & LBNL, 1988-

Awards and Fellowships

F.W. Clarke Medal, Geochemical Society, 1978; J.B. MacElwane Award, American Geophysical Union, 1983; Fellow, American Geophysical Union, 1983; Mineralogical Society of America Award, 1987; Fellow, Mineralogical Society of America, 1987; Fellow, California Academy of Sciences, 1992; Member, National Academy of Sciences, 1993; Fellow, American Academy of Arts and Sciences, 1994; Fulbright Senior Scholar, Australia National University, 1994-95; Miller Research Professor, U.C. Berkeley, 1997-98; Geochemistry Fellow, Geochemical Soc. and EAG, 1997; Fellow, Geological Soc. America, 1997; Arthur L. Day Medal, Geol. Soc. America, 1999; John Simon Guggenheim Fellow, 2000-2001; Harold Urey Medal, European Association of Geochemistry, 2000

Professional Service

Current: DOE/Basic Energy Sciences/BESAC subcommittee on New Era of Science (2008); NRC Committee on Grand Research Questions in Earth Science, Chair (2005-08) NSF Continental Dynamics Panel, EAR (2003- 2008); Science Advisory Comm. SAFOD, 2004-2008; Day Medal Committee, GSA (2007-10); Board of Directors, Berkeley Geochronology Center (2002-); CIDER Steering Committee (2005-2008)

Past: National Research Council: Committee Advisory to the USGS, 1982-86; Comm. on Physics and Chemistry of Earth Materials, 1986-87; Board on Earth Sciences, 1987-88; Geodynamics Comm., 1987-91; Board on Earth Sciences and Resources 1988-94 (Exec. Comm. 1990-94); Commission on Environmental Science, 1996-97; Committee on Building an Effective EMSP, 1996; Comm. on Future Roles of the USGS, Chair, 1998-2000

American Geophysical Union: Fellows Committee, 1984-86, 1993-95; (VGP Section) 1993-95; H.H. Hess Award Comm., Chair, 1984-85, 1996-98; MacElwane Award Comm. , 1984-86; Secretary, VGP Section, 1986-88; Program Comm. ,1986-88; GRL Directions & Rev. Comm., Chair, 1995-96

University Earth Science Dept. Visiting/Review Committees: MIT Earth, Atmospheric, and Planetary Sciences Dept. 1989-98; Harvard Dept. Earth and Planetary Sci., 1990-95, Chair 1992-95; U. Hawaii School of Ocean and Earth Science and Tech., 1992; Purdue Dept. of Earth and Atmospheric Sci., 1993, Chair, 1998; U. Michigan Dept. Geological Sci., 1995; U.C. Santa Barbara Dept. Geological Sciences, 1997; U. Minnesota Dept. Geol. Sciences, Chair, 1997; Caltech Div. Geological and Planetary Sci., 2001-; Inst. Earth Sciences, Taiwan Academy of Sciences, Chair 2001, 2003; U. Oklahoma, 2004.

Editorial: Associate Ed., *J.Geophys. Res.*, 1985-87; Associate Ed., *Isotope Geoscience*, 1983-1987; Assistant Ed., *J. Petrology*, 1986-1992; Guest Assoc. Ed., *J. Geophys. Res.*, 1995-96; Guest Ed., *Geochem., Geophysics, Geosystems*, 2001-2004; Ed. Board, *Geochim. Cosmochim. Acta,* 1997-99

Department of Energy: Physical Sci. Advisory Comm., LLNL, 1993-95; Env. Programs Advisory Comm., LLNL, 1995-2006; Geochem. Panel, EMSP, 1997; Earth Sciences Council, BES/Geosciences Program, 1996-2007 (Chair 2000-2007); Co-chair, BES Workshop on Basic Research Needs in Geoscience (2006-07);
National Science Foundation: DOSECC Science Advisory Comm., 1985-86; Petrology and Geochemistry Panel, EAR, 1996-98; MARGINS Program Review, OCE, 2004
Other: F.W. Clarke Medal Comm. (Geochemical Society), 1984-86 (Chair, 1985-86); Councilor, Geochemical Society, 1986-88; Donath Medal Comm. (GSA) 1989-92; MSA Award Comm., 1995-96; Arthur L Day Prize Comm. (NAS), 1998; Urey Award Comm., EAG, 2001

Research Interests

Application of mass spectrometry, isotope geochemistry, and principles of physics and chemistry to fundamental problems in geology and geochemistry. Origin and evolution of the Earth's continental crust, lithosphere and mantle. Petrogenesis and geochronology of igneous, metamorphic, and sedimentary rocks. Geochemical methods in environmental and climate change science.

Long Term Collaborators

F. M. Richter, University of Chicago
E. M. Stolper, California Institute of Technology
D. M. Thomas, University of Hawaii
B.M. Kennedy, Lawrence Berkeley Nat. Lab.
M.E. Conrad, Lawrence Berkeley Nat. Lab.
J.N. Christensen, Lawrence Berkeley Nat. Lab.
F.J. Ryerson, Lawrence Livermore National Lab.

Graduate Advisor

G. J. Wasserburg, 1973-1978, California Institute of Technology

Students Advised (1978 to 2009; UC Berkeley and UCLA)

G. Lang Farmer (Ph.D)
Brian Marshall (Ph.D)
Bruce Nelson (Ph.D)
Vickie Bennett (Ph.D)
John Christensen (Ph.D)
Brian Stewart (Ph.D)
Rosemary Capo (Ph.D)
Eric Wendlandt (Ph.D)
Anne Linn (Ph.D)
Ellen Daley (Ph.D)
Frank Perry (Ph.D)
Daniel Schrag (Ph.D)
Ken Sims (Ph.D)
Thomas Johnson (Ph.D)
John Lassiter (Ph.D)
Sean McCauley (Ph.D)
Joseph Skulan (Ph.D)
Allen Dodson (Ph.D)
Melissa Hendricks (Ph.D)
Ethan Baxter (Ph.D)
Lisa Hammersley (Ph.D)
Matthew Fantle (Ph.D)
Maureen Feineman (Ph.D)
Kate Maher (Ph.D)
Sarah Aciego (Ph.D)
Karrie Weaver (Ph.D)
Victoria Lee (Ph. D)
James Watkins (Ph.D)
Brook Peterson (Ph.D)
Jennifer Druhan (Ph.D)
Laura Nielsen

Steven Semken (MS)
Hyunchae Cynn (MS)
Don Musselwhite (MS)
Megan Smith (MS)

Postdocs Supervised

Scott Borg
Chang-Hwa Chen
Nicola Swinburne
Stephen Getty
Jo Lin
Julia Bryce
Michael Singleton
Garrett Hart
Sasha Turchyn
Justin Simon
Ste Stephanie Ewing

Grants and Contracts Received (1978-2009)

Approximately $24M from NSF, DOE, ACS, NASA, and other sources

ISI Citation Analysis as of October 2008:

Total publications (articles and reviews) in database: 160
Total Citations: 11,800 h-Index: 55

Publications in refereed journals

1. DePaolo, D.J. and G.J. Wasserburg, Nd isotopic variations and petrogenetic models: Geophys. Res. Lett. 3, 249-252 (1976)
2. DePaolo, D.J. and G.J. Wasserburg, Inferences about magma sources and mantle structure from variations of $^{143}Nd/^{144}Nd$: Geophys. Res. Lett. 3, 743-746 (1976)
3. DePaolo, D.J. and G.J. Wasserburg, The sources of island arcs as indicated by Nd and Sr isotopic studies: Geophys. Res. Lett. 4, 465-468 (1977)
4. Papanastassiou, D.A., D.J. DePaolo, and G.J. Wasserburg, Rb-Sr and Sm-Nd chronology and genealogy of mare basalts from the Sea of Tranquility: Proc. Lunar Sci. Conf. 8th, 1639-1672 (1977)
5. Wasserburg, G.J., F. Radicati di Brozolo, D.A. Papanastassiou, M.T. McCulloch, J.C. Huneke, R.F. Dymek, D.J. DePaolo, A.A. Chodos, and A.L. Albee, Petrology, chemistry, age and irradiation history of Luna 24: in Mare Crisium: The View from Luna 24, R.B. Merrill and J.J. Papike, eds., Pergamon Press, New York, p. 657-678 (1978)
6. DePaolo, D.J. and G.J. Wasserburg, Petrogenetic mixing models and Nd-Sr isotopic patterns: Geochim. Cosmochim. Acta. 43, 615-627 (1979)
7. DePaolo, D.J., Implications of correlated Nd and Sr isotopic variations for the chemical evolution of the crust and mantle: Earth Planet. Sci. Lett. 43, 201-211 (1979)
8. DePaolo, D.J., Estimation of the depth of origin of basic magmas: a modified thermodynamic approach and a comparison with experimental melting studies: Contrib. Mineral. Petrol. 69, 265-278 (1979)
9. DePaolo, D.J. and G.J. Wasserburg, Sm-Nd age of the Stillwater Complex and the mantle evolution curve for neodymium: Geochim. Cosmochim. Acta. 43, 999-1008 (1979)
10. DePaolo, D.J. and G.J. Wasserburg, Nd isotopes in flood basalts from the Siberian platform and inferences about their mantle sources: Proc. Nat. Acad. Sci. 76, 3056-3060 (1979)
11. Wasserburg, G.J. and D.J. DePaolo, Models of earth structure inferred from Nd and Sr isotopic abundances: Proc. Nat. Acad. Sci. 76, 3594-3598 (1979)
12. DePaolo, D.J. and R.W. Johnson, Magma genesis in the New Britain island arc: Constraints from neodymium and strontium isotopes and trace element patterns: Contrib. Mineral. Petrol. 70, 367-379 (1979)
13. DePaolo, D.J., Crustal growth and mantle evolution: Inferences from models of element transport and Nd and Sr isotopes: Geochim. Cosmochim. Acta 44, 1185-1196 (1980)
14. DePaolo, D.J., Sources of continental crust: Neodymium isotope evidence from the Sierra Nevada and Peninsular Ranges: Science 209, 684-687 (1980)
15. DePaolo, D.J., Trace element and isotopic effects of combined wallrock assimilation and fractional crystallization: Earth Planet. Sci. Lett. 53, 189-202 (1981)
16. DePaolo, D.J., Nd isotopic studies: Some new perspectives on earth structure and evolution: EOS 62, 137-140 (1981)
17. DePaolo, D.J., Nd isotopes in the Colorado Front Range and crust-mantle evolution in the Proterozoic: Nature 291, 193-196 (1981)
18. DePaolo, D.J., A neodymium and strontium isotopic study of the Mesozoic calc-alkaline granitic batholiths of the Sierra Nevada and Peninsular Ranges, California: J. Geophys. Res. 86, 10470-10488 (1981)
19. Wasserburg, G.J., S.B. Jacobsen, D.J. DePaolo, M.T. McCulloch and T. Wen, Precise determination of Sm/Nd ratios, Sm and Nd isotopic abundances in standard solutions: Geochim. Cosmochim. Acta 45, 2311-2323 (1981)
20. DePaolo, D.J., Radiogenic isotopes and crustal evolution: in Evolution of the Earth: Geodynamics Series, Vol. 5, R.J. O'Connell and W.S. Fyfe, eds., American Geophysical Union, p. 59-68 (1981)
21. DePaolo, D.J., W.I. Manton, E.S. Grew, and M. Halpern, Sm-Nd, Rb-Sr and U-Th-Pb systematics of granulite facies rocks from Fyfe Hills, Enderby Land, Antarctica: Nature 298, 614-618 (1982)
22. Marshall, B.D. and D.J. DePaolo, Precise age determinations and petrogenetic studies using K-Ca isotopes: Geochim. Cosmochim. Acta 46, 2537-2546 (1982)
23. DePaolo, D.J., Comment on 'Columbia River volcanism: the question of mantle heterogeneity or crustal contamination' by R.W. Carlson, G.W. Lugmair and J.D. Macdougall: Geochim. Cosmochim. Acta 47, 841-844 (1983)
24. Farmer, G.L. and D.J. DePaolo, Origin of Mesozoic and Tertiary Granite in the Western U. S. and Implications for Pre-Mesozoic Crustal Structure. 1. Nd and Sr Isotopic Studies in the Geocline of the Northern Great Basin: J. Geophys. Res. 88, 3379-3401 (1983)
25. DePaolo, D.J., The mean life of continents: Estimates of continental recycling rates from Nd and Hf isotopic data and implications for mantle structure: Geophys. Res. Lett. 10, 705-708 (1983)

26. DePaolo, D.J., F.T. Kyte, B.D. Marshall, J.R. O'Neil and J. Smit, Rb-Sr, Sm-Nd, K-Ca,O, and H isotopic study of Cretaceous-Tertiary boundary sediments, Caravaca, Spain: Evidence for an oceanic impact site: Earth Planet. Sci. Lett. 64, 356-373 (1983)
27. DePaolo, D.J., Geochemical evolution of the crust and mantle: Rev. Geophys. and Space Phys. 21, 1347-1358 (1983)
28. Farmer, G.L. and D.J. DePaolo, Origin of Mesozoic and Tertiary granite in the western U. S. and implications for pre-Mesozoic crustal structure. 2. Nd and Sr isotopic studies unmineralized and Cu- and Mo-mineralized granite in the Precambrian craton: J. Geophys. Res. 89, 10141-10160 (1984)
29. DePaolo, D.J. and G.L. Farmer, Isotopic data bearing on the origin of Mesozoic and Tertiary granitic rocks in the western United States: Phil. Trans. Royal Soc. Lond. A 310, 743-754 (1984)
30. DePaolo, D.J. , REPLY: The mean life of continents: Estimates of continent recycling rates from Nd and Hf isotopic data and implications for mantle structure: Geophys. Res. Lett. 11, 154-155 (1984)
31. Nelson, B.K. and D.J. DePaolo, Origin of 1700 Myr greenstone successions in southwestern North America and the isotopic evolution of Proterozoic mantle: Nature 311, 143-146 (1984)
32. DePaolo, D.J. and Ingram, B.L., High resolution stratigraphy with Strontium isotopes: Science 227, 938-941 (1985)
33. Nelson, B.K. and DePaolo, D.J., Rapid production of continental crust 1.7-1.9 b.y. ago: Nd and Sr isotopic evidence from the basement of the North American midcontinent: Geol. Soc. Am. Bull. 96, 746-754 (1985)
34. Montanari,A., R. Drake, D.M. Bice, W. Alvarez, G.H. Curtis, B.D. Turrin and D.J. DePaolo, Radiometric time scale for the Upper Eocene and Oligocene based on K/Ar and Rb/Sr dating of volcanic biotites from the pelagic sequence of Gubbio, Italy: Geology 13, 596-599 (1985)
35. DePaolo, D.J., Isotopic studies of processes in mafic magma chambers. I. The Kiglapait intrusion, Labrador: J. Petrol. 26, 925-951 (1985)
36. DePaolo, D.J., Detailed record of the Neogene Sr isotopic evolution of seawater from DSDP Site 590B: Geology 14, 103-106 (1986)
37. DePaolo, D.J., Isotopic constraints on planetary evolution: in The Solar System: Observations and Interpretations, M.G. Kivelson, ed., Prentice-Hall, New Jersey, p. 94-115 (1986)
38. Xuan, H., Bi Ziwei and D.J. DePaolo, A Sm-Nd isotopic study of early Archean rocks, Qianan, Hebei Province, China: Geochim. Cosmochim. Acta 50, 625-631 (1986)
39. Nelson, B.K., M.J. DeNiro, M.J. Schoeninger, D.J. DePaolo and P.E. Hare, Effects of diagenesis on strontium, carbon, nitrogen and oxygen concentration and isotopic composition of bone: Geochim. Cosmochim. Acta 50, 1941-1949 (1986)
40. Marshall, B.D., H.H. Woodard, H.W. Krueger and D.J. DePaolo, K-Ca-Ar systematics of authigenic sanidine from Waukau, Wisconsin, and the diffusivity of argon: Geology 14, 936-938 (1986)
41. Montanari, A., R. Drake, D.M. Bice, W. Alvarez, G.H. Curtis, B.D. Turrin and D.J. DePaolo, Radiometric dating of the Eocene-Oligocene boundary at Gubbio, Italy: in Pomerol, Ch. and Premoli-Silva, I. (eds.), Terminal Eocene Events, Elsevier, Amsterdam, 41-47 (1986)
42. Farmer, G.L. and D.J. DePaolo, A Nd and Sr isotopic study of hydrothermally altered granite at San Manuel, Arizona: Implications for element migration paths during the formation of porphyry-copper ore deposits: Econ. Geol. 82, 1142-1151 (1987)
43. Bennett, V.C. and D.J. DePaolo, Proterozoic crustal history of the western United States as determined by Neodymium isotopic mapping: Geol. Soc. Am. Bull. 99, 674-685 (1987)
44. Richter, F.M. and D.J. DePaolo, Numerical models of diagenesis: Application to DSDP 590B and the Neogene Sr isotopic evolution of seawater: Earth Planet. Sci. Lett. 83, 27-38 (1987)
45. Perry, F.V., W.S. Baldridge and D.J. DePaolo, The role of asthenosphere and lithosphere in the genesis of Late Cenozoic basaltic rocks from the Rio Grande rift and adjacent regions of the southwestern United States: J. Geophys. Res., 92, 9193-9213 (1987)
46. DePaolo, D.J., Correlating rocks with strontium isotopes: Geotimes, December , p.16-18 (1987)
47. Nelson, B.K. and D.J. DePaolo, Comparison of Isotopic and Petrographic Provenance Indicators in Sediments from Tertiary Continental Basins of New Mexico: J. Sed. Petrol. 58, 348-357 (1988)
48. DePaolo, D.J., Age dependence of the composition of continental crust as determined from Nd isotopic variations in igneous rocks: Earth Planet. Sci. Lett. 59, 263-271 (1988)
49. DePaolo, D.J., Neodymium Isotope Geochemistry: An Introduction, Springer-Verlag, Heidelberg, 187pp (1988)
50. Perry, F.V., Baldridge, W.S., DePaolo, D.J., Chemical and isotopic evidence for lithospheric thinning beneath the Rio Grande rift: Nature 332, 432-434 (1988)

51. Richter, F.M. and D.J. DePaolo, Diagenesis and Sr isotopic evolution of seawater using data from DSDP 590B and 575: Earth Planet. Sci. Lett. 90, 382-394 (1988)
52. Marshall, B.D. and D.J. DePaolo, Calcium isotopes in igneous rocks and the origin of granite: Geochim. Cosmochim. Acta 53, 917-922 (1989)
53. Musselwhite, D.M., D.J. DePaolo and M.J. McCurry, The evolution of a silicic magma system: Isotopic and chemical evidence from the Woods Mountains Volcanic Center, eastern California: Contrib. Mineral. Petrol. 101, 19-29 (1989)
54. Farmer, G.L., S. Semken, B. Crowe, F.V. Perry, D. Curtis, D.J. DePaolo, Isotopic evidence regarding the structure and origin of subcontinental lithospheric mantle in the southern Great Basin: J. Geophys. Res. 94, 7885-7898 (1989)
55. Christensen, J.N., J.L. Rosenfeld and D.J. DePaolo, Rates of tectonometamorphic processes from rubidium and strontium isotopes: Science 244, 1465-1469 (1989)
56. Stewart, B.M. and D.J. DePaolo, Isotopic studies of processes in mafic magma chambers: II. The Skaergard Intrusion, East Greenland: Contrib. Mineral. Petrol. 104: 125-141 (1990)
57. Borg, S.G., D.J. DePaolo and B.M. Smith, Isotopic structure and tectonics of the Central Transantarctic Mountains: J. Geophys. Res.: vol. 95, No. B5, 6647-67(1990)
58. Perry, F.V., W.S. Baldridge, D.J. DePaolo and M. Shafiqullah, Evolution of a magmatic system during continental extension: The Mount Taylor volcanic field, New Mexico: J. Geophys. Res., vol. 95, p. 19327-19348, (1991)
59. DePaolo, D.J., Finger, K.L., High resolution strontium isotope stratigraphy and biostratigraphy of the Miocene Monterey Formation, central California: Bul. Geol. Soc. Am., vol 103, No. 1, p. 112-124, (1991)
60. Capo, R.C., and D.J. DePaolo, Seawater Strontium Isotopic Variations: 2.5 Ma to the Present, Science, v. 249, p. 51-55 (1990)
61. DePaolo, D.J., A.M. Linn, and G. Schubert, The Continental Crustal Age Distribution: Methods of Determining Mantle Separation Ages From Sm-Nd Isotopic Data And Application To The Southwestern U.S: J. Geophys. Res., v. 96, p. 2071-2088 (1991)
62. Borg, Scott G., and D.J. DePaolo, A Tectonic Model of the Antarctic Gondwana Margin with Implications for Southeastern Australia: Isotopic and Geochemical Evidence: Tectonophysics, v. 196, p. 339-358 (1991)
63. Richter, F.M., D.B. Rowley, and D.J. DePaolo, Sr Isotope Evolution of Sea Water: The Role of Tectonics, Earth Planet. Sci. Lett. v. 109, p. 11-23 (1992)
64. Linn A.M., D.J. DePaolo, and R.V. Ingersoll, Nd-Sr Isotopic Provenance Analysis of Upper Cretaceous Great Valley Fore-arc Sandstones, Geology, v. 19, p. 803-806 (1991)
65. DePaolo, D.J., E.M. Stolper, and D.M. Thomas, Scientific opportunites from Deep Drilling in Hawaii. Part I: Physics and chemistry of plume-lithosphere interactions EOS, v. 72, p. 236-237 (1991)
66. Richards, M.A., D.L. Jones, R.A. Duncan, and D.J. DePaolo, A Mantle Plume Initiation Model for the Wrangellia Flood Basalt and Other Oceanic Plateaus, Science, vol. 254, p. 263-267 (1991)
67. Daley, E.E., and D.J. DePaolo, Isotopic Evidence for Contrasting Upper Crust and Lower Lithosphere Strain Histories During Extension: SE Great Basin, Geology, v. 20, p. 104-108 (1992)
68. Schrag, D.P., D.J. DePaolo, and F.M. Richter, Oxygen Isotope Exchange in a Two-Layer Model of Oceanic Crust, Earth Planet. Sci. Lett., vol. 111, p. 305-317 (1992)
69. Stewart, B.W., and D.J. DePaolo, Diffusive Isotopic Contamination of Mafic Magma by Coexisting Silicic Liquid in the Muskox Intrusion, Northwest Territories, Canada, Science, vol. 255, p. 708-711 (1992)
70. Wendlandt, E., D.J. DePaolo, and W.S. Baldridge, Nd and Sr Isotope Chronostratigraphy of Colorado Plateau Lithosphere: Implications for Magmatic and Tectonic Underplating of the Continental Crust: Earth Planet. Sci. Lett., v. 116, p. 23-43 (1993)
71. DePaolo, D.J., F.V. Perry, and W.S. Baldridge, Crustal versus mantle sources of granitic magmas: a two-parameter model based on Nd isotopic studies: Earth Sci. Trans. Royal Soc. Edinburgh, vol. 83, p. 439-446 (1992)
72. Christensen, J.N., and D.J. DePaolo, Timescales of Large Volume Silicic Magma Systems: Sr Isotopic Systematics of Phenocrysts and Glass from the Bishop Tuff, Long Valley, California: Contrib. to Mineral. and Petrol. v.113, p. 100-114 (1993)
73. Linn, A.M., D.J. DePaolo, and R.V. Ingersoll, Nd-Sr isotopic, geochemical, and petrographic stratigraphy and paleotectonic analysis: Mesozoic Great Valley forearc sedimentary rocks of California: Geological Soc. Am. Bull. v. 104, p. 1264-1279 (1992)
74. Linn, A. M. and D.J. DePaolo, Provenance Controls on the Nd-Sr-O Isotopic Composition of Sandstones: Example from Late Mesozoic Great Valley Forearc Basin, California: GSA Special Paper 284: "Processes controlling the composition of clastic sediments," p. 121-133 (1993)
75. Schrag, D.P. and D.J. DePaolo, Determination of $\partial^{18}O$ of seawater in the deep ocean during the last glacial maximum: Paleoceanography, v. 8, p. 1-6 (1993)

76. Chen, C.-H., D.J. DePaolo, S. Nakada, and Y.-N. Shieh, Relationship between eruption volume and Nd isotopic composition in dacite of Unzen volcano, Japan: Nature, v. 362, p. 831-834 (1993)
77. Ingram, B. L. and D. J. DePaolo, A 4,500-year strontium-isotope record of paleosalinity and freshwater inflow in San Francisco Bay, California: Earth Planet. Sci. Lett. v. 119, p. 103-119 (1993)
78. Perry, F.V., D.J. DePaolo, and W.S. Baldridge, Neodymium isotopic evidence for decreasing crustal contributions to Cenozoic ignimbrites of the western United States: Implications for the thermal evolution of the Cordilleran crust: Geol. Soc. Am. Bull., v. 105, p. 872-882 (1993)
79. Borg, S.G. and D.J. DePaolo, Laurentia, Australia, and Antarctica as part of a Late Proterozoic supercontinent: Constraints from isotopic mapping of continental crustal provinces: Geology, v. 22, p.307-310 (1994)
80. Johnson, T.M. and D.J. DePaolo, Interpretation of isotopic data in groundwater-rock systems: model development and application to Sr isotopic data from Yucca Mountain: Water Resources Res., v. 30, p.1571-1587 (1994)
81. Christensen, J.N., J. Selverstone, J.L. Rosenfeld, and D.J. DePaolo, Correlation by Rb-Sr geochronology of garnet growth histories from different structural levels within the Tauern Window, Eastern Alps: Contrib.Mineral. Petrol., v.118, p. 1-12 (1994)
82. Sims, K.W.W., D.J. DePaolo, M.T. Murrell, W.S. Baldridge, S.J. Goldstein and D.A. Clague, Mechanisms of Magma Generation Beneath Hawaii and Mid-Ocean Ridges: U-Th and Sm-Nd Isotopic Evidence: Science, v. 267, p. 508-512 (1995)
83. Schrag, D.P., D.J. DePaolo and F.M. Richter, Reconstructing past sea surface temperatures - correcting for diagenesis of bulk marine carbonate: Geochim. Cosmochim. Acta, v.59, p. 2265-2278 (1995)
84. Getty, S.J. and D.J. DePaolo, Quaternary geochronology by the U-Th-Pb method: Geochim. Cosmochim. Acta, v. 59, p. 3267-3272 (1995)
85. Lassiter, J.C., and D.J. DePaolo, Geochemistry of the Wrangellia Flood Basalt Province: Implications for the Role of Continental and Oceanic Lithosphere in Flood Basalt Genesis: J. Petrology, v. 36, 983-1009 (1995)
86. Norman, E.B., S. Bhaskar, K.T. Lesko, R.-M. Larimer, D.J. DePaolo and T.L. Owens, An improved test of the exponential decay law: Physics Lett. B, v. 357, p. 521-525 (1995).
87. Stewart, B.M. and D.J. DePaolo, Isotopic studies of processes in mafic magma chambers: III. The Muskox Intrusion, Northwest Territories, Canada: in *Earth Processes, Reading the isotopic code*; Basu, A.S.(ed.), Geophysical Monograph 95, Am. Geophys. Union, p. 277-292 (1996).
88. DePaolo, D.J., High frequency isotopic variations in the Mauna Kea tholeiitic basalt sequence: melt zone dispersivity and chromatography: J. Geophys. Res., v. 101, 11855-11864 (1996)
89. DePaolo, D.J. and Stolper, E.M., Models of Hawaiian volcano growth and plume structure: Implications of results from the Hawaii Scientific Drilling Project: J. Geophys. Res., v. 101, 11643-11654 (1996)
90. Lassiter, J.C., D.J. DePaolo, and M. Tatsumoto, Isotopic evolution of Mauna Kea volcano: Results from the initial phase of the Hawaii Scientific Drilling Project: J. Geophys. Res., v. 101, 11769-11780 (1996)
91. Kurz, M.D.,T.C. Kenna, J.C. Lassiter and D.J. DePaolo, Helium isotopic evolution of Mauna Kea volcano: First results from the 1 km drill core, J. Geophys. Res., v. 101, 11781-11791 (1996)
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