

Donald J Depaolo

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

5,265
citations

94433

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144013

57
g-index

60
all docs

60
docs citations

60
times ranked

4899
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Radiogenic ⁴⁰ Ca in Seawater: Implications for Modern and Ancient Ca Cycles. ACS Earth and Space Chemistry, 2021, 5, 2481-2492. | 2.7 | 9 |
| 2 | Opportunities for large-scale CO ₂ disposal in coastal marine volcanic basins based on the geology of northeast Hawaii. International Journal of Greenhouse Gas Control, 2021, 110, 103396. | 4.6 | 4 |
| 3 | The seawater Sr/Ca ratio in the past 50 Myr from bulk carbonate sediments corrected for diagenesis. Earth and Planetary Science Letters, 2020, 530, 115949. | 4.4 | 13 |
| 4 | Equilibrium calcite-fluid Sr/Ca partition coefficient from marine sediment and pore fluids. Geochimica Et Cosmochimica Acta, 2020, 289, 33-46. | 3.9 | 14 |
| 5 | Ti-in-quartz: Evaluating the role of kinetics in high temperature crystal growth experiments. Geochimica Et Cosmochimica Acta, 2020, 281, 149-167. | 3.9 | 22 |
| 6 | High-temperature kinetic isotope fractionation of calcium in epidotes from modern and ancient seafloor hydrothermal systems. Earth and Planetary Science Letters, 2020, 535, 116101. | 4.4 | 11 |
| 7 | Ca isotopes record rapid crystal growth in volcanic and subvolcanic systems. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 20315-20321. | 7.1 | 32 |
| 8 | Isotopic Fractionation of Potassium by Diffusion in Methanol. ACS Omega, 2019, 4, 9497-9501. | 3.5 | 5 |
| 9 | Seawater Chemistry Through Phanerozoic Time. Annual Review of Earth and Planetary Sciences, 2019, 47, 197-224. | 11.0 | 38 |
| 10 | Kinetic and equilibrium Ca isotope effects in high-T rocks and minerals. Earth and Planetary Science Letters, 2019, 517, 71-82. | 4.4 | 59 |
| 11 | The Role of Reactive Transport Modeling in Geologic Carbon Storage. Elements, 2019, 15, 93-98. | 0.5 | 16 |
| 12 | Supercritical CO ₂ uptake by nonswelling phyllosilicates. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 873-878. | 7.1 | 37 |
| 13 | Fracture Evolution in Multimineral Systems: The Role of Mineral Composition, Flow Rate, and Fracture Aperture Heterogeneity. ACS Earth and Space Chemistry, 2018, 2, 112-124. | 2.7 | 49 |
| 14 | Uranium isotope fractionation by abiotic reductive precipitation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 8688-8693. | 7.1 | 76 |
| 15 | Potassium and Calcium Isotopic Fractionation by Plants (Soybean [<i>Glycine max</i>], Rice [<i>Oryza</i>]) | 2.7 | 41 |
| 16 | Kinetic Fractionation of Non-Traditional Stable Isotopes by Diffusion and Crystal Growth Reactions. Reviews in Mineralogy and Geochemistry, 2017, 82, 85-125. | 4.8 | 68 |
| 17 | Additive effects of acidification and mineralogy on calcium isotopes in Triassic/Jurassic boundary limestones. Geochemistry, Geophysics, Geosystems, 2017, 18, 113-124. | 2.5 | 33 |
| 18 | Evaluation of accessible mineral surface areas for improved prediction of mineral reaction rates in porous media. Geochimica Et Cosmochimica Acta, 2017, 205, 31-49. | 3.9 | 79 |

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|----|--|------|-----------|
| 19 | Calcium Isotopic Compositions of Sixteen <scp>USGS</scp> Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2017, 41, 93-106. | 3.1 | 55 |
| 20 | Rates of CO ₂ Mineralization in Geological Carbon Storage. <i>Accounts of Chemical Research</i> , 2017, 50, 2075-2084. | 15.6 | 54 |
| 21 | Effect of paleoseawater composition on hydrothermal exchange in midocean ridges. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 12413-12418. | 7.1 | 47 |
| 22 | Se Isotopes as Groundwater Redox Indicators: Detecting Natural Attenuation of Se at an in Situ Recovery U Mine. <i>Environmental Science & Technology</i> , 2016, 50, 10833-10842. | 10.0 | 13 |
| 23 | Evaluation of mineral reactive surface area estimates for prediction of reactivity of a multi-mineral sediment. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 188, 310-329. | 3.9 | 108 |
| 24 | Sustainable carbon emissions: The geologic perspective. <i>MRS Energy & Sustainability</i> , 2015, 2, 1. | 3.0 | 11 |
| 25 | CO ₂ mineralization in volcanogenic sandstones: geochemical characterization of the Etchegoin formation, San Joaquin Basin. , 2015, 5, 622-644. | | 12 |
| 26 | Isotopic and Geochemical Tracers for U(VI) Reduction and U Mobility at an in Situ Recovery U Mine. <i>Environmental Science & Technology</i> , 2015, 49, 5939-5947. | 10.0 | 47 |
| 27 | Assimilation of preexisting Pleistocene intrusions at Long Valley by periodic magma recharge accelerates rhyolite generation: rethinking the remelting model. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1. | 3.1 | 44 |
| 28 | Diffusion of multi-isotopic chemical species in molten silicates. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 313-326. | 3.9 | 34 |
| 29 | General model for calcite growth kinetics in the presence of impurity ions. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 115, 100-114. | 3.9 | 115 |
| 30 | Ca, Sr, O and D isotope approach to defining the chemical evolution of hydrothermal fluids: Example from Long Valley, CA, USA. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 122, 209-225. | 3.9 | 32 |
| 31 | Mineralization of carbon dioxide sequestered in volcanogenic sandstone reservoir rocks. <i>International Journal of Greenhouse Gas Control</i> , 2013, 18, 315-328. | 4.6 | 16 |
| 32 | Reconstructing the oxygen isotope composition of late Cambrian and Cretaceous hydrothermal vent fluid. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 123, 440-458. | 3.9 | 21 |
| 33 | The influence of kinetics on the oxygen isotope composition of calcium carbonate. <i>Earth and Planetary Science Letters</i> , 2013, 375, 349-360. | 4.4 | 143 |
| 34 | Ion desolvation as a mechanism for kinetic isotope fractionation in aqueous systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18689-18694. | 7.1 | 92 |
| 35 | Calcium Isotopes as Tracers of Biogeochemical Processes. <i>Advances in Isotope Geochemistry</i> , 2012, , 105-124. | 1.4 | 15 |
| 36 | Surface kinetic model for isotopic and trace element fractionation during precipitation of calcite from aqueous solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 1039-1056. | 3.9 | 356 |

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|----|---|------|-----------|
| 37 | Influence of liquid structure on diffusive isotope separation in molten silicates and aqueous solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3103-3118. | 3.9 | 57 |
| 38 | Calcium isotope evidence for suppression of carbonate dissolution in carbonate-bearing organic-rich sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7081-7098. | 3.9 | 56 |
| 39 | Horizontal and vertical zoning of heterogeneities in the Hawaiian mantle plume from the geochemistry of consecutive postshield volcano pairs: Kohala–Mahukona and Mauna Kea–Hualalai. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, . | 2.5 | 54 |
| 40 | Stable calcium isotopic composition of meteorites and rocky planets. <i>Earth and Planetary Science Letters</i> , 2010, 289, 457-466. | 4.4 | 148 |
| 41 | Liquid composition-dependence of calcium isotope fractionation during diffusion in molten silicates. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 7341-7359. | 3.9 | 46 |
| 42 | Water isotopes during the Last Glacial Maximum: New general circulation model calculations. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 54 |
| 43 | Ca isotopes in carbonate sediment and pore fluid from ODP Site 807A: The Ca ²⁺ (aq)–calcite equilibrium fractionation factor and calcite recrystallization rates in Pleistocene sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2524-2546. | 3.9 | 265 |
| 44 | Analysis of the global distribution of water isotopes using the NCAR atmospheric general circulation model. <i>Journal of Geophysical Research</i> , 2007, 112, . | 3.3 | 174 |
| 45 | Isotopic Studies of Contaminant Transport at the Hanford Site, Washington. <i>Vadose Zone Journal</i> , 2007, 6, 1018-1030. | 2.2 | 8 |
| 46 | The mineral dissolution rate conundrum: Insights from reactive transport modeling of U isotopes and pore fluid chemistry in marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 337-363. | 3.9 | 234 |
| 47 | Isotopic effects in fracture-dominated reactive fluid–rock systems. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 1077-1096. | 3.9 | 50 |
| 48 | Sr isotopes and pore fluid chemistry in carbonate sediment of the Ontong Java Plateau: Calcite recrystallization rates and evidence for a rapid rise in seawater Mg over the last 10 million years. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3883-3904. | 3.9 | 152 |
| 49 | Geochemical structure of the Hawaiian plume: Sr, Nd, and Os isotopes in the 2.8 km HSDP-2 section of Mauna Kea volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2005, 6, n/a-n/a. | 2.5 | 93 |
| 50 | Can metamorphic reactions proceed faster than bulk strain?. <i>Contributions To Mineralogy and Petrology</i> , 2004, 146, 657-670. | 3.1 | 29 |
| 51 | A model for the origin of large silicic magma chambers: precursors of caldera-forming eruptions. <i>Bulletin of Volcanology</i> , 2003, 65, 363-381. | 3.0 | 363 |
| 52 | Isotopic fractionation of water during evaporation. <i>Journal of Geophysical Research</i> , 2003, 108, . | 3.3 | 365 |
| 53 | Isotope fractionation by chemical diffusion between molten basalt and rhyolite. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3905-3923. | 3.9 | 401 |
| 54 | GEOLOGY: Deep Origin of Hotspots–the Mantle Plume Model. <i>Science</i> , 2003, 300, 920-921. | 12.6 | 73 |

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|----|--|-----|-----------|
| 55 | Isotopic evolution of Mauna Loa and the chemical structure of the Hawaiian plume. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a. | 2.5 | 95 |
| 56 | Sr isotope evolution of seawater: the role of tectonics. <i>Earth and Planetary Science Letters</i> , 1992, 109, 11-23. | 4.4 | 440 |
| 57 | Diagenesis and Sr isotopic evolution of seawater using data from DSDP 590B and 575. <i>Earth and Planetary Science Letters</i> , 1988, 90, 382-394. | 4.4 | 131 |
| 58 | Numerical models for diagenesis and the Neogene Sr isotopic evolution of seawater from DSDP Site 590B. <i>Earth and Planetary Science Letters</i> , 1987, 83, 27-38. | 4.4 | 156 |