

Daniel P Schrag

List of Publications by Year in descending order

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104
papers

16,247
citations

23500

58
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30848

102
g-index

105
all docs

105
docs citations

105
times ranked

12359
citing authors

#	ARTICLE	IF	CITATIONS
1	A Neoproterozoic Snowball Earth. , 1998, 281, 1342-1346.		2,174
2	The snowball Earth hypothesis: testing the limits of global change. Terra Nova, 2002, 14, 129-155.	0.9	1,336
3	Toward a Neoproterozoic composite carbon-isotope record. Bulletin of the Geological Society of America, 2005, 117, 1181.	1.6	736
4	Large Perturbations of the Carbon Cycle During Recovery from the End-Permian Extinction. Science, 2004, 305, 506-509.	6.0	701
5	Heterotrophic Archaea dominate sedimentary subsurface ecosystems off Peru. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3846-3851.	3.3	654
6	The Salinity, Temperature, and delta 18O of the Glacial Deep Ocean. Science, 2002, 298, 1769-1773.	6.0	589
7	Defining an absolute reference frame for $\delta^{13}C$ clumped isotope studies of CO ₂ . Geochimica Et Cosmochimica Acta, 2011, 75, 7117-7131.	1.6	497
8	Calibrating the Cryogenian. Science, 2010, 327, 1241-1243.	6.0	488
9	Consequences of twenty-first-century policy for multi-millennial climate and sea-level change. Nature Climate Change, 2016, 6, 360-369.	8.1	442
10	Authigenic Carbonate and the History of the Global Carbon Cycle. Science, 2013, 339, 540-543.	6.0	398
11	Preparing to Capture Carbon. Science, 2007, 315, 812-813.	6.0	335
12	Permanent carbon dioxide storage in deep-sea sediments. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12291-12295.	3.3	323
13	The oxygen isotopic composition of seawater during the Last Glacial Maximum. Quaternary Science Reviews, 2002, 21, 331-342.	1.4	310
14	Beyond methane: Towards a theory for the Paleocene–Eocene Thermal Maximum. Earth and Planetary Science Letters, 2006, 245, 523-537.	1.8	266
15	Clumped isotope thermometry of carbonatites as an indicator of diagenetic alteration. Geochimica Et Cosmochimica Acta, 2010, 74, 4110-4122.	1.6	247
16	Rapid analysis of high-precision Sr/Ca ratios in corals and other marine carbonates. Paleoceanography, 1999, 14, 97-102.	3.0	244
17	A Contemporary Microbially Maintained Subglacial Ferrous "Ocean". Science, 2009, 324, 397-400.	6.0	243
18	Reconstructing past sea surface temperatures: Correcting for diagenesis of bulk marine carbonate. Geochimica Et Cosmochimica Acta, 1995, 59, 2265-2278.	1.6	241

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19	The energy penalty of post-combustion CO ₂ capture & storage and its implications for retrofitting the U.S. installed base. <i>Energy and Environmental Science</i> , 2009, 2, 193.	15.6	235
20	Decadal Sea Surface Temperature Variability in the Subtropical South Pacific from 1726 to 1997 A.D.. <i>Science</i> , 2000, 290, 1145-1148.	6.0	233
21	Abrupt Shift in Subsurface Temperatures in the Tropical Pacific Associated with Changes in El Niño. <i>Science</i> , 1998, 281, 240-243.		214
22	Are basal Ediacaran (635 Ma) post-glacial cap dolostones diachronous?. <i>Earth and Planetary Science Letters</i> , 2007, 258, 114-131.	1.8	203
23	An expanded record of Early Cambrian carbon cycling from the Anti-Atlas Margin, Morocco. <i>Canadian Journal of Earth Sciences</i> , 2005, 42, 2195-2216.	0.6	177
24	A Sulfur Dioxide Climate Feedback on Early Mars. <i>Science</i> , 2007, 318, 1903-1907.	6.0	168
25	A stable isotope-based approach to tropical dendroclimatology. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3295-3305.	1.6	158
26	Using Specific Language to Describe Risk and Probability. <i>Climatic Change</i> , 2003, 61, 17-30.	1.7	153
27	Snowball Earth. <i>Scientific American</i> , 2000, 282, 68-75.	1.0	151
28	Effects of Quaternary Sea Level Cycles on Strontium in Seawater. <i>Geochimica Et Cosmochimica Acta</i> , 1998, 62, 1107-1118.	1.6	149
29	The stratigraphic relationship between the Shuram carbon isotope excursion, the oxygenation of Neoproterozoic oceans, and the first appearance of the Ediacara biota and bilaterian trace fossils in northwestern Canada. <i>Chemical Geology</i> , 2013, 362, 250-272.	1.4	148
30	Hydrological conditions over the western Mediterranean basin during the deposition of the cold Sapropel 6 (ca. 175 kyr BP). <i>Earth and Planetary Science Letters</i> , 2002, 202, 481-494.	1.8	144
31	Dolomite formation in the dynamic deep biosphere: results from the Peru Margin. <i>Sedimentology</i> , 2007, 54, 1007-1032.	1.6	143
32	Resolving seasonality in tropical trees: multi-decade, high-resolution oxygen and carbon isotope records from Indonesia and Thailand. <i>Earth and Planetary Science Letters</i> , 2004, 218, 301-316.	1.8	140
33	Storage of Carbon Dioxide in Offshore Sediments. <i>Science</i> , 2009, 325, 1658-1659.	6.0	140
34	Regulation of atmospheric oxygen during the Proterozoic. <i>Earth and Planetary Science Letters</i> , 2014, 388, 81-91.	1.8	134
35	Explaining the Structure of the Archean Mass-Independent Sulfur Isotope Record. <i>Science</i> , 2010, 329, 204-207.	6.0	128
36	The Mg isotopic composition of Cenozoic seawater – evidence for a link between Mg-clays, seawater Mg/Ca, and climate. <i>Earth and Planetary Science Letters</i> , 2015, 416, 73-81.	1.8	127

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37	Oxygen Isotope Constraints on the Sulfur Cycle over the Past 10 Million Years. <i>Science</i> , 2004, 303, 2004-2007.	6.0	123
38	ALLOCATION TO REPRODUCTION IN A HAWKMOTH: A QUANTITATIVE ANALYSIS USING STABLE CARBON ISOTOPES. <i>Ecology</i> , 2000, 81, 2822-2831.	1.5	113
39	Stratigraphic and tectonic implications of a newly discovered glacial diamicton cap carbonate couplet in southwestern Mongolia. <i>Geology</i> , 2009, 37, 123-126.	2.0	112
40	Deconvolving the $\delta^{18}\text{O}$ seawater component from subseasonal coral $\delta^{18}\text{O}$ and Sr/Ca at Rarotonga in the southwestern subtropical Pacific for the period 1726 to 1997. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 1609-1621.	1.6	105
41	Support for tropically-driven pacific decadal variability based on paleoproxy evidence. <i>Geophysical Research Letters</i> , 2001, 28, 3689-3692.	1.5	97
42	Cenozoic evolution of the sulfur cycle: Insight from oxygen isotopes in marine sulfate. <i>Earth and Planetary Science Letters</i> , 2006, 241, 763-779.	1.8	97
43	Electrochemical Acceleration of Chemical Weathering as an Energetically Feasible Approach to Mitigating Anthropogenic Climate Change. <i>Environmental Science & Technology</i> , 2007, 41, 8464-8470.	4.6	95
44	Effects of diagenesis on the isotopic record of late paleogene tropical sea surface temperatures. <i>Chemical Geology</i> , 1999, 161, 215-224.	1.4	92
45	Estimating past continental ice volume from sea-level data. <i>Quaternary Science Reviews</i> , 2002, 21, 361-376.	1.4	90
46	Biologically induced initiation of Neoproterozoic snowball-Earth events. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 15091-15096.	3.3	90
47	Sr/Ca variations in Cretaceous carbonates: relation to productivity and sea level changes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2001, 168, 311-336.	1.0	89
48	Kinetic oxygen isotope effects during dissimilatory sulfate reduction: A combined theoretical and experimental approach. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2011-2024.	1.6	89
49	Fossil corals as an archive of secular variations in seawater chemistry since the Mesozoic. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 160, 188-208.	1.6	87
50	Radiocarbon variability in the western equatorial Pacific inferred from a high-resolution coral record from Nauru Island. <i>Journal of Geophysical Research</i> , 1998, 103, 24641-24650.	3.3	86
51	$\delta^{18}\text{O}$ during the Last Interglacial Period recorded by a fossil coral from Indonesia. <i>Geophysical Research Letters</i> , 1999, 26, 3129-3132.	1.5	82
52	Reliability of coral isotope records from the Western Pacific Warm Pool: A comparison using age-optimized records. <i>Paleoceanography</i> , 1999, 14, 457-464.	3.0	82
53	Paleoceanography of the Late Cretaceous (Maastrichtian) Western Interior Seaway of North America: evidence from Sr and O isotopes. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2003, 191, 45-64.	1.0	80
54	Unmask temporal trade-offs in climate policy debates. <i>Science</i> , 2017, 356, 492-493.	6.0	80

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55	Are seawater Sr/Ca variations preserved in quaternary foraminifera?. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3535-3547.	1.6	77
56	Stratigraphy and geochemistry of a ca 800ÂMa negative carbon isotope interval in northeastern Svalbard. <i>Chemical Geology</i> , 2007, 237, 5-27.	1.4	76
57	Southwest Subtropical Pacific Surface Water Radiocarbon in a High-Resolution Coral Record. <i>Radiocarbon</i> , 2000, 42, 249-256.	0.8	72
58	Seasonally resolved stable isotope chronologies from northern Thailand deciduous trees. <i>Earth and Planetary Science Letters</i> , 2005, 235, 752-765.	1.8	69
59	Neoproterozoic glaciation on a carbonate platform margin in Arctic Alaska and the origin of the North Slope subterranean. <i>Bulletin of the Geological Society of America</i> , 2009, 121, 448-473.	1.6	68
60	Geobiology of the late Paleoproterozoic Duck Creek Formation, Western Australia. <i>Precambrian Research</i> , 2010, 179, 135-149.	1.2	61
61	Dynamics of a Snowball Earth ocean. <i>Nature</i> , 2013, 495, 90-93.	13.7	58
62	Consequences of a Rapid Cellulose Extraction Technique for Oxygen Isotope and Radiocarbon Analyses. <i>Analytical Chemistry</i> , 2008, 80, 2035-2041.	3.2	57
63	Oxygen isotope exchange in a two-layer model of oceanic crust. <i>Earth and Planetary Science Letters</i> , 1992, 111, 305-317.	1.8	55
64	Reconstructing Last Glacial Maximum bottom water salinities from deep-sea sediment pore fluid profiles. <i>Earth and Planetary Science Letters</i> , 2003, 216, 109-123.	1.8	52
65	Influence of form IA RubisCO and environmental dissolved inorganic carbon on the delta13C of the clam-chemoautotroph symbiosis <i>Solemya velum</i> . <i>Environmental Microbiology</i> , 2004, 6, 1210-1219.	1.8	50
66	Stable isotope analysis of the Cretaceous sulfur cycle. <i>Earth and Planetary Science Letters</i> , 2009, 285, 115-123.	1.8	43
67	Stratigraphic evolution of the Neoproterozoic Callison Lake Formation: Linking the break-up of Rodinia to the Islay carbon isotope excursion. <i>Numerische Mathematik</i> , 2015, 315, 881-944.	0.7	43
68	Limitations on Limitation. <i>Global Biogeochemical Cycles</i> , 2018, 32, 486-496.	1.9	43
69	A small marine biosphere in the Proterozoic. <i>Geobiology</i> , 2019, 17, 161-171.	1.1	42
70	Early Neoproterozoic scale microfossils in the Lower Tindir Group of Alaska and the Yukon Territory. <i>Geology</i> , 2010, 38, 143-146.	2.0	36
71	Is Shale Gas Good for Climate Change?. <i>Daedalus</i> , 2012, 141, 72-80.	0.9	33
72	Decadal changes in South Pacific sea surface temperatures and the relationship to the Pacific decadal oscillation and upper ocean heat content. <i>Geophysical Research Letters</i> , 2015, 42, 2358-2366.	1.5	32

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73	Exploring the Effects of Solar Radiation Management on Water Cycling in a Coupled Land–Atmosphere Model*. <i>Journal of Climate</i> , 2016, 29, 2635-2650.	1.2	30
74	Snowballs in Africa: sectioning a long-lived Neoproterozoic carbonate platform and its bathyal foreslope (NW Namibia). <i>Earth-Science Reviews</i> , 2021, 219, 103616.	4.0	30
75	The bomb ¹⁴ C transient in the Pacific Ocean. <i>Journal of Geophysical Research</i> , 2000, 105, 8489-8512.	3.3	29
76	PALEOCLIMATE: Corals, Chemistry, and Climate. <i>Science</i> , 2002, 296, 277-278.	6.0	26
77	Investigation of sea surface temperature changes from replicated coral Sr/Ca variations in the eastern equatorial Pacific (Clipperton Atoll) since 1874. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 412, 208-222.	1.0	25
78	The danger of overvaluing methane's influence on future climate change. <i>Climatic Change</i> , 2013, 120, 903-914.	1.7	23
79	Quantifying the effects of solar geoengineering on vegetation. <i>Climatic Change</i> , 2019, 153, 235-251.	1.7	23
80	Sedimentology, chemostratigraphy, and stromatolites of lower Paleoproterozoic carbonates, Turee Creek Group, Western Australia. <i>Precambrian Research</i> , 2015, 266, 194-211.	1.2	22
81	Troposphere–Planetary Boundary Layer Interactions and the Evolution of Ocean Surface Density: Lessons from Red Sea Corals. <i>Journal of Climate</i> , 2000, 13, 339-351.	1.2	17
82	Tectonostratigraphic evolution of the c. 780–730 Ma Beck Spring Dolomite: Basin Formation in the core of Rodinia. <i>Geological Society Special Publication</i> , 2016, 424, 213-239.	0.8	17
83	The role of authigenic carbonate in Neoproterozoic carbon isotope excursions. <i>Earth and Planetary Science Letters</i> , 2020, 549, 116534.	1.8	16
84	Regional Water Implications of Reducing Oil Imports with Liquid Transportation Fuel Alternatives in the United States. <i>Environmental Science & Technology</i> , 2013, 47, 11976-11984.	4.6	15
85	The Immobility of CO ₂ in Marine Sediments Beneath 1500 Meters of Water. <i>ChemSusChem</i> , 2010, 3, 905-912.	3.6	14
86	Stable oxygen isotope signatures of early season wood in New Zealand kauri (<i>Agathis australis</i>) tree rings: Prospects for palaeoclimate reconstruction. <i>Dendrochronologia</i> , 2016, 40, 50-63.	1.0	14
87	Methane in the Precambrian atmosphere. <i>Earth and Planetary Science Letters</i> , 2019, 522, 48-54.	1.8	14
88	PHYSICS: Ancient Lessons for Our Future Climate. <i>Science</i> , 2004, 306, 821-822.	6.0	13
89	Using Video to Build Learning Contexts Online. <i>Science</i> , 2010, 328, 1119-1120.	6.0	13
90	Clumped isotope measurements of small carbonate samples using a high-efficiency dual-reservoir technique. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2371-2381.	0.7	11

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91	Alkalinity Concentration Swing for Direct Air Capture of Carbon Dioxide. ChemSusChem, 2021, 14, 4439-4453.	3.6	10
92	Of ice and elephants. Nature, 2000, 404, 23-24.	13.7	9
93	Effect of dolomitization on isotopic records from Neoproterozoic carbonates in southwestern Mongolia. Precambrian Research, 2020, 350, 105902.	1.2	9
94	Electrochemical acceleration of chemical weathering for carbon capture and sequestration. Energy Procedia, 2009, 1, 4953-4960.	1.8	8
95	Early extensional detachments in a contractional orogen: coherent, map-scale, submarine slides (mass) Tj ETQq1 1 0.784314 rgBT /Over Namibia. Canadian Journal of Earth Sciences, 2016, 53, 1177-1189.	0.6	6
96	Mid-Atlantic U.S. Offshore Carbon Storage Resource Assessment. Energy Procedia, 2017, 114, 4629-4636.	1.8	5
97	Chemical Composition of Carbonate Hardground Cements as Reconstructive Tools for Phanerozoic Pore Fluids. Geochemistry, Geophysics, Geosystems, 2020, 21, e2019GC008448.	1.0	5
98	A tortoise approach for US nuclear research and development. Nature Energy, 2018, 3, 810-812.	19.8	4
99	Postbomb Subtropical North Pacific Surface Water Radiocarbon History. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016881.	1.0	4
100	Isotopically anomalous organic carbon in the aftermath of the Marinoan snowball Earth. Geobiology, 2020, 18, 476-485.	1.1	3
101	Representation of the Equatorial Undercurrent in CMIP5 Models. Journal of Physical Oceanography, 2020, 50, 2997-3007.	0.7	3
102	Subtropical modulation of the equatorial undercurrent: a mechanism of Pacific variability. Climate Dynamics, 2021, 56, 1937-1949.	1.7	2
103	Citation for presentation of 2002 V. M. Goldschmidt Award to John M. Hayes. Geochimica Et Cosmochimica Acta, 2003, 67, 2301.	1.6	1
104	The case for a tortoise approach to US nuclear research and development. Energy Policy, 2019, 135, 111013.	4.2	1