

Daniel P Schrag

List of Publications by Year in descending order

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104
papers

16,247
citations

23500

58
h-index

30848

102
g-index

105
all docs

105
docs citations

105
times ranked

12359
citing authors

#	ARTICLE	IF	CITATIONS
1	Subtropical modulation of the equatorial undercurrent: a mechanism of Pacific variability. <i>Climate Dynamics</i> , 2021, 56, 1937-1949.	1.7	2
2	Postbomb Subtropical North Pacific Surface Water Radiocarbon History. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016881.	1.0	4
3	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
4	Alkalinity Concentration Swing for Direct Air Capture of Carbon Dioxide. <i>ChemSusChem</i> , 2021, 14, 4439-4453.	3.6	10
5	The role of authigenic carbonate in Neoproterozoic carbon isotope excursions. <i>Earth and Planetary Science Letters</i> , 2020, 549, 116534.	1.8	16
6	Effect of dolomitization on isotopic records from Neoproterozoic carbonates in southwestern Mongolia. <i>Precambrian Research</i> , 2020, 350, 105902.	1.2	9
7	Isotopically anomalous organic carbon in the aftermath of the Marinoan snowball Earth. <i>Geobiology</i> , 2020, 18, 476-485.	1.1	3
8	Chemical Composition of Carbonate Hardground Cements as Reconstructive Tools for Phanerozoic Pore Fluids. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008448.	1.0	5
9	Representation of the Equatorial Undercurrent in CMIP5 Models. <i>Journal of Physical Oceanography</i> , 2020, 50, 2997-3007.	0.7	3
10	Methane in the Precambrian atmosphere. <i>Earth and Planetary Science Letters</i> , 2019, 522, 48-54.	1.8	14
11	The case for a tortoise approach to US nuclear research and development. <i>Energy Policy</i> , 2019, 135, 111013.	4.2	1
12	Quantifying the effects of solar geoengineering on vegetation. <i>Climatic Change</i> , 2019, 153, 235-251.	1.7	23
13	A small marine biosphere in the Proterozoic. <i>Geobiology</i> , 2019, 17, 161-171.	1.1	42
14	Limitations on Limitation. <i>Global Biogeochemical Cycles</i> , 2018, 32, 486-496.	1.9	43
15	A tortoise approach for US nuclear research and development. <i>Nature Energy</i> , 2018, 3, 810-812.	19.8	4
16	Unmask temporal trade-offs in climate policy debates. <i>Science</i> , 2017, 356, 492-493.	6.0	80
17	Mid-Atlantic U.S. Offshore Carbon Storage Resource Assessment. <i>Energy Procedia</i> , 2017, 114, 4629-4636.	1.8	5
18	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

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19	Consequences of twenty-first-century policy for multi-millennial climate and sea-level change. <i>Nature Climate Change</i> , 2016, 6, 360-369.	8.1	442
20	Early extensional detachments in a contractional orogen: coherent, map-scale, submarine slides (mass) Tj ETQq0 0 0 rgBT /Overlock 10 T Namibia. <i>Canadian Journal of Earth Sciences</i> , 2016, 53, 1177-1189.	0.6	6
21	Exploring the Effects of Solar Radiation Management on Water Cycling in a Coupled Landâ€“Atmosphere Model*. <i>Journal of Climate</i> , 2016, 29, 2635-2650.	1.2	30
22	Tectonostratigraphic evolution of the <i>c.</i> 780â€“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
23	Sedimentology, chemostratigraphy, and stromatolites of lower Paleoproterozoic carbonates, Turee Creek Group, Western Australia. <i>Precambrian Research</i> , 2015, 266, 194-211.	1.2	22
24	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
25	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
26	The Mg isotopic composition of Cenozoic seawater â€“ 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
27	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
28	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
29	Clumped isotope measurements of small carbonate samples using a highâ€“efficiency dualâ€“reservoir technique. <i>Rapid Communications in Mass Spectrometry</i> , 2014, 28, 2371-2381.	0.7	11
30	Regulation of atmospheric oxygen during the Proterozoic. <i>Earth and Planetary Science Letters</i> , 2014, 388, 81-91.	1.8	134
31	Dynamics of a Snowball Earth ocean. <i>Nature</i> , 2013, 495, 90-93.	13.7	58
32	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
33	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
34	The danger of overvaluing methaneâ€™s influence on future climate change. <i>Climatic Change</i> , 2013, 120, 903-914.	1.7	23
35	Authigenic Carbonate and the History of the Global Carbon Cycle. <i>Science</i> , 2013, 339, 540-543.	6.0	398
36	Is Shale Gas Good for Climate Change?. <i>Daedalus</i> , 2012, 141, 72-80.	0.9	33

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37	Defining an absolute reference frame for $\delta^{13}C$ -clumped isotope studies of CO ₂ . <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 7117-7131.	1.6	497
38	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
39	The Immobility of CO ₂ in Marine Sediments Beneath 1500 Meters of Water. <i>ChemSusChem</i> , 2010, 3, 905-912.	3.6	14
40	Using Video to Build Learning Contexts Online. <i>Science</i> , 2010, 328, 1119-1120.	6.0	13
41	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
42	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
43	Clumped isotope thermometry of carbonatites as an indicator of diagenetic alteration. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 4110-4122.	1.6	247
44	Geobiology of the late Paleoproterozoic Duck Creek Formation, Western Australia. <i>Precambrian Research</i> , 2010, 179, 135-149.	1.2	61
45	Calibrating the Cryogenian. <i>Science</i> , 2010, 327, 1241-1243.	6.0	488
46	Explaining the Structure of the Archean Mass-Independent Sulfur Isotope Record. <i>Science</i> , 2010, 329, 204-207.	6.0	128
47	Storage of Carbon Dioxide in Offshore Sediments. <i>Science</i> , 2009, 325, 1658-1659.	6.0	140
48	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
49	Electrochemical acceleration of chemical weathering for carbon capture and sequestration. <i>Energy Procedia</i> , 2009, 1, 4953-4960.	1.8	8
50	Stable isotope analysis of the Cretaceous sulfur cycle. <i>Earth and Planetary Science Letters</i> , 2009, 285, 115-123.	1.8	43
51	Stratigraphic and tectonic implications of a newly discovered glacial diamictite cap carbonate couplet in southwestern Mongolia. <i>Geology</i> , 2009, 37, 123-126.	2.0	112
52	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
53	A Contemporary Microbially Maintained Subglacial Ferrous "Ocean". <i>Science</i> , 2009, 324, 397-400.	6.0	243
54	Consequences of a Rapid Cellulose Extraction Technique for Oxygen Isotope and Radiocarbon Analyses. <i>Analytical Chemistry</i> , 2008, 80, 2035-2041.	3.2	57

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55	A Sulfur Dioxide Climate Feedback on Early Mars. <i>Science</i> , 2007, 318, 1903-1907.	6.0	168
56	Are basal Ediacaran (635 Ma) post-glacial cap dolostones diachronous?. <i>Earth and Planetary Science Letters</i> , 2007, 258, 114-131.	1.8	203
57	Stratigraphy and geochemistry of a ca 800 Ma negative carbon isotope interval in northeastern Svalbard. <i>Chemical Geology</i> , 2007, 237, 5-27.	1.4	76
58	Preparing to Capture Carbon. <i>Science</i> , 2007, 315, 812-813.	6.0	335
59	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
60	Dolomite formation in the dynamic deep biosphere: results from the Peru Margin. <i>Sedimentology</i> , 2007, 54, 1007-1032.	1.6	143
61	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
62	Beyond methane: Towards a theory for the Paleocene-Eocene Thermal Maximum. <i>Earth and Planetary Science Letters</i> , 2006, 245, 523-537.	1.8	266
63	Heterotrophic Archaea dominate sedimentary subsurface ecosystems off Peru. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3846-3851.	3.3	654
64	Permanent carbon dioxide storage in deep-sea sediments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 12291-12295.	3.3	323
65	Toward a Neoproterozoic composite carbon-isotope record. <i>Bulletin of the Geological Society of America</i> , 2005, 117, 1181.	1.6	736
66	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
67	Seasonally resolved stable isotope chronologies from northern Thailand deciduous trees. <i>Earth and Planetary Science Letters</i> , 2005, 235, 752-765.	1.8	69
68	Oxygen Isotope Constraints on the Sulfur Cycle over the Past 10 Million Years. <i>Science</i> , 2004, 303, 2004-2007.	6.0	123
69	PHYSICS: Ancient Lessons for Our Future Climate. <i>Science</i> , 2004, 306, 821-822.	6.0	13
70	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
71	Large Perturbations of the Carbon Cycle During Recovery from the End-Permian Extinction. <i>Science</i> , 2004, 305, 506-509.	6.0	701
72	A stable isotope-based approach to tropical dendroclimatology. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3295-3305.	1.6	158

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73	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
74	Using Specific Language to Describe Risk and Probability. <i>Climatic Change</i> , 2003, 61, 17-30.	1.7	153
75	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
76	Citation for presentation of 2002 V. M. Goldschmidt Award to John M. Hayes. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 2301.	1.6	1
77	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
78	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
79	The Salinity, Temperature, and delta ^{18}O of the Glacial Deep Ocean. <i>Science</i> , 2002, 298, 1769-1773.	6.0	589
80	PALEOCLIMATE: Corals, Chemistry, and Climate. <i>Science</i> , 2002, 296, 277-278.	6.0	26
81	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
82	Estimating past continental ice volume from sea-level data. <i>Quaternary Science Reviews</i> , 2002, 21, 361-376.	1.4	90
83	The oxygen isotopic composition of seawater during the Last Glacial Maximum. <i>Quaternary Science Reviews</i> , 2002, 21, 331-342.	1.4	310
84	The snowball Earth hypothesis: testing the limits of global change. <i>Terra Nova</i> , 2002, 14, 129-155.	0.9	1,336
85	Support for tropically-driven pacific decadal variability based on paleoproxy evidence. <i>Geophysical Research Letters</i> , 2001, 28, 3689-3692.	1.5	97
86	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
87	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
88	ALLOCATION TO REPRODUCTION IN A HAWKMOTH: A QUANTITATIVE ANALYSIS USING STABLE CARBON ISOTOPES. <i>Ecology</i> , 2000, 81, 2822-2831.	1.5	113
89	Snowball Earth. <i>Scientific American</i> , 2000, 282, 68-75.	1.0	151
90	Of ice and elephants. <i>Nature</i> , 2000, 404, 23-24.	13.7	9

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91	Southwest Subtropical Pacific Surface Water Radiocarbon in a High-Resolution Coral Record. Radiocarbon, 2000, 42, 249-256.	0.8	72
92	The bomb ¹⁴ C transient in the Pacific Ocean. Journal of Geophysical Research, 2000, 105, 8489-8512.	3.3	29
93	Decadal Sea Surface Temperature Variability in the Subtropical South Pacific from 1726 to 1997 A.D.. Science, 2000, 290, 1145-1148.	6.0	233
94	Effects of diagenesis on the isotopic record of late paleogene tropical sea surface temperatures. Chemical Geology, 1999, 161, 215-224.	1.4	92
95	Are seawater Sr/Ca variations preserved in quaternary foraminifera?. Geochimica Et Cosmochimica Acta, 1999, 63, 3535-3547.	1.6	77
96	Rapid analysis of high-precision Sr/Ca ratios in corals and other marine carbonates. Paleoceanography, 1999, 14, 97-102.	3.0	244
97	El Niño during the Last Interglacial Period recorded by a fossil coral from Indonesia. Geophysical Research Letters, 1999, 26, 3129-3132.	1.5	82
98	Reliability of coral isotope records from the Western Pacific Warm Pool: A comparison using age-optimized records. Paleoceanography, 1999, 14, 457-464.	3.0	82
99	Effects of Quaternary Sea Level Cycles on Strontium in Seawater. Geochimica Et Cosmochimica Acta, 1998, 62, 1107-1118.	1.6	149
100	Radiocarbon variability in the western equatorial Pacific inferred from a high-resolution coral record from Nauru Island. Journal of Geophysical Research, 1998, 103, 24641-24650.	3.3	86
101	Abrupt Shift in Subsurface Temperatures in the Tropical Pacific Associated with Changes in El Niño. , 1998, 281, 240-243.		214
102	A Neoproterozoic Snowball Earth. , 1998, 281, 1342-1346.		2,174
103	Reconstructing past sea surface temperatures: Correcting for diagenesis of bulk marine carbonate. Geochimica Et Cosmochimica Acta, 1995, 59, 2265-2278.	1.6	241
104	Oxygen isotope exchange in a two-layer model of oceanic crust. Earth and Planetary Science Letters, 1992, 111, 305-317.	1.8	55