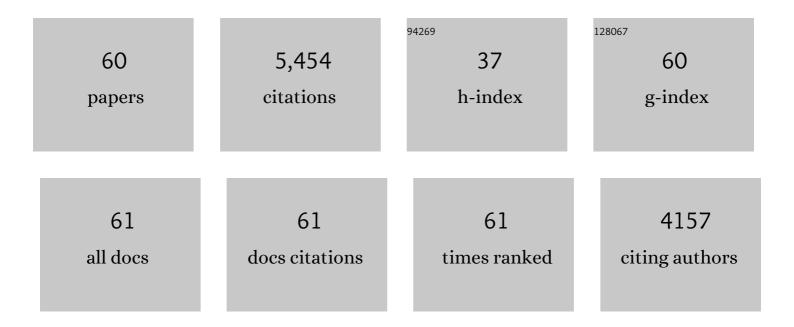
Sigurdur R Gislason

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	An experimental study of basalt–seawater–CO2 interaction at 130°C. Geochimica Et Cosmochimica Acta, 2021, 308, 21-41.	1.6	28
2	Hydrothermal and Cold Spring Water and Primary Productivity Effects on Magnesium Isotopes: Lake Myvatn, Iceland. Frontiers in Earth Science, 2020, 8, .	0.8	4
3	Experimental observations of CO2-water-basaltic glass interaction in a large column reactor experiment at 50†°C. International Journal of Greenhouse Gas Control, 2019, 89, 9-19.	2.3	18
4	Acceptance of the 2018 C.C. Patterson Award to Sigurdur R. Gislason. Geochimica Et Cosmochimica Acta, 2019, 246, 591-593.	1.6	1
5	Using stable Mg isotope signatures to assess the fate of magnesium during the in situ mineralisation of CO2 and H2S at the CarbFix site in SW-Iceland. Geochimica Et Cosmochimica Acta, 2019, 245, 542-555.	1.6	27
6	Molybdenum isotope behaviour in groundwaters and terrestrial hydrothermal systems, Iceland. Earth and Planetary Science Letters, 2018, 486, 108-118.	1.8	37
7	Reaction path modelling of in-situ mineralisation of CO2 at the CarbFix site at Hellisheidi, SW-Iceland. Geochimica Et Cosmochimica Acta, 2018, 220, 348-366.	1.6	72
8	A brief history of CarbFix: Challenges and victories of the project's pilot phase. Energy Procedia, 2018, 146, 103-114.	1.8	52
9	The geology and hydrology of the CarbFix2 site, SW-Iceland. Energy Procedia, 2018, 146, 146-157.	1.8	21
10	Olivine dissolution rates: A critical review. Chemical Geology, 2018, 500, 1-19.	1.4	114
11	The chemistry and saturation states of subsurface fluids during the in situ mineralisation of CO2 and H2S at the CarbFix site in SW-Iceland. International Journal of Greenhouse Gas Control, 2017, 58, 87-102.	2.3	93
12	Continental weathering and terrestrial (oxyhydr)oxide export: Comparing glacial and non-glacial catchments in Iceland. Chemical Geology, 2017, 462, 55-66.	1.4	13
13	Pollution from the 2014–15 Bárðarbunga eruption monitored by snow cores from the Vatnajökull glacier, Iceland. Journal of Volcanology and Geothermal Research, 2017, 347, 371-396.	0.8	6
14	Major impact of volcanic gases on the chemical composition of precipitation in Iceland during the 2014–2015 Holuhraun eruption. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1971-1982.	1.2	24
15	Rapid carbon mineralization for permanent disposal of anthropogenic carbon dioxide emissions. Science, 2016, 352, 1312-1314.	6.0	565
16	The effect of hydrothermal spring weathering processes and primary productivity on lithium isotopes: Lake Myvatn, Iceland. Chemical Geology, 2016, 445, 4-13.	1.4	62
17	CO2 Storage Potential of Basaltic Rocks Offshore Iceland. Energy Procedia, 2016, 86, 371-380.	1.8	43
18	The chemical composition of rivers and snow affected by the 2014/2015 Bárðarbunga eruption, Iceland. Journal of Volcanology and Geothermal Research, 2016, 316, 101-119.	0.8	16

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19	Solving the carbon-dioxide buoyancy challenge: The design and field testing of a dissolved CO2 injection system. International Journal of Greenhouse Gas Control, 2015, 37, 213-219.	2.3	96
20	The effect of the 2002 glacial flood on dissolved and suspended chemical fluxes in the SkaftÃ; river, Iceland. Journal of Volcanology and Geothermal Research, 2015, 301, 253-276.	0.8	8
21	Rapid solubility and mineral storage of CO2 in basalt. Energy Procedia, 2014, 63, 4561-4574.	1.8	52
22	Carbon Storage in Basalt. Science, 2014, 344, 373-374.	6.0	202
23	The role of silicate surfaces on calcite precipitation kinetics. Geochimica Et Cosmochimica Acta, 2014, 135, 231-250.	1.6	40
24	Experimental determination of plagioclase dissolution rates as a function of its composition and pH at 22°C. Geochimica Et Cosmochimica Acta, 2014, 139, 154-172.	1.6	69
25	An experimental study of basaltic glass–H2O–CO2 interaction at 22 and 50°C: Implications for subsurface storage of CO2. Geochimica Et Cosmochimica Acta, 2014, 126, 123-145.	1.6	72
26	The chemistry and element fluxes of the July 2011 MúlakvÃsl and KaldakvÃsl glacial floods, Iceland. Journal of Volcanology and Geothermal Research, 2014, 273, 41-57.	0.8	16
27	CO2 storage potential of basaltic rocks in Iceland and the oceanic ridges. Energy Procedia, 2014, 63, 4585-4600.	1.8	82
28	The geology and water chemistry of the Hellisheidi, SW-Iceland carbon storage site. International Journal of Greenhouse Gas Control, 2013, 12, 399-418.	2.3	96
29	Experimental determination of rhyolitic glass dissolution rates at 40–200°C and 2 <ph<10.1. Geochimica Et Cosmochimica Acta, 2013, 100, 251-263.</ph<10.1. 	1.6	37
30	Do carbonate precipitates affect dissolution kinetics?. Chemical Geology, 2013, 337-338, 56-66.	1.4	47
31	Does the presence of heterotrophic bacterium Pseudomonas reactans affect basaltic glass dissolution rates?. Chemical Geology, 2012, 296-297, 1-18.	1.4	30
32	Riverine particulate material dissolution in seawater and its implications for the global cycles of the elements. Comptes Rendus - Geoscience, 2012, 344, 646-651.	0.4	39
33	A field and reactive transport model study of arsenic in a basaltic rock aquifer. Applied Geochemistry, 2011, 26, 553-564.	1.4	13
34	The role of riverine particulate material on the global cycles of the elements. Applied Geochemistry, 2011, 26, S365-S369.	1.4	62
35	Dissolution of basalts and peridotite in seawater, in the presence of ligands, and CO2: Implications for mineral sequestration of carbon dioxide. Geochimica Et Cosmochimica Acta, 2011, 75, 5510-5525.	1.6	92
36	An experimental study of crystalline basalt dissolution from $2 \hat{a} \otimes \frac{1}{2} pH \hat{a} \otimes \frac{1}{2} 11$ and temperatures from 5 to 75.	°C. 1.6	158

Geochimica Et Cosmochimica Acta, 2011, 75, 5496-5509.

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37	Direct evidence of the feedback between climate and weathering. Earth and Planetary Science Letters, 2009, 277, 213-222.	1.8	310
38	Pedogenesis and weathering rates of a Histic Andosol in Iceland: Field and experimental soil solution study. Geoderma, 2008, 144, 572-592.	2.3	28
39	Regulation of Arsenic Mobility on Basaltic Glass Surfaces by Speciation and pH. Environmental Science & Technology, 2008, 42, 8816-8821.	4.6	14
40	The effect of volcanic eruptions on the chemistry of surface waters: The 1991 and 2000 eruptions of Mt. Hekla, Iceland. Journal of Volcanology and Geothermal Research, 2007, 164, 293-316.	0.8	54
41	The influence of weathering process on riverine osmium isotopes in a basaltic terrain. Earth and Planetary Science Letters, 2006, 243, 732-748.	1.8	34
42	A diverse ecosystem response to volcanic aerosols. Chemical Geology, 2006, 231, 57-66.	1.4	56
43	Trace element degassing and enrichment in the eruptive plume of the 2000 eruption of Hekla volcano, Iceland. Geochimica Et Cosmochimica Acta, 2006, 70, 461-479.	1.6	90
44	The effect of crystallinity on dissolution rates and CO2 consumption capacity of silicates. Geochimica Et Cosmochimica Acta, 2006, 70, 858-870.	1.6	178
45	The effect of soil solution chemistry on the weathering rate of a Histic Andosol. Journal of Geochemical Exploration, 2006, 88, 321-324.	1.5	9
46	Suspended basaltic glass–seawater interactions. Journal of Geochemical Exploration, 2006, 88, 332-335.	1.5	3
47	Role of river-suspended material in the global carbon cycle. Geology, 2006, 34, 49.	2.0	103
48	The impact of sampling techniques on soil pore water carbon measurements of an Icelandic Histic Andosol. Science of the Total Environment, 2006, 369, 203-219.	3.9	24
49	The erosion and suspended matter/seawater interaction during and after the 1996 outburst flood from the Vatnajökull Glacier, Iceland. Earth and Planetary Science Letters, 2005, 237, 433-452.	1.8	41
50	The effect of fluoride on the dissolution rates of natural glasses at pH 4 and 25°C. Geochimica Et Cosmochimica Acta, 2004, 68, 4571-4582.	1.6	96
51	The dissolution rates of natural glasses as a function of their composition at pH 4 and 10.6, and temperatures from 25 to 74°C. Geochimica Et Cosmochimica Acta, 2004, 68, 4843-4858.	1.6	321
52	Mechanism, rates, and consequences of basaltic glass dissolution: II. An experimental study of the dissolution rates of basaltic glass as a function of pH and temperature. Geochimica Et Cosmochimica Acta, 2003, 67, 3817-3832.	1.6	390
53	The mechanism, rates and consequences of basaltic glass dissolution: I. An experimental study of the dissolution rates of basaltic glass as a function of aqueous Al, Si and oxalic acid concentration at 25°C and pH = 3 and 11. Geochimica Et Cosmochimica Acta, 2001, 65, 3671-3681.	1.6	408
54	Seafloor weathering controls on atmospheric CO2 and global climate. Geochimica Et Cosmochimica Acta, 1997, 61, 965-973.	1.6	157

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55	Kinetic and thermodynamic properties of moganite, a novel silica polymorph. Geochimica Et Cosmochimica Acta, 1997, 61, 1193-1204.	1.6	92
56	Dissolution of primary basaltic minerals in natural waters: saturation state and kinetics. Chemical Geology, 1993, 105, 117-135.	1.4	117
57	Experimental meteoric water-basalt interactions: Characterization and interpretation of alteration products. Geochimica Et Cosmochimica Acta, 1993, 57, 1459-1471.	1.6	49
58	The 1991 eruption of Hekla, Iceland. Bulletin of Volcanology, 1992, 54, 238-246.	1.1	127
59	Meteoric water-basalt interactions. I: A laboratory study. Geochimica Et Cosmochimica Acta, 1987, 51, 2827-2840.	1.6	207
60	Meteoric water-basalt interactions. II: A field study in N.E. Iceland. Geochimica Et Cosmochimica Acta, 1987, 51, 2841-2855.	1.6	134