Andri Stefansson

List of Publications by Year
in descending order

73 papers	3,699 citations	136950 32 h-index	128289 60 g-index
73 all docs	73 docs citations	73 times ranked	3648 citing authors

#	Article	IF	Citations
1	Sulfate (re-)cycling in the oceanic crust: Effects of seawater-rock interaction, sulfur reduction and temperature on the abundance and isotope composition of anhydrite. Geochimica Et Cosmochimica Acta, 2022, 317, 65-90.	3.9	9
2	Equilibrium and kinetic controls on molecular hydrogen abundance and hydrogen isotope fractionation in hydrothermal fluids. Earth and Planetary Science Letters, 2022, 579, 117338.	4.4	12
3	A pre-injection assessment of CO2 and H2S mineralization reactions at the Nesjavellir (Iceland) geothermal storage site. International Journal of Greenhouse Gas Control, 2022, 115, 103610.	4.6	11
4	High temperature generation and equilibration of methane in terrestrial geothermal systems: Evidence from clumped isotopologues. Geochimica Et Cosmochimica Acta, 2021, 309, 209-234.	3.9	17
5	Source controls on sulfur abundance and isotope fractionation in hydrothermal fluids in the Olkaria geothermal field, Kenya. Chemical Geology, 2021, 582, 120446.	3.3	7
6	H2S sequestration traced by sulfur isotopes at HellisheiÃ°i geothermal system, Iceland. Geothermics, 2020, 83, 101730.	3.4	0
7	The Surtsey volcano geothermal system: An analogue for seawater-oceanic crust interaction with implications for the elemental budget of the oceanic crust. Chemical Geology, 2020, 550, 119702.	3.3	11
8	Corrosion testing of materials in simulated superheated geothermal environment. Corrosion Science, 2020, 168, 108584.	6.6	12
9	Relative Abundance of Thiolated Species of As, Mo, W, and Sb in Hot Springs of Yellowstone National Park and Iceland. Environmental Science & Technology, 2020, 54, 4295-4304.	10.0	23
10	Volcanic and Geothermal Redox Engines. Elements, 2020, 16, 179-184.	0.5	16
11	Geochemical constraints on supercritical fluids in geothermal systems. Journal of Volcanology and Geothermal Research, 2020, 394, 106824.	2.1	14
12	Assessing the sources of inorganic carbon in surface-, soil- and non-thermal groundwater in Iceland by Î´13C and 14C. Geochimica Et Cosmochimica Acta, 2020, 279, 165-188.	3.9	7
13	Fluids in Geothermal Systems. Elements, 2020, 16, 407-411.	0.5	20
14	Isotope (Î´D, Î´18O, 3H, Î´13C, 14C) and chemical (B, Cl) Constrains on water origin, mixing, water-rock interaction and age of low-temperature geothermal water. Applied Geochemistry, 2019, 108, 104380.	3.0	30
15	Iron(III) chloride complexation in hydrothermal solutions: A combined spectrophotometric and density functional theory study. Chemical Geology, 2019, 524, 77-87.	3.3	13
16	O, H and C isotopic systematics of Icelandic groundwater. E3S Web of Conferences, 2019, 98, 07031.	0.5	0
17	Supercritical Fluid Geochemistry in Geothermal Systems. Geofluids, 2019, 2019, 1-14.	0.7	6
18	Supercritical fluids around magmatic intrusions: IDDP-1 at Krafla, Iceland. Geothermics, 2019, 78, 101-110.	3.4	20

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19	H2S sequestration process and sustainability in geothermal systems. Geothermics, 2018, 71, 156-166.	3.4	13
20	Tracing olivine carbonation and serpentinization in CO2-rich fluids via magnesium exchange and isotopic fractionation. Geochimica Et Cosmochimica Acta, 2018, 243, 133-148.	3.9	9
21	Towards â€˜greenâ€™ geothermal energy: Co-mineralization of carbon and sulfur in geothermal reservoirs. International Journal of Greenhouse Gas Control, 2018, 77, 96-105.	4.6	17
22	Ground-Based Measurements of the 2014â€“2015 Holuhraun Volcanic Cloud (Iceland). Geosciences (Switzerland), 2018, 8, 29.	2.2	35
23	Isotope systematics of Icelandic thermal fluids. Journal of Volcanology and Geothermal Research, 2017, 337, 146-164.	2.1	47
24	Sulfur isotopes in Icelandic thermal fluids. Journal of Volcanology and Geothermal Research, 2017, 346, 161-179.	2.1	23
25	Mineral dissolution in porous media: An experimental and modeling study on kinetics, porosity and surface area evolution. Applied Geochemistry, 2017, 87, 57-70.	3.0	27
26	Gas chemistry of Icelandic thermal fluids. Journal of Volcanology and Geothermal Research, 2017, 346, 81-94.	2.1	21
27	Geochemistry and speciation of Fe(II) and Fe(III) in natural geothermal water, Iceland. Applied Geochemistry, 2017, 87, 146-157.	3.0	4
28	Pollution from the 2014â€“15 BÃ¡rÃ°arbunga eruption monitored by snow cores from the VatnajÃ¶kull glacier, Iceland. Journal of Volcanology and Geothermal Research, 2017, 347, 371-396.	2.1	6
29	Magnesium bicarbonate and carbonate interactions in aqueous solutions: An infrared spectroscopic and quantum chemical study. Geochimica Et Cosmochimica Acta, 2017, 198, 271-284.	3.9	19
30	Major impact of volcanic gases on the chemical composition of precipitation in Iceland during the 2014â€“2015 Holuhraun eruption. Journal of Geophysical Research D: Atmospheres, 2017, 122, 1971-1982.	3.3	24
31	Chlorine isotope geochemistry of Icelandic thermal fluids: Implications for geothermal system behavior at divergent plate boundaries. Earth and Planetary Science Letters, 2016, 449, 69-78.	4.4	20
32	Determination of Fe(II), Fe(III) and Fe_{total} in thermal water by ion chromatography spectrophotometry (IC-Vis). International Journal of Environmental Analytical Chemistry, 2016, 96, 1074-1090.	3.3	18
33	Mantle CO2 degassing through the Icelandic crust: Evidence from carbon isotopes in groundwater. Geochimica Et Cosmochimica Acta, 2016, 191, 300-319.	3.9	25
34	Subducted lithosphere controls halogen enrichments in the Iceland mantle plume source. Geology, 2016, 44, 679-682.	4.4	32
35	Quantifying mixing, boiling, degassing, oxidation and reactivity of thermal waters at Vonarskard, Iceland. Journal of Volcanology and Geothermal Research, 2016, 309, 53-62.	2.1	12
36	Silicon isotope fractionation during silica precipitation from hot-spring waters: Evidence from the Geysir geothermal field, Iceland. Geochimica Et Cosmochimica Acta, 2015, 164, 403-427.	3.9	55

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37	Multiple sulfur isotope systematics of Icelandic geothermal fluids and the source and reactions of sulfur in volcanic geothermal systems at divergent plate boundaries. Geochimica Et Cosmochimica Acta, 2015, 165, 307-323.	3.9	32
38	The geochemistry of trace elements in geothermal fluids, Iceland. Applied Geochemistry, 2015, 62, 207-223.	3.0	57
39	Surface water chemistry at TorfajÃ¶kull, Icelandâ€"Quantification of boiling, mixing, oxidation and waterâ€“rock interaction and reconstruction of reservoir fluid composition. Geothermics, 2015, 58, 75-86.	3.4	12
40	Chromium geochemistry and speciation in natural waters, Iceland. Applied Geochemistry, 2015, 62, 200-206.	3.0	16
41	CO2 mineralization by olivine at hydrothermal conditions. Mineralogical Magazine, 2014, 78, 1473-1477.	1.4	0
42	Determination of arsenic speciation in sulfidic waters by Ion Chromatography Hydride-Generation Atomic Fluorescence Spectrometry (IC-HG-AFS). Talanta, 2014, 128, 466-472.	5.5	31
43	Arsenic speciation in natural sulfidic geothermal waters. Geochimica Et Cosmochimica Acta, 2014, 142, 15-26.	3.9	40
44	Gas chemistry, boiling and phase segregation in a geothermal system, Hellisheidi, Iceland. Geochimica Et Cosmochimica Acta, 2014, 124, 170-189.	3.9	32
45	Potentiometric and spectrophotometric study of the stability of magnesium carbonate and bicarbonate ion pairs to 150Â°C and aqueous inorganic carbon speciation and magnesite solubility. Geochimica Et Cosmochimica Acta, 2014, 138, 21-31.	3.9	39
46	Microbial communities in the subglacial waters of the VatnajÃ¶kull ice cap, Iceland. ISME Journal, 2013, 7, 427-437.	9.8	60
47	Carbonic acid ionization and the stability of sodium bicarbonate and carbonate ion pairs to 200Â°C â€“ A potentiometric and spectrophotometric study. Geochimica Et Cosmochimica Acta, 2013, 120, 600-611.	3.9	59
48	The chemistry of trace elements in surface geothermal waters and steam, Iceland. Chemical Geology, 2012, 330-331, 60-85.	3.3	117
49	Experiments and geochemical modeling of CO2 sequestration during hydrothermal basalt alteration. Chemical Geology, 2012, 306-307, 10-28.	3.3	68
50	Mineralogical aspects of CO2 sequestration during hydrothermal basalt alteration â€" An experimental study at 75 to 250Â°C and elevated pCO2. Chemical Geology, 2012, 306-307, 146-159.	3.3	79
51	CO2-waterâ€“basalt interaction. Low temperature experiments and implications for CO2 sequestration into basalts. Geochimica Et Cosmochimica Acta, 2012, 81, 129-152.	3.9	118
52	Sulfur speciation in natural hydrothermal waters, Iceland. Geochimica Et Cosmochimica Acta, 2011, 75, 2777-2791.	3.9	50
53	CO2â€“waterâ€“basalt interaction. Numerical simulation of low temperature CO2 sequestration into basalts. Geochimica Et Cosmochimica Acta, 2011, 75, 4728-4751.	3.9	97
54	Chemical analysis of sulfur species in geothermal waters. Talanta, 2011, 85, 1897-1903.	5.5	16

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55	The geochemistry and sequestration of H2S into the geothermal system at Hellisheidi, Iceland. Journal of Volcanology and Geothermal Research, 2011, 202, 179-188.	2.1	39
56	Geothermal surface alteration of basalts, KrÃ½suvÃk Icelandâ€"Alteration mineralogy, water chemistry and the effects of acid supply on the alteration process. Journal of Volcanology and Geothermal Research, 2011, 206, 46-59.	2.1	44
57	Mineral sequestration of carbon dioxide in basalt: A pre-injection overview of the CarbFix project. International Journal of Greenhouse Gas Control, 2010, 4, 537-545.	4.6	294
58	An oligarchic microbial assemblage in the anoxic bottom waters of a volcanic subglacial lake. ISME Journal, 2009, 3, 486-497.	9.8	79
59	Inâ€situ grown silica sinters in Icelandic geothermal areas. Geobiology, 2008, 6, 481-502.	2.4	65
60	A spectrophotometric study of iron(III) hydrolysis in aqueous solutions to 200ÂÂ°C. Chemical Geology, 2008, 249, 227-235.	3.3	35
61	A simple sampler for subglacial water bodies. Journal of Glaciology, 2007, 53, 157-158.	2.2	7
62	Chemical weathering of volcanic rocks at the island of Pantelleria, Italy: Information from soil profile and soil solution investigations. Chemical Geology, 2007, 246, 1-18.	3.3	40
63	Circulation and thermodynamics in a subglacial geothermal lake under the Western SkaftÃ¡ cauldron of the VatnajÃ¶kull ice cap, Iceland. Geophysical Research Letters, 2007, 34, .	4.0	20
64	Iron(III) Hydrolysis and Solubility at 25 Â°C. Environmental Science & Technology, 2007, 41, 6117-6123.	10.0	363
65	New methods for the direct determination of dissolved inorganic, organic and total carbon in natural waters by Reagent-Freeâ„¢ Ion Chromatography and inductively coupled plasma atomic emission spectrometry. Analytica Chimica Acta, 2007, 582, 69-74.	5.4	95
66	Redox reactions and potentials in natural waters at disequilibrium. Chemical Geology, 2005, 221, 289-311.	3.3	79
67	Gold(I) complexing in aqueous sulphide solutions to 500Â°C at 500 bar. Geochimica Et Cosmochimica Acta, 2004, 68, 4121-4143.	3.9	267
68	Magmatic vapor contraction and the transport of gold from the porphyry environment to epithermal ore deposits. Geology, 2004, 32, 761.	4.4	275
69	Major element chemistry of surface- and ground waters in basaltic terrain, N-Iceland.. Geochimica Et Cosmochimica Acta, 2002, 66, 4015-4046.	3.9	64
70	Gas pressures and redox reactions in geothermal fluids in Iceland. Chemical Geology, 2002, 190, 251-271.	3.3	76
71	Dissolution of primary minerals in natural waters. Chemical Geology, 2001, 172, 251-276.	3.3	83
72	Dissolution of primary minerals of basalt in natural waters. Chemical Geology, 2001, 172, 225-250.	3.3	119

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73	Feldspar saturation state in natural waters. Geochimica Et Cosmochimica Acta, 2000, 64, 2567-2584.	3.9	97