

Keisuke Fukushi

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

2,360
citations

201674

27
h-index

214800

47
g-index

72
all docs

72
docs citations

72
times ranked

2540
citing authors

#	ARTICLE	IF	CITATIONS
1	Reconstruction of pH, redox condition, and concentrations of major components in ancient liquid water from the Karasburg member, Murray formation, Gale Crater, Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 325, 129-151.	3.9	4
2	Characteristics of Lake Sediment from Southwestern Mongolia and Comparison with Meteorological Data. <i>Geosciences (Switzerland)</i> , 2022, 12, 7.	2.2	4
3	Arsenic and uranium contamination of Orog Lake in the Valley of Gobi Lakes, Mongolia: Field evidence of conservative accumulation of U in an alkaline, closed-basin lake during evaporation. <i>Journal of Hazardous Materials</i> , 2022, 436, 129017.	12.4	10
4	Seasonal Variation and Vertical Distribution of Inorganic Nutrients in a Small Artificial Lake, Lake Bulan, in Mongolia. <i>Water (Switzerland)</i> , 2022, 14, 1916.	2.7	1
5	Characterization of groundwater chemistry beneath Gale Crater on early Mars by hydrothermal experiments. <i>Icarus</i> , 2022, 386, 115149.	2.5	0
6	Mo Contamination in Rivers near the Erdenet Mining Area, Mongolia: Field Evidence of High Mobility of Mo at pH >8. <i>ACS ES&T Water</i> , 2021, 1, 1686-1694.	4.6	2
7	Parameterization of adsorption onto minerals by Extended Triple Layer Model. <i>Applied Geochemistry</i> , 2021, 134, 105087.	3.0	4
8	Field Investigations of Chemical Partitioning and Aqueous Chemistry of Freezing Closed-Basin Lakes in Mongolia as Analogs of Subsurface Brines on Icy Bodies. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006972.	3.6	2
9	Anaerobic Microscopic Analysis of Ferrous Saponite and Its Sensitivity to Oxidation by Earth's Air: Lessons Learned for Analysis of Returned Samples from Mars and Carbonaceous Asteroids. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1244.	2.0	4
10	A Robust Model for Prediction of U(VI) Adsorption onto Ferrihydrite Consistent with Spectroscopic Observations. <i>Environmental Science & Technology</i> , 2020, 54, 2304-2313.	10.0	25
11	Ecological and Human Health Risk Assessment of Heavy Metal Pollution in the Soil of the Ger District in Ulaanbaatar, Mongolia. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4668.	2.6	14
12	In Situ Formation of Monohydrocalcite in Alkaline Saline Lakes of the Valley of Gobi Lakes: Prediction for Mg, Ca, and Total Dissolved Carbonate Concentrations in Enceladus Ocean and Alkaline-Carbonate Ocean Worlds. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 669.	2.0	12
13	Rare earth element distributions in rivers and sediments from the Erdenet Cu-Mo mining area, Mongolia. <i>Applied Geochemistry</i> , 2020, 123, 104800.	3.0	13
14	Hydrogeochemical Study on Closed-Basin Lakes in Cold and Semi-Arid Climates of the Valley of the Gobi Lakes, Mongolia: Implications for Hydrology and Water Chemistry of Paleolakes on Mars. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 792.	2.0	11
15	Comparison of Chemical Speciation of Lead, Arsenic, and Cadmium in Contaminated Soils from a Historical Mining Site: Implications for Different Mobilities of Heavy Metals. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 1064-1077.	2.7	23
16	Simple, Reproducible Synthesis of Pure Monohydrocalcite with Low Mg Content. <i>Minerals (Basel)</i> , 2020, 10, 1077.	2.0	10
17	Semiarid climate and hyposaline lake on early Mars inferred from reconstructed water chemistry at Gale. <i>Nature Communications</i> , 2019, 10, 4896.	12.8	49
18	Highly Oxidizing Aqueous Environments on Early Mars Inferred From Scavenging Pattern of Trace Metals on Manganese Oxides. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1282-1295.	3.6	19

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19	Superior removal of selenite by periclase during transformation to brucite under high-pH conditions. <i>Journal of Hazardous Materials</i> , 2019, 371, 370-380.	12.4	11
20	Amorphous Silica-Promoted Lysine Dimerization: a Thermodynamic Prediction. <i>Origins of Life and Evolution of Biospheres</i> , 2018, 48, 23-34.	1.9	12
21	Structure of calcite aqueous NaCl solution interfaces from ambient to elevated temperatures. <i>Journal of Mineralogical and Petrological Sciences</i> , 2018, 113, 232-244.	0.9	1
22	Distribution and Chemical Speciation of Molybdenum in River and Pond Sediments Affected by Mining Activity in Erdenet City, Mongolia. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 288.	2.0	20
23	Control of Water Chemistry in Alkaline Lakes: Solubility of Monohydrocalcite and Amorphous Magnesium Carbonate in CaCl_2 - MgCl_2 - Na_2CO_3 Solutions. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 735-744.	2.7	28
24	Magnetic measurements of roadside topsoil pollution in an active volcanic region: Mt. Hakusan, Japan. <i>Water and Environment Journal</i> , 2018, 32, 556-565.	2.2	0
25	Speciation of magnesium in monohydrocalcite: XANES, ab initio and geochemical modeling. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 213, 457-474.	3.9	19
26	Glycine Polymerization on Oxide Minerals. <i>Origins of Life and Evolution of Biospheres</i> , 2017, 47, 123-143.	1.9	36
27	Modelling Sorption Processes of Trace Elements by Earth Surface Materials. <i>Journal of Geography (Chigaku Zasshi)</i> , 2017, 126, 325-341.	0.3	4
28	Overview of the Special Issue "Rock Weathering from Nanoscale to Global Scale: 1. Microscopic Weathering and Basic Studies". <i>Journal of Geography (Chigaku Zasshi)</i> , 2017, 126, 263-265.	0.3	1
29	Overview of the Special Issue "Rock Weathering from Nanoscale to Global Scale: 2. Macroscopic Weathering and Applied Studies". <i>Journal of Geography (Chigaku Zasshi)</i> , 2017, 126, 407-408.	0.3	0
30	Introduction to the Special Issue "Rock Weathering from Nanoscale to Global Scale: 2. Macroscopic Weathering and Applied Studies". <i>Journal of Geography (Chigaku Zasshi)</i> , 2017, 126, 409-411.	0.3	0
31	High-temperature hydrothermal activities around suboceanic Moho: An example from diopside and anorthosite in Wadi Fizh, Oman ophiolite. <i>Lithos</i> , 2016, 263, 66-87.	1.4	17
32	Predictive model for Pb(II) adsorption on soil minerals (oxides and low-crystalline aluminum silicate) consistent with spectroscopic evidence. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 190, 134-155.	3.9	16
33	Arsenate sorption on monohydrocalcite by coprecipitation during transformation to aragonite. <i>Journal of Hazardous Materials</i> , 2016, 304, 110-117.	12.4	13
34	Centennial-Scale Environmental Changes in Terhiin Tsagaan Lake, Mongolia Inferred from Lacustrine Sediment: Preliminary Results. , 2015, , 25-44.		3
35	Prediction of Intrinsic Cesium Desorption from Na-Smectite in Mixed Cation Solutions. <i>Environmental Science & Technology</i> , 2015, 49, 10398-10405.	10.0	11
36	Palaeohydrological and Palaeoenvironmental Fluctuations of the Historic Eurimji Lake. , 2015, , 143-161.		1

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37	Salinity dependence of ²²⁶ Ra adsorption on montmorillonite and kaolinite. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2014, 299, 569-575.	1.5	17
38	Effects of Ions on the OH Stretching Band of Water as Revealed by ATR-IR Spectroscopy. <i>Journal of Solution Chemistry</i> , 2014, 43, 1055-1077.	1.2	76
39	Desorption of Intrinsic Cesium from Smectite: Inhibitive Effects of Clay Particle Organization on Cesium Desorption. <i>Environmental Science & Technology</i> , 2014, 48, 10743-10749.	10.0	40
40	Redistribution of Pb during transformation of monohydrocalcite to aragonite. <i>Chemical Geology</i> , 2014, 387, 133-143.	3.3	12
41	Surface complexation modeling for sulfate adsorption on ferrihydrite consistent with in situ infrared spectroscopic observations. <i>Applied Geochemistry</i> , 2013, 36, 92-103.	3.0	50
42	Arsenic(III, V) adsorption on a goethite-based adsorbent in the presence of major co-existing ions: Modeling competitive adsorption consistent with spectroscopic and molecular evidence. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 106, 404-428.	3.9	147
43	Carbon isotope stratigraphy and depositional oxia through Cenomanian/Turonian boundary sequences (Upper Cretaceous) in New Zealand. <i>Cretaceous Research</i> , 2013, 40, 61-80.	1.4	31
44	Formation condition of monohydrocalcite from CaCl ₂ -MgCl ₂ -Na ₂ CO ₃ solutions. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 100, 217-231.	3.9	67
45	Sorption of Eu(III) on Granite: EPMA, LA-ICP-MS, Batch and Modeling Studies. <i>Environmental Science & Technology</i> , 2013, 47, 12811-12818.	10.0	29
46	Distribution and mineralogy of radioactive Cs in reservoir sediment contaminated by the Fukushima nuclear accident. <i>Journal of Mineralogical and Petrological Sciences</i> , 2013, 109, 23-27.	0.9	9
47	Export of ¹³⁴ Cs and ¹³⁷ Cs in the Fukushima river systems at heavy rains by Typhoon Roke in September 2011. <i>Biogeosciences</i> , 2013, 10, 6215-6223.	3.3	139
48	Thermoluminescence color image analysis of sediments from Lake Khuvsgul, Mongolia, and its potential to investigate paleoenvironmental change. <i>Quaternary Geochronology</i> , 2012, 10, 156-159.	1.4	0
49	Individual and combined effects of water quality and empty bed contact time on As(V) removal by a fixed-bed iron oxide adsorber: Implication for silicate pre-coating. <i>Water Research</i> , 2012, 46, 5061-5070.	11.3	36
50	Chemical overprinting of magmatism by weathering: A practical method for evaluating the degree of chemical weathering of granitoids. <i>Applied Geochemistry</i> , 2012, 27, 796-805.	3.0	17
51	Removal of phosphate from solution by adsorption and precipitation of calcium phosphate onto monohydrocalcite. <i>Journal of Colloid and Interface Science</i> , 2012, 384, 128-136.	9.4	71
52	Synthesis of Nano-sized Boehmites for Optimum Phosphate Sorption. <i>Separation Science and Technology</i> , 2011, 46, 818-824.	2.5	16
53	Monohydrocalcite: a promising remediation material for hazardous anions. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 064702.	6.1	45
54	Quantification of the Effects of Organic and Carbonate Buffers on Arsenate and Phosphate Adsorption on a Goethite-Based Granular Porous Adsorbent. <i>Environmental Science & Technology</i> , 2011, 45, 561-568.	10.0	30

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55	Phosphate sorption on monohydrocalcite. <i>Journal of Mineralogical and Petrological Sciences</i> , 2011, 106, 109-113.	0.9	14
56	Studies of adsorption of anionic species on minerals. <i>Ganseki Kobutsu Kagaku</i> , 2010, 39, 19-25.	0.1	0
57	Prediction of iodate adsorption and surface speciation on oxides by surface complexation modeling. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6000-6013.	3.9	50
58	Iron ²⁺ -bentonite interactions in the Kawasaki bentonite deposit, Zao area, Japan. <i>Applied Geochemistry</i> , 2010, 25, 1120-1132.	3.0	10
59	Extended Triple Layer Modeling of Arsenate and Phosphate Adsorption on a Goethite-based Granular Porous Adsorbent. <i>Environmental Science & Technology</i> , 2010, 44, 3388-3394.	10.0	42
60	Prediction of iodide adsorption on oxides by surface complexation modeling with spectroscopic confirmation. <i>Journal of Colloid and Interface Science</i> , 2009, 332, 309-316.	9.4	59
61	Transformation kinetics of monohydrocalcite to aragonite in aqueous solutions. <i>Journal of Mineralogical and Petrological Sciences</i> , 2008, 103, 345-349.	0.9	50
62	Natural attenuation of antimony in mine drainage water. <i>Geochemical Journal</i> , 2007, 41, 17-27.	1.0	31
63	A surface complexation model for sulfate and selenate on iron oxides consistent with spectroscopic and theoretical molecular evidence. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1-24.	3.9	114
64	A predictive model (ETLM) for arsenate adsorption and surface speciation on oxides consistent with spectroscopic and theoretical molecular evidence. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3717-3745.	3.9	87
65	Environmental Behavior and Management of Hazardous Inorganic Anions in Nature. <i>Journal of MMIJ</i> , 2007, 123, 132-144.	0.3	9
66	Anion Adsorption on Oxide Surfaces: Inclusion of the Water Dipole in Modeling the Electrostatics of Ligand Exchange. <i>Environmental Science & Technology</i> , 2006, 40, 263-271.	10.0	102
67	A predictive model (ETLM) for As(III) adsorption and surface speciation on oxides consistent with spectroscopic data. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3778-3802.	3.9	102
68	Using a Surface Complexation Model To Predict the Nature and Stability of Nanoparticles. <i>Environmental Science & Technology</i> , 2005, 39, 1250-1256.	10.0	57
69	Arsenate sorption on schwertmannite. <i>American Mineralogist</i> , 2004, 89, 1728-1734.	1.9	85
70	A natural attenuation of arsenic in drainage from an abandoned arsenic mine dump. <i>Applied Geochemistry</i> , 2003, 18, 1267-1278.	3.0	230
71	Solid-Solution Reactions in As(V) Sorption by Schwertmannite. <i>Environmental Science & Technology</i> , 2003, 37, 3581-3586.	10.0	87