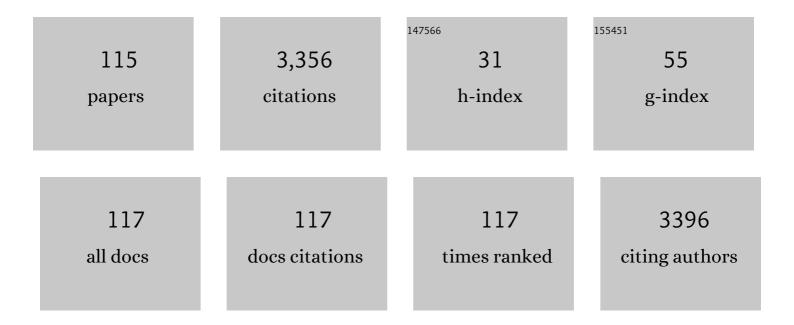
Tsutomu Sato

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Seasonal effects of natural attenuation on drainage contamination from artisanal gold mining, Cambodia: Implication for passive treatment. Science of the Total Environment, 2022, 806, 150398.	3.9	7
2	Mineralogical evolution of a weathering profile in the Tagaung Taung Ni laterite deposit: significance of smectite in the formation of high-grade Ni ore in Myanmar. Mineralium Deposita, 2022, 57, 1107-1122.	1.7	4
3	Adsorption behaviour of simulant radionuclide cations and anions in metakaolin-based geopolymer. Journal of Hazardous Materials, 2022, 429, 128373.	6.5	35
4	Alkaline Leaching and Concurrent Cementation of Dissolved Pb and Zn from Zinc Plant Leach Residues. Minerals (Basel, Switzerland), 2022, 12, 393.	0.8	5
5	Impacts of Surface Water on Windborne Lead Dispersion from the Zinc Plant Leach Residue in Kabwe, Zambia. Minerals (Basel, Switzerland), 2022, 12, 535.	0.8	2
6	Permeability Change in Macro-Fractured Granite Using Water Including Clay. Journal of MMIJ, 2022, 138, 44-50.	0.4	1
7	Large Fe isotope fractionations in sulfide ores and ferruginous sedimentary rocks from the Kuroko volcanogenic massive sulfide deposits in the Hokuroku district, northeast Japan. Geochimica Et Cosmochimica Acta, 2021, 295, 49-64.	1.6	5
8	Geochemical constraints on the mobilization of Ni and critical metals in laterite deposits, Sulawesi, Indonesia: A massâ€balance approach. Resource Geology, 2021, 71, 255-282.	0.3	11
9	Geochemical behaviour of heavy metals in sludge effluents and solid deposits on the Zambian Copperbelt: Implication for effluent treatment and sludge reuse. Science of the Total Environment, 2021, 769, 144342.	3.9	2
10	The formation of Fe colloids and layered double hydroxides as sequestration agents in the natural remediation of mine drainage. Science of the Total Environment, 2021, 774, 145183.	3.9	13
11	Evaluation of Dispersion of Lead-Bearing Mine Wastes in Kabwe District, Zambia. Minerals (Basel,) Tj ETQq1 1 0.7	784314 rg 0.8	BT/Overlock
12	Solid-Phase Partitioning and Leaching Behavior of Pb and Zn from Playground Soils in Kabwe, Zambia. Toxics, 2021, 9, 248.	1.6	9
13	In Situ EXAFS Study of Sr Adsorption on TiO2(110) under High Ionic Strength Wastewater Conditions. Minerals (Basel, Switzerland), 2021, 11, 1386.	0.8	2
14	Stiffness and strength mobilisation in steel-slag-mixed dredged clays in early curing. Proceedings of the Institution of Civil Engineers: Ground Improvement, 2020, 173, 65-81.	0.7	4
15	Cellulose-metallothionein biosorbent for removal of Pb(II) and Zn(II) from polluted water. Chemosphere, 2020, 246, 125733.	4.2	38
16	Biosorption of Pb (II) and Zn (II) from aqueous solution by Oceanobacillus profundus isolated from an abandoned mine. Scientific Reports, 2020, 10, 21189.	1.6	56
17	Immobilization of Lead and Zinc Leached from Mining Residual Materials in Kabwe, Zambia: Possibility of Chemical Immobilization by Dolomite, Calcined Dolomite, and Magnesium Oxide. Minerals (Basel,) Tj ETQq1 1	0.084314	⊦rg£2T /Oved
18	Formation of Natural Silicate Hydrates by the Interaction of Alkaline Seepage and Sediments Derived from Serpentinized Ultramafic Rocks at Narra, Palawan, the Philippines. Minerals (Basel, Switzerland), 2020, 10, 719.	0.8	4

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19	Effect of Soil Organic Matters in Dredged Soils to Utilization of their Mixtures Made with a Steel Slag. Materials, 2020, 13, 5450.	1.3	6
20	Encapsulation of Sr-loaded titanate spent adsorbents in potassium aluminosilicate geopolymer. Journal of Nuclear Science and Technology, 2020, 57, 1181-1188.	0.7	12
21	Geochemical characteristics of ores and surface waters for environmental risk assessment in the Pinpet iron deposit, southern Shan State, Myanmar. Resource Geology, 2020, 70, 296-308.	0.3	5
22	Detoxification of lead-bearing zinc plant leach residues from Kabwe, Zambia by coupled extraction-cementation method. Journal of Environmental Chemical Engineering, 2020, 8, 104197.	3.3	49
23	Recovery of Lead and Zinc from Zinc Plant Leach Residues by Concurrent Dissolution-Cementation Using Zero-Valent Aluminum in Chloride Medium. Metals, 2020, 10, 531.	1.0	43
24	Alkali aluminosilicate geopolymers as binders to encapsulate strontium-selective titanate ion-exchangers. Dalton Transactions, 2019, 48, 12116-12126.	1.6	25
25	Magmatic-Hydrothermal Processes Associated with Rare Earth Element Enrichment in the Kangankunde Carbonatite Complex, Malawi. Minerals (Basel, Switzerland), 2019, 9, 442.	0.8	15
26	Solidification of sand by Pb(II)-tolerant bacteria for capping mine waste to control metallic dust: Case of the abandoned Kabwe Mine, Zambia. Chemosphere, 2019, 228, 17-25.	4.2	27
27	Efficacy of biocementation of lead mine waste from the Kabwe Mine site evaluated using Pararhodobacter sp Environmental Science and Pollution Research, 2019, 26, 15653-15664.	2.7	22
28	XAFS study of Sb and As in Cretaceous–Tertiary boundary sediments: an index of soiling of the global environment with dust and ashes from impact ejecta falls. Journal of Mineralogical and Petrological Sciences, 2019, 114, 224-230.	0.4	1
29	Radiocesium distribution in aggregate-size fractions of cropland and forest soils affected by the Fukushima nuclear accident. Chemosphere, 2018, 205, 147-155.	4.2	22
30	Comparison of strontium retardation for kaolinite, illite, vermiculite and allophane. Journal of Radioanalytical and Nuclear Chemistry, 2018, 317, 409-419.	0.7	9
31	Mechanisms of Se(IV) Co-precipitation with Ferrihydrite at Acidic and Alkaline Conditions and Its Behavior during Aging. Environmental Science & Technology, 2018, 52, 4817-4826.	4.6	69
32	Dissolution Behavior of Lead Borate Glass under Simulated Geological Disposal Conditions. MRS Advances, 2018, 3, 1139-1145.	0.5	2
33	Permeability of Granite Including Macro-Fracture Naturally Filled with Fine-Grained Minerals. Pure and Applied Geophysics, 2018, 175, 917-927.	0.8	21
34	Fulvic acid anchored layered double hydroxides: A multifunctional composite adsorbent for the removal of anionic dye and toxic metal. Journal of Hazardous Materials, 2018, 343, 19-28.	6.5	65
35	Application of Transient Pulse Method to Permeability Measurement for Clay. Zairyo/Journal of the Society of Materials Science, Japan, 2018, 67, 318-323.	0.1	3
36	Effect of Dissolved Silica on Immobilization of Boron by Magnesium Oxide. Minerals (Basel,) Tj ETQq0 0 0 rgB	[/Overlgck]	10 Tf 50 62 Tc

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#	Article	lF	CITATIONS
37	Dissolved Silica Effects on Adsorption and Co-Precipitation of Sb(III) and Sb(V) with Ferrihydrite. Minerals (Basel, Switzerland), 2018, 8, 101.	0.8	16
38	Formation of Fe- and Mg-Rich Smectite under Hyperalkaline Conditions at Narra in Palawan, the Philippines. Minerals (Basel, Switzerland), 2018, 8, 155.	0.8	11
39	Key Factors Affecting Strength Development of Steel Slag-Dredged Soil Mixtures. Minerals (Basel,) Tj ETQq1 1	0.784314 r 0.8	gBT_/Overloci
40	Application of the Transient Pulse Method to Measure Clay Permeability. Materials Transactions, 2018, 59, 1427-1432.	0.4	8
41	A novel method for remediation of nickel containing wastewater at neutral conditions. Journal of Hazardous Materials, 2017, 329, 49-56.	6.5	12
42	Strontium adsorption and penetration in kaolinite at low Sr ²⁺ concentration. Soil Science and Plant Nutrition, 2017, 63, 14-17.	0.8	12
43	Geochemical signatures and processes in a stream contaminated by heavy mineral processing near Ipoh city, Malaysia. Applied Geochemistry, 2017, 82, 89-101.	1.4	15
44	8. Applied mineralogy for recovery from the accident of Fukushima Daiichi Nuclear Power Station. , 2017, , 153-170.		0
45	Effect of Flowing Water on Sr Sorption Changes of Hydrous Sodium Titanate. Minerals (Basel,) Tj ETQq1 1 0.7	84314 rgBT 0.8	/Oyerlock 10
46	Geochemical fractionation and risk assessment of copper in urban soil, Yogyakarta city, Indonesia. AIP Conference Proceedings, 2016, , .	0.3	0
47	Structure of nanocrystalline calcium silicate hydrates: insights from X-ray diffraction, synchrotron X-ray absorption and nuclear magnetic resonance. Journal of Applied Crystallography, 2016, 49, 771-783.	1.9	91
48	Using Fe–Mn binary oxide three-dimensional nanostructure to remove arsenic from aqueous systems. Water Science and Technology: Water Supply, 2016, 16, 516-524.	1.0	3
49	Kinetics of Fe ³⁺ mineral crystallization from ferrihydrite in the presence of Si at alkaline conditions and implications for nuclear waste disposal. American Mineralogist, 2016, 101, 2057-2069.	0.9	25
50	Sorption behaviour of arsenate by non-crystalline aluminosilicate minerals: implications for arsenic immobilisation during the disposal of alkaline coal fly ash materials. International Journal of Oil, Gas and Coal Technology, 2016, 12, 197.	0.1	3
51	Year-round variations in the fluvial transport load of particulate 137Cs in a forested catchment affected by the Fukushima Daiichi Nuclear Power Plant accident. Journal of Radioanalytical and Nuclear Chemistry, 2016, 310, 679-693.	0.7	7
52	Immobilization of selenium by Mg-bearing minerals and its implications for selenium removal from contaminated water and wastewater. Applied Clay Science, 2016, 123, 121-128.	2.6	17
53	Determination and reduction of Fe(III) incorporated into Mg–Fe layered double hydroxide structures. Applied Clay Science, 2016, 121-122, 71-76.	2.6	8
54	A passive collection system for whole size fractions in river suspended solids. Journal of Radioanalytical and Nuclear Chemistry, 2015, 303, 1291-1295.	0.7	4

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55	Synthesis of Zn–Fe layered double hydroxides via an oxidation process and structural analysis of products. Journal of Solid State Chemistry, 2015, 228, 221-225.	1.4	21
56	Melt extraction and metasomatism recorded in basal peridotites above the metamorphic sole of the northern Fizh massif, Oman ophiolite. Tectonophysics, 2015, 650, 53-64.	0.9	19
57	Monopersulfate oxidation of Acid Orange 7 with an iron(III)-tetrakis(N) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Journal of Molecular Catalysis A, 2015, 396, 84-89.	Tf 50 667 4.8	Td (-methylp 17
58	Adsorption of pentachlorophenol to a humin-like substance–bentonite complex prepared by polycondensation reactions of humic precursors. Applied Clay Science, 2014, 87, 136-141.	2.6	12
59	Influence of phosphate sorption on dispersion of a Ferralsol. Soil Science and Plant Nutrition, 2014, 60, 356-366.	0.8	8
60	Na-montmorillonite dissolution rate determined by varying the Gibbs free energy of reaction in a dispersed system and its application to a coagulated system in 0.3M NaOH solution at 70°C. Applied Clay Science, 2014, 93-94, 62-71.	2.6	6
61	Geochemical and Mineralogical Characterizations of Bentonite interacted with Alkaline Fluids generating in Zambales Ophiolite, Northwestern Luzons, Philippines. Journal of the Geological Society of Japan, 2014, 120, 361-375.	0.2	4
62	Mineral Synthesis in Si–Al–Ca Systems and Their Iodide Sorption Capacity under Alkaline Conditions. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	2
63	Effects of surface Fe(III) oxides in a steel slag on the formation of humic-like dark-colored polymers by the polycondensation of humic precursors. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 418, 117-123.	2.3	29
64	Comparison of the vertical distributions of Fukushima nuclear accident radiocesium in soil before and after the first rainy season, with physicochemical and mineralogical interpretations. Science of the Total Environment, 2013, 447, 301-314.	3.9	134
65	On the nature of structural disorder in calcium silicate hydrates with a calcium/silicon ratio similar to tobermorite. Cement and Concrete Research, 2013, 52, 31-37.	4.6	90
66	Evaluation of bentonite alteration due to interactions with iron: sensitivity analyses to identify the important factors for the bentonite alteration. Journal of Nuclear Fuel Cycle and Environment, 2013, 20, 39-52.	0.1	2
67	Application of Ferro Nickel Slag to Soil Improvement Agent. Journal of MMIJ, 2013, 129, 29-35.	0.4	2
68	Surface complexation reactions of inorganic anions on hydrotalcite-like compounds. Journal of Colloid and Interface Science, 2012, 384, 99-104.	5.0	70
69	Sorption Behavior of Arsenate by Mg-Bearing Minerals at Hyperalkaline Condition: Implications for Oxyanions Sequestration During the Use and Disposal of Alkaline Wastes. Water, Air, and Soil Pollution, 2012, 223, 3471-3483.	1.1	2
70	Factors affecting vertical distribution of Fukushima accident-derived radiocesium in soil under different land-use conditions. Science of the Total Environment, 2012, 431, 392-401.	3.9	175
71	Dissolution kinetics of synthetic Na-smectite. An integrated experimental approach. Geochimica Et Cosmochimica Acta, 2011, 75, 5849-5864.	1.6	44
72	Characterization of an adsorbed humin-like substance on an allophanic soil formed via catalytic polycondensation between catechol and glycine, and its adsorption capability to pentachlorophenol. Chemosphere, 2011, 83, 1502-1506.	4.2	13

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73	Evaluation of the Affinity of Some Toxic Elements to Schwertmannite in Natural Streams Contaminated with Acid Mine Drainage. Water, Air, and Soil Pollution, 2011, 216, 153-166.	1.1	11
74	Elucidation of polycyclic aromatic hydrocarbon sources in the sinking particles in Lake Biwa, Japan. Limnology, 2010, 11, 241-250.	0.8	4
75	Spectroscopic investigations of humic-like acids formed via polycondensation reactions between glycine, catechol and glucose in the presence of natural zeolites. Journal of Molecular Structure, 2010, 982, 181-186.	1.8	35
76	Decomposition of Polycyclic Aromatic Hydrocarbon (PAHs) on Mineral Surface under Controlled Relative Humidity. Acta Geologica Sinica, 2010, 80, 185-191.	0.8	14
77	Effect of Calcium Silicate Hydrate Precipitates at Cementitious and Bentonite Material Interface on Long-Term Engineered Barrier System Performance in TRU Waste Disposal Facilities. Materials Research Society Symposia Proceedings, 2009, 1193, 225.	0.1	0
78	Seasonal Deposition Fluxes of Polycyclic Aromatic Hydrocarbons (PAHs) in Lake Biwa, Japan. Water, Air, and Soil Pollution, 2009, 198, 297-306.	1.1	6
79	Microstructure of saturated bentonites characterized by X-ray CT observations. Engineering Geology, 2009, 106, 51-57.	2.9	38
80	Adsorption and co-precipitation behavior of arsenate, chromate, selenate and boric acid with synthetic allophane-like materials. Journal of Hazardous Materials, 2009, 170, 79-86.	6.5	59
81	Formation of Secondary Minerals and Uptake of Various Anions Under Naturally-Occurring Hyperalkaline Conditions in Oman. , 2009, , .		2
82	A Novel Remediation Method for Arsenic Bearing Acid Mine Drainage Learnt from Natural Attenuation Process. Journal of MMIJ, 2008, 124, 519-528.	0.4	1
83	Natural attenuation of antimony in mine drainage water. Geochemical Journal, 2007, 41, 17-27.	0.5	31
84	Long-range transport of polycyclic aromatic hydrocarbons (PAHs) from the eastern Asian continent to Kanazawa, Japan with Asian dust. Atmospheric Environment, 2007, 41, 2580-2593.	1.9	73
85	Environmental Behavior and Management of Hazardous Inorganic Anions in Nature. Journal of MMIJ, 2007, 123, 132-144.	0.4	9
86	Uptake of dissolved arsenic during the retrieval of silica from spent geothermal brine. Geothermics, 2007, 36, 230-242.	1.5	14
87	Size distribution and anthropogenic sources apportionment of airborne trace metals in Kanazawa, Japan. Chemosphere, 2006, 65, 2440-2448.	4.2	95
88	Mineralogical and Geochemical Constraints on Arsenic Mobility in a Philippine Geothermal Field. Acta Geologica Sinica, 2006, 80, 330-335.	0.8	0
89	Atomic force microscopy study of montmorillonite dissolution under highly alkaline conditions. Clays and Clay Minerals, 2005, 53, 147-154.	0.6	63
90	Source identification, size distribution and indicator screening of airborne trace metals in Kanazawa, Japan. Journal of Aerosol Science, 2005, 36, 197-210.	1.8	84

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91	Field evidence for uranium nanocrystallization and its implications for uranium transport. Chemical Geology, 2005, 221, 117-126.	1.4	63
92	Using a Surface Complexation Model To Predict the Nature and Stability of Nanoparticles. Environmental Science & Technology, 2005, 39, 1250-1256.	4.6	57
93	Dehydration processes in the meta-autunite group minerals meta-autunite, metasaleeite, and metatorbernite. American Mineralogist, 2005, 90, 1308-1314.	0.9	22
94	Arsenate sorption on schwertmannite. American Mineralogist, 2004, 89, 1728-1734.	0.9	85
95	A natural attenuation of arsenic in drainage from an abandoned arsenic mine dump. Applied Geochemistry, 2003, 18, 1267-1278.	1.4	230
96	Solid-Solution Reactions in As(V) Sorption by Schwertmannite. Environmental Science & Technology, 2003, 37, 3581-3586.	4.6	87
97	Crystallographer's Challenge in the 21st Century. 4. Environmental Crystallography. Clay Crystallography and Environmental Material Science for our 21st Century Nihon Kessho Gakkaishi, 2001, 43, 76-80.	0.0	0
98	SHRIMP measurements of U and Pb isotopes in the Koongarra secondary ore deposit, Northern Australia Geochemical Journal, 2000, 34, 349-358.	0.5	3
99	Field and Laboratory Examination of Uranium Microcrystallization and Its Role in Uranium Transport. Materials Research Society Symposia Proceedings, 2000, 663, 1.	0.1	5
100	HRTEM evidence for the process and mechanism of saponite-to-chlorite conversion through corrensite. American Mineralogist, 1999, 84, 1080-1087.	0.9	36
101	Uranium Micro-isotopic Analysis of Weathered Rock by a Sensitive High Resolution Ion Microprobe (SHRIMP II). Radiochimica Acta, 1998, 82, 335-340.	0.5	6
102	Distributions of Uranium-Series Radionuclides in Rock and Migration Rate of Uranium at the Koongarra Uranium Deposit, Australia. Radiochimica Acta, 1998, 82, 319-326.	0.5	4
103	Iron Nodules Scavenging Uranium from Groundwater. Environmental Science & Technology, 1997, 31, 2854-2858.	4.6	83
104	Mobility of uranium during weathering. American Mineralogist, 1997, 82, 888-899.	0.9	173
105	Weathering of Chlorite in a Quartz-Chlorite Schist: I. Mineralogical and Chemical Changes. Clays and Clay Minerals, 1996, 44, 244-256.	0.6	58
106	Change in Layer Charge of Smectites and Smectite Layers in Illite/Smectite during Diagenetic Alteration. Clays and Clay Minerals, 1996, 44, 460-469.	0.6	42
107	Mechanism of Saleeite Formation at the Koongarra Secondary Ore Deposit. Materials Research Society Symposia Proceedings, 1995, 412, 809.	0.1	1
108	Redistribution of Strontium and Cesium During Alteration of Smectite to Illite. Radiochimica Acta, 1994, 66-67, 323-326.	0.5	5

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109	Modelling Study on Uranium Migration in Rocks Under Weathering Condition. Materials Research Society Symposia Proceedings, 1994, 353, 1227.	0.1	1
110	Uranium Fixation During Uranium Migration Under an Oxidizing Condition. Materials Research Society Symposia Proceedings, 1994, 353, 1219.	0.1	2
111	Effect of Crystallochemistry of Starting Materials on the Rate of Smectite to Illite Reaction. Materials Research Society Symposia Proceedings, 1994, 353, 239.	0.1	1
112	Redistribution of Strontium and Cesium During Alteration of Smectite to Illite. Radiochimica Acta, 1994, 66-67, 323-326.	0.5	0
113	Significance of the Effect of Mineral Alteration on Nuclide Migration. Materials Research Society Symposia Proceedings, 1993, 333, 645.	0.1	3
114	Effects of Layer Charge, Charge Location, and Energy Change on Expansion Properties of Dioctahedral Smectites. Clays and Clay Minerals, 1992, 40, 103-113.	0.6	288
115	Diagenetic alteration of the Neogene sedimentary rocks in the no district, Niigata prefecture Journal of Mineralogy, Petrology and Economic Geology, 1989, 84, 259-269.	0.1	2