

Taishi Kobayashi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1961538/publications.pdf>

Version: 2024-02-01

53
papers

509
citations

840776

11
h-index

794594

19
g-index

54
all docs

54
docs citations

54
times ranked

528
citing authors

#	ARTICLE	IF	CITATIONS
1	Sorption of Cs ⁺ and Eu ³⁺ ions onto sedimentary rock in the presence of gamma-irradiated humic acid. <i>Journal of Hazardous Materials</i> , 2022, 428, 128211.	12.4	4
2	Solubility of PuO ₂ (am,hyd) and the Formation of Pu(IV) Carbonate Complexes in Carbonate Solutions Containing 0.1–5.0 mol·dm ⁻³ NaNO ₃ . <i>Journal of Solution Chemistry</i> , 2021, 50, 443-457.	1.2	0
3	Gamma-irradiation-induced molecular-weight distribution and complexation affinity of humic acid with Cs ⁺ , Sr ²⁺ , and Eu ³⁺ . <i>Journal of Hazardous Materials</i> , 2021, 411, 125071.	12.4	4
4	Vertical distribution of ⁹⁰ Sr and ¹³⁷ Cs in soils near the Fukushima Daiichi nuclear power station. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 326, 303-314.	1.5	5
5	Effect of gamma-irradiation on complexation of humic substances with divalent calcium ion. <i>Chemosphere</i> , 2020, 256, 127021.	8.2	7
6	Thermodynamic interpretation of zirconium solubility in the presence of hydroxyacetic, 3-hydroxypropionic, and 2,3-dihydroxypropanoic acids. <i>Journal of Nuclear and Radiochemical Sciences</i> , 2020, 20, 20-24.	0.7	0
7	Solubility and solid phase of trivalent lanthanide hydroxides and oxides. <i>Journal of Nuclear and Radiochemical Sciences</i> , 2020, 20, 32-42.	0.7	3
8	Leaching behavior of gamma-emitting fission products, calcium, and uranium from simulated MCCI debris in water. <i>Journal of Nuclear Science and Technology</i> , 2019, 56, 1092-1102.	1.3	10
9	Structural Approach to Understanding the Solubility of Metal Hydroxides. <i>Langmuir</i> , 2019, 35, 7995-8006.	3.5	5
10	Thermodynamic interpretation of uranium(IV/VI) solubility in the presence of α -D-isosaccharinic acid. <i>Journal of Chemical Thermodynamics</i> , 2019, 138, 151-158.	2.0	5
11	Solubilities and solubility products of thorium hydroxide under moderate temperature conditions. <i>Radiochimica Acta</i> , 2018, 106, 655-667.	1.2	7
12	A Thermodynamic Model for ZrO ₂ (am) Solubility at 25 °C in the Ca ²⁺ -Na ⁺ -H ⁺ -Cl ⁻ -OH ⁻ -H ₂ O System: A Critical Review. <i>Journal of Solution Chemistry</i> , 2018, 47, 855-891.	1.2	11
13	Gamma-ray irradiation impact of humic substances on apparent formation constants with Cu(II). <i>Journal of Nuclear Science and Technology</i> , 2018, 55, 1299-1308.	1.3	6
14	Solubility of Zr(OH) ₄ (am) and the Formation of Zr(IV) Carbonate Complexes in Carbonate Solutions Containing 0.1–5.0 mol·dm ⁻³ NaNO ₃ . <i>Journal of Solution Chemistry</i> , 2017, 46, 1741-1759.	1.2	9
15	Thermodynamic model for Zr solubility in the presence of gluconic acid and isosaccharinic acid. <i>Journal of Nuclear Science and Technology</i> , 2017, 54, 233-241.	1.3	7
16	Characteristic of a pdCu membrane as atomic hydrogen probe for QUEST. <i>Nuclear Materials and Energy</i> , 2016, 9, 104-108.	1.3	6
17	Issues concerning the determination of solubility products of sparingly soluble crystalline solids: solubility of HfO ₂ (cr). <i>Radiochimica Acta</i> , 2016, 104, 583-592.	1.2	5
18	Effect of solid phase transformation on the solubility product of thorium hydrous oxide at 363 K. <i>Journal of Nuclear Science and Technology</i> , 2016, 53, 1787-1793.	1.3	9

#	ARTICLE	IF	CITATIONS
19	The solubilities and solubility products of zirconium hydroxide and oxide after aging at 278, 313, and 333â€°K. <i>Radiochimica Acta</i> , 2016, 104, 183-193.	1.2	4
20	Sorption of Eu ³⁺ on Na-montmorillonite studied by time-resolved laser fluorescence spectroscopy and surface complexation modeling. <i>Journal of Nuclear Science and Technology</i> , 2016, 53, 592-601.	1.3	13
21	Leaching behavior of gamma-emitting fission products and Np from neutron-irradiated UO ₂ â€”ZrO ₂ solid solutions in non-filtered surface seawater. <i>Journal of Nuclear Science and Technology</i> , 2016, 53, 303-311.	1.3	22
22	Oxidation of Solid Phase and Ionic Strength Effect to the Cesium Adsorption on Pumice Tuff. <i>Journal of Geoscience and Environment Protection</i> , 2016, 04, 64-73.	0.5	3
23	Discrete fragment model for apparent formation constants of actinide ions with humic substances. <i>Radiochimica Acta</i> , 2015, 103, 411-421.	1.2	7
24	Redox chemistry of Tc(VII)/Tc(IV) in dilute to concentrated NaCl and MgCl ₂ solutions. <i>Radiochimica Acta</i> , 2015, 103, 57-72.	1.2	21
25	Laboratory Enrichment of Radioactive Assemblages and Estimation of Thorium and Uranium Radioactivity in Fractions Separated from Placer Sands in Southeast Bangladesh. <i>Natural Resources Research</i> , 2015, 24, 209-220.	4.7	13
26	Hydrogenâ€”deuterium exchange on plasma-exposed W and SS surface. <i>Journal of Nuclear Materials</i> , 2015, 463, 1125-1128.	2.7	5
27	In situ deuterium observation in deuterium-implanted tungsten. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013, 315, 121-125.	1.4	2
28	Redox behavior of Tc(VII)/Tc(IV) under various reducing conditions in 0.1â€” NaCl solutions. <i>Radiochimica Acta</i> , 2013, 101, 323-332.	1.2	46
29	Sorption Behavior of Nickel and Palladium in the Presence of NH ₃ (aq)/NH ₄ ⁺ . <i>Materials Research Society Symposia Proceedings</i> , 2013, 1518, 231-236.	0.1	1
30	Apparent formation constants of Pu(IV) and Th(IV) with humic acids determined by solvent extraction method. <i>Radiochimica Acta</i> , 2012, 100, 737-746.	1.2	4
31	Determination of Apparent Formation Constants of Eu(III) with Humic Substances by Ion Selective Liquid Membrane Electrode. <i>American Journal of Analytical Chemistry</i> , 2012, 03, 462-469.	0.9	2
32	Solubility and Solubility-Limiting Solid Phase in M(IV)-OH-Dicarboxylate Ternary Aqueous System. <i>Journal of Nuclear Science and Technology</i> , 2011, 48, 993-1003.	1.3	6
33	Analysis of Sorption Behavior of Cesium and Iodide Ions on Pumice Tuff. <i>Journal of Nuclear Science and Technology</i> , 2011, 48, 950-957.	1.3	10
34	Solubility and Solubility-Limiting Solid Phase in M(IV)-OH-Dicarboxylate Ternary Aqueous System. <i>Journal of Nuclear Science and Technology</i> , 2011, 48, 993-1003.	1.3	1
35	Detection of Polynuclear Zirconium Hydroxide Species in Aqueous Solution by Desktop ESI-MS. <i>Journal of Nuclear Science and Technology</i> , 2010, 47, 1211-1218.	1.3	13
36	Detection of Polynuclear Zirconium Hydroxide Species in Aqueous Solution by Desktop ESI-MS. <i>Journal of Nuclear Science and Technology</i> , 2010, 47, 1211-1218.	1.3	2

#	ARTICLE	IF	CITATIONS
37	Complex formation and solubility of Pu(IV) with malonic and succinic acids. <i>Radiochimica Acta</i> , 2009, 97, 193-197.	1.2	3
38	Solid phase precipitates in (Zr,Th)-OH-(oxalate, malonate) ternary aqueous system. <i>Radiochimica Acta</i> , 2009, 97, 237-241.	1.2	8
39	Solubility of Thorium(IV) in the Presence of Oxalic and Malonic Acids. <i>Journal of Nuclear Science and Technology</i> , 2009, 46, 1085-1090.	1.3	13
40	Zirconium Solubility in Ternary Aqueous System of Zr(IV)-OH-Carboxylates. <i>Journal of Nuclear Science and Technology</i> , 2009, 46, 142-148.	1.3	28
41	Zirconium Solubility in Ternary Aqueous System of Zr(IV)-OH-Carboxylates. <i>Journal of Nuclear Science and Technology</i> , 2009, 46, 142-148.	1.3	5
42	Discrete Fragment Model for Complex Formation of Europium(III) with Humic Acid. <i>Journal of Nuclear Science and Technology</i> , 2008, 45, 718-724.	1.3	8
43	Hydrolysis Constant and Coordination Geometry of Zirconium(IV). <i>Journal of Nuclear Science and Technology</i> , 2008, 45, 735-739.	1.3	23
44	Discrete Fragment Model for Complex Formation of Europium(III) with Humic Acid. <i>Journal of Nuclear Science and Technology</i> , 2008, 45, 718-724.	1.3	4
45	Hydrolysis Constant and Coordination Geometry of Zirconium(IV). <i>Journal of Nuclear Science and Technology</i> , 2008, 45, 735-739.	1.3	8
46	Solubility of Zirconium(IV) Hydrrous Oxides. <i>Journal of Nuclear Science and Technology</i> , 2007, 44, 90-94.	1.3	66
47	Analysis of Sorption Behavior of Cesium Ion on Mineral Components of Granite. <i>Journal of Nuclear Science and Technology</i> , 2007, 44, 641-648.	1.3	16
48	Solubility of Zirconium(IV) Hydrrous Oxides. <i>Journal of Nuclear Science and Technology</i> , 2007, 44, 90-94.	1.3	8
49	Study on Stabilization Effect of Neutral Soft Donor on Trivalent Lanthanide and Actinide Dicarboxylate Complexes by Time-Resolved Laser-Induced Fluorescence Spectroscopy. <i>Journal of Nuclear and Radiochemical Sciences</i> , 2005, 6, 51-54.	0.7	3
50	Systematics of Hydrolysis Constants of Tetravalent Actinide Ions. <i>Journal of Nuclear Science and Technology</i> , 2005, 42, 626-635.	1.3	21
51	Measurement and Analysis of Formation Constants of Europium with Carboxylates. <i>Journal of Nuclear Science and Technology</i> , 2005, 42, 724-731.	1.3	5
52	Systematics of Hydrolysis Constants of Tetravalent Actinide Ions. <i>Journal of Nuclear Science and Technology</i> , 2005, 42, 626-635.	1.3	6
53	Measurement and Analysis of Formation Constants of Europium with Carboxylates. <i>Journal of Nuclear Science and Technology</i> , 2005, 42, 724-731.	1.3	6