

# Taishi Kobayashi

## List of Publications by Year in descending order

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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	Solubility of Zirconium(IV) Hydrous Oxides. <i>Journal of Nuclear Science and Technology</i> , 2007, 44, 90-94.	1.3	66
2	Redox behavior of Tc(VII)/Tc(IV) under various reducing conditions in 0.1 M NaCl solutions. <i>Radiochimica Acta</i> , 2013, 101, 323-332.	1.2	46
3	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
4	Hydrolysis Constant and Coordination Geometry of Zirconium(IV). <i>Journal of Nuclear Science and Technology</i> , 2008, 45, 735-739.	1.3	23
5	Leaching behavior of gamma-emitting fission products and Np from neutron-irradiated $UO_2$ - $ZrO_2$ solid solutions in non-filtered surface seawater. <i>Journal of Nuclear Science and Technology</i> , 2016, 53, 303-311.	1.3	22
6	Systematics of Hydrolysis Constants of Tetravalent Actinide Ions. <i>Journal of Nuclear Science and Technology</i> , 2005, 42, 626-635.	1.3	21
7	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
8	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
9	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
10	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
11	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
12	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
13	A Thermodynamic Model for $ZrO_2(am)$ Solubility at 25 °C in the $Ca_2+Na+H+Cl+OH+H_2O$ System: A Critical Review. <i>Journal of Solution Chemistry</i> , 2018, 47, 855-891.	1.2	11
14	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
15	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
16	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
17	Solubility of $Zr(OH)_4(am)$ and the Formation of Zr(IV) Carbonate Complexes in Carbonate Solutions Containing 0.1–5.0 mol/dm <sup>3</sup> $NaNO_3$ . <i>Journal of Solution Chemistry</i> , 2017, 46, 1741-1759.	1.2	9
18	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

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19	Solid phase precipitates in (Zr,Th)-OH-(oxalate, malonate) ternary aqueous system. <i>Radiochimica Acta</i> , 2009, 97, 237-241.	1.2	8
20	Solubility of Zirconium(IV) Hydrous Oxides. <i>Journal of Nuclear Science and Technology</i> , 2007, 44, 90-94.	1.3	8
21	Hydrolysis Constant and Coordination Geometry of Zirconium(IV). <i>Journal of Nuclear Science and Technology</i> , 2008, 45, 735-739.	1.3	8
22	Discrete fragment model for apparent formation constants of actinide ions with humic substances. <i>Radiochimica Acta</i> , 2015, 103, 411-421.	1.2	7
23	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
24	Solubilities and solubility products of thorium hydroxide under moderate temperature conditions. <i>Radiochimica Acta</i> , 2018, 106, 655-667.	1.2	7
25	Effect of gamma-irradiation on complexation of humic substances with divalent calcium ion. <i>Chemosphere</i> , 2020, 256, 127021.	8.2	7
26	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
27	Characteristic of a pdCu membrane as atomic hydrogen probe for QUEST. <i>Nuclear Materials and Energy</i> , 2016, 9, 104-108.	1.3	6
28	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
29	Systematics of Hydrolysis Constants of Tetravalent Actinide Ions. <i>Journal of Nuclear Science and Technology</i> , 2005, 42, 626-635.	1.3	6
30	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
31	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
32	Hydrogen-deuterium exchange on plasma-exposed W and SS surface. <i>Journal of Nuclear Materials</i> , 2015, 463, 1125-1128.	2.7	5
33	Issues concerning the determination of solubility products of sparingly soluble crystalline solids: solubility of $\text{HfO}_2(\text{cr})$ . <i>Radiochimica Acta</i> , 2016, 104, 583-592.	1.2	5
34	Structural Approach to Understanding the Solubility of Metal Hydroxides. <i>Langmuir</i> , 2019, 35, 7995-8006.	3.5	5
35	Thermodynamic interpretation of uranium(IV/VI) solubility in the presence of $\hat{\pm}$ -isosaccharinic acid. <i>Journal of Chemical Thermodynamics</i> , 2019, 138, 151-158.	2.0	5
36	Vertical distribution of $^{90}\text{Sr}$ and $^{137}\text{Cs}$ in soils near the Fukushima Daiichi nuclear power station. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 326, 303-314.	1.5	5

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37	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
38	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
39	The solubilities and solubility products of zirconium hydroxide and oxide after aging at 278, 313, and 333 K. <i>Radiochimica Acta</i> , 2016, 104, 183-193.	1.2	4
40	Gamma-irradiation-induced molecular-weight distribution and complexation affinity of humic acid with Cs <sup>+</sup> , Sr <sup>2+</sup> , and Eu <sup>3+</sup> . <i>Journal of Hazardous Materials</i> , 2021, 411, 125071.	12.4	4
41	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
42	Sorption of Cs <sup>+</sup> and Eu <sup>3+</sup> ions onto sedimentary rock in the presence of gamma-irradiated humic acid. <i>Journal of Hazardous Materials</i> , 2022, 428, 128211.	12.4	4
43	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
44	Complex formation and solubility of Pu(IV) with malonic and succinic acids. <i>Radiochimica Acta</i> , 2009, 97, 193-197.	1.2	3
45	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
46	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
47	In situ deuterium observation in deuterium-implanted tungsten. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2013, 315, 121-125.	1.4	2
48	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
49	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
50	Sorption Behavior of Nickel and Palladium in the Presence of NH <sub>3</sub> (aq)/NH <sub>4</sub> <sup>+</sup> . <i>Materials Research Society Symposia Proceedings</i> , 2013, 1518, 231-236.	0.1	1
51	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
52	Solubility of PuO <sub>2</sub> (am,hyd) and the Formation of Pu(IV) Carbonate Complexes in Carbonate Solutions Containing 0.1–5.0 mol·dm <sup>-3</sup> NaNO <sub>3</sub> . <i>Journal of Solution Chemistry</i> , 2021, 50, 443-457.	1.2	0
53	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