

Toshihiko Ohnuki

List of Publications by Year in descending order

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115
papers

1,809
citations

236612

25
h-index

329751

37
g-index

115
all docs

115
docs citations

115
times ranked

1616
citing authors

#	ARTICLE	IF	CITATIONS
1	Caesium-rich micro-particles: A window into the meltdown events at the Fukushima Daiichi Nuclear Power Plant. <i>Scientific Reports</i> , 2017, 7, 42731.	1.6	88
2	Chemical states of fallout radioactive Cs in the soils deposited at Fukushima Daiichi Nuclear Power Plant accident. <i>Journal of Nuclear Science and Technology</i> , 2012, 49, 473-478.	0.7	69
3	Isotopic signature and nano-texture of cesium-rich micro-particles: Release of uranium and fission products from the Fukushima Daiichi Nuclear Power Plant. <i>Scientific Reports</i> , 2017, 7, 5409.	1.6	68
4	Influence of pH, competing ions and salinity on the sorption of strontium and cobalt onto biogenic hydroxyapatite. <i>Scientific Reports</i> , 2016, 6, 23361.	1.6	66
5	Adsorption behavior of radioactive cesium by non-mica minerals. <i>Journal of Nuclear Science and Technology</i> , 2013, 50, 369-375.	0.7	64
6	Uranium Dioxides and Debris Fragments Released to the Environment with Cesium-Rich Microparticles from the Fukushima Daiichi Nuclear Power Plant. <i>Environmental Science & Technology</i> , 2018, 52, 2586-2594.	4.6	63
7	Structural factors of biogenic birnessite produced by fungus <i>Paraconiothyrium</i> sp. WL-2 strain affecting sorption of Co^{2+} . <i>Chemical Geology</i> , 2012, 310-311, 106-113.	1.4	62
8	Weathering of Chlorite in a Quartz-Chlorite Schist: I. Mineralogical and Chemical Changes. <i>Clays and Clay Minerals</i> , 1996, 44, 244-256.	0.6	58
9	Novel Method of Quantifying Radioactive Cesium-Rich Microparticles (CsMPs) in the Environment from the Fukushima Daiichi Nuclear Power Plant. <i>Environmental Science & Technology</i> , 2018, 52, 6390-6398.	4.6	54
10	Enhanced desorption of cesium from collapsed interlayer regions in vermiculite by hydrothermal treatment with divalent cations. <i>Journal of Hazardous Materials</i> , 2017, 326, 47-53.	6.5	47
11	Calcium-deficient Hydroxyapatite as a Potential Sorbent for Strontium. <i>Scientific Reports</i> , 2017, 7, 2064.	1.6	42
12	Zinc Sorption During Bio-oxidation and Precipitation of Manganese Modifies the Layer Stacking of Biogenic Birnessite. <i>Geomicrobiology Journal</i> , 2013, 30, 829-839.	1.0	39
13	Spectroscopic and first-principles investigations of iodine species incorporation into ettringite: Implications for iodine migration in cement waste forms. <i>Journal of Hazardous Materials</i> , 2020, 389, 121880.	6.5	39
14	Abundance and distribution of radioactive cesium-rich microparticles released from the Fukushima Daiichi Nuclear Power Plant into the environment. <i>Chemosphere</i> , 2020, 241, 125019.	4.2	36
15	Chemical Speciation and Association of Plutonium with Bacteria, Kaolinite Clay, and Their Mixture. <i>Environmental Science & Technology</i> , 2007, 41, 3134-3139.	4.6	35
16	Radioactive Cs in the estuary sediments near Fukushima Daiichi Nuclear Power Plant. <i>Science of the Total Environment</i> , 2016, 551-552, 155-162.	3.9	35
17	Sorption Characteristics of Radioactive Cesium and Strontium on Smectite. <i>Radiochimica Acta</i> , 1994, 66-67, 327-332.	0.5	34
18	Dissolution of radioactive, cesium-rich microparticles released from the Fukushima Daiichi Nuclear Power Plant in simulated lung fluid, pure-water, and seawater. <i>Chemosphere</i> , 2019, 233, 633-644.	4.2	33

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19	Effective and efficient desorption of Cs from hydrothermal-treated clay minerals for the decontamination of Fukushima radioactive soil. <i>Chemical Engineering Journal</i> , 2018, 333, 392-401.	6.6	32
20	Selenium oxyanions: Highly selective uptake by a novel anion exchanger. <i>Journal of Materials Research</i> , 2002, 17, 2993-2996.	1.2	30
21	Effects of NH ₄ ⁺ , K ⁺ , Mg ²⁺ , and Ca ²⁺ on the Cesium Adsorption/Desorption in Binding Sites of Vermiculitized Biotite. <i>Environmental Science & Technology</i> , 2017, 51, 13886-13894.	4.6	30
22	Particulate plutonium released from the Fukushima Daiichi meltdowns. <i>Science of the Total Environment</i> , 2020, 743, 140539.	3.9	30
23	Sewage sludge ash contaminated with radiocesium: Solidification with alkaline-reacted metakaolinite (geopolymer) and Portland cement. <i>Journal of Hazardous Materials</i> , 2021, 416, 125965.	6.5	30
24	Effects of Citrate, NTA, and EDTA on the Reduction of U(VI) by <i>Shewanella putrefaciens</i> . <i>Geomicrobiology Journal</i> , 2010, 27, 245-250.	1.0	29
25	Root endophytic bacteria of a ¹³⁷ Cs and Mn accumulator plant, <i>Eleutherococcus sciadophylloides</i> , increase ¹³⁷ Cs and Mn desorption in the soil. <i>Journal of Environmental Radioactivity</i> , 2016, 153, 112-119.	0.9	29
26	Change in Sorption Characteristics of Uranium during Crystallization of Amorphous Iron Minerals. <i>Journal of Nuclear Science and Technology</i> , 1997, 34, 1153-1158.	0.7	25
27	Development of Paper Sludge Ash-Based Geopolymer and Application to Treatment of Hazardous Water Contaminated with Radioisotopes. <i>Materials</i> , 2016, 9, 633.	1.3	25
28	Association of Actinides with Microorganisms and Clay: Implications for Radionuclide Migration from Waste-Repository Sites. <i>Geomicrobiology Journal</i> , 2010, 27, 225-230.	1.0	23
29	Effect of the Complexation on Solubility of Pu(IV) in Aqueous Carbonate System. <i>Radiochimica Acta</i> , 1994, 66-67, 9-14.	0.5	21
30	Sorption Characteristics of Strontium on Sandy Soils and Their Components. <i>Radiochimica Acta</i> , 1994, 64, 237-246.	0.5	21
31	Characterization of Fe-montmorillonite: A Simulant of Buffer Materials Accommodating Overpack Corrosion Product. <i>Journal of Nuclear Science and Technology</i> , 2001, 38, 1141-1143.	0.7	21
32	Removal of Soluble Strontium via Incorporation into Biogenic Carbonate Minerals by Halophilic Bacterium <i>Bacillus</i> sp. Strain TK2d in a Highly Saline Solution. <i>Applied and Environmental Microbiology</i> , 2017, 83, .	1.4	20
33	Sorption Characteristics of Neptunium by Sodium-Smectite. <i>Journal of Nuclear Science and Technology</i> , 1993, 30, 1153-1159.	0.7	19
34	Plutonium(VI) accumulation and reduction by lichen biomass: correlation with U(VI). <i>Journal of Environmental Radioactivity</i> , 2004, 77, 339-353.	0.9	19
35	Cobalt(II) Oxidation by Biogenic Mn Oxide Produced by <i>Pseudomonas</i> sp. Strain NGY-1. <i>Geomicrobiology Journal</i> , 2013, 30, 874-885.	1.0	18
36	New highly radioactive particles derived from Fukushima Daiichi Reactor Unit 1: Properties and environmental impacts. <i>Science of the Total Environment</i> , 2021, 773, 145639.	3.9	18

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37	Effect of the Complexation on Solubility of Pu(IV) in Aqueous Carbonate System. <i>Radiochimica Acta</i> , 1994, 66-67, 9-14.	0.5	17
38	Biomineralization of Middle Rare Earth Element Samarium in Yeast and Bacteria Systems. <i>Geomicrobiology Journal</i> , 2018, 35, 375-384.	1.0	17
39	Electrochemical Studies on Uranium in the Presence of Organic Acids. <i>Journal of Nuclear Science and Technology</i> , 2007, 44, 1227-1232.	0.7	16
40	Adsorption of Cs onto Biogenic Birnessite: Effects of Layer Structure, Ionic Strength, and Competition Cations. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 797-810.	1.2	16
41	Iodine speciation in a silver-amended cementitious system. <i>Environment International</i> , 2019, 126, 576-584.	4.8	15
42	Distribution Coefficient in the Sorption of Radionuclides onto Ando Soil in the Presence of Humic Acid. <i>Journal of Nuclear Science and Technology</i> , 1997, 34, 829-834.	0.7	14
43	Sorption Characteristics of Neptunium by Sodium-Smectite.. <i>Journal of Nuclear Science and Technology</i> , 1993, 30, 1153-1159.	0.7	14
44	Sorption Mechanism of Europium by Apatite Using Rutherford Backscattering Spectroscopy and Resonant Nuclear Reaction Analysis.. <i>Journal of Nuclear Science and Technology</i> , 1997, 34, 58-62.	0.7	14
45	Sorption Mechanism of Europium by Apatite Using Rutherford Backscattering Spectroscopy and Resonant Nuclear Reaction Analysis. <i>Journal of Nuclear Science and Technology</i> , 1997, 34, 58-62.	0.7	13
46	Direct accumulation pathway of radioactive cesium to fruit-bodies of edible mushroom from contaminated wood logs. <i>Scientific Reports</i> , 2016, 6, 29866.	1.6	12
47	Characterization of Fe-montmorillonite: A Simulant of Buffer Materials Accommodating Overpack Corrosion Product.. <i>Journal of Nuclear Science and Technology</i> , 2001, 38, 1141-1143.	0.7	12
48	Redistribution of Neptunium(Y) During the Alteration of Ferrihydrite. <i>Radiochimica Acta</i> , 1994, 66-67, 285-290.	0.5	10
49	Sorption Behavior of Cobalt on Manganese Dioxide, Smectite and Their Mixture. <i>Radiochimica Acta</i> , 1995, 68, 203-207.	0.5	10
50	Response of <i>Saccharomyces cerevisiae</i> to Heavy Element Stress: Lead vs. Uranium. <i>Geomicrobiology Journal</i> , 2010, 27, 240-244.	1.0	10
51	Interactions of the Rare Earth Elements' Desferrioxamine B Complexes with <i>Pseudomonas fluorescens</i> and $\text{I}^3\text{-Al}_2\text{O}_3$. <i>Chemistry Letters</i> , 2012, 41, 98-100.	0.7	10
52	Effect of minerals on accumulation of Cs by fungus <i>Saccaromyces cerevisiae</i> . <i>Journal of Environmental Radioactivity</i> , 2015, 144, 127-133.	0.9	10
53	Study on coordination structure of Re adsorbed on Mg-Al layered double hydroxide using X-ray absorption fine structure. <i>Journal of Porous Materials</i> , 2019, 26, 505-511.	1.3	10
54	Distribution Coefficient in the Sorption of Radionuclides onto Ando Soil in the Presence of Humic Acid. Influence of the Molecular Size of Humic Acid.. <i>Journal of Nuclear Science and Technology</i> , 1997, 34, 829-834.	0.7	10

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55	Local Area Distribution of Fallout Radionuclides from Fukushima Daiichi Nuclear Power Plant Determined by Autoradiography Analysis. Transactions of the Atomic Energy Society of Japan, 2012, 11, 1-7.	0.2	10
56	Modeling of the Interaction of Pu(VI) with the Mixture of Microorganism and Clay. Journal of Nuclear Science and Technology, 2009, 46, 55-59.	0.7	9
57	Effect of Temperature on K ⁺ and Mg ²⁺ Extracted Desorption of Cs from Vermiculitized Biotite. Chemistry Letters, 2017, 46, 1350-1352.	0.7	9
58	Accumulation of Co in Yeast Cells under Metabolically Active Condition—Implication for Role of Yeast in Migration of Radioactive Co—. Journal of Nuclear Science and Technology, 2011, 48, 1206-1213.	0.7	8
59	Formation of radioactive cesium microparticles originating from the Fukushima Daiichi Nuclear Power Plant accident: characteristics and perspectives. Journal of Nuclear Science and Technology, 2019, 56, 790-800.	0.7	8
60	Volatilization of B4C control rods in Fukushima Daiichi nuclear reactors during meltdown: B-Li isotopic signatures in cesium-rich microparticles. Journal of Hazardous Materials, 2022, 428, 128214.	6.5	8
61	Migration of Radionuclides (⁶⁰ Co, ⁸⁵ Sr and ¹³⁷ Cs) in Alkaline Solution (pH 12) through Sandy Soil Layer. Journal of Nuclear Science and Technology, 1986, 23, 643-649.	0.7	7
62	Colloidal Migration Behavior of Radionuclides Sorbed on Mobile Fine Soil Particles through a Sand Layer. Journal of Nuclear Science and Technology, 1996, 33, 62-68.	0.7	7
63	Metal Sorption to Pseudomonas fluorescens: Influence of pH, Ionic Strength and Metal Concentrations. Geomicrobiology Journal, 2007, 24, 205-210.	1.0	7
64	Yeast Genes Involved in Uranium Tolerance and Uranium Accumulation: A Functional Screening Using the Nonessential Gene Deletion Collection. Geomicrobiology Journal, 2012, 29, 470-476.	1.0	7
65	Change in Sorption Characteristics of Uranium during Crystallization of Amorphous Iron Minerals.. Journal of Nuclear Science and Technology, 1997, 34, 1153-1158.	0.7	7
66	Adsorption Behavior of Lanthanide Ions on Nonbiological Phospholipid Membranes: A Model Study Using Liposome. Chemistry Letters, 2013, 42, 819-821.	0.7	6
67	Role of filamentous fungi in migration of radioactive cesium in the Fukushima forest soil environment. Environmental Sciences: Processes and Impacts, 2019, 21, 1164-1173.	1.7	6
68	Development of Migration Prediction System (MIGSTEM) for Cationic Species of Radionuclides through Soil Layers. Journal of Nuclear Science and Technology, 1989, 26, 795-804.	0.7	5
69	Retardation Factor of a Radionuclide for Undisturbed and Disturbed Sandy Soil. Nuclear Technology, 1989, 88, 55-63.	0.7	5
70	Field and Laboratory Examination of Uranium Microcrystallization and Its Role in Uranium Transport. Materials Research Society Symposia Proceedings, 2000, 663, 1.	0.1	5
71	Transport of Cesium Ion Across a Bilayer Lipid Membrane and Its Facilitation in the Presence of Iodide Ion. Electroanalysis, 2013, 25, 1823-1826.	1.5	5
72	Application of simplified desorption method to study on sorption of americium(III) on bentonite. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 1571-1579.	0.7	5

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73	Complexation of Eu(III), Pb(II), and U(VI) with a Paramecium glycoprotein: Microbial transformation of heavy elements in the aquatic environment. Chemosphere, 2018, 196, 135-144.	4.2	5
74	Study on Role of ²³⁴ Th in Uranium Series Nuclides Migration. Materials Research Society Symposia Proceedings, 1990, 212, 733.	0.1	4
75	Migration Characteristics of Cobalt-60 through Sandy Soil in High pH Solution. Journal of Nuclear Science and Technology, 1992, 29, 996-1003.	0.7	4
76	Sorption Behavior of Neptunium on Bentonite-Effect of Calcium Ion on the Sorption -. Materials Research Society Symposia Proceedings, 1994, 353, 1021.	0.1	4
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91	Uranium Fixation During Uranium Migration Under an Oxidizing Condition. Materials Research Society Symposia Proceedings, 1994, 353, 1219.	0.1	2
92	Sorption Characteristics of Radioactive Cesium and Strontium on Smectite. Radiochimica Acta, 1994, 66-67, 327-332.	0.5	2
93	Application of simplified desorption method to study on sorption of neptunium(V) on montmorillonite-based mixtures. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 1581-1587.	0.7	2
94	In-situ investigation of radioactive Cs mobility around litter zone in contaminated forest using spent mushroom substrata. Journal of Nuclear Science and Technology, 2019, 56, 814-821.	0.7	2
95	Migration of radionuclides (⁶⁰ Co, ⁸⁵ Sr and ¹³⁷ Cs) in alkaline solution (pH12) through sandy soil layer.. Journal of Nuclear Science and Technology, 1986, 23, 643-649.	0.7	2
96	Colloidal Migration Behavior of Radionuclides Sorbed on Mobile Fine Soil Particles through a Sand Layer.. Journal of Nuclear Science and Technology, 1996, 33, 62-68.	0.7	2
97	Characteristics of Migration of ⁸⁵ Sr and ¹³⁷ Cs in Alkaline Solution Through Sandy Soil. Materials Research Society Symposia Proceedings, 1990, 212, 609.	0.1	1
98	Modeling Study of Effects of Short-Lived Radionuclide Fixation on Decay Chain Radionuclides Migration. Journal of Nuclear Science and Technology, 1993, 30, 777-784.	0.7	1
99	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
100	Redox Behavior of Uranium(VI) Adsorbed onto a Phosphate-modified Indium Tin Oxide Electrode. Chemistry Letters, 2013, 42, 888-890.	0.7	1
101	Development of migration prediction system(MIGSTEM) for cationic species of radionuclides through soil layers.. Journal of Nuclear Science and Technology, 1989, 26, 795-804.	0.7	1
102	Adsorption of radioactive cobalt by mixture of manganese oxide and montmorillonite.. Journal of Nuclear Science and Technology, 1990, 27, 1068-1071.	0.7	1
103	Influence of Ionic Strength on Curium(III) and Europium(III) Sorption on Halomonas elongata. Journal of Nuclear Science and Technology, 2004, 41, 1125-1127.	0.7	1
104	Electrochemical Studies on Uranium in the Presence of Organic Acids. Journal of Nuclear Science and Technology, 2007, 44, 1227-1232.	0.7	1
105	Accumulation of Co in Yeast Cells under Metabolically Active Condition "Implication for Role of Yeast in Migration of Radioactive Co". Journal of Nuclear Science and Technology, 2011, 48, 1206-1213.	0.7	1
106	Migration of Anionic Species of Radioactive Cobalt through Soil. Materials Research Society Symposia Proceedings, 1989, 176, 615.	0.1	0
107	Effects of Organic Acids on Biotransformation of Actinides. ACS Symposium Series, 2010, , 333-348.	0.5	0
108	Recent activities in the field of nuclear waste management and environmental science. Journal of Nuclear Science and Technology, 2013, 50, 863-864.	0.7	0

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109	Sorption Behavior of Np(V) on Microbe Pure Culture and Consortia. Chemistry Letters, 2017, 46, 771-774.	0.7	0
110	Summary report of recent activities for decontamination and environmental restoration after Fukushima Daiichi nuclear power plant accident. Journal of Nuclear Science and Technology, 2018, 55, 1363-1365.	0.7	0
111	Determination of Local-Area Distribution and Relocation of Radioactive Cesium in Trees from Fukushima Daiichi Nuclear Power Plant by Autoradiography Analysis. , 2021, , 204-218.		0
112	Local Area Distribution of Fallout Radionuclides from Fukushima Daiichi Nuclear Power Plant Determined by Autoradiography Analysis. , 2021, , 52-62.		0
113	Redistribution of Neptunium(V) During the Alteration of Ferrihydrite. Radiochimica Acta, 1994, 66-67, 285-290.	0.5	0
114	Study on the Long Term Migration Mechanism of Radionuclides in Geosphere. Radionuclides Migration and Alteration of Minerals.. Japanese Journal of Health Physics, 1996, 31, 305-311.	0.1	0
115	Sorption of Pu(IV) on biogenic Mn oxide and complexation of Pu(IV) with organic ligands secreted by fungal cells. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 1109-1114.	0.7	0