Toshihiko Ohnuki

List of Publications by Year
in descending order

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	Chemical species of iodine during sorption by activated carbon -Effects of original chemical species and fulvic acids. Journal of Nuclear Science and Technology, 2022, 59, 580-589.	0.7	3
2	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
3	Volatilization of B4C control rods in Fukushima Daiichi nuclear reactors during meltdown: Bâ€"Li isotopic signatures in cesium-rich microparticles. Journal of Hazardous Materials, 2022, 428, 128214.	6.5	8
4	Potential bacterial alteration of nuclear fuel debris: a preliminary study using simulants in powder and pellet forms. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 2785-2794.	0.7	3
5	New highly radioactive particles derived from Fukushima Daiichi Reactor Unit 1: Properties and environmental impacts. Science of the Total Environment, 2021, 773, 145639.	3.9	18
6	Sewage sludge ash contaminated with radiocesium: Solidification with alkaline-reacted metakaolinite (geopolymer) and Portland cement. Journal of Hazardous Materials, 2021, 416, 125965.	6.5	30
7	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
8	Local Area Distribution of Fallout Radionuclides from Fukushima Daiichi Nuclear Power Plant Determined by Autoradiography Analysis. , 2021, , 52-62.		0
9	Abundance and distribution of radioactive cesium-rich microparticles released from the Fukushima Daiichi Nuclear Power Plant into the environment. Chemosphere, 2020, 241, 125019.	4.2	36
10	Spectroscopic and first-principles investigations of iodine species incorporation into ettringite: Implications for iodine migration in cement waste forms. Journal of Hazardous Materials, 2020, 389, 121880.	6.5	39
11	Particulate plutonium released from the Fukushima Daiichi meltdowns. Science of the Total Environment, 2020, 743, 140539.	3.9	30
12	Study on coordination structure of Re adsorbed on Mgâ€"Al layered double hydroxide using X-ray absorption fine structure. Journal of Porous Materials, 2019, 26, 505-511.	1.3	10
13	Reduction behaviors of permanganate by microbial cells and concomitant accumulation of divalent cations of Mg2+, Zn2+, and Co2+. Journal of Environmental Sciences, 2019, 86, 78-86.	3.2	3
14	Dissolution of radioactive, cesium-rich microparticles released from the Fukushima Daiichi Nuclear Power Plant in simulated lung fluid, pure-water, and seawater. Chemosphere, 2019, 233, 633-644.	4.2	33
15	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
16	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
17	Iodine speciation in a silver-amended cementitious system. Environment International, 2019, 126, 576-584.	4.8	15
18	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

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19	Uranium Dioxides and Debris Fragments Released to the Environment with Cesium-Rich Microparticles from the Fukushima Daiichi Nuclear Power Plant. Environmental Science & Technology, 2018, 52, 2586-2594.	4.6	63
20	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
21	Biomineralization of Middle Rare Earth Element Samarium in Yeast and Bacteria Systems. Geomicrobiology Journal, 2018, 35, 375-384.	1.0	17
22	Effective and efficient desorption of Cs from hydrothermal-treated clay minerals for the decontamination of Fukushima radioactive soil. Chemical Engineering Journal, 2018, 333, 392-401.	6.6	32
23	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
24	Novel Method of Quantifying Radioactive Cesium-Rich Microparticles (CsMPs) in the Environment from the Fukushima Daiichi Nuclear Power Plant. Environmental Science & Technology, 2018, 52, 6390-6398.	4.6	54
25	Adsorption of Cs onto Biogenic Birnessite: Effects of Layer Structure, Ionic Strength, and Competition Cations. ACS Earth and Space Chemistry, 2018, 2, 797-810.	1.2	16
26	Caesium-rich micro-particles: A window into the meltdown events at the Fukushima Daiichi Nuclear Power Plant. Scientific Reports, 2017, 7, 42731.	1.6	88
27	Calcium-deficient Hydroxyapatite as a Potential Sorbent for Strontium. Scientific Reports, 2017, 7, 2064.	1.6	42
28	Enhanced desorption of cesium from collapsed interlayer regions in vermiculite by hydrothermal treatment with divalent cations. Journal of Hazardous Materials, 2017, 326, 47-53.	6.5	47
29	Removal of Soluble Strontium via Incorporation into Biogenic Carbonate Minerals by Halophilic Bacterium Bacillus sp. Strain TK2d in a Highly Saline Solution. Applied and Environmental Microbiology, 2017, 83, .	1.4	20
30	Isotopic signature and nano-texture of cesium-rich micro-particles: Release of uranium and fission products from the Fukushima Daiichi Nuclear Power Plant. Scientific Reports, 2017, 7, 5409.	1.6	68
31	Effect of Temperature on K⁺ and Mg²⁺ Extracted Desorption of Cs from Vermiculitized Biotite. Chemistry Letters, 2017, 46, 1350-1352.	0.7	9
32	Effects of NH₄⁺, K⁺, Mg²⁺, and Ca²⁺ on the Cesium Adsorption/Desorption in Binding Sites of Vermiculitized Biotite. Environmental Science & Technology, 2017, 51, 13886-13894.	4.6	30
33	Sorption Behavior of Np(V) on Microbe Pure Culture and Consortia. Chemistry Letters, 2017, 46, 771-774.	0.7	0
34	Development of Paper Sludge Ash-Based Geopolymer and Application to Treatment of Hazardous Water Contaminated with Radioisotopes. Materials, 2016, 9, 633.	1.3	25
35	Direct accumulation pathway of radioactive cesium to fruit-bodies of edible mushroom from contaminated wood logs. Scientific Reports, 2016, 6, 29866.	1.6	12
36	Influence of pH, competing ions and salinity on the sorption of strontium and cobalt onto biogenic hydroxyapatite. Scientific Reports, 2016, 6, 23361.	1.6	66

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37	Root endophytic bacteria of a 137Cs and Mn accumulator plant, Eleutherococcus sciadophylloides, increase 137Cs and Mn desorption in the soil. Journal of Environmental Radioactivity, 2016, 153, 112-119.	0.9	29
38	Radioactive Cs in the estuary sediments near Fukushima Daiichi Nuclear Power Plant. Science of the Total Environment, 2016, 551-552, 155-162.	3.9	35
39	Effect of minerals on accumulation of Cs by fungus Saccaromyces cerevisiae. Journal of Environmental Radioactivity, 2015, 144, 127-133.	0.9	10
40	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
41	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
42	Adsorption of ytterbium onto Saccharomyces cerevisiae fungal cells: A pH-dependent contribution of phosphoryl functional group. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 2283-2287.	0.7	3
43	Zinc Sorption During Bio-oxidation and Precipitation of Manganese Modifies the Layer Stacking of Biogenic Birnessite. Geomicrobiology Journal, 2013, 30, 829-839.	1.0	39
44	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
45	Cobalt(II) Oxidation by Biogenic Mn Oxide Produced by<i>Pseudomonas</i>sp. Strain NGY-1. Geomicrobiology Journal, 2013, 30, 874-885.	1.0	18
46	Adsorption behavior of radioactive cesium by non-mica minerals. Journal of Nuclear Science and Technology, 2013, 50, 369-375.	0.7	64
47	Manganese and Arsenic Oxidation Performance of Bacterium-Yunotaki 86 (BY86) from Hokkaido, Japan, and the Bacterium's Phylogeny. Geomicrobiology Journal, 2013, 30, 559-565.	1.0	4
48	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
49	Redox Behavior of Uranium(VI) Adsorbed onto a Phosphate-modified Indium Tin Oxide Electrode. Chemistry Letters, 2013, 42, 888-890.	0.7	1
50	Adsorption Behavior of Lanthanide Ions on Nonbiological Phospholipid Membranes: A Model Study Using Liposome. Chemistry Letters, 2013, 42, 819-821.	0.7	6
51	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
52	Chemical states of fallout radioactive Cs in the soils deposited at Fukushima Daiichi Nuclear Power Plant accident. Journal of Nuclear Science and Technology, 2012, 49, 473-478.	0.7	69
53	Interactions of the Rare Earth Elementsâ€“Desferrioxamine B Complexes with <i>Pseudomonas fluorescens</i> and Î³-Al2O3. Chemistry Letters, 2012, 41, 98-100.	0.7	10
54	Structural factors of biogenic birnessite produced by fungus Paraconiothyrium sp. WL-2 strain affecting sorption of Co2+. Chemical Geology, 2012, 310-311, 106-113.	1.4	62

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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	Accumulation of Co in Yeast Cells under Metabolically Active Conditionâ€"Implication for Role of Yeast in Migration of Radioactive Coâ€". Journal of Nuclear Science and Technology, 2011, 48, 1206-1213.	0.7	8
57	Accumulation of Co in Yeast Cells under Metabolically Active Condition â€"Implication for Role of Yeast in Migration of Radioactive Coâ€". Journal of Nuclear Science and Technology, 2011, 48, 1206-1213.	0.7	1
58	Effects of Organic Acids on Biotransformation of Acinides. ACS Symposium Series, 2010, , 333-348.	0.5	0
59	Effects of Citrate, NTA, and EDTA on the Reduction of U(VI) by<i>Shewanella putrefaciens</i>. Geomicrobiology Journal, 2010, 27, 245-250.	1.0	29
60	Association of Actinides with Microorganisms and Clay: Implications for Radionuclide Migration from Waste-Repository Sites. Geomicrobiology Journal, 2010, 27, 225-230.	1.0	23
61	Response of <i>Saccharomyces cerevisiae</i> to Heavy Element Stress: Lead vs. Uranium. Geomicrobiology Journal, 2010, 27, 240-244.	1.0	10
62	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
63	Sorption of U(VI) on the 4-Mercaptopyridine Self-Assembled Monolayer. Journal of Nuclear Science and Technology, 2008, 45, 251-256.	0.7	3
64	Metal Sorption toPseudomonas fluorescens: Influence of pH, Ionic Strength and Metal Concentrations. Geomicrobiology Journal, 2007, 24, 205-210.	1.0	7
65	Electrochemical Studies on Uranium in the Presence of Organic Acids. Journal of Nuclear Science and Technology, 2007, 44, 1227-1232.	0.7	16
66	Chemical Speciation and Association of Plutonium with Bacteria, Kaolinite Clay, and Their Mixture. Environmental Science & Technology, 2007, 41, 3134-3139.	4.6	35
67	Electrochemical Studies on Uranium in the Presence of Organic Acids. Journal of Nuclear Science and Technology, 2007, 44, 1227-1232.	0.7	1
68	Plutonium(VI) accumulation and reduction by lichen biomass: correlation with U(VI). Journal of Environmental Radioactivity, 2004, 77, 339-353.	0.9	19
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73	Characterization of Fe-montmorillonite: A Simulant of Buffer Materials Accommodating Overpack Corrosion Product.. Journal of Nuclear Science and Technology, 2001, 38, 1141-1143.	0.7	12
74	Effects of Lichens on Uranium Migration. Materials Research Society Symposia Proceedings, 2000, 663, 1.	0.1	3
75	Field and Laboratory Examination of Uranium Microcrystallization and Its Role in Uranium Transport. Materials Research Society Symposia Proceedings, 2000, 663, 1.	0.1	5
76	Sorption Behavior of Europium During Alteration of Albite. Radiochimica Acta, 1999, 86, 161-166.	0.5	3
77	Distribution Coefficient in the Sorption of Radionuclides onto Ando Soil in the Presence of Humic Acid. Journal of Nuclear Science and Technology, 1997, 34, 829-834.	0.7	14
78	Change in Sorption Characteristics of Uranium during Crystallization of Amorphous Iron Minerals. Journal of Nuclear Science and Technology, 1997, 34, 1153-1158.	0.7	25
79	Sorption Mechanism of Europium by Apatite Using Rutherford Backscattering Spectroscopy and Resonant Nuclear React ion Analysis. Journal of Nuclear Science and Technology, 1997, 34, 58-62.	0.7	13
80	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
81	Sorption Mechanism of Europium by Apatite Using Rutherford Backscattering Spectroscopy and Resonant Nuclear Reaction Analysis.. Journal of Nuclear Science and Technology, 1997, 34, 58-62.	0.7	14
82	Distribution Coefficient in the Sorption of Radionuclides onto Ando Soil in the Presence of Humic Acid. Influence of the Molecular Size of Humic Acid.. Journal of Nuclear Science and Technology, 1997, 34, 829-834.	0.7	10
83	Weathering of Chlorite in a Quartz-Chlorite Schist: I. Mineralogical and Chemical Changes. Clays and Clay Minerals, 1996, 44, 244-256.	0.6	58
84	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
85	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
86	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
87	Sorption Behavior of Cobalt on Manganese Dioxide, Smectite and Their Mixture. Radiochimica Acta, 1995, 68, 203-207.	0.5	10
88	Effect of the Complexation on Solubility of Pu(IV) in Aqueous Carbonate System. Radiochimica Acta, 1994, 66-67, 9-14.	0.5	17
89	Effect of the Complexation on Solubility of Pu(IV) in Aqueous Carbonate System. Radiochimica Acta, 1994, 66-67, 9-14.	0.5	21
90	Redistribution of Neptunium(Y) During the Alteration of Ferrihydrite. Radiochimica Acta, 1994, 66-67, 285-290.	0.5	10

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91	Sorption Characteristics of Radioactive Cesium and Strontium on Smectite. Radiochimica Acta, 1994, 66-67, 327-332.	0.5	34
92	Sorption Characteristics of Strontium on Sandy Soils and Their Components. Radiochimica Acta, 1994, 64, 237-246.	0.5	21
93	Sorption Behavior of Neptunium on Bentonite-Effect of Calcium Ion on the Sorption -. Materials Research Society Symposia Proceedings, 1994, 353, 1021.	0.1	4
94	Uranium Fixation During Uranium Migration Under an Oxidizing Condition. Materials Research Society Symposia Proceedings, 1994, 353, 1219.	0.1	2
95	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
96	Sorption Characteristics of Radioactive Cesium and Strontium on Smectite. Radiochimica Acta, 1994, 66-67, 327-332.	0.5	2
97	Redistribution of Neptunium(Y) During the Alteration of Ferrihydrite. Radiochimica Acta, 1994, 66-67, 285-290.	0.5	0
98	Sorption Characteristics of Neptunium by Sodium-Smectite. Journal of Nuclear Science and Technology, 1993, 30, 1153-1159.	0.7	19
99	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
100	Significance of the Effect of Mineral Alteration on Nuclide Migration. Materials Research Society Symposia Proceedings, 1993, 333, 645.	0.1	3
101	Sorption Characteristics of Neptunium by Sodium-Smectite.. Journal of Nuclear Science and Technology, 1993, 30, 1153-1159.	0.7	14
102	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
103	A Modelling Study on the Fractionation of Uranium Among Minerals During Rock Weathering. Materials Research Society Symposia Proceedings, 1992, 294, 527.	0.1	3
104	Characteristics of Migration of 85Sr and 137Cs in Alkaline Solution Through Sandy Soil. Materials Research Society Symposia Proceedings, 1990, 212, 609.	0.1	1
105	Study on Role of 234Th in Uranium Series Nuclides Migration. Materials Research Society Symposia Proceedings, 1990, 212, 733.	0.1	4
106	Adsorption of Radioactive Cobalt by Mixture of Manganese Oxide and Montmorillonite. Journal of Nuclear Science and Technology, 1990, 27, 1068-1071.	0.7	3
107	Adsorption of radioactive cobalt by mixture of manganese oxide and montmorillonite.. Journal of Nuclear Science and Technology, 1990, 27, 1068-1071.	0.7	1
108	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

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109	Migration of Anionic Species of Radioactive Cobalt through Soil. Materials Research Society Symposia Proceedings, 1989, 176, 615.	0.1	0
110	Retardation Factor of a Radionuclide for Undisturbed and Disturbed Sandy Soil. Nuclear Technology, 1989, 88, 55-63.	0.7	5
111	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
112	Migration of Radionuclides (⁶⁰Co,⁸⁵Sr and¹³⁷Cs) in Alkaline Solution (pH 12) through Sandy Soil Layer. Journal of Nuclear Science and Technology, 1986, 23, 643-649.	0.7	7
113	Migration of radionuclides (60Co, 85Sr and 137Cs) in alkaline solution (pH12) through sandy soil layer.. Journal of Nuclear Science and Technology, 1986, 23, 643-649.	0.7	2
114	Migration of Radionuclides (60Co, 85Sr and 137Cs) through Saturated Sandy Soil Layer. Japanese Journal of Health Physics, 1984, 19, 13-18.	0.1	4
115	Bioleaching of Enargite by Arsenic-Tolerant <i>Acidithiobacillus Ferrooxidans</i>. Advanced Materials Research, 0, 71-73, 485-488.	0.3	3