

Yukihiko Satou

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

919
citations

687220

13
h-index

454834

30
g-index

35
all docs

35
docs citations

35
times ranked

788
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of individual radionuclide distributions from the Fukushima nuclear accident covering central-east Japan. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19526-19529.	3.3	373
2	First successful isolation of radioactive particles from soil near the Fukushima Daiichi Nuclear Power Plant. Anthropocene, 2016, 14, 71-76.	1.6	82
3	Analysis of two forms of radioactive particles emitted during the early stages of the Fukushima Dai-ichi Nuclear Power Station accident. Geochemical Journal, 2018, 52, 137-143.	0.5	79
4	A review of Cs-bearing microparticles in the environment emitted by the Fukushima Dai-ichi Nuclear Power Plant accident. Journal of Environmental Radioactivity, 2019, 205-206, 101-118.	0.9	71
5	Investigation of the Chemical Characteristics of Individual Radioactive Microparticles Emitted from Reactor 1 by the Fukushima Daiichi Nuclear Power Plant Accident by Using Multiple Synchrotron Radiation X-ray Analyses. Bunseki Kagaku, 2017, 66, 251-261.	0.1	32
6	Provenance of uranium particulate contained within Fukushima Daiichi Nuclear Power Plant Unit 1 ejecta material. Nature Communications, 2019, 10, 2801.	5.8	29
7	Pre- and post-accident ¹²⁹ I and ¹³⁷ Cs levels, and ¹²⁹ I/ ¹³⁷ Cs ratios in soil near the Fukushima Dai-ichi Nuclear Power Plant, Japan. Journal of Environmental Radioactivity, 2016, 151, 209-217.	0.9	23
8	First determination of Pu isotopes (²³⁹ Pu, ²⁴⁰ Pu and ²⁴¹ Pu) in radioactive particles derived from Fukushima Daiichi Nuclear Power Plant accident. Scientific Reports, 2019, 9, 11807.	1.6	22
9	Analysis of External Surface Irregularities on Fukushima-Derived Fallout Particles. Frontiers in Energy Research, 2017, 5, .	1.2	21
10	Activity of ⁹⁰ Sr in Fallout Particles Collected in the Difficult-to-Return Zone around the Fukushima Daiichi Nuclear Power Plant. Environmental Science & Technology, 2019, 53, 5868-5876.	4.6	20
11	Use of a size-resolved 1-D resuspension scheme to evaluate resuspended radioactive material associated with mineral dust particles from the ground surface. Journal of Environmental Radioactivity, 2017, 166, 436-448.	0.9	18
12	Post-accident response of near-surface ¹²⁹ I levels and ¹²⁹ I/ ¹²⁷ I ratios in areas close to the Fukushima Dai-ichi Nuclear Power Plant, Japan. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 569-573.	0.6	16
13	The new 6 MV multi-nuclide AMS facility at the University of Tsukuba. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 124-128.	0.6	15
14	Technological developments for strontium-90 determination using AMS. Nuclear Instruments & Methods in Physics Research B, 2015, 361, 233-236.	0.6	12
15	DNA damage induction during localized chronic exposure to an insoluble radioactive microparticle. Scientific Reports, 2019, 9, 10365.	1.6	12
16	Compositional and structural analysis of Fukushima-derived particulates using high-resolution x-ray imaging and synchrotron characterisation techniques. Scientific Reports, 2020, 10, 1636.	1.6	10
17	A sensitive method for Sr-90 analysis by accelerator mass spectrometry. Journal of Nuclear Science and Technology, 2021, 58, 72-79.	0.7	10
18	Deposition and Dispersion of Radioactive Cesium Released due to the Fukushima Nuclear Accident: 2. Sensitivity to Aerosol Microphysical Properties of Cs-Bearing Microparticles (CsMPs). Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033460.	1.2	10

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19	Inflammatory Signaling and DNA Damage Responses after Local Exposure to an Insoluble Radioactive Microparticle. <i>Cancers</i> , 2022, 14, 1045.	1.7	10
20	Isotope-selective Microscale Imaging of Radioactive Cs without Isobaric Interferences Using Sputtered Neutral Mass Spectrometry with Two-step Resonant Ionization Employing Newly-developed Ti:Sapphire Lasers. <i>Analytical Sciences</i> , 2018, 34, 1265-1270.	0.8	9
21	Vertical distribution and formation analysis of the ¹³¹ I, ¹³⁷ Cs, ¹²⁹ mTe, and ^{110m} Ag from the Fukushima Dai-ichi Nuclear Power Plant in the beach soil. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2015, 303, 1197-1200.	0.7	8
22	Formation of radioactive cesium microparticles originating from the Fukushima Daiichi Nuclear Power Plant accident: characteristics and perspectives. <i>Journal of Nuclear Science and Technology</i> , 2019, 56, 790-800.	0.7	8
23	Assessment of the Mode of Occurrence and Radiological Impact of Radionuclides in Nigerian Coal and Resultant Post-Combustion Coal Ash Using Scanning Electron Microscopy and Gamma-Ray Spectroscopy. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 241.	0.8	7
24	Atmospheric resuspension of insoluble radioactive cesium-bearing particles found in the difficult-to-return area in Fukushima. <i>Progress in Earth and Planetary Science</i> , 2022, 9, .	1.1	6
25	Development of two-color resonant ionization sputtered neutral mass spectrometry and microarea imaging for Sr. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2020, 38, 044001.	0.6	3
26	Structural and compositional characteristics of Fukushima release particulate material from Units 1 and 3 elucidates release mechanisms, accident chronology and future decommissioning strategy. <i>Scientific Reports</i> , 2020, 10, 22056.	1.6	3
27	Radiocarbon variations in tree rings since 1960 near the Tokai nuclear facility, Japan. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2019, 439, 64-69.	0.6	2
28	Pre- and Post-Accident ¹⁴ C Activities in tree rings near the Fukushima Dai-ichi Nuclear Power Plant. <i>Radiocarbon</i> , 2019, 61, 1633-1642.	0.8	2
29	Project IPAD, a database to catalogue the analysis of Fukushima Daiichi accident fragmental release material. <i>Scientific Data</i> , 2020, 7, 282.	2.4	2
30	Perspective on the Biological Impact of Exposure to Radioactive Cesium-Bearing Insoluble Particles. , 2020, , 205-213.		2
31	Monte Carlo Evaluation of Internal Dose and Distribution Imaging Due to Insoluble Radioactive Cs-Bearing Particles of Water Deposited Inside Lungs via Pulmonary Inhalation Using PHITS Code Combined with Voxel Phantom Data. , 2016, , 209-220.		1
32	Radioactive particles emitted at the 1FNPS accident. <i>Atomos</i> , 2019, 61, 446-448.	0.0	1
33	Resonant sputtered neutral mass spectrometry using multiple reflections of laser to counterbalance Doppler broadening. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2020, 38, 034001.	0.6	0
34	Improvement of mapping quality by reflection of a laser beam in Resonance-SNMS. <i>Journal of Surface Analysis (Online)</i> , 2019, 26, 204-205.	0.1	0
35	Mass spectral database for TOF-SIMS of stable isotopes of Sr and Zr. <i>Surface Science Spectra</i> , 2020, 27, 025001.	0.3	0