

令和2年度発表論文一覧 | Publications of FY2020

Category : 1: peer reviewed, 2: non peer reviewed journals/books, 3: others

ID	Title タイトル	IERAuthor	Author	Journal	Category	Month/Year	DOI
		IER著者	著者	雑誌名	分類	年月	
IER-2020-029	<a href="#">Impacts of freeze-thaw processes and subsequent runoff on <sup>137</sup>Cs washoff from bare land in Fukushima</a>	Yasunori Igarashi, Yoshifumi Wakiyama <a href="#">成果解説コラム</a> <a href="#">Column</a>	Yasunori Igarashi, Yuichi Onda, Yoshifumi Wakiyama, Kazuya Yoshimura, Hiroaki Kato, Shohei Kozuka, Ryo Manome	Science of The Total Environment	1	Online January,2021 / May,2021	10.1016/j.scitotenv.2020.144706
IER-2020-028	<a href="#">Simulation study of radionuclide atmospheric transport after wildland fires in the Chernobyl Exclusion Zone in April 2020</a>	Yasunori Igarashi <a href="#">成果解説コラム</a> <a href="#">Column</a>	Mykola Talerkoa, Ivan Kovaletsb, Tatiana Leva, Yasunori Igarashi, Olexandr Romanenko	Atmospheric Pollution Research	1	Online January,2021 / In Press	10.1016/j.chemosphere.2020.129058
IER-2020-027	<a href="#">Radiocesium distribution and mid-term dynamics in the ponds of the Fukushima Dai-ichi nuclear power plant exclusion zone in 2015-2019</a>	Alexei Konoplev, Yoshifumi Wakiyama, Tsugiko Takase, Azusa Goto, Kenji Nanba <a href="#">プレスリリース</a>	Alexei Konoplev, Yoshifumi Wakiyama, Toshihiro Wada, Cameron Udy, Volodymyr Kanivets, Maxim Ivanov, Mikhail Komissarov, Tsugiko Takase, Azusa Goto, Kenji Nanba	Chemosphere	1	February,2021	10.1016/j.chemosphere.2020.129058
IER-2020-026	<a href="#">Migration, residency and habitat utilisation by wild and cultured Japanese eels (Anguilla japonica) in a shallow brackish lagoon and inflowing rivers using acoustic telemetry</a>	Toshihiro Wada <a href="#">プレスリリース</a>	Takuji Noda, Toshihiro Wada, Hiromichi Mitamura, Manabu Kume, Takuhei Komaki, Tsuneo Fujita, Tatsuma Sato, Kaoru Narita, Manabu Yamada, Akira Matsumoto, Tomoya Hori, Junichi Takagi, Alisa Kutzer, Nobuaki Arai, Yoh Yamashita	Journal of Fish Biology	1	October,2020	10.1111/jfb.14595
IER-2020-025	<a href="#">Multifaceted effects of chronic radiation exposure in Japanese red pines from Fukushima prefecture</a>	Vasyl Yoschenko, Kenji Nanba <a href="#">プレスリリース</a>	Stanislav Geras'kin, Vasyl Yoschenko, Sofia Bitarishvili, Ekaterina Makarenko, Denis Vasilev, Alexandr Prazyan, Maria Lychenkova, Kenji Nanba	Science of the Total Environment	1	October,2020	10.1016/j.scitotenv.2020.142946
IER-2020-024	<a href="#">Radionuclides from the Fukushima Daiichi Nuclear Power Plant in terrestrial systems</a>	Yoshifumi Wakiyama <a href="#">プレスリリース</a>	Yuichi Onda, Keisuke Taniguchi, Kazuya Yoshimura, Hiroaki Kato, Junko Takahashi, Yoshifumi Wakiyama, Frederic Coppin, Hugh Smith	Nature Reviews Earth & Environment	1	October,2020	
IER-2020-023	<a href="#">Mid- to long-term radiocesium wash-off from contaminated catchments at Chernobyl and Fukushima</a>	Alexei Konoplev <a href="#">成果解説コラム</a> <a href="#">Column</a>	Alexei Konoplev, Volodymyr Kanivets, Olga Zhukova, Maria Germenchuk, Hrigory Derkach	Water Research	1	October,2020	10.1016/j.watres.2020.116514
IER-2020-022	<a href="#">Suspended Particle-Water Interactions Increase Dissolved <sup>137</sup>Cs Activities in the Nearshore Seawater during Typhoon Hagibis</a>	Hyo Takata <a href="#">プレスリリース</a>	Hyo Takata, Tatsuo Aono, Michio Aoyama, Mutsuo Inoue, Hideki Kaeriyama, Shotaro Suzuki, Tadahiko Tsuruta, Toshihiro Wada, and Yoshifumi Wakiyama	Environmental Science & Technology	1	August,2020	10.1021/acs.est.0c03254
IER-2020-021	<a href="#">Estimating biological half-lives of <sup>137</sup>Cs in a cyprinid fish Tribolodon hakonensis by a one-compartment model considering growth dilution effect</a>	Toshihiro Wada	Kouji Niizeki, Toshihiro Wada, Kenji Nanba, Keiichi Sasaki, Wataru Teramoto, Shigehiko Izumi, Hirota Nomura, Naohiko Inatomi	Fisheries Science	1	August,2020	
IER-2020-020	<a href="#">Distributions of <sup>137</sup>Cs and <sup>90</sup>Sr activity concentrations in trunk of Scots pine (Pinus sylvestris L.) in the Chernobyl zone</a>	Vasyl Yoschenko <a href="#">成果解説コラム</a> <a href="#">Column</a>	Dmytrii Holiaaka, Vasyl Yoschenko, Sviatoslav Levchuk, Valery Kashparov	Journal of Environmental Radioactivity Volume 222, 106319	1	June,2020	10.1016/j.jenvrad.2020.106319
IER-2020-019	<a href="#">Simulating dissolved <sup>90</sup>Sr concentrations within a small catchment in the Chernobyl Exclusion Zone using a parametric hydrochemical model</a>	Yasunori Igarashi, Alexei Konoplev, Mark Zheleznyak, Yoshifumi Wakiyama, Kenji Nanba <a href="#">プレスリリース</a>	Yasunori Igarashi, Yuichi Onda, Jim Smith, Sergey Obrizan, Serhii Kirieleiev, Volodymyr Demianovych, Gennady Laptev, Dmitri Bugai, Hlib Lisovy, Alexei Konoplev, Mark Zheleznyak, Yoshifumi Wakiyama, Kenji Nanba	Scientific Reports volume 10, Article number: 9818	1	June,2020	
IER-2020-018	<a href="#">Radiocesium concentrations and GPS-coupled dosimetry in Fukushima snakes</a>	Thomas G. Hinton, Tsugiko Takase, Kenji Nanba	Hannah C. Gerke, Thomas G. Hinton, Tsugiko Takase, Donovan Anderson, Kenji Nanba, James C. Beasley	Science of The Total Environment Volume 734, 139389	1	May,2020	10.1016/j.scitotenv.2020.139389

IER-2020-017	<a href="#">Integration of ecosystem science into radioecology: A consensus perspective</a>	Thomas G. Hinton	Olin E. Rhodes Jr, Francois Bré chignac, Clare Bradshaw, <b>Thomas G. Hinton</b> , Carmel Mothersill, John A. ArnoneIII, Doug P. Aubrey, Lawrence W. Barnhouse, James C. Beasley, Andrea Bonisoli-Alquati, Lindsay R. Boring, Albert L. Bryan, Krista A. Capps, Bernard Clément, Austin Coleman, Caitlin Condon, Fanny Couletot, Timothy DeVol, ... Jess K. Zimmerman	Science of The Total Environment  Volume 740, 140031	1	June,2020	10.1016/j.scitotenv.2020.140031
IER-2020-016	<a href="#">Relationship between the activity concentration of <sup>137</sup>Cs in the growing shoots of Quercus serrata and soil <sup>137</sup>Cs, exchangeable cations, and pH in Fukushima, Japan</a>	Tsutomu Kanasashi	<b>Tsutomu Kanasashi</b> , Satoru Miura, Keizo Hirai, Junko Nagakura, Hiroki Itô	Journal of Environmental Radioactivity  Volumes 220–221	1	May,2020	10.1016/j.jenvrad.2020.106276
IER-2020-015	<a href="#">Relationship between radiocaesium in muscle and physicochemical fractions of radiocaesium in the stomach of wild boar</a>	Hirofumi Tsukada	Rie Saito, Yu Nemoto, <b>Hirofumi Tsukada</b>	Scientific Reports volume 10, Article number: 6796 (2020)	1	April,2020	
IER-2020-014	<a href="#">Behavior of Radionuclides in the Environment I</a>	Alexei Konoplev	Kato Kenji, <b>Konoplev Alexei</b> , Kalmykov, Stepan N. (Eds.)		1	March,2020	
IER-2020-013	<a href="#">Mobility and bioavailability of Chernobyl-derived radionuclides in soil-water environment. Review</a>	Alexei Konoplev	<b>Alexei Konoplev</b>	In: Konoplev A., Kato K., Kalmykov N. (Eds) Behavior of Radionuclides in the Environment II. Springer	1	June,2020	
IER-2020-012	<a href="#">Distribution and dynamics of radionuclides in the Chernobyl Cooling Pond</a>	Alexei Konoplev	Volodymyr Kanivets, Gennady Laptev, <b>Alexei Konoplev</b> , Hlib Lisovyi, Grygorii Derkach and Oleg Voitsekhovych	In: Konoplev A., Kato K., Kalmykov N. (Eds) Behavior of Radionuclides in the Environment II. Springer	1	June,2020	
IER-2020-011	<a href="#">Long-term dynamics of Chernobyl-derived radionuclides in rivers and lakes</a>	Alexei Konoplev	<b>Alexei Konoplev</b> , Volodymyr Kanivets, Gennady Laptev, Oleg Voitsekhovich, Olga Zhukova, Maria Germenchuk	In: Konoplev A., Kato K., Kalmykov N. (Eds) Behavior of Radionuclides in the Environment II. Springer	1	June,2020	
IER-2020-010	<a href="#">Behavior of the Chernobyl-derived radionuclides in forest ecosystems and effects of radiation.</a>	V. Yoschenko	<b>V. Yoschenko</b> , V. Kashparov and T. Ohkubo	In: Konoplev A., Kato K., Kalmykov N. (Eds) Behavior of Radionuclides in the Environment II. Springer	1	June,2020	
IER-2020-009	<a href="#">Sediment amount and <sup>137</sup>Cs activity concentrations in sediment from soil erosion plots on a cultivated farmland and a grassland in Date city, Fukushima prefecture</a>	Wakiyama, Y., Igarashi, Y.	<b>Wakiyama, Y.</b> , Onda, Y., <b>Igarashi, Y.</b>	CRIED, University of Tsukuba	3	March,2020	10.34355/IER.Fukushima.U.00017
IER-2020-008	<a href="#">Cesium-137 activity concentration in suspended sediments in turbid water in paddy fields in Fukushima</a>	Wakiyama, Y.	<b>Wakiyama, Y.</b> , Onda, Y., Yoshimura, K.	CRIED, University of Tsukuba	3	January,2020	10.1080/00223131.2014.914451
IER-2020-007	<a href="#">Open Water Flow in a Wet/Dry Multiply-Connected Channel Network: A Robust Numerical Modeling Algorithm</a>	Mark Zheleznyak, Vasyi Yoschenko	Sergii Kivva, <b>Mark Zheleznyak</b> , Oleksandr Pylypenko, <b>Vasyi Yoschenko</b>	Pure and Applied Geophysics	1	March,2020	
IER-2020-006	<a href="#">Effects of chronic low-dose radiation on cataract prevalence and characterization in wild boar (Sus scrofa) from Fukushima, Japan</a>	Thomas G. Hinton	Samantha L. Pederson, Margaret C. Li Puma, Joshua M. Hayes, Kei Okuda, Christopher M. Reilly, James C. Beasley, Lance C. Li Puma, <b>Thomas G. Hinton</b> , Thomas E. Johnson, Kate S. Freeman	Scientific Reports (2020) 10:4055	1	March,2020	
IER-2020-005	<a href="#">Impact of wildfire on <sup>137</sup>Cs and <sup>90</sup>Sr wash-off in heavily contaminated forests in the Chernobyl exclusion zone</a>	Yasunori Igarashi, Yoshifumi Wakiyama, Alexei Konoplev, Mark Zheleznyak, Kenji Nanba	<b>Yasunori Igarashi</b> , Yuichi Onda, <b>Yoshifumi Wakiyama</b> , <b>Alexei Konoplev</b> , <b>Mark Zheleznyak</b> , Hlib Lisovyi, Gennady Laptev, Volodyill Damiyanovich, Dmitry Samoilov, <b>Kenji Nanba</b> , Serhii Kirieiev	Environmental Pollution, Volume 259, 113764	1	April, 2020	10.1016/j.envpol.2019.113764
IER-2020-004	<a href="#">Temporal trends of <sup>137</sup>Cs concentration in seawaters and bottom sediments in coastal waters around Japan: implications for the Kd concept in the dynamic marine environment</a>	Hyo Takata	Masashi Kusakabe, <b>Hyo Takata</b>	Journal of Radioanalytical and Nuclear Chemistry 323, 567-580(2020)	1	January, 2020	
IER-2020-003	<a href="#">Rewilding of Fukushima's human evacuation zone</a>	T. Hinton	P. Lyons, K. Okuda, M. Hamilton, <b>T. Hinton</b> , J. Beasley	Frontiers in Ecology and the Environment	1	January, 2020	10.1002/fee.2149
IER-2020-002	<a href="#">Linking heterogeneous distribution of radiocaesium in soils and pond sediments in the Fukushima Daiichi exclusion zone to mobility and potential bioavailability</a>	T. Wada, T. G. Hinton	E. Reinoso-Maset, J. Brown, M. N. Pettersen, F. Steenhuisen, A. Tetteh, <b>T. Wada</b> , <b>T. G. Hinton</b> , B. Salbu, O. C. Lind	Journal of Environmental Radioactivity, Volume 211, 106080	1	January, 2020	10.1016/j.jenvrad.2019.106080
IER-2020-001	<a href="#">The contribution of <sup>137</sup>Cs export flux from the Tone River Japan to the marine environment</a>	Hyo Takata	<b>Hyo Takata</b> , Naohiko Inatomi, Natsumi Kudo	Science of The Total Environment, Volume 701, 134550	1	January, 2020	10.1016/j.scitotenv.2019.134550
IER-2021-016	<a href="#">Accumulation of <sup>137</sup>Cs in aggregated organo-mineral assemblage in pasture soils 8 years after the accident at Fukushima Daiichi nuclear power plant</a>	H. Tsukada	<b>H. Tsukada</b> , D. Yamada and N. Yamaguchi	Science of the Total Environment	1	22-Mar-22	10.1016/j.scitotenv.2021.150688
IER-2021-015	<a href="#">Planned release of contaminated water from the Fukushima storage tanks into the ocean: simulation scenarios of radiological impact for aquatic biota and human from seafood consumption</a>	Hyo Takata	Roman Bezhenar, <b>Hyo Takata</b> , Govert de With, Vladimir Maderich	Marine Pollution Bulletin	1	Dec-21	10.1016/j.marpolbul.2021.112969
IER-2021-014	<a href="#">Importance of desorption process from Abukuma River's suspended particles in increasing dissolved <sup>137</sup>Cs in coastal water during river-flood caused by typhoons</a>	Takata H, Wakiyama Y, Igarashi Y, Konoplev A	<b>Takata H</b> , <b>Wakiyama Y</b> , Niida T, <b>Igarashi Y</b> , <b>Konoplev A</b>	Chemosphere	1	Oct-21	10.1016/j.chemosphere.2021.130751
IER-2021-013	<a href="#">Factors controlling dissolved <sup>137</sup>Cs activities in coastal waters on the eastern and western sides of Honshu, Japan</a>	Hyo Takata, Toshihiro Wada, Tsutomu Kanasashi	<b>Hyo Takata</b> , <b>Toshihiro Wada</b> , Tatsuo Aono, Mutsuo Inoue, Tsutomu Kanasashi, Shotaro Suzuki, Yosuke Amano	Science of the Total Environment	1	1-Feb-22	10.1016/j.scitotenv.2021.151216

IER-2021-012	<a href="#">Evaluation of DNA damage and stress in wildlife chronically exposed to low-dose, low-dose rate radiation from the Fukushima Dai-ichi Nuclear Power Plant accident.</a>	Ishiniwa H	Cunningham K, Hinton TG, Luxton JJ, Bordman A, Okuda K, Taylor LE, Hayes J, Gerke HC, Chinn SM, Anderson D, Laudenslager ML, Takase T, Nemoto Y, <a href="#">Ishiniwa H</a> , Beasley JC, Bailey SM	Environment International	1	Oct-21	10.1016/j.envint.2021.106675
IER-2021-011	<a href="#">Introgression dynamics from invasive pigs into wild boar following the March 2011 natural and anthropogenic disasters at Fukushima</a>	Ishiniwa H	Anderson D, Negishi Y, <a href="#">Ishiniwa H</a> , Okuda K, Hinton TG, Toma R, Nagata J, Tamate HB, Kaneko S	Proceedings of Royal Society B	1	30-Jun-21	10.1098/rspb.2021.0874
IER-2021-010	<a href="#">Proteomic biomarker analysis of serum from Japanese field mice (Apodemus speciosus) collected within the Fukushima difficult-to-return zone</a>	Ishiniwa H, Nanba K	Sproull M, Hayes J, <a href="#">Ishiniwa H</a> , <a href="#">Nanba K</a> , Shankavaram U, Camphausen K, Johnson TE	Health Physics	1	1-Dec-21	
IER-2021-009	<a href="#">Impacts of freeze-thaw processes and subsequent runoff on <sup>137</sup>Cs washoff from bare land in Fukushima</a>	Igarashi Y., Nanba K., Wada T., Wakiyama Y., Konoplev A.	<a href="#">Igarashi Y.</a> , Onda Y., <a href="#">Wakiyama Y.</a> , Yoshimura K., Kato H., Kozuka S., Manome R.	Science of The Total Environment	1	15-May-21	10.1016/j.scitotenv.2020.1447066et
IER-2021-008	<a href="#">Factors Controlling the Dissolved <sup>137</sup>Cs Seasonal Fluctuations in the Abukuma River Under the Influence of the Fukushima Nuclear Power Plant Accident</a>	Igarashi Y., Nanba K., Wada T., Wakiyama Y., Konoplev A.	<a href="#">Igarashi Y.</a> , <a href="#">Nanba K.</a> , <a href="#">Wada T.</a> , <a href="#">Wakiyama Y.</a> , Onda Y., Moritaka S., <a href="#">Konoplev A.</a>	Journal of Geophysical Research: Biogeosciences	1	05 January 2022	10.1029/2021JG006591
IER-2021-007	<a href="#">Transformation of radiocesium speciation in ponds at the vicinity of Fukushima Dai-ichi nuclear power plant and dynamics of its distribution in sediment-water system.</a>	A. V. Konoplev, Y. Wakiyama, T. Wada, K. Nanba	<a href="#">A. V. Konoplev</a> , <a href="#">Y. Wakiyama</a> , <a href="#">T. Wada</a> , M. Ivanov, M. A. Komissarov <a href="#">K. Nanba</a>	Russian Meteorology and Hydrology	1	26-Aug-21	10.3103/S1068373921050058
IER-2021-006	<a href="#">Semi-empirical diffusional model of radionuclide wash-off from contaminated watersheds and its testing using monitoring data for Fukushima and Chernobyl rivers</a>	Konoplev A	<a href="#">Konoplev A.</a> , V. I. Kanivets, O. M. Zhukova, M. G. Germenchuk, G. A. Derkach	Geochemistry International	1	17-Jun-21	10.1016/j.envres.2021.112307
IER-2021-005	<a href="#">A comparative study of riverine <sup>137</sup>Cs dynamics during high-flow events at three contaminated river catchments in Fukushima</a>	Wakiyama Y, Takata H, Konoplev A <a href="#">プレスリリース</a>	Niida T, <a href="#">Wakiyama Y.</a> , <a href="#">Takata H.</a> , Taniguchi K, Kurosawa H, Fujita K, <a href="#">Konoplev A</a>	Science of the Total Environment		Online 15 May 2022	10.1016/j.scitotenv.2022.153408
IER-2021-004	<a href="#">Evaluation of DNA damage and stress in wildlife chronically exposed to lowdose, low-dose rate radiation from the Fukushima Dai-ichi Nuclear Power Plant accident</a>	Thomas G. H, Tsugiko T, Hiroko I <a href="#">プレスリリース</a> <a href="#">Press Release in the U.S.</a>	Kelly C, <a href="#">Thomas G. H.</a> , Jared J. L, Aryn B, Kei O, Lynn E. T, Josh H, Hannah C, G. Sarah M, C. Donovan A, Mark L. L, <a href="#">Tsugiko T.</a> , Yui N, <a href="#">Hiroko I.</a> , James C. B, Susan M. B	Environment International	1	Online June, 2021	10.1016/j.envint.2021.106675
IER-2021-003	<a href="#">Spots pine stands biomass assessment using 3D data from unmanned aerial vehicle imagery in the Chernobyl Exclusion Zone</a>	Vasyl Y, Yasunori I, Kenji N <a href="#">プレスリリース</a>	Dmytrii H, Hiroaki K, <a href="#">Vasyl Y.</a> , Yuichi O, Yasunori J, Kenji N, Petro D, Maryna H, Roman Z, Valery K, Ihor C	Journal of Environmental Management	1	Online May, 2021	10.1016/j.jenvman.2021.113319
IER-2021-002	<a href="#">Importance of desorption process from Abukuma River's suspended particles in increasing dissolved <sup>137</sup>Cs in coastal water during river-flood caused by typhoons</a>	Hyo T, Yoshifumi W, Takuya N, Yasunori I, Aleksei K <a href="#">プレスリリース</a>	<a href="#">Hyo T.</a> , <a href="#">Yoshifumi W.</a> , Takuya N, <a href="#">Yasunori I.</a> , <a href="#">Aleksei K.</a> , Naohiko I	Chemosphere	1	Online July, 2021	10.1016/j.chemosphere.2021.130751
IER-2021-001	<a href="#">Introgression dynamics from invasive pigs into wild boar following the March 2011 natural and anthropogenic disasters at Fukushima</a>	Ishiniwa H, Hinton T, Kaneko S <a href="#">プレスリリース</a>	Anderson D, Negishi Y, <a href="#">Ishiniwa H.</a> , Okuda K, <a href="#">Hinton T.</a> , Toma R, Nagata J, Tamate HB, <a href="#">Kaneko S</a>	Proceedings of the Royal Society B: Biological Sciences	1	June, 2021	10.1098/rspb.2021.0874