

Luigi Monte

List of Publications by Year in descending order

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60
papers

948
citations

430874

18
h-index

501196

28
g-index

61
all docs

61
docs citations

61
times ranked

488
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Analysis of the Riverine Transport of ⁹⁰ Sr and ¹³⁷ Cs. Environmental Science & Technology, 2004, 38, 850-857.	10.0	85
2	Evaluation of radionuclide transfer functions from drainage basins of fresh water systems. Journal of Environmental Radioactivity, 1995, 26, 71-82.	1.7	55
3	Review and assessment of models for predicting the migration of radionuclides from catchments. Journal of Environmental Radioactivity, 2004, 75, 83-103.	1.7	44
4	Review and assessment of models used to predict the fate of radionuclides in lakes. Journal of Environmental Radioactivity, 2003, 69, 177-205.	1.7	43
5	A collective model for predicting the long-term behaviour of radionuclides in rivers. Science of the Total Environment, 1997, 201, 17-29.	8.0	39
6	Review and assessment of models for predicting the migration of radionuclides through rivers. Journal of Environmental Radioactivity, 2005, 79, 273-296.	1.7	35
7	Modelling of radiocesium in lakes – the VAMP model. Journal of Environmental Radioactivity, 1996, 33, 255-308.	1.7	33
8	Indoor Measurements of Airborne Natural Radioactivity in Italy. Radiation Protection Dosimetry, 1984, 7, 347-351.	0.8	32
9	Uncertainty analysis and validation of environmental models: the empirically based uncertainty analysis. Ecological Modelling, 1996, 91, 139-152.	2.5	31
10	The role of physical processes controlling the behaviour of radionuclide contaminants in the aquatic environment: a review of state-of-the-art modelling approaches. Journal of Environmental Radioactivity, 2009, 100, 779-784.	1.7	31
11	A generic model for assessing the effects of countermeasures to reduce the radionuclide contamination levels in abiotic components of fresh water systems and complex catchments. Environmental Modelling and Software, 2001, 16, 669-690.	4.5	24
12	MOIRA-PLUS: A decision support system for the management of complex fresh water ecosystems contaminated by radionuclides and heavy metals. Computers and Geosciences, 2009, 35, 880-896.	4.2	24
13	Collective models in environmental sciences. Science of the Total Environment, 1996, 192, 41-47.	8.0	23
14	Experiences from a case study of multi-model application to assess the behaviour of pollutants in the Dnieper – Bug Estuary. Ecological Modelling, 2006, 195, 247-263.	2.5	22
15	Recommendations from the international union of radioecology to improve guidance on radiation protection. Integrated Environmental Assessment and Management, 2011, 7, 411-413.	2.9	22
16	The behaviour of ¹³⁷ Cs in some edible fruits. Journal of Environmental Radioactivity, 1990, 11, 207-214.	1.7	21
17	The Italian national survey of indoor radon exposure. Science of the Total Environment, 1985, 45, 327-333.	8.0	20
18	A Simple Formula to Predict Approximate Initial Contamination of Lake Water Following a Pulse Deposition of Radionuclide. Health Physics, 1995, 68, 397-400.	0.5	20

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19	Modelling of radiocesium in lakes – Lake sensitivity and remedial strategies. <i>Journal of Environmental Radioactivity</i> , 1996, 33, 1-25.	1.7	20
20	Analysis of Models Assessing the Radionuclide Migration from Catchments to Water Bodies. <i>Health Physics</i> , 1996, 70, 227-237.	0.5	16
21	A methodology for modelling the contamination of moving organisms in water bodies with spatial and time dependent pollution levels. <i>Ecological Modelling</i> , 2002, 158, 21-33.	2.5	16
22	Predicting the long term behaviour of ⁹⁰ Sr in lacustrine systems by a collective model. <i>Ecological Modelling</i> , 1998, 106, 141-159.	2.5	15
23	Inter-comparison of population models for the calculation of radiation dose effects on wildlife. <i>Radiation and Environmental Biophysics</i> , 2012, 51, 399-410.	1.4	15
24	Assessment of state-of-the-art models for predicting the remobilisation of radionuclides following the flooding of heavily contaminated areas: the case of Pripyat River floodplain. <i>Journal of Environmental Radioactivity</i> , 2006, 88, 267-288.	1.7	14
25	Assessment, validation and intercomparison of operational models for predicting tritium migration from routine discharges of nuclear power plants: the case of Loire River. <i>Journal of Environmental Radioactivity</i> , 2008, 99, 367-382.	1.7	14
26	Predicting the migration of dissolved toxic substances from catchments by a collective model. <i>Ecological Modelling</i> , 1998, 110, 269-279.	2.5	13
27	Testing models for predicting the behaviour of radionuclides in aquatic systems. <i>Applied Radiation and Isotopes</i> , 2008, 66, 1736-1740.	1.5	13
28	A Predictive Model for the Behavior of Radionuclides in Lake Systems. <i>Health Physics</i> , 1993, 65, 288-294.	0.5	12
29	Quantitative assessment of the long term behaviour of ⁹⁰ Sr in Lake Uruskul, Southern Urals, Russia. <i>Journal of Environmental Radioactivity</i> , 2002, 62, 61-74.	1.7	12
30	The sensitivity of different environments to radioactive contamination. <i>Journal of Environmental Radioactivity</i> , 2013, 122, 1-8.	1.7	12
31	Chapter 6 Radioactivity in lakes and rivers. <i>Radioactivity in the Environment</i> , 2003, 4, 147-200.	0.2	11
32	Modelling the long-term behaviour of radiocaesium and radiostrontium in two Italian lakes. <i>Journal of Environmental Radioactivity</i> , 2005, 80, 105-123.	1.7	11
33	Predicting the effects of ionising radiation on ecosystems by a generic model based on the Lotka – Volterra equations. <i>Journal of Environmental Radioactivity</i> , 2009, 100, 477-483.	1.7	11
34	A predictive model for the behaviour of dissolved radioactive substances in stratified lakes. <i>Journal of Environmental Radioactivity</i> , 1991, 13, 297-308.	1.7	10
35	Model testing of radioactive contamination by ⁹⁰ Sr, ¹³⁷ Cs and ^{239,240} Pu of water and bottom sediments in the Techa River (Southern Urals, Russia). <i>Science of the Total Environment</i> , 2009, 407, 2349-2360.	8.0	10
36	Bioaccumulation of ¹³⁷ Cs in the Main Species of Fishes in Lakes of Central Italy. <i>Radiochimica Acta</i> , 1993, 60, 219-222.	1.2	10

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37	Evaluation of the environmental transfer parameters for ¹³¹ I and ¹³⁷ Cs using the contamination produced by the Chernobyl accident at a site in central Italy. <i>Journal of Environmental Radioactivity</i> , 1990, 12, 13-22.	1.7	9
38	Analysis of radiocontamination data, collected in Italy following the Chernobyl accident, for the evaluation of transfer parameters of radionuclides in the deposition-vegetation-cow-milk pathway. <i>Journal of Environmental Radioactivity</i> , 1991, 14, 317-329.	1.7	8
39	Modelling the radionuclide balance in some water bodies of central Italy. <i>Journal of Environmental Radioactivity</i> , 1997, 37, 269-285.	1.7	8
40	profile in soil samples from the East Urals Radioactive Trail (EURT): a quantitative approach. <i>Journal of Environmental Radioactivity</i> , 2000, 49, 85-96.	1.7	8
41	Computerised Decision Support Systems for the management of freshwater radioecological emergencies: assessment of the state-of-the-art with respect to the experiences and needs of end-users. <i>Journal of Environmental Radioactivity</i> , 2011, 102, 119-127.	1.7	8
42	Multi-model approach and evaluation of the uncertainty of model results. Rationale and applications to predict the behaviour of contaminants in the abiotic components of the fresh water environment. <i>Ecological Modelling</i> , 2009, 220, 1469-1480.	2.5	7
43	Customisation of the decision support system MOIRA-PLUS for applications to the marine environment. <i>Journal of Environmental Radioactivity</i> , 2011, 102, 1112-1116.	1.7	7
44	Characterisation of a nonlinear Leslie matrix model for predicting the dynamics of biological populations in polluted environments: Applications to radioecology. <i>Ecological Modelling</i> , 2013, 248, 174-183.	2.5	7
45	Modelling and assessment of the impact of radiocesium and radiostrontium contamination in the Thermaikos Gulf, Greece. <i>Science of the Total Environment</i> , 2015, 533, 133-143.	8.0	6
46	Long-term management of contaminated freshwater bodies and catchments. Decision making exercise with the MOIRA system. <i>Radioprotection</i> , 2009, 44, 683-688.	1.0	6
47	Regional-scale application of the decision support system MOIRA-PLUS: an example of assessment of the radiological impact of the Chernobyl accident on the fresh water ecosystem in Italy. <i>Journal of Environmental Radioactivity</i> , 2011, 102, 73-83.	1.7	5
48	Predicting the effect of ionising radiation on biological populations: testing of a non-linear Leslie model applied to a small mammal population. <i>Journal of Environmental Radioactivity</i> , 2013, 122, 63-69.	1.7	5
49	Application of the migration models implemented in the decision system MOIRA-PLUS to assess the long term behaviour of ¹³⁷ Cs in water and fish of the Baltic Sea. <i>Journal of Environmental Radioactivity</i> , 2014, 134, 136-144.	1.7	5
50	A general methodology for structuring models to predict the long-term migration of radionuclides from catchments. <i>Journal of Environmental Radioactivity</i> , 2002, 59, 153-168.	1.7	4
51	A methodological approach to develop "contaminant migration" population effects models. <i>Ecological Modelling</i> , 2009, 220, 3280-3290.	2.5	4
52	Nonlinear Leslie models for the assessment of the effects of stressors on the development of wild populations: reviewing of the basic properties. <i>Journal of Interdisciplinary Mathematics</i> , 2018, 21, 83-109.	0.7	4
53	Migration processes of ¹³⁷ Cs and ⁹⁰ Sr in compartments of a lake ecosystem. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2005, 266, 31-37.	1.5	3
54	End-users'™ expectations and experiences with the decision support system MOIRA-PLUS. <i>Radioprotection</i> , 2010, 45, S251-S262.	1.0	2

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55	Modelling multiple dispersion of radionuclides through the environment. Journal of Environmental Radioactivity, 2010, 101, 134-139.	1.7	1
56	A few considerations on some current modelling approaches to assess the impact of radiation on the population size of wildlife species. Journal of Environmental Radioactivity, 2021, 237, 106686.	1.7	1
57	Integration of long-term radionuclide transport models MOIRA-LAKE and MOIRA-RIVER into Hydrological Dispersion Module of JRODOS. Radioprotection, 2016, 51, S141-S143.	1.0	1
58	Modelling the long-term behaviour of radioactive substances in fresh water systems: role of migration from catchment basins and of radionuclide exchange between water and sediment. Studies in Environmental Science, 1997, , 433-440.	0.0	0
59	Comparative analyses of different modelling approaches to simulate radionuclide transport through the Dnieper reservoirs based on extremal flood 1999 scenario. Radioprotection, 2002, 37, C1-677-C1-682.	1.0	0
60	Indoor Measurements of Airborne Natural Radioactivity in Italy. Radiation Protection Dosimetry, 1984, 7, 347-351.	0.8	0