RESRAD Bibliography – A List of Publications Using or Referencing the RESRAD Family of Codes

June 6, 2024

The RESRAD Team conducted a literature search for articles related to the RESRAD family of codes using search engines such as Google Scholar and ORCID, etc. Over 2,000 publications, including journal articles, books and book chapters, technical reports, conference papers, posters and abstracts, and dissertations and theses, were found. These articles either use or reference the RESRAD family of codes and cover a wide range of topics, including benchmarking, verification, validation, peer-reviewing, and applications of the RESRAD family of codes. RESRAD Team members started verifying these articles, and the first batch of verified articles is listed below. Additional articles will be added periodically once verified. RESRAD users are encouraged to provide their publications for inclusion in the list. Those having any questions or comments about this RESRAD Bibliography, or wishing to submit an article related to RESRAD, may respond by emailing resrad@anl.gov.

Journal Articles

1. Askri, B., K. Bergaoui, and A. Trabelsi, 2024, "Estimating External Exposure from Different Source Geometries in Soil Contaminated by Gamma-Ray Emitting Radionuclides: A computational Model Combining Monte Carlo Simulation and Mathematical Transformation," *Radiation Measurements*, 172, 107080.
2. Berliantoro, F. I., et al., 2024, "Potential of Radiological Norm on Reclamation Land of Ex-Coal Mine, South Sumatra Indonesia," *Social Science Research Network (SSRN)*, https://ssrn.com/abstract=4690477.
3. Dao, N. Q., V. N. Ba, P. T. X. Mai, & T. T. H. Loan, 2024, "Assessment of Radiological Doses of Raw Building Materials and CEN Room Model Using RESRAD-BUILD," *Annals of Nuclear Energy*, 202, 110459.

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5. Hoa, B.T., Y. Jo, and J. Y. Lee, 2024, "Preliminary Assessment of Derived Concentration Guideline Level (DCGL) for a Hypothetical Contaminated Site Planned for Ninh Thuan 1 Nuclear Power Plant Project in Vietnam by Using RESRAD-ONSITE Code," *Nuclear Engineering and Technology*, https://doi.org/10.1016/j.net.2024.01.038.
6. Kim, G.-H., I. Kim, and K. P. Kim, 2024, "Assessment of Soil Density and Distribution Coefficient of Cs-137 for Deriving DCGLs in Korea Research Reactor Unit 1 and 2," *Nuclear Engineering and Technology*, in press.
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9. Muhammad, A. N., A. F. Ismail, and N. N. Garba, 2024, "RESRAD-ONSITE Simulation to Evaluate the Effect of Contamination Thickness in Determining the Dose and Excess Lifetime Cancer Risk Due to Tin Mining Activities in Nigeria," *Radiation Effects and Defects in Solids*, 1–17, https://doi.org/10.1080/10420150.2024.2313574.
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11. Oboo, M., V. B. Nytak, N. Bulelwa, and J. Kim, 2024, "Consequence Assessment of Hypothetical Urban Radiological Dispersal Device Incident in Korea," *Journal of Environmental Radioactivity*, 272, 107332.
12. Salama, M. H., et al., 2024, "Evaluation of Cs-137 and Natural Radionuclides on Different Marine Biota (Crustacean and Fishes) along Beheira Governorate Coast-Egypt: RESRAD-BIOTA," *International Journal of Radiation Biology*, 100(1):122-130.
13. Stendardo, G., et al., 2024, "Evaluation of RESRAD-BUILD and MicroShield Codes for the Simulation of Small Accident Scenarios in Nuclear Medicine Therapy Patients' Rooms," *The European Physical Journal Plus*, 139(4):347.
14. Venoso, G., et al., 2024, "Development of a Methodology for Assessing Radiological Dose Due to Use of Norm Sludge as Fertilizer," *Science of the Total Environment*, 912, 168934.
15. Yarmoshenko, I. V., et al., 2024, "Relationship between Ra-226 Activity Concentration in Building Materials and Indoor Radon Concentration: An Example of Russian High-rise Residential Buildings," *Journal of Environmental Radioactivity*, 272, 107345.

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