

Publications on studies at the upper Silesian Coal Basin sites

- Chałupnik, S., Michalik B., Wysocka, M., Skubacz K., Mielnikow A., (2001). Contamination of settling ponds and rivers as a result of discharge radium-bearing waters from Polish coal mines. *J. Environ. Radioact.* 54, 85-98. [http://doi.org/10.1016/S0265-931X\(00\)00168-5](http://doi.org/10.1016/S0265-931X(00)00168-5)
- Chałupnik, S., Wysocka, M., Mielnikow, A., Michalik, B., Skowronek, J., (2004). Radium balance in discharge waters from coal mines in upper Silesia region. p. 682-695.-Conference Proceedings NORM IV Conference May 2004, Szczyrk POLAND.
- Chałupnik, S. (2005). Impact of radium-bearing mine waters on the natural environment. *Radioactivity in the Environment 7*: 985-995. Elsevier Ltd.
- Chałupnik, S., Wysocka, M. (2008) Radium removal from mine waters in underground treatment installations. *J. Environ. Radioact.* 99, 1548-1552. <http://doi.org/10.1016/j.jenvrad.2007.12.024>
- Chałupnik, S., Wysocka, M. (2009). Radium balance in discharge waters from coal mines in Poland the ecological impact of underground water treatment. *Radioprotection*, 44: 813-820. <https://doi.org/10.1051/radiopro/20095145>
- Geras'kin, S., Oudalova, A., Michalik, B., Dikareva, N., Dikarev, V. (2011). Geno-toxicity assay of sediment and water samples from the Upper Silesia post-mining areas, Poland by means of Allium-test. *Chemosphere* 83, 1133-1146. <http://doi.org/10.1016/j.chemosphere.2011.01.008>
- Jankowski, A. T., Molenda, T., Rzetala, M., Bebel, M., Mitko, K. (2005). Heavy metals in bottom deposits of anthropogenic water reservoirs (a case study of settlement tanks of mine waters). *Limnological Rev.* 5, 101-105. <http://doi.org/10.2478/s11756-014-0369-5>
- Helios Rybicka, E. (1996) Impact of mining and metallurgical industries on the environment in Poland. *Appl. Geochem.* 11, 3-9. [https://doi.org/10.1016/0883-2927\(95\)00083-6](https://doi.org/10.1016/0883-2927(95)00083-6)
- Hosseini, A., Brown, J. E., Szymańska, M., Ciupek, K. (2011). Application of an environmental impact assessment methodology for areas exhibiting enhanced levels of NORM in Norway and Poland. *Radioprotection* 46 (6), S759-S764. <https://doi.org/10.1051/radiopro/20116883s>
- Kubiak-Wójcicka, Michal Marszelewski. (2012). Definitions and evolutions of the terms "flowing and stagnant waters" in the context of the proprietorship of the lakes in Poland. *Limnological Rev.* 12, 189-195. <https://doi.org/10.2478/v10194-012-0059-z>
- Labus K., Paszek L. (2000) Model migracji zasolonych wód powierzchniowych na przykładzie zbiornika Rontok Duży (Model of salt-containing surface waters migration taking the Rontok Duży reservoir (Poland) as an example). In: *Zeszyty Naukowe Politechniki Śląskiej, Górnictwo*, 246-1: 273-283 (in Polish).
- Leopold, K., Michalik, B., Wiegand J. (2007). Availability of radium isotopes and heavy metals from scales and tailings of Polish hard coal mining. *J. Environ. Radioact.* 94, 137-150. <http://doi.org/10.1016/j.jenvrad.2007.01.002>
- Michalik, B., Chalupnik, S., Wysocka, M., Skubacz, K. (2002). Ecological problems of the coal industry and the ways to solve them. *J. Mining Sci.* 38, 601-607. <http://doi.org/10.1023/A:1024994411256>
- Michalik, B. (2004) Environmental pollution caused by natural radioactivity occurring in mining industry – the scale of the problem. *Sustainable Post-Mining Land Management*, Edited by: Euromines, CBPM CUPRUM Wrocław and Mineral and Energy Economy Research Institute Polish Academy of Science, Kraków, ISBN 83-906885-9-Y, Wrocław 2004, p. 145-154.
- Michalik, B., Wysocka, M., Chalupnik, S., Skubacz, K., Mielnikow, A., Trzaski, L. (2005). Contamination caused by radium discharged with mine effluents into inland waters. *Radioprotection*, Suppl. 1, Vol. 40 S503-S509. <https://doi.org/10.1051/radiopro:2005s1-074>

- Michalik, B. (2008). NORM impacts on the environment: An approach to complete environmental risk assessment using the example of areas contaminated due to mining activity. (2008) Appl. Radiat. Isotopes 66, 1661-1665.
<http://doi.org/10.1016/j.apradiso.2008.01.025>
- Michalik, B., Wysocka, M., Chmielewska, I. (2009). Phytotechnology – is there a possibility to use it for land reclamation of areas contaminated by Technologically Enhanced Naturally Occurring Radioactive Materials? Radioprotection 44 (5), 799-804.
<https://doi.org/10.1051/radiopro/20095143>
- Michalik, B. (2011). Radioactive contamination of environment caused by activity of underground mines. Monografie. Nr.883. Monograph, Prace Naukowe Głównego Instytutu Górnictwa / GIG research works/STUDIA – ROZPRAWY. ISSN 1230-2643 (in Polish).
- Pluta, I., Trembaczowski, A. (2001). Changes of the chemical composition of discharged coal mine water in the Rontok Pond, Upper Silesia, Poland. Environ. Geol. 40 (4-5), 454-457.
<https://doi.org/10.1007/s002540000176>
- Polanska, I., Prajsnar, J., Pudlik P. (2000). The role of Anthropopression in Formation of Ecosystems <http://lib.chdu.edu.ua/pdf/naukstud/3/11.pdf>
- Slezia, M., Dulinski, M. (2012). Spatial Distribution of equivalent gamma dose rate in the vicinity of mine water sedimentation ponds in Upper Silesian Coal Basin. Nukleonika 57 (4), 597-599. <http://www.ichtj.waw.pl/nukleonika/?p=798>
- [STAR deliverable 2.3] Strategy for Allied Radioecology (STAR) http://www.radioecology-exchange.org/sites/www.radioecology-exchange.org/files/STAR_Deliverable-2.3.pdf
- [STAR Milestone 2.6] Selection of European Observatories for Radioecological Research – Evaluation Report. Strategy for Allied Radioecology (STAR).
- Trabidou, G., Michalik, B., Bokori, Ed., Chmielewska, I. (2008) Natural radioactivity status in mining settling ponds: Bioaccumulation of Radium in biota and derived dose. Proceedings of the fifth international symposium on naturally occurring radioactive material. Seville, 19-22 March 2007, International Energy Agency IAEA Proceedings series. Posters.
- Wysocka, M., Chałupnik, S., Mienikow, A. (2004) Investigation of abandoned surface settling ponds. Naturally occurring radioactive materials (NORM IV). Proceedings of an international conference held in Szczyrk, Poland, 17–21 May 2004, IAEA TECDOC-1472. <http://www-pub.iaea.org/books/IAEABooks/7384/Naturally-Occurring-Radioactive-Materials-NORM-IV-Proceedings-of-an-International-Conference-held-in-Szczyrk-Poland-17-21-May-2004>
- Bzowski Z., Michalik B. (2015). Mineral composition and heavy metal contamination of sediments originating from radium rich formation water. Chemosphere 122, 79–87.
<https://doi.org/10.1016/j.chemosphere.2014.10.077>
- Michalik B., Brown J., Krajewski P. (2013). The fate and behaviour of enhanced natural radioactivity with respect to environmental protection. Environ. Impact Assess. Rev. 38, 163–171. <http://doi.org/10.1016/j.eiar.2012.09.001>
- Skubacz K., Michalik B., Wysocka M. (2011). Occupational radiation risk caused by NORM in coal mining industry. Radioprotection 46 (6), S669-S674.
<https://doi.org/10.1051/radiopro/20116735s>
- Michalik B., Sidhu R.S. (2011). NORM in the extraction industry: challenges and opportunities. Radioprotection 46, (6), S675-S680.
<https://doi.org/10.1051/radiopro/20116736s>
- Michalik B., Wysocka M., Liland A. (2011) Survey of impact of enhanced natural radioactivity on human and natural environments: The examples based on PORANO Project. Radioprotection 46 (6), S681-S685. <https://doi.org/10.1051/radiopro/20116737s>
- Chałupnik S., Wysocka M., Janson E., Chmielewska I., Wiesner M. (2017). Long term changes in the concentration of radium in discharge waters of coal mines and Upper Silesian rivers. J. Environ. Radioact. 171, 117-123. <http://doi.org/10.1016/j.jenvrad.2017.02.007>