

LISTĂ DE LUCRĂRI

A. LUCRĂRI REPREZENTATIVE

1. **Chirila Băbău A.M.**, Micle V., Damian G.E, Sur I. M, Sustainable Ecological Restoration of Sterile Dumps Using *Robinia pseudoacacia*, *Sustainability*, 13 (24), 140021 (2021), I.F. 3,9.
2. **A. M. Chirilă Băbău**, V. Micle, G. E. Damian, I. M. Sur: Preliminary investigations regarding the potential of *Robinia pseudoacacia* L. (leguminosae) in the phytoremediation of sterile dumps, *Journal of Environmental Protection and Ecology – Soil Pollution*, 21, No 1, 46–55 (2020), I.F.= 0,679.
3. Damian G.E., Micle V., Sur I. M., **Chirila Babau A. M.**, From environmental ethics to sustainable decision-making: assessment of potential ecological risk in soils around abandoned mining areas-case study “Larga de Sus mine” (Romania), *Journal of Agricultural and Environmental Ethics*, 32 (1), pp. 27-49 (2019), I.F.= 1,8.
4. **Adriana Chirilă Băbău**, Valer Micle, Ioana Monica Sur: Characterization of soils in the Almasu Mare area through the determination of lead concentrations, *Studia UBB Chemia*, LXIII, 2, 83-91 (2018), I.F.= 0,3.
5. **Băbău A. M.**, Micle V., Damian G. E., Varvara S., Health risk assessment analysis in two highly polluted minig areas from Zlatna (Romania), *Journal of Environmental Protection and Ecology*, 18, No 4, pp. 1416–1424 (2017), IF=0,679.
6. **Adriana Mihaela Băbău**, Valer Micle, Ioana Monica Sur: Research on cadmium soil pollution in the former Almașu Mare mining area, *Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering*, ISSN: 2457-3248 (2018),
7. **Adriana Mihaela Băbău**, Valer Micle, Ioana Monica Sur: STUDY ON PHYSICO-CHEMICAL PROPERTIES OF SOIL IN THE RADEȘ MINE AREA, *Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering*. Vol. VI, ISSN: 2285-6064 (2017);
8. **Adriana M. Chirilă Băbău**, Valer Micle, Ioana M. Sur: A review on green technologies for remediation of contaminated soils with heavy metals in the former gold mining areas, *Ecoterra - Journal of Environmental Research and Protection*, Volume 16, Issue 3, pp. 23–32 (2019);

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9. **Adriana Mihaela Chirila Băbău**, Valer Micle, Ioana Monica Sur: Study on pedological soil properties in the haneş mine area for its remediation, *Studia UBB Ambientum*, LXIII, 1 (2018).
10. Ioana Monica Sur, Timea Gabor, **Adriana Mihaela Chirila Babau**, Ancuta Elena Tiuc, Research regarding As and Cd extraction from the polluted soils, 17th International Multidisciplinary Scientific Geoconference SGEM 2017, Conference proceedings, Nano, Bio, Green and Space -Technologies for a Sustainable Future, 17(63), 327 – 334 (2017).

B. TEZA DE DOCTORAT

“**Studii și cercetări privind fitoremedierea siturilor poluate cu metale grele**”. IOSUD Universitatea Tehnică din Cluj Napoca. Conducător Științific: prof. univ. dr. ing. Micle Valer. Data susținerii publice: 18.09.2018. Confirmare în baza O.M.E.C. Nr. 5474 din 14 noiembrie 2018. Diploma de Doctor în Ingineria Mediului, seria J Nr. 0027266.

C. ARTICOLE PUBLICATE ÎN REVISTE ȘTIINȚIFICE

Articole publicate în reviste cotate / indexate ISI

1. **Chirila Băbău A.M.**, Micle V., Damian G.E, Sur I. M, Sustainable Ecological Restoration of Sterile Dumps Using *Robinia pseudoacacia*, *Sustainability*, 13 (24), 140021 (2021), I.F. 3,9.
2. **A. M. Chirilă Băbău**, V. Micle, G. E. Damian, I. M. Sur: Preliminary investigations regarding the potential of *Robinia pseudoacacia* l. (leguminosae) in the phytoremediation of sterile dumps, *Journal of Environmental Protection and Ecology – Soil Pollution*, 21, No 1, 46–55 (2020), I.F.= 0,679.
3. Damian G.E., Micle V., Sur I. M., **Chirila Babau A. M.**, From environmental ethics to sustainable decision-making: assessment of potential ecological risk in soils around abandoned mining areas-case study “Larga de Sus mine” (Romania), *Journal of Agricultural and Environmental Ethics*, 32 (1), pp. 27-49 (2019), I.F. 1,24.
4. **Adriana Chirilă Băbău**, Valer Micle, Ioana Monica Sur: Characterization of soils in the Almasu Mare area through the determination of lead concentrations, *Studia UBB Chemia*, LXIII, 2, 83-91 (2018), I.F.= 0,3.

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5. **Adriana Mihaela Chirilă - Băbău**, Valer Micle, Ioana Monica Sur, Research on cadmium soil pollution in the former Almașu Mare mining area, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, 7, 132–135 (2018).
6. **Băbău A. M.**, Micle V., Damian G. E., Varvara S., Health risk assessment analysis in two highly polluted mining areas from Zlatna (Romania), *Journal of Environmental Protection and Ecology*, 18, No 4, pp. 1416–1424 (2017), IF=0,679.
7. **Adriana Mihaela Băbău**, Valer Micle, Ioana Monica Sur, Study on physico-chemical properties of soil in the Radeș mine area, Scientific Papers. Series E. Land Reclamation, Earth Observation & Surveying, Environmental Engineering, 6, 108–113 (2017).
8. Ioana Monica Sur, Timea Gabor, **Adriana Mihaela Chirila Babau**, Ancuta Elena Tiuc, Research regarding As and Cd extraction from the polluted soils, 17th International Multidisciplinary Scientific Geoconference SGEM 2017, Conference proceedings, Nano, Bio, Green and Space -Technologies for a Sustainable Future, 17(63), 327 – 334 (2017).

Articole publicate în reviste indexate BDI

1. **Adriana M. Chirilă Băbău**, Valer Micle, Ioana M. Sur, A review on green technologies for remediation of contaminated soils with heavy metals in the former gold mining areas, *Ecoterra - Journal of Environmental Research and Protection*, Volume 16, Issue 3, 23 – 32 (2019).
2. **Adriana Mihaela Băbău**, Valer Micle, Ioana Monica Sur, Study on pedological soil properties in the Haneș mine area for its remediation, *Studia Universitatis Babeș-Bolyai Ambientum*, 63 (1), 5-14 (2018).
3. **Adriana Mihaela Băbău**, Valer Micle, Ioana Monica Sur, Proprietăți fizico chimice ale solului din jurul haldei Radeș/județul Alba, *Buletinul AGIR – Știință și Inginerie*, 32, 761–766 (2017).
4. **Adriana Mihaela Băbău**, Valer Micle, Ioana Monica Sur, Research on underground water quality from Almasu Mare area, *Aerul și apa – Componente ale Mediului*, vol. XI, 269–274 (2017).

D. PUBLICATII IN EXTENSO APĂRUTE ÎN VOLUME ALE UNOR CONFERINTE INTERNATIONALE DE SPECIALITATE

1. **Chirilă Băbău A.M.**, Micle V., Damian G.E., Sur I.M., Studies concerning the phytoremediation of sites degraded by mining activities with *Robinia pseudoacacia*, *GLOREP 2108 Conference, Timisoara 15-17 November, 2018, Conference Proceeding*, ISBN 978-606-35-0238-5, pp.374-375 (2018).
2. Ioana Monca Sur, **Adriana Mihaela Chirilă Băbău**, Timea Gabor, Valer Micle, The Use of Microorganisms in the Bioleaching of Soils Polluted with Heavy Metals, 20th International Research Conference Proceedings, IRC 2018 “, 21 – 22 iunie, 2018, Venice, Italia, p. 2671-2675 (2018).
3. **Adriana M. Chirilă Băbău**, Valer Micle, Ioana Monica. Sur, Gianina E. Damian, Ethical issues in ecological restoration of sterile dumps and potential of plant species for phytoremediation: seed germination of *Robinia pseudoacacia* in various amendements with heavy metals, Book of abstract “12th International Conference on Environmental Legislation, Safety Engineering and Disaster Management, Elsedima, Book of Abstract, p. 37 (2018).
4. Ioana Monica Sur, Valer Micle, **Adriana Mihaela Chirilă - Băbău**, Timea Gabor, Extraction of lead from polluted soils, Book of abstract “12th International Conference on Environmental Legislation, Safety Engineering and Disaster Management, Elsedima, Book of Abstract p. 176 (2018).
5. Gianina E. Damian, Valer Micle, Ioana M. Sur, **Adriana M. Chirilă Băbău**, From environmental ethics to sustainable decisionmaking: assessment of potential ecological risk in soils around abandoned mining areas-case study “Larga de Sus mine” (Romania), Book of abstract “12th International Conference on Environmental Legislation, Safety Engineering and Disaster Management, Elsedima, Book of Abstract, p. 43 (2018).

E. ALTE LUCRĂRI SI CONTRIBUTII STIINTIFICE

E.1) Lucrări științifice comunicate (prezentate) în cadrul unor manifestări științifice internaționale

1. **Chirilă Băbău A.M.**, Micle V., Damian G.E., Sur I.M., Study on the bioaccumulation and translocation factors of lead and cooper in *Pseudoacacia L. (Leguminosae)*, *International U.A.B. – B.E.N.A Workshop, Environmental Engineering and Sustainable Development*, Alba Iulia, Romania, 20-21 iunie 2019 (Book of Abstracts: pp. 20, ISSN 2457-2829, AETERNITAS Publishing House, Alba Iulia 2019).

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2. Damian G.E., Micle V., Sur I. M., **Chirilă Băbău A. M.**, From environmental ethics to sustainable decision-making: assessment of potential ecological risk in soils around abandoned mining areas-case study “Larga de Sus mine” (Romania), *Book of Abstracts-12th International Conference Environmental Legislation, Safety Engineering and Disaster Management ELSEDIMA 2018*, Universitatea Babeș-Bolyai, Facultatea de Știința și Ingineria Mediului 17-19 mai 2018, Cluj Napoca.
3. **Chirilă Băbău A.M.** Micle V., Sur I.M., Damian G.E., Ethical issues in ecological restoration of sterile dumps and potential of plant species for phytoremediation: seed germination of *Robinia pseudoacacia* in various amendments with heavy metals, *Book of Abstracts-12th International Conference Environmental Legislation, Safety Engineering and Disaster Management ELSEDIMA 2018*, Universitatea Babeș-Bolyai, Facultatea de Știința și Ingineria Mediului 17-19 mai 2018, Cluj Napoca.
4. **Băbău A. M.**, Micle V., Damian G. E., Varvara S., Health risk assessment analysis applied in order to choose optimum remediation method of highly polluted mining areas (Poster), *International U.A.B. – B.E.N.A. Conference, Environmental Engineering & Sustainable Development, Alba Iulia, Romania, 25-27 mai 2017* (Book of Abstracts: pp. 29, ISSN 2457-2829, AETERNITAS Publishing House, Alba Iulia 2017).

E.2) Lucrări științifice comunicate (prezentate) în cadrul unor manifestări științifice naționale

1. **Adriana M. Chirilă Băbău**, Valer Micle, Ioana Monica, Study on pedological soil properties in the „Haneș” mine area for its remediation, *Simpozionul național cu participare internațională Environment & Progress, ediția a XI-a, 10 Noiembrie, Cluj-Napoca (2017)*.
2. **Băbău A. M.**, Problematika și impactul asupra mediului a deșeurilor metalice, *Sesiunea Națională de Comunicări Științifice a Studenților IN-EXTENSO 2013, Alba Iulia, Buletinul Științific al Universității „ 1 Decembrie 1918” Alba Iulia (2013)*.
3. **Băbău A. M.**, Aspecte privind memoria apei, *Sesiunea Națională de Comunicări Științifice a Studenților IN-EXTENSO 2011, Alba Iulia, Buletinul Științific al Universității „ 1 Decembrie 1918” Alba Iulia (2011)*.
4. **Băbău A. M.**, Botezan A.T., Cămărășan R.L., Dobrescu. M. E., Contaminarea solului cu metale grele în zona Zlatna, *Sesiunea Națională de Comunicări Științifice a Studenților IN-EXTENSO 2010, Alba Iulia, Buletinul Științific al Universității „ 1 Decembrie 1918” Alba Iulia (2010)*.

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F. Participare la conferințe naționale și internaționale

1. The International Conference of the University of Agronomic Sciences and Veterinary Medicine of Bucharest "Agriculture for Life, Life for Agriculture" 7 – 9 iunie, 2018, Bucharest, Romania:

- ✓ **Adriana Mihaela Chirila - Babau**, Valer Micle, Ioana Monica Sur, Research on cadmium soil pollution in the former Almasu Mare mining area.

2. Global and Regional in Environmental Protection" Conference GLOREP 2018, 15-17 noiembrie 2018, Timisoara, Romania:

- ✓ **Adriana Mihaela Chirilă Băbău**, Valer Micle, Gianina Elena Damian, Ioana Monica Sur, Studies concerning the phytoremediation of sites degraded by mining activities with *Robinia pseudoacacia*.

3. 20th International Conference on Environmental Degradation and Technology ICEDT 2018, World Academy Of Science, Engineering And Technology, 21 – 22 iunie, 2018, Venice, Italia:

- ✓ Ioana Monca Sur, **Adriana Mihaela Chirilă Băbău**, Timea Gabor, Valer Micle, The Use of Microorganisms in the Bioleaching of Soils Polluted with Heavy Metals.

4. 12th International Conference on Environmental Legislation, Safety Engineering and Disaster Management, Elsedima 2018, Universitatea Babes-Bolyai, Facultatea de Stiința și Ingineria Mediului 17-19 mai 2018, Cluj Napoca:

- ✓ **Adriana M. Chirilă Băbău**, Valer Micle, Ioana M. Sur, Gianina E. Damian, Ethical issues in ecological restoration of sterile dumps and potential of plant species for phytoremediation: seed germination of *Robinia pseudoacacia* in various amendments with heavy metals
- ✓ Ioana Monica Sur, Valer Micle, **Adriana Mihaela Chirilă – Băbău**, Timea Gabor, Extraction of lead from polluted soils
- ✓ Gianina E. Damian, Valer Micle, Ioana M. Sur, **Adriana M. Chirilă Băbău**, From environmental ethics to sustainable decisionmaking: assessment of potential ecological risk in soils around abandoned mining areas-case study "Larga de Sus mine" (Romania).

5. The International Conference: BENA - Environmental Engineering and Sustainable Development, 2017, Alba Iulia, Romania:

- ✓ **A.M. Băbău**, V. Micle, G.E. Damian, S. Varvara.lucrarea, Health Risk Assessment Analysis in Two Highly Polluted Mining Areas from Zlatna (Romania).

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6. The International Conference of the University of Agronomic Sciences and Veterinary Medicine of Bucharest "Agriculture for Life, Life for Agriculture" 8 – 10 iunie, 2017, Bucharest, Romania:
 - ✓ **A. M. Băbău**, V. Micle, I. M. Sur, Study on Physico-Chemical Properties of Soil in the Radeș Mine Area.
7. International Conferences on Earth & Geo Sciences - SGEM Vienna Green Sessions 2017, 2730 noiembrie 2017, Viena, Austria:
 - ✓ Ioana Monica Sur, Tímea Gabor, **Adriana Mihaela Chirilă Băbău**, Ancuta Elena Tiuc, Research regarding as and cd extraction from the polluted soils.
8. The 11th Edition of the National Symposium with International Participation "Environment & Progress", 10 noiembrie, 2017, Cluj Napoca, Romania:
 - ✓ **A.M. Băbău**, V. Micle, I. M. Sur, Study on Pedological Soil Properties in the Haneș Mine Area for its Remediation.
9. Conferința internațională – multidisciplinară, "Profesorul Dorin Pavel fondatorul hidroenergeticii românești" 2–3 iunie 2017, Sebeș, Romania:
 - ✓ **Adriana Mihaela Băbău**, Valer Micle, Ioana Monica Sur, Proprietăți fizico - chimice ale solului din jurul haldei Radeș/județul Alba.
10. Conferința științifică internațională "Aerul și apa – Componente ale Mediului", 17-19 martie 2017, Cluj- Napoca, România:
 - ✓ **Adriana Mihaela Băbău**, Valer Micle, Ioana Monica Sur, Research on underground water quality from Almasu Mare area.

G. PREMII SI DISTINCTII

1. Premiu acordat de UEFISCDI în 2023 (2000 RON), prin PN-IV-P2-2.3-PRECISI-2023-79326 pentru publicarea articolului: "Sustainable Ecological Restoration of Sterile Dumps Using *Robinia pseudoacacia*".
2. Premiu acordat de UEFISCDI în 2019 (6000 RON), prin PN-III-P1-1.1-PRECISI-2019-38853 pentru publicarea articolului: "From Environmental Ethics to Sustainable Decision-Making: Assessment of Potential Ecological Risk in Soils Around Abandoned Mining Areas-Case Study "Larga de Sus mine" (Romania)".
3. Premiul special acordat în cadrul Conferinței Internaționale BENA - Environmental Engineering and Sustainable Development, Alba Iulia, 2017, pentru cea mai bună performanță și conținut în sesiunea de prezentare cu lucrarea științifică: Health Risk Assessment Analysis in two Highly Polluted Mining Areas from Zlatna (Romania).

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