

UNIVERSITATEA DIN PETROȘANI
Facultatea de Mine
Departamentul de Ingineria Mediului și Geologie
Concurs pentru ocuparea postului de Șef lucrări, poz. 17
Disciplinele: Reamenajarea terenurilor degradate
Stabilitatea taluzurilor și versanților
Hidrologie și hidrogeologie
Impactul antropic asupra mediului
Sisteme integrate de management de mediu
Auditul sistemelor de management de mediu
Pedologie și tehnici de ameliorare
Domeniul Ingineria Mediului

LISTA DE LUCRĂRI

Candidat: APOSTU Izabela - Maria, Doctor din 2019, Asist.univ. din 2019

A) Lucrări relevante pentru realizările profesionale proprii (maxim 10 lucrări)

1. Faur, F.; Lazar, M.; **Apostu, I.-M.**; Brujan, M., *Verifying the Stability of the Working Fronts of Lignite Open Pits Developed in Hilly Areas—A Case Study of Jilț North Open Pit (Romania)*. Appl. Sci. 2023, 13, 11480. <https://doi.org/10.3390/app132011480> <https://www.mdpi.com/2076-3417/13/20/11480>
2. **Apostu, I.M.**, Lazar, M., Hidrologie și hidrogeologie. Îndrumător de seminar și laborator, Editura Universitas, Petroșani, 2023, ISBN 978-973-741-885-2, 246 pag. https://www.researchgate.net/publication/374447721_HIDROLOGIE_SI_HIDROGEOLOGIE_INDRUMATOR_DE_SEMINAR_SI_LABORATOR
3. Lazar, M.; Faur, F.; **Apostu, I.-M.** Stability Conditions in Lignite Open Pits from Romania, Case Study: Oltețu Open Pit. Appl. Sci. 2022, 12, 9607. WOS: 000866632800001 IDS Number5F9LW eISSN2076-3417. <https://doi.org/10.3390/app12199607>
4. Faur F., Lazăr M., **Apostu I.M.**, Land stability in the influence areas of lignite open pits. A case study for the Berbești mining basin (Romania), LAP Lambert Academic Publishing, Chișinău, Republic of Moldova, 2022, ISBN 9786205528310. 108 p. <https://www.morebooks.shop/shop-ui/shop/product/978-620-5-52831-0> <https://www.lap-publishing.com/catalog/details/store/gb/book/978-620-5-52831-0/land-stability-in-the-influence-areas-of-lignite-open-pits?search=Faur>
5. **Apostu I.-M.**, Riscuri geotehnice în condițiile inundării golurilor remanente ale carierelor de lignit, Editura Universitas, Petroșani, 2021, ISBN 978-973-741-765-7, 281 p. https://www.researchgate.net/publication/354499133_RISCURI_GEOTEHNICE_IN_CONDITIILE_INUNDARII_GOLURILOR_REMANENTE_ALE_CARIERELOR_DE_LIGNIT
6. **Apostu, I.-M.**; Lazar, M.; Faur, F. A Suggested Methodology for Assessing the Failure Risk of the Final Slopes of Former Open-pits in Case of Flooding, Sustainability 2021, Vol. 13 (12), art. No. 6919, 27 p. WoS: 000666349200001, IDS Number: SZ1QQ. DOI: 10.3390/su13126919, ISSN 2071-1050 <https://doi.org/10.3390/su13126919>, <https://www.mdpi.com/2071-1050/13/12/6919>

7. **Apostu, I.-M.**; Lazar, M.; Faur, F. A Model to Evaluate the Flooding Opportunity and Sustainable Use of Former Open-Pits. *Sustainability* **2020**, 12(21), 9275, 20 p. ISSN 2071-1050, FI 2.576, SRI 0,62, WoS: 000589306500001, IDS Number: OR2LL. <https://doi.org/10.3390/su12219275>.
8. Faur Florin, Lazăr Maria, **Nyari (Apostu) Izabela-Maria**, Substantiating the decision regarding the ecological reconstruction of mining waste dumps - Case study for Lupeni Dump, International Multidisciplinary Scientific Symposium "Universitaria SIMPRO 2018", Quality - Access to Success, volume 20, no. 1, pp. 235 - 240, România, 2019. WOS:000459686300041, ISSN 1582-2559 <https://www.proquest.com/docview/2159636948?pq-origsite=gscholar&fromopenview=true>
9. Maria Lazăr, **Izabela Maria Apostu (Nyari)**, Florin Faur, Solutions To Increase The Sustainability Level Of Mining Activities. Quality - Access to Success, Vol. 18/2017, No. S1, pp 222-225, 4 pag., ISSN: 1582-2559. WOS:000417405000039, p-ISSN 1582-2559, e-ISSN 2668-4861, ISSN-L 2668-4861. <https://www.proquest.com/docview/1855035859/4A1C14EF371E41AAPQ/1?accountid=37693> http://www.srac.ro/calitatea/arhiva/supliment/2017/Q-asContents_Vol.18_S1_Jan-2017.pdf
10. Maria Lazăr, **Izabela-Maria Nyari**, Florin G. Faur – *Methodology For Assessing The Environmental Risk Due To Mining Waste Dumps Sliding – Case Study Of Jiu Valley*. Carpathian Journal of Earth and Environmental Sciences. Volume 10 (3), 223-224 pp., 2015, FI: 0,63. WOS:000360785200022, ISSN 1842-4090, eISSN 1844-489X. <https://www.cjees.ro/viewTopic.php?topicId=565>

B) Teza(-ele) de doctorat (dacă este cazul)

Cercetări privind riscurile geotehnice în condițiile inundațiilor golurilor remanente ale carierelor de lignit, Universitatea din Petroșani, Conducător științific: Prof. univ. dr. habil. ing. Lazar Maria, 2019, confirmat prin Ordinul M.E.C. nr. 5644/30.12.2019, Calificativul: Foarte bine/Magna cum laude.

C) Teza(-ele) de abilitare

D) Lucrări care pun în evidență contribuția științifică:

- cărți sau capitole din cărți (monografii, tratate), publicate la edituri de prestigiu din străinătate;

1. **Apostu I.M.**, Faur F., Lazăr M., Chapter 12. *Geotechnical Hazards and Their Potential Effects in Case of Flooding Former Open-pits* (în Emerging Trends in Engineering Research and Technology. Vol 11). Book Publisher International, Hooghly, London, ISBN: 978-93-90431-71-7, e-ISBN: 978-93-90431-76-2, 21 p. 2020. <https://bp.bookpi.org/index.php/bpi/catalog/book/335> https://www.researchgate.net/publication/347446844_Chapter_12_Geotechnical_Hazards_and_Their_Potential_Effects_in_Case_of_Flooding_Former_Open-pits?_sg=GgCGfHEgEefZjnguZXpe0AjHPc3f7Hc7q6QAD3NRr0jonOwL0W58hDnoTkPL_rWwkdUvBOInNqGMV1L3I3AYuqUbOD3j-DEaam-naI_8.5tyijxCY_i6kMFq5to9OsCOjI6XyjQj-P3emBwlZROYwUMknTnzBhCwRSf2TEnlmfMY0LyPBSEkVNzFv9F0yHA
2. Faur F., **Apostu I.M.**, Lazăr M. Chapter 13. *Flooding Speed of Former Lignite Open Pits Regarded as a Determining Factor on the Stability of Final Slopes* (în Emerging Trends in Engineering Research and Technology. Vol 11). Book Publisher International, Hooghly, London, ISBN: 978-93-90431-71-7, e-ISBN: 978-93-90431-76-2, 11 p. 2020. <https://bp.bookpi.org/index.php/bpi/catalog/book/335> https://www.researchgate.net/publication/347447126_Chapter_13_Flooding_Speed_of_Former_Lignite_Open_Pits_Regarded_as_a_Determining_Factor_on_the_Stability_of_Final_Slopes
3. Faur F., Lazăr M., **Apostu I.M.**, *Land stability in the influence areas of lignite open pits. A case study for the Berbești mining basin (Romania)*, LAP Lambert Academic Publishing, Chișinău, Republic of Moldova, 2022, ISBN 9786205528310. 108 p.

<https://www.morebooks.shop/shop-ui/shop/product/978-620-5-52831-0>
<https://www.lap-publishing.com/catalog/details/store/gb/book/978-620-5-52831-0/land-stability-in-the-influence-areas-of-lignite-open-pits?search=Faur>

4. Lazar, M., Dunca, EC., Faur, F., **Apostu, IM.**, Irimie, S. (2023). *Study on the Soil Formation Process on the Mining Waste Dumps from Jiu Valley (Romania)*. A Case Study. In: Benítez-Andrades, J.A., García-Llomas, P., Taboada, Á., Estévez-Mauriz, L., Baelo, R. (eds) *Global Challenges for a Sustainable Society*. EURECA-PRO 2022. Springer Proceedings in Earth and Environmental Sciences, pp 247-258 (12 p). Springer, Cham. https://doi.org/10.1007/978-3-031-25840-4_29
https://books.google.ro/books?hl=ro&lr=&id=qJvEEAAQBAJ&oi=fnd&pg=PR5&ots=2vtFuTg9cr&sig=3Gp0QqYpAcUfklXmzIJtHmOr-mM&redir_esc=y#v=onepage&q&f=false

- cărți sau capitole din cărți (monografii, tratate), publicate la edituri din țară, recunoscute de CNCS;

5. **Apostu I.-M.**, *Riscuri geotehnice în condițiile inundării golurilor remanente ale carierelor de lignit*, Editura Universitas, Petroșani, 2021, ISBN 978-973-741-765-7, 281 p.
https://www.researchgate.net/publication/354499133_RISCURI_GEOTEHNICE_IN_CONDITIILE_INUNDARII_GOLURILOR_REMANENTE_ALE_CARIERELOR_DE_LIGNIT
6. Faur, F., Lazar, M., **Apostu, I.-M.**, Rada, C. Chapter: *Possibilities to recover aluminum from mining waste dumps located in Jiu Valley. Economic, social and environmental opportunities* in book: *Energy - and resource - saving technologies of developing the raw-material base of mining regions*, Edition: 10th. Publisher: Universitas, Petrosani, ISBN 978-973-741-733-6, 15 p., April, 2021.
<https://doi.org/10.31713/m1003>
https://www.researchgate.net/publication/350787178_POSSIBILITIES_TO_RECOVER_ALUMINUM_FROM_MINING_WASTE_DUMPS_LOCATED_IN_JIU_VALLEY_ECONOMIC_SOCIAL_AND_ENVIRONMENTAL_OPPORTUNITIES#fullTextFileContent

- cărți sau capitole din cărți (monografii, tratate), cu ISBN, publicate într-o editură din țară;

- articole publicate în reviste de circulație internațională, specifice domeniului, cotate ISI sau indexate în baze de date internaționale;

7. Faur, F.; Lazar, M.; **Apostu, I.-M.**; Brujan, M., *Verifying the Stability of the Working Fronts of Lignite Open Pits Developed in Hilly Areas—A Case Study of Jił North Open Pit (Romania)*. Appl. Sci. 2023, 13, 11480. <https://doi.org/10.3390/app132011480> <https://www.mdpi.com/2076-3417/13/20/11480>
8. Florin Faur, Maria Lazăr, **Izabela-Maria Apostu**, Constantin Rada, Daniel Moisu-Hojda, *Assessment of the Stability State and the Risk of Landslides within Berbești Mining Basin (Romania) Post Closure*, Inżynieria Mineralna (Mineral Engineering) - Journal of the Polish Mineral Engineering Society, ISSN: 1640-4920, No 2(50), pp. 59–70, , Krakow, Poland, 2022. WoS: 000925704500007, IDS Number: 8O2YF. <http://doi.org/10.29227/IM-2022-02-07> http://www.potopk.com.pl/an_archiwum.html
9. Lazar, M.; Faur, F.; **Apostu, I.-M.** *Stability Conditions in Lignite Open Pits from Romania, Case Study: Olteu Open Pit*. Appl. Sci. 2022, 12, 9607. WOS:000866632800001 IDS Number5F9LW eISSN2076-3417. <https://doi.org/10.3390/app12199607>
10. **Izabela Maria Apostu**, Constantin Rada, Maria Lazăr, Florin Faur, Sili Nicolae, *Investigation of the Causes and Factors Generating Land Instability in the Berbești Mining Basin*, Mining Revue (Revista Minelor), Vol. 28, Issue 1, pp. 24-36, ISSN-L 1220-2053/ISSN 2247-8590, Sciendo, 2022, DOI: 10.2478/minrv-2022-0002. <https://www.sciendo.com/article/10.2478/minrv-2022-0002>
11. Florin Faur, **Izabela-Maria Apostu**, Maria Lazăr, *Consideration regarding the aquatic ecosystems developed in the open pit lakes from Oltenia mining region*, Górnictwo Odkrywkowe (Surface Mining),

- No. 4/2022, pp. 40-50, Zakład Poligraficzny "ROTGRYF", ISSN 0043-2075, Wrocław, 2022.
https://www.igo.wroc.pl/wp-content/uploads/2023/01/GO_04_2022_7_40_50.pdf
12. Sili N., Şuleru E., Faur F., **Apostu I.M.**, *The use of central pivot irrigation systems in the productive recovery works of the lands affected by desertification. An opportunity analysis for Dolj county*, Research Journal of Agricultural Science, Vol. 53, Nr. 4, ISSN 2066-1843, pp. 208-217, 2021.
https://rjas.ro/paper_detail/3425
 13. Sili N., **Apostu I.M.**, Faur F., *Identification of pollution sources of the Bâc river*, Research Journal of Agricultural Science, Vol. 53, Nr. 4, ISSN 2066-1843, pp. 198-207, 2021. https://rjas.ro/paper_detail/3424
 14. Faur F., Lazăr M., Danciu C., **Apostu I.M.**, *Investigations on the stability of the right slope in the area of the Anina wastewater treatment plant*, Mining Revue (Revista Minelor), Vol. 27, Issue 4, pp. 7-18, ISSN-L 1220-2053/ISSN 2247-8590, Sciendo, 2021. DOI: 10.2478/minrv-2021-0030.
<https://issuu.com/revmin/docs/nr4en2021>
<https://www.sciendo.com/article/10.2478/minrv-2021-0030>
 15. **Izabela Maria Apostu**, Maria Lazăr, Faur Florin, *Assessing the suffosion risk for the final in-situ slopes of the North Peşteana open-pit (Evaluarea riscului de sufoziune la taluzurile definitive ale carierei Peşteana Nord)*, Mining Revue (Revista Minelor), Vol. 27, Issue 1, pp. 24-33, ISSN-L 1220-2053/ISSN 2247-8590, Sciendo, 2021. DOI: 10.2478/minrv-2021-0003. <https://issuu.com/revmin/docs/nr1ro2021>, Maria Lazăr,
 16. **Apostu, I.-M.**; Lazar, M.; Faur, F., *A Suggested Methodology for Assessing the Failure Risk of the Final Slopes of Former Open-pits in Case of Flooding*, Sustainability 2021, Vol. 13 (12), art. No. 6919, 27 p. WoS:000666349200001, IDS Number: SZ1QQ. DOI: 10.3390/su13126919, ISSN 2071-1050.
<https://doi.org/10.3390/su13126919>, <https://www.mdpi.com/2071-1050/13/12/6919>
<https://www.sciendo.com/issue/MINRV/27/1> <https://sciendo.com/article/10.2478/minrv-2021-0003>
 17. Sili, N., **Apostu, I.M.**, *Evaluation of Bâc River water quality*, Annals of the University of Petroşani, Mining Engineering, Universitas Publishing House, Petroşani, Romania, 2021, pp. 185-193, ISSN 1454-9174.
<https://eds.s.ebscohost.com/abstract?site=eds&scope=site&jrnl=14549174&AN=155138504&h=RH08dCnXwJTnF3lhE3JOVuUs2C7mbnXcWb25iz0TQkKL0ZE8hCBwngmv9Eq2MFbkDnOca%2fXY2nq%2bKirQulsnLA%3d%3d&crI=c&resultLocal=ErrCrINoResults&resultNs=Ehost&crIhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d14549174%26AN%3d155138504>
 18. **Izabela-Maria Apostu**, Florin Faur, Ilie Rotunjanu, *Factors influencing the flooding process of former coal open-pits*, Mining of Mineral Deposits, ISSN 2415-3443 (Online), ISSN 2415-3435 (Print), Vol. 15, Issue 2/2021, pp. 124-133, Dnipro, Ukraine. WoS:000659332800015, IDS Number: SO9ZP, DOI 10.33271/mining15.02.124. http://mining.in.ua/2021vol15_2_15.html
 19. Lazăr M., Faur F., Rotunjanu I., Rada C., **Apostu I.M.**, *The influence of hydrometeorological conditions on the stability of slopes from Alunu mining perimeter*, Annals of the University of Petroşani, Mining Engineering, 21 (2020). ISSN 1454-9174, pp. 86-99. <https://www.upet.ro/annals/mining/>
<https://eds.p.ebscohost.com/abstract?site=eds&scope=site&jrnl=14549174&AN=148917543&h=thXRoB%2fLvCgn5Z%2fU%2bhEBuOLk2xHhXPvNKtuG6JY8WPWSja3KEs3qfhLp1SOWBa44CJ2m3aj72VMluhPHvt25Tg%3d%3d&crI=f&resultLocal=ErrCrINoResults&resultNs=Ehost&crIhashurl=login.aspx%3fdirect%3dtrue%26profile%3dehost%26scope%3dsite%26authtype%3dcrawler%26jrnl%3d14549174%26AN%3d148917543>
 20. Lazăr M., Rotunjanu I., **Apostu I.M.**, Faur F., *A New Classification of Open Pits and their Remaining Gaps in Terms of Hydrogeological Conditions*, Inżynieria Mineralna (Mineral Engineering) - Journal of the Polish Mineral Engineering Society, ISSN: 1640-4920, No. 2/2020, Vol. 2, pp. 119-126, Krakow, Poland, WoS:000611957900017, IDS Number: PY3OY. <http://www.potopk.com.pl/archiwum.html>,
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21. **Apostu, I.-M.**; Lazar, M.; Faur, F. *A Model to Evaluate the Flooding Opportunity and Sustainable Use of Former Open-Pits*. Sustainability **2020**, 12(21), 9275, 20 p. ISSN 2071-1050, FI 2.576, SRI 0,62, WoS: 000589306500001, IDS Number: OR2LL. <https://doi.org/10.3390/su12219275>,
22. Sili N., **Apostu I.M.**, Faur F., Floods and their effects on agricultural productivity, Research Journal of Agricultural Science, Vol. 52, Nr. 4, ISSN 2066-1843, pp. 113-122, 2020. https://www.rjas.ro/paper_detail/3206
23. Sili N., Vesa E.M., Faur F., **Apostu I.M.**, *Considerations regarding the evolution of the landscape in the area of the former bauxite quarries from Ohaba – Ponor*, Research Journal of Agricultural Science, Vol. 52, Nr. 4, ISSN 2066-1843, pp. 123-132, 2020. https://www.rjas.ro/paper_detail/3205
24. Maria Lazăr, Ionuț Predoiu, Florin Faur, **Izabela Apostu**, *Lake South Pesteana (Post Exploitation Lakes - Risk Assessment of Final pits during Flooding (RAFF), Chapter III: Post exploitation lakes in Romania – Lake South Pesteana)*, Zpravodaj Hnědé Uhlí (Brown Coal Bulletin), Nr. 3/2020, pp. 88-96, ISSN 1213-1660, Publisher Výzkumný ústav pro hnědé uhlí a.s., Most, Czech Republic, 2020. <http://www.zpravodajhu.cz/en/archiv-detail/?year=2020&magazine=94&article=499>
25. **Izabela Maria Apostu**, Maria Lazăr, Faur Florin, *Analiza calitativă a stabilității taluzurilor (Qualitative analysis of slope stability)*, Revista Minelor (Mining Revue), Vol. 26, Nr. 2, pp. 16-21, ISSN 1220-2053, Editura Universitas, Petroșani, 2020. <https://issuu.com/revmin/docs/nr2ro2020>
26. Faur Florin, Maria Lazăr, **Izabela Maria Apostu**, *Conducerea activității de exploatare a agregatelor minerale în balastiere în funcție de tipul de restaurare ecologică vizat. Studiu de caz (Leading the exploitation activity of mineral aggregates in gravel pits depending on the targeted type of ecological restoration. Case study)*, Revista Minelor (Mining Revue), Vol. 26, Nr. 2, pp. 37-41, ISSN 1220-2053, Editura Universitas, Petroșani, 2020. <https://issuu.com/revmin/docs/nr2ro2020>
27. Negoe L., **Apostu I.M.**, Faur F., Lazăr M., *Assessment of the urban landscape of Petroșani municipality and the impact of abandoned buildings on it*, Research Journal of Agricultural Science, Vol. 51, Nr. 4, ISSN 2066-1843, pp. 104-114, 2019. https://rjas.ro/paper_detail/2981
28. Turea M., **Apostu I.M.**, Faur F., Lazăr M., *Design of the ecological reconstruction works of the waste dump belonging to Lupeni hard coal exploitation (branch 3, b body)*, Research Journal of Agricultural Science, Vol. 51, Nr. 3, ISSN 2066-1843, pp. 143-153, 2019. https://rjas.ro/paper_detail/3081
29. Florin Faur, **Izabela Maria Apostu**, *The impact and the risk of abandoned buildings from Petroșani city on the urban environment*, Studia Universitatis Babeș-Bolyai, Ambientum, ISSN (print) 1843-3855, ISSN (online) 2065-9490, ISSN-L 1843-3855, Vol. 64 (LXIV), Issue no. 2, pp. 11-30, 2019. <http://studia.ubbcluj.ro/download/pdf/1282.pdf>
30. R. E. Kiss, S. Dinescu, Florin Faur, **I. M. Apostu**, *Quick inspection method for working faces in open pits using GIS/GPS tools*, Górnictwo Odkrywkowe (Surface Mining), No. 4/2018, pp. 61-65, , ISSN 0043-2075, Wrocław, 2018. <http://yadda.icm.edu.pl/yadda/element/bwmeta1.element.baztech-76222212-0490-41f3-b146-3157eea523fe>
31. **Izabela Maria Apostu**, Florin Faur, *Stability assessment of the final slopes of the North Pesteana quarry in the context of long term safety of objectives in the influence areas*, Research Journal of Agricultural Science, Vol. 50, Nr. 4, ISSN 2066-1843, pp. 17-27, 2018. https://www.rjas.ro/paper_detail/2760
32. **Izabela Maria Apostu**, Maria Lazăr, Florin Faur, *Cercetări privind exigențele populației rezidente în condițiile recuperării și reutilizării golurilor remanente ale carierelor (Researches regarding the population exigencies in the conditions of recovery and reuse of the remaining gaps of the quarries)*, Revista Minelor (Mining Revue), Vol. 24, Nr. 4, pp. 20-24, ISSN-L 1220-2053/ISSN 2247-8590, Editura Universitas, Petroșani, 2018. <https://issuu.com/revmin/docs/nr4ro2018>
33. **Izabela Maria Apostu**, Maria Lazăr, Florin Faur, *Visual analysis of deformations from the quarry and inner dump steps from North Pesteana mining perimeter*, Annals of the University of Petroșani, Mining Engineering, 19 (2018). ISSN 1454-9174, pp. 115–121. [https://www.upet.ro/annals/mining/pdf/Annals%20of%20UPET%20-%20Mining%20Engineering%20Vol%2019-2018%20\(XLVI\).pdf](https://www.upet.ro/annals/mining/pdf/Annals%20of%20UPET%20-%20Mining%20Engineering%20Vol%2019-2018%20(XLVI).pdf)

34. Maria Lazăr, Florin Faur, Adrian Florea, **Izabela Maria Apostu**, *Conceptual model for ecological land reconstruction — case study of Rovinari mining area*, Annals of the University of Petroșani, Mining Engineering, 19 (2018). ISSN 1454-9174, pp. 146–157. [https://www.upet.ro/annals/mining/pdf/Annals%20of%20UPET%20-%20Mining%20Engineering%20Vol%2019-2018%20\(XLVI\).pdf](https://www.upet.ro/annals/mining/pdf/Annals%20of%20UPET%20-%20Mining%20Engineering%20Vol%2019-2018%20(XLVI).pdf)
35. **Izabela-Maria Apostu**, Adrian Florea, *Artificial lakes in former lignite open-pits and their utility in agriculture and economy*, Research Journal of Agricultural Science, Vol. 50/2018, Nr. 4, pp 28-39, ISSN 2066-1843. https://www.rjas.ro/paper_detail/2760
36. **Nyari (Apostu) I.**, Lazar M., *Current situation of lignite exploitation from Oltenia's Mining Basin and reuse solutions of remaining gaps*. Mining science and technology. 2018;(1):48-57. DOI:10.17073/2500-0632-2018-1-48-57 <https://mst.misis.ru/jour/article/view/95>
37. Faur Florin, Lazăr Maria, **Nyari (Apostu) Izabela-Maria**, *Substantiating the decision regarding the ecological reconstruction of mining waste dumps - Case study for Lupeni Dump*, International Multidisciplinary Scientific Symposium “Universitaria SIMPRO 2018”, Quality - Access to Success, volume 20, no. 1, pp. 235 - 240, România, 2019. WOS:000459686300041, ISSN 1582-2559 <https://www.proquest.com/docview/2159636948?pq-origsite=gscholar&fromopenview=true>
38. Faur Florin, **Izabela Maria Apostu**, Maria Lazăr, *Study regarding the water quality of Jiu River in Dolj county*, Research Journal of Agricultural Science, Vol. 49, Nr. 4, ISSN 2066-1843, pp. 118-127, 2017. https://rjas.ro/paper_detail/2490
39. **Izabela Maria Apostu**, Maria Lazăr, Florin Faur, *Implementarea practicilor sustenabile în cariera de lignit Roșia de Jiu (Implementation of sustainable practices in the lignite open pit Rosia de Jiu)* Revista Minelor (Mining Revue), Nr. 1, pp. 29-34, ISSN 1220-2053, Editura Universitas, Petroșani, 2017. <http://upet.ro/revistaminelor/arhiva/rmpdf2017/nr1ro.html>
40. **Izabela-Maria Nyari (Apostu)**, Lazar Maria, *Flooding of the remaining gap of North Peșteana quarry in order to create a water reservoir for irrigations*, Research Journal of Agricultural Science, Vol. 49/2017, Nr. 4, pp 9-19, 10 pag., ISSN 2066-1843. https://www.rjas.ro/paper_detail/2470
41. Maria Lazăr, **Izabela Maria Apostu (Nyari)**, Florin Faur, *Solutions To Increase The Sustainability Level Of Mining Activities*. Quality - Access to Success, Vol. 18/2017, No. S1, pp 222-225, 4 pag., ISSN: 1582-2559. WOS:000417405000039, p-ISSN 1582-2559, e-ISSN 2668-4861, ISSN-L 2668-4861. <http://search.proquest.com/openview/c5ab37b3042cdf1ecc74317729475d96/1?pqorigsite=gscholar&cbl=1046413> http://www.srac.ro/calitatea/arhiva/supliment/2017/Q-asContents_Vol.18_S1_Jan-2017.pdf
42. **Izabela Maria Apostu**, Florin Faur, Maria Lazăr, *Identification and Assessment of the Environmental Impact Generated by the Implementation of Certej Mining Project*, Research Journal of Agricultural Science, Vol. 48, Nr. 4, ISSN 2066-1843, pp. 254-264, 2016. https://rjas.ro/paper_detail/2262
43. Maria Lazăr, **Izabela-Maria Nyari**, Florin G. Faur, *Methodology For Assessing The Environmental Risk Due To Mining Waste Dumps Sliding – Case Study Of Jiu Valley*. Carpathian Journal of Earth and Environmental Sciences. Volume 10 (3), 223-224 pp., 2015, FI: 0,63. WOS:000360785200022, ISSN 1842-4090, eISSN 1844-489X. <https://www.cjees.ro/viewTopic.php?topicId=565>

- articole publicate în reviste din țară, specifice domeniului, recunoscute de CNCS;
- articole publicate în reviste din străinătate, specifice domeniului, necotate ISI sau care nu se află în baze de date internaționale;
- articole publicate în reviste din țară, nerecunoscute de CNCS;
- lucrări/studii publicate în volumele unor manifestări științifice (conferințe, simpozioane etc.) internaționale indexate în baza de date ISI (cu ISSN sau ISBN);

44. **Izabela Maria Apostu**, Florin Faur, *Identification and analysis of geotechnical risks in the conditions of flooding of the remaining gaps*, 9th International Conference on Manufacturing Science and Education,

MATEC Web of Conferences, Volum 290, 11002, Sibiu, 2019. WOS:000569367700119, ISSN 2261-236X
DOI <https://doi.org/10.1051/mateconf/201929011002>
https://www.matec-conferences.org/articles/mateconf/pdf/2019/39/mateconf_mse2019_11002.pdf

- lucrări/studii publicate în volumele unor manifestări științifice (sesiuni de comunicări, conferințe etc.) internaționale recunoscute (cu ISSN sau ISBN);

45. Daniela, CIOLEA, Ioana IOSIF, Camelia BĂDULESCU, **Izabela APOSTU**, Daniel BISORCA, *Biomass production on degraded land, by using sludge for the reconversion*, 30th European Biomass Conference and Exhibition, 9-12 May 2022, Hybrid: Online and in Marseille, France. Papers of the 30th European Biomass Conference, Setting the course for a biobased economy, Edited by P.F. Chevet, N. Scarlat, A. Grassi, Published by ETA-Florence Renewable Energies, 2022, pp. 187-192.
46. **Izabela-Maria Apostu**, Florin Faur, *Car access to mountain resorts - advantages and disadvantages. Case study: Parâng Resort*, 10th Edition of the International Symposium "UNIVERSITARIA SIMPRO 2022", MATEC Web of Conferences, Vol. 373 (11), no. 00064, 2022, <https://doi.org/10.1051/mateconf/202237300064>
47. Maria Lazăr, Florin Faur, **Izabela-Maria Apostu**, Constantin Rada, *Assessment of the technical conditions of Jieț waste dump in the context of its reintegration into the surrounding landscape*, 10th Edition of the International Symposium "UNIVERSITARIA SIMPRO 2022", MATEC Web of Conferences, Vol. 373 (11), no. 00032, 2022, <https://doi.org/10.1051/mateconf/202237300032>
48. **Izabela Maria Apostu**, Maria Lazăr, Florin Faur, *Implications of coal disappearance from the energy mix in Romania*, 10th Edition of the International Symposium on Occupational Health and Safety – SESAM 2021, MATEC Web of Conferences, Vol. 354, no. 00057, 2022. <https://doi.org/10.1051/mateconf/202235400057>
49. Florin Faur, **Izabela-Maria Apostu**, Maria Lazăr, *Preliminary results of investigations related to the ecology of Urdari open-pit lake*, 10th Edition of the International Symposium on Occupational Health and Safety – SESAM 2021, MATEC Web of Conferences, Vol. 354, no. 00060, 2022. <https://doi.org/10.1051/mateconf/202235400060>
50. Constantin Rada, Maria Lazăr, Florin Faur, **Izabela-Maria Apostu**, *Comparative study regarding the causes of land instability phenomena in the area of the Getic Subcarpathians*, 9th Edition of the International Symposium "UNIVERSITARIA SIMPRO 2021" „Quality and innovation in education, research and industry - the success triangle for a sustainable economic, social and environmental development”, MATEC Web of Conferences, Vol. 342, no. 03009, 2021. DOI: <https://doi.org/10.1051/mateconf/202134203009>
51. Maria Lazăr, Florin Faur, **Izabela-Maria Apostu**, Constantin Rada, *Long-term stability of the final slopes of the mining waste dumps from Oltenia*, 9th Edition of the International Symposium "UNIVERSITARIA SIMPRO 2021" „Quality and innovation in education, research and industry - the success triangle for a sustainable economic, social and environmental development”, MATEC Web of Conferences, Vol. 342, no. 03005, 2021. DOI: <https://doi.org/10.1051/mateconf/202134203005>
52. Oleg Pinchuk, Serhii Klimov, Ivan Romaniuk, Florin Faur, Maria Lazăr, **Izabela-Maria Apostu**, *Intensifying agricultural crops production by means of thermal reclamation*, 2nd International Conference on Sustainable Futures: Environmental, Technological, Social and Economic Matters - ICSF 2021, E3S Web of Conferences, Vol. 280, no. 10006, 2021. <https://doi.org/10.1051/e3sconf/202128010006>
53. Florin Faur, Maria Lazăr, **Izabela-Maria Apostu**, Oleg Pinchuk, Serhii Klimov, *Monitoring the water quality of Jiu River in Dolj County*, 2nd International Conference on Sustainable Futures: Environmental, Technological, Social and Economic Matters - ICSF 2021, E3S Web of Conferences, Vol. 280, no. 10002, 2021. <https://doi.org/10.1051/e3sconf/202128010002>
54. Maria Lazăr, Florin Faur, **Izabela Maria Apostu**, *Influence of the flooding speed of former lignite open pits on the stability of final slopes*, 9th Edition of the International Symposium on Occupational Health and

- Safety – SESAM 2019, MATEC Web of Conferences, Vol. 305, no. 00040, 2020. https://www.matec-conferences.org/articles/mateconf/abs/2020/01/mateconf_sesam20_00040/mateconf_sesam20_00040.html
55. **Izabela Maria Apostu**, Maria Lazăr, Florin Faur, *Analysis of liquefaction risk of sterile material in the inner dump of North Pesteana quarry in the conditions of flooding of the remaining gap*, 9th Edition of the International Symposium on Occupational Health and Safety – SESAM 2019, MATEC Web of Conferences, Vol. 305, no. 00005, 2020. <https://doi.org/10.1051/mateconf/202030500005>
https://www.matec-conferences.org/articles/mateconf/abs/2020/01/mateconf_sesam20_00005/mateconf_sesam20_00005.html
56. **Izabela Maria Apostu**, Lazar Maria, *Researches on geotechnical characteristics of the rocks from the final slopes of the remaining gaps. Case study: The remaining gap of North Pesteana quarry*, 19th International Multidisciplinary Scientific GeoConference SGEM 2019, Volume 19, No. 5.1, 637-644 pp, ISBN: 978-619-7408-84-3, ISSN: 1314-2704, DOI: 10.5593/sgem2019/5.1/S20.079, Bulgaria. <https://sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=6029>
57. Maria Lazăr, Florin Faur, **Izabela Maria Apostu**, *Stability estimation for waste dumps from Jiu Valley using fuzzy theory in the context of their ecological reconstruction*, 18th International Multidisciplinary Scientific GeoConference SGEM 2018, Conference Proceedings on Ecology, Economics, Education and Legislation, Ecology and Environmental Protection, Volume 18, Issue 5.1, pp. 837-844, ISBN 978-619-7408-46-1/ISSN 1314-2704, DOI: 10.5593/sgem2018/5.1/S20.108, <https://sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=1399>
58. **Apostu Izabela-Maria**, Simion Alexandru, *Identification of the impact generated by the open-pit mining exploitations on the land - Case study: Rovinari Mining Basin*, 18th International Multidisciplinary Scientific GeoConference SGEM 2018, www.sgem.org, Conference Proceedings, Ecology, Economics, Education and Legislation, Ecology and Environmental Protection, Volume 18, Issue 5.1, pp. 463-470, ISBN 978-619-7408-46-1 / ISSN 1314-2704. DOI: 10.5593/sgem2018/5.1/S20.060; <https://www.sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=1351>
59. **Apostu Izabela-Maria**, Lazar Maria, *The importance of hydrographical, hydrological and hydrogeological conditions in the context of flooding of the remaining gaps*, 18th International Multidisciplinary Scientific GeoConference SGEM 2018, www.sgem.org, Conference Proceedings, Ecology, Economics, Education and Legislation, Ecology and Environmental Protection, Volume 18, Issue 5.1, pp.933-940, ISBN 978-619-7408-46-1 / ISSN 1314-2704. DOI: 10.5593/sgem2018/5.1/S20.120; https://epslibrary.at/sgem_jresearch_publication_view.php?page=view&editid1=1411
60. Simion Alexandru, **Apostu Izabela-Maria**, *Evaluation of water quality and aquatic ecosystems in the eastern part of Jiu Valley*, 18th International Multidisciplinary Scientific GeoConference SGEM 2018, www.sgem.org, Conference Proceedings, Ecology, Economics, Education and Legislation, Ecology and Environmental Protection, Volume 18, Issue 5.1, pp. 377-384, ISBN 978-619-7408-46-1 / ISSN 1314-2704. DOI: 10.5593/sgem2018/5.1/S20.049 <https://sgem.org/index.php/elibrary-research-areas?view=publication&task=show&id=1340>
61. **Izabela Maria Apostu**, Lazar Maria, *Possibilities of flooding of the remaining gaps of the quarries from the Rovinari Mining Basin*, Scientific Reports on Resource Issues 2018, Publisher Medienzentrum der TU Bergakademie Freiberg, ISSN: 2190-555X; Freiberg, 2018. https://www.researchgate.net/publication/327467692_POSSIBILITIES_OF_FLOODING_OF_THE_REMAINING_GAPS_OF_THE_QUARRIES_FROM_THE_ROVINARI_MINING_BASIN
62. **I.M. Apostu (Nyari)**, M. Lazăr, F. Faur, *Methodology for Assessing the Opportunities of Flooding of the Remaining Gaps of Lignite Open-Pits*, 17th International Multidisciplinary Scientific GeoConference SGEM 2017, www.sgem.org, Conference Proceedings on Ecology, Economics, Education and Legislation, Ecology and Environmental Protection, Volume 17, Issue 52, pp. 635-642, ISBN 978-619-7408-09-6/ISSN 1314-2704, DOI: 10.5593/sgem2017/52/S20.081.

- lucrări/studii publicate în volumele unor manifestări științifice (sesiuni de comunicări, conferințe etc.) naționale recunoscute (cu ISSN sau ISBN), lucrări prezentate la diferite seminarii/expoziții și nepublicate;

63. Faur F., Lazăr M., **Apostu I.M.** - General considerations regarding the use of fossil fuel based energy, 4th International Scientific and Technical Conference: Innovative Development of Resource-Saving Technologies and Sustainable Use of Natural Resources, At: Petrosani, Romania, 12 November 2023. https://www.upet.ro/cercetare/manifestari/Ukraine_2021_Book_of_Abstracts.pdf
64. Lazăr M., Faur F., **Apostu I.M.**, Moisuc-Hojda D., Fissgus K. – *Development of lignite open pits - challenges and solutions*, 11th Edition of the International Symposium on Occupational Health and Safety – SESAM 2023, 18 October 2023, Bucharest, Romania. <https://sesam2023.insemex.ro/wp-content/uploads/2023/10/SESAM-2023-Agenda.pdf>
65. Moisuc-Hojda D., Lazăr M., Faur F., **Apostu I.M.** – *Salt exploitation by dissolution – an alternative method to reduce post-closure risks*, 11th Edition of the International Symposium on Occupational Health and Safety – SESAM 2023, 18 October 2023, Bucharest, Romania. <https://sesam2023.insemex.ro/wp-content/uploads/2023/10/SESAM-2023-Agenda.pdf>
66. **Apostu I.M.**, Lazar M., Faur F., *A Review Of Possibilities For Accelerating The Pedogenesis On Mining Waste Dumps*, Extended abstract, The 3rd EURECA-PRO Conference on Responsible Consumption and Production, 26-29 September 2023, Chania, Crete – Greece.
67. **Izabela – Maria APOSTU**, Maria LAZAR, Florin FAUR, *Geotechnical risks associated with the flooding of former lignite open pits from Oltenia mining region*, International Conference on “Sustainability, risk assessment and revitalization of post-mining pits and spoil dumps”, RAFF & SUMAD Projects’ Achievements, Wroclaw, Poland, 6-7 octombrie 2022. (prezentare fără publicare)
68. **Izabela Maria Apostu**, Maria Lazar, *Condiții de stabilitate necesare pentru taluzurile definitive înaintea inundării gurilor remanente. Studiu de caz: Bazinul Minier Rovinari*, Programul lucrărilor celui de-al XVI-lea Simpozion Național Studentesc “Geoecologia”, Petroșani, 2018, ISSN 1842-4430.
69. **Izabela-Maria Nyari (Apostu)**, *Tipuri de reutilizare a lacului format în golul remanent al carierei Peșteana Sud*, Lucrările celui de-al XV-lea Simpozion Național Studentesc “Geoecologia”, Petroșani, 2017, ISSN 1842-4430. <http://upet.ro/geoeco/doc/vol/Volum%20Geoecologia%202017.pdf>
70. **Izabela-Maria Nyari**, *Extragerea lignitului din Oltenia în contextul dezvoltării durabile*, Programul lucrărilor celui de-al XIV-lea Simpozion Național Studentesc “Geoecologia”, Petroșani, 2016, ISSN 1842-4430, pag. 65-70. http://upet.ro/geoeco/doc/vol/2016_Volum%20Geoecologia%20v1.pdf
71. **Izabela-Maria Nyari**, Elvis-Alin Apostu, *Studiul critic al stației de tratare a apei de la Zănoaga și soluții de remediere a disfuncționalităților*, Programul lucrărilor celui de-al XIII-lea Simpozion Național Studentesc “Geoecologia”, Petroșani, 2015, ISSN 1842-4430, pag. 80-83. http://upet.ro/geoeco/doc/vol/2015_Volum%20Geoecologia.pdf
72. **Izabela-Maria Nyari**, *Evaluarea stabilității haldelor de steril active din Valea Jiului utilizând logica Fuzzy*, Programul lucrărilor celui de-al XIII-lea Simpozion Național Studentesc “Geoecologia”, Petroșani, 2015, ISSN 1842-4430, pag. 76-79. http://upet.ro/geoeco/doc/vol/2015_Volum%20Geoecologia.pdf
73. Roxana Bodescu, **Izabela Nyari**, Liliana Geanina Popa, *Roșia Montană. Trecut – Prezent – Viitor*, Lucrările celui de-al XII-lea Simpozion Național Studentesc “Geoecologia”, Petroșani, 2013, ISSN 1842-4430, pag. 167-170. http://upet.ro/geoeco/doc/vol/2013_Volum%20Geoecologia.pdf
74. **Izabela-Maria Nyari**, Elvis-Alin Apostu, *Identificarea alcoolilor primari alifatici folosind ca metodă fizico-chimică conductometria*, Lucrările celui de-al XI-lea Simpozion Național Studentesc “Geoecologia”, Petroșani, 2012, ISSN 1842-4430, pag. 154-156. http://upet.ro/geoeco/doc/vol/2012_Volum%20Geoecologia.pdf

- brevete de invenție.

E) Lucrări care pun în evidență **activitatea didactică:**

- cursuri universitare publicate;

1. Faur F., **Apostu I.M.**, *Sisteme integrate de management al mediului și proceduri de auditare a acestora*, Universitas, Petroșani, 2020, ISBN: 978-973-741-729-9, 178 p.
https://www.researchgate.net/publication/349252123_SISTEME_INTEGRATE_DE_MANAGEMENT_A_L_MEDIULUI_SI_PROCEDURI_DE_AUDITARE_A_ACESTORA

- îndrumătoare publicate;

2. **Apostu, I.M.**, Lazar, M., *Hidrologie și hidrogeologie. Îndrumător de seminar și laborator*, Editura Universitas, Petroșani, 2023, ISBN 978-973-741-885-2, 246 pag.
https://www.researchgate.net/publication/374447721_HIDROLOGIE_SI_HIDROGEOLOGIE_INDRUMATOR_DE_SEMINAR_SI_LABORATOR

- culegeri publicate;

- alte materiale didactice realizate:

F) Lucrări care pun în evidență **activitatea de cercetare:**

- proiecte în cadrul unor programe de cercetare internaționale;

- proiecte în cadrul unor programe de cercetare naționale;

- proiecte de cercetare pe bază de contracte/granturi internaționale;

1. **Apostu Izabela - Maria - Membru în colectiv.** *Risk assessment of final pits during flooding (RAFF)* - Grant Agreement No. RAFF - DLV-847299, Horizon 2020 – RFCS, European Commission - Research Fund for Coal and Steel. Valoare totală: 3.417.553,95 euro; Grant: 2.050.532,37 euro (60%); UP: 140.220/84.132 euro, 2019-2022.
<https://poltegor.igo.wroc.pl/raff/>
2. **Apostu Izabela - Maria - Membru în colectiv.** *Bucket wheel excavators operating under difficult mining conditions including unmineable inclusions and geological structures with excessive mining resistance (BEWEXMIN)* - Grant de cercetare nr. RFCR-CT-2015-00003, Horizon 2020 – RFCS, Universitatea din Petroșani, Valoare contract: 473158 Euro (Contribuție UE: 283895 Euro; Cofinanțare: 189263 Euro), 2015-2018, www.bewexmin.ro.

- proiecte de cercetare pe bază de contracte/granturi naționale;

3. **Apostu Izabela - Maria - Director/responsabil.** *Cercetări privind accelerarea refacerii substratului fertil pe haldele de steril din Bazinul Minier Rovinari (CarSolMin)*, Contract nr. 4283 / 31.05.2023, Universitatea din Petroșani (Florin FAUR, Maria LAZĂR, Eugen TRAIȘTĂ, Valentina BOCȘIȘAN, Alin APOSTU, Bârdea Roxana). Valoare proiect: 100000 RON.
4. **Apostu Izabela - Maria - Membru în colectiv.** *Cercetări privind asigurarea stabilității terenurilor din bazinul minier Berbești post-închidere (CSMin)*. Contract de cercetare științifică nr. 6444/07.10.2021, Universitatea din Petroșani (Faur F., Lazăr M. Apostu I.M., Rada C., Sili N., Șuleru E.). Valoare proiect: 35000 RON. Regie aferentă + Dotări 9775.
5. **Apostu Izabela - Maria - Membru în colectiv.** *Cercetare științifică universitară privind ecologie și protecția mediului în economia circulară (CSU_ECO_UPET)*. Contract de cercetare științifică nr. 6445/07.10.2021, Universitatea din Petroșani (Ciolea D.I., Bădulescu C., Apostu I.-M., Cojocaru F., Budeanu D.). Valoare proiect: 35000 RON. Regie aferentă + Dotări 26132,77 lei.

- contracte de cercetare derulate cu agenții economici;

1. **Apostu Izabela - Maria - Membru în colectiv.** *Studiu privind exploatarea în condiții de siguranță și eficiență economică a unei cantități de 700000 tone cărbune (lignit) din cariera Alunu, perimetrul de exploatare Olteț, Comanda nr. 140/08.05.2023, C.E.T. Govora S.A. Râmnicu Vâlcea (Divizia minieră), 2023. Valoare totală: 75000 lei.*
2. **Apostu Izabela - Maria - Membru în colectiv.** *Comanda nr. 280/12.10.2021, Studiu privind exploatarea în condiții de stabilitate și eficiență economică a zăcămintului de lignit din cariera Alunu, perimetrul de exploatare Olteț, C.E.T. Govora S.A. Râmnicu Vâlcea (Divizia minieră), 2021. Valoare totală: 60000 lei. Regie aferentă plus dotări: 37576 lei.*
3. **Apostu Izabela - Maria - Membru în colectiv.** *Expertiză tehnică privind modul de producere a evenimentului din data de 23.05.2019 la excavatorul cu rotor de mare capacitate E-01 din cadrul carierei Alunu, Contract de servicii nr. 197/12.06.2019 încheiat cu Societatea C.E.T. Govora S.A. – Râmnicu Vâlcea. Valoare proiect: 40.000 lei. (1 EUR = 4,72 lei).*

- alte lucrări de cercetare, după caz.

OBSERVAȚII FINALE

- a) În listă se includ numai lucrările deja publicate, respectiv nu se includ lucrările aflate în curs de publicare, în manuscris sau alte lucrări (comunicări, referate tematice etc.);
- b) Lucrările reeditate care nu includ contribuții noi ale candidatului și lucrarea de bază (inițială) se înregistrează sub același indicativ, precizându-se la fiecare numărul ediției;
- c) Articolele/studiile în extenso publicate în reviste sau volumele unor manifestări științifice, reluate de alte publicații, vor fi înregistrate o singură dată, la poziția inițială, cu menționarea reluărilor/reeditărilor;
- d) Recenziile/rezumatele unor lucrări, apărute în alte publicații, vor fi înregistrate la poziția lucrării inițiale, cu menționarea acestora (nu vor fi specificate ca poziții separate).

Data 05.12.2023

Candidat,

Apostu Izabela-Maria