MINISTERUL EDUCAŢIEI NAŢIONALE

UNIVERSITATEA TEHNICĂ DIN CLUJ-NAPOCA

Anexa B.9.2.1. Centralizator cercetare

Universitatea Tehnică din Cluj-Napoca
Facultatea de Inginerie
Domeniul de licenţă: Ingineria Mediului
Programul de studii Evaluarea Impactului si Riscului pentru Mediu

CENTRALIZATORUL DATELOR PRIVIND CERCETAREA ŞTIINŢIFICĂ DESFĂSURATĂ ÎN FACULTATE/DEPARTAMENT (2021-2026)

Nr. crt.	Teme de cercetare ştiinţifică de la obtinerea autorizarii provizorii, inclusiv anul care precede evaluarea externa in vederea acreditarii (datele suport ale centralizatorului se prezinta in formatul electronic de raportare anuala la CNCSIS)	Modul de finanţare *	Rezultate şi modalităţi de valorificare a cercetării		
			Valoare realizată		Lucrări, publicaţii, granturi, alte produse ale cercetării **
			An univ.	lei	
1.	Studii la solicitari (Ravai-Nagy Sandor)	AC-ST-2022	2024	**25556**	Raport de cercetare
2.	EO PLATFORM SUPPORTING CRITICAL RAW MATERIALS INDUSTRY IN EUROPE - **GOLDENRAM** *(Bud Ioan, Gusat Dorel, Gorgan Dorian, Cosma Ovidiu, Micle Valer, Daraba Dinu, Gabor Timea, Nagy Sorina, Muresan Simona, Petruti Catalin, Longa Sebastian, Sillai Beatrice, Ionescu Ioana, Rus Dora, Fodor Denisa, Pop Vadean, Volner Monica)*	HORIZON-CL4-2023-RESILIENCE-01	2024-2027	**2505641,95**	Rapoarte de cercetare 1 Carte – in print 2 ISI 5 Modele unice pentru simulare 3D 4 lucrari ISI – in lucru 2 Digital Twin (Cuprumin si SAVANNAH) Peste 100.000EURO in echipamente si softuri

3.	*CRIMIGE Ivano-Frankivsk National Technical University of Oil and Gas* *Manager Stet Stefania*	Grant international transforontalier 1702/6.1/2022	2023	**139072,91**	Raport de cercetare
4.	*CRIMIGE Ivano-Frankivsk National Technical University of Oil and Gas* *Manager Stet Stefania*	Grant international transforontalier 1702/6.1/2022	2022	**255052,74**	Raport de cercetare
5.	*CRIMIGE Ivano-Frankivsk National Technical University of Oil and Gas* *Manager Coman Mirela*	Grant international transforontalier 1702/6.1/2022	2021	**50953,15**	Raport de cercetare
6.	Dezvoltare accesoriu frezare melci extrudori cu freze cilindro-frontale destinat strungului paralel SNA 630X3000 Manager ***Ravai Sandor***	RECOND EXPERT SRL	2021	**2261**	Raport de cercetare
7.	Studiul la solicitari compuse a consolei MFK2-L.K. Manager ***Ravai Sandor***	B&K ELECTRO SISTEM SRL	**2021**	4676,70	Raport de cercetare
8.	Studiu si solutii pentru sistemele de siguranta a matritelor de insertie cabluri Manager ***Ravai Sandor***	INTERCONTI INDUSTRIE SRL	2021	**1666**	Raport de cercetare
9.	CROSS-BORDER NETWORK OF ENERGY SUSTAINABLE UNIVERSITIES - **Net4Senergy** Manager ***Bârz Cristian***	TransfrontalierGrant Contract-External Actions Of The European Union - HUSKROUA	2021	**44469**	Raport de cercetare
10.	Earth observation and Earth GNSS data acquisition and processing platform for safe, sustainable and cost-efficient mining operations — **Goldeneye** *(Bud Ioan, Gusat Dorel, Gorgan Dorian, Cosma Ovidiu, Micle Valer, Daraba Dinu, Gabor Timea, Nagy Sorina, Muresan Simona, Petruti Catalin, Rus Dora, Fodor Denisa, Muresan Adina)*	Contract H2020-SC5-2018-2019-2020	2020-2024	**967035**	Raport de cercetar 1 Carte 3 lucrari in Proquest 2 lucrari in BDI 3 Modele de SImulare Numerica 1 Digital Twin in Cloud-UT
	TOTAL			**3996384,45**	

Rezultate sintetice, 2021-2026

- Proiecte de cercetare 10 în valoare de 3.996.384 (*3 aparţin DIRMMM – 3.523.630,1 lei*) din care:
- Contracte cu terti 4, în valoare de 34159,7 lei
- Granturi 4, în valoare de 3.917.755,65 lei (3 *aparţin DIRMMM din care 3 granturi internationale*)

Valorificarea cercetării prin:

- Raport cercetare/tehnic 10 (*4 aparţin DIRMMM*)
- lucrări ISI 6 (*6 aparţin DIRMMM*)

*** Contract, grant, plan intern, colaborare etc.**
**** Se indică numărul pe tipuri şi se anexează lista acestora.**

Rector
Prof.univ.dr.ing. VASILE ȚOPA

Persoana de contact
Prof. Univ. Dr. Ing. Bud Ioan

UNIVERSITATEA TEHNICĂ DIN CLUJ-NAPOCA

RAPORT PRIVIND ACTIVITATEA DE CERCETARE ȘI DIDACTICĂ

RAPORT

STRUCTURA DE CERCETARE

PERIOADA 1/1/2022 – 31/12/2026

Generat la data de 12/11/26

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Cuprins

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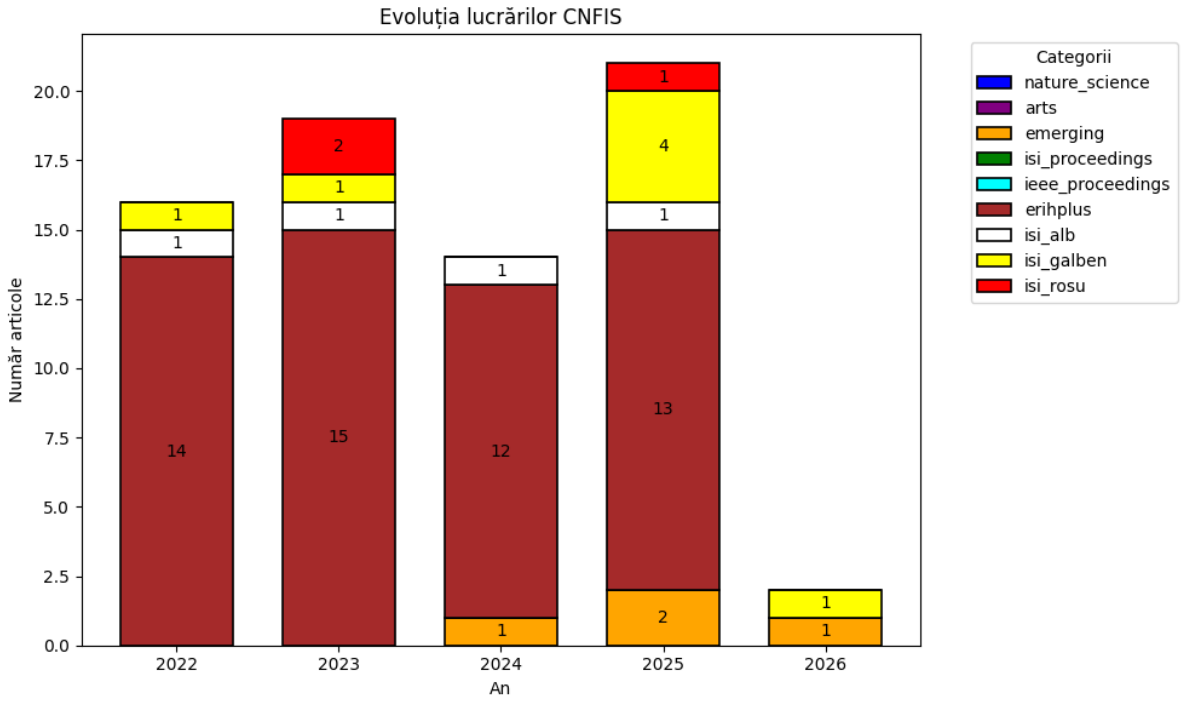
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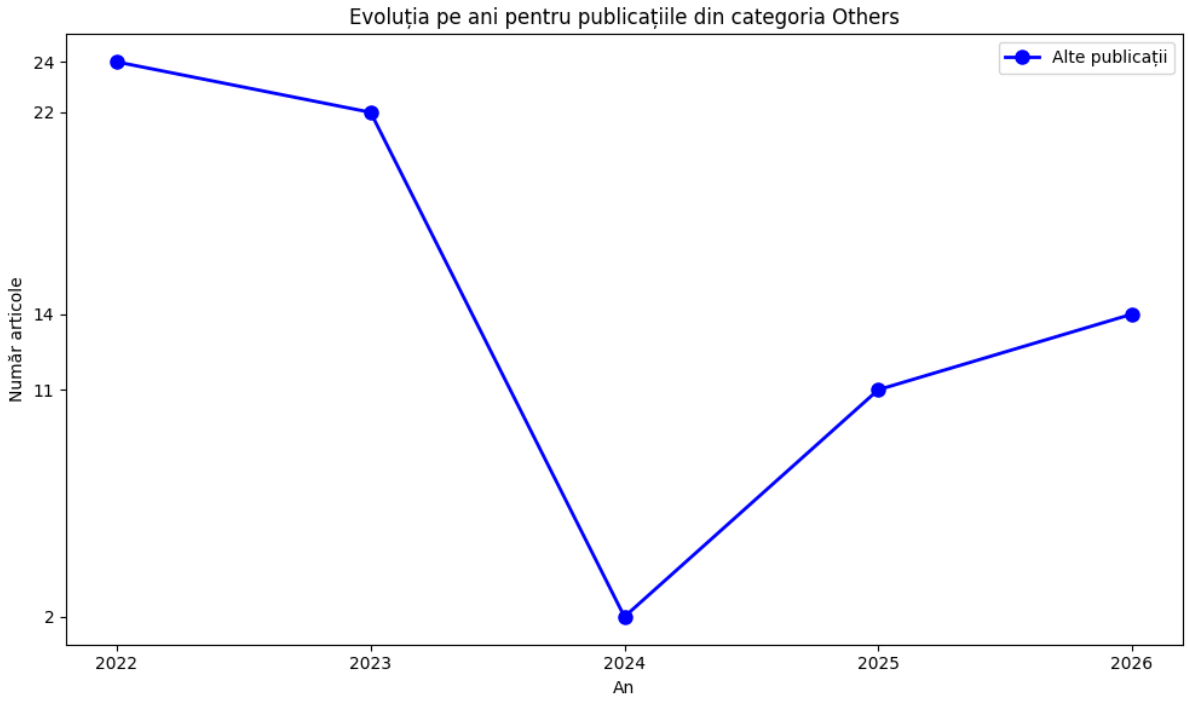
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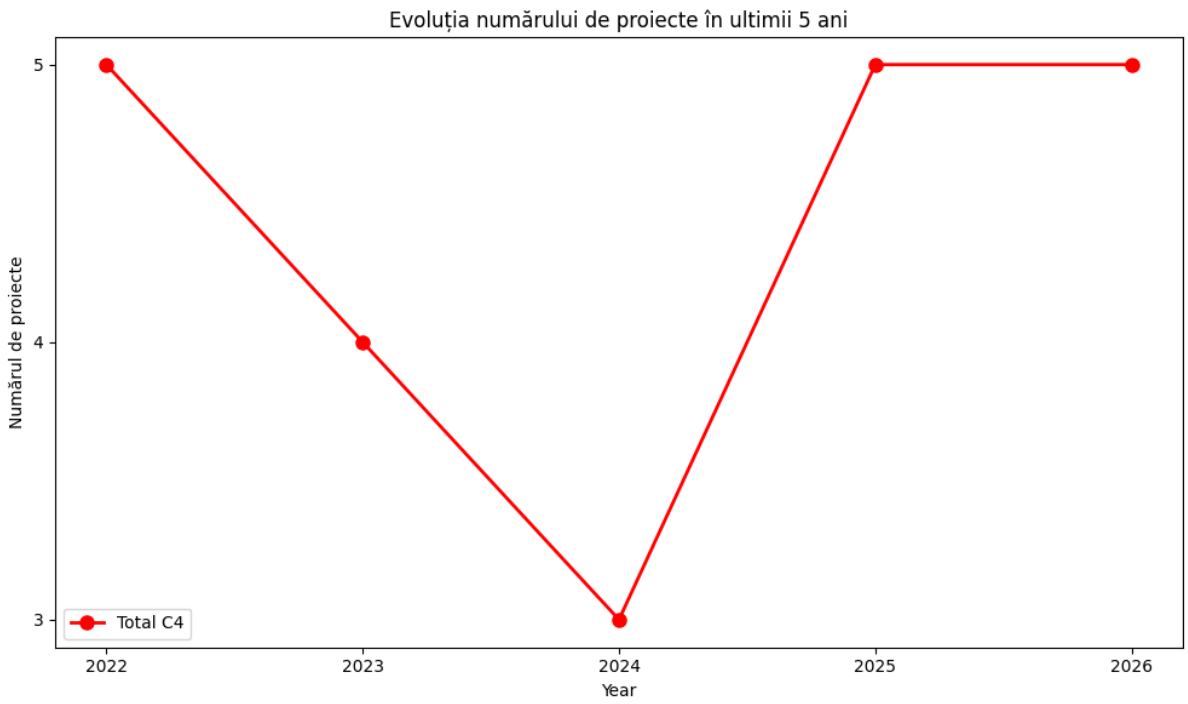
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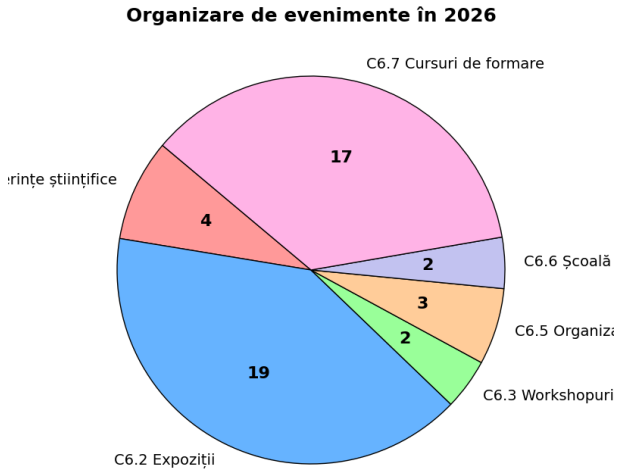
Activitatea de cercetare





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Sinteza activității de cercetare

			2022	2023	2024	2025	2026
C4.Proiecte de cercetare	Total din care		5	4	3	5	5
		Proiecte de cercetare obținute prin competiție	1	0	0	0	0
		Proiecte de cercetare derulate pentru terți	4	4	3	5	5
C2.1 Brevete			0	0	0	0	0
C2.2 Produse modele și studii			0	9	0	0	0
C3 Cărți			0	0	0	0	1
C5 Afiliere Instituțională			0	0	0	0	0
C6 Organizare			10	9	12	10	6
C1. Lucrări ştiinţifice	Total din care		40	41	16	32	16
		Nature/Science	0	0	0	0	0
		ISI Roșu	0	2	0	1	0
		ISI Galben	1	1	0	4	1
		Isi Alb	1	1	1	1	0
		ISI Arts&Humanities	0	0	0	0	0
		ISI Emerging Sources Citation Index	0	0	1	2	1
		ERIH+	14	15	12	13	0
		ISI Proceedings	0	0	0	0	0
		IEEE Proceedings	0	0	0	0	0
		Others	24	22	2	11	14
C7 Citări			97	107	107	153	114
C8 Premii			0	0	0	0	0
C9 Alte activități			0	0	0	0	0

C1 Articole științifice

ISI Roșu

1. Fatma Belbel, Mehdi Boukheroufa, Valer Micle, Ioana Monica Sur, Feriel Sakraoui & Irina Smical (2025). „Heavy Metal Accumulation (Cd, As, Zn, Cu, Cr) in Hair and Bones of Small Mammal Prey of the Sentinel Species Common Genet (Genetta genetta) in an Anthropogenic Environment of Edough Mountain Forest, Northeastern Algeria”. *ANIMALS* 15(1), Article 114. https://doi.org/10.3390/ani15010114
2. Dania Racolta, Constantin Andronache, Maria Balasoiu, Leonard Mihaly-Cozmuta, Vadim Sikolenko, Oleg Orelovich, Andrey Rogachev, Gheorghe Borodi & Gheorghe Iepure (2023). „Influence of the Structure on Magnetic Properties of Calcium-Phosphate Systems Doped with Iron and Vanadium Ions”. *INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES* 24(8), Article 7366. https://doi.org/10.3390/ijms24087366

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3. Irina Smical, Adriana Muntean, Valer Micle & Ioana Monica Sur (2023). „The Influence of Spent Portable Battery Waste on the Aquatic Environment". *APPLIED SCIENCES-BASEL* 13(21), Article 11658. https://doi.org/10.3390/app132111658

ISI Galben

1. Alina Bianca Pop, Jozsef Juhasz, Cristian Barz & Aurel Mihail Titu (2026). „Predictive Surface Topography Mapping and Modeling of Al 7136 Aerospace Components Based on Machining Stability Limits". *COATINGS* 16(7), Article 836. https://doi.org/10.3390/coatings16070836
2. Daniela Lucia Chicet, Jozsef Juhasz, Cosmin Mihai Cotrut, Bogdan Istrate & Corneliu Munteanu (2025). „Assessment of the Corrosion Resistance of Thermal Barrier Coatings on Internal Combustion Engine Components". *MATERIALS* 18(6), Article 1227. https://doi.org/10.3390/ma18061227
3. Irina Smical, Adriana Muntean, Valer Micle, Ioana Monica Sur & Aurelian Cosmin Moldovan (2025). „Study on Human Health Risks Associated with Consuming Vegetables Grown in Industrially Polluted Soil in Sasar Area, NW Romania, in the Context of Sustainable Development". *SUSTAINABILITY* 17(9), Article 4072. https://doi.org/10.3390/su17094072
4. Marinel Kovacs, Alexandru Szakacs, Alexandru Andrasanu & Ioan Denut (2025). „The "Gutâi-Maramures" UNESCO Geopark Project Development and Heritage Values-Based Sustainable Tourism in the Gutâi Volcanic Zone, East Carpathians (Romania)". *LAND* 14(4). https://doi.org/10.3390/land14040726
5. Gheorghe Iepure & Aurica Pop (2025). „Treatment of Acid Mine Water from the Breiner-Băiut Area, Romania, Using Iron Scrap". *WATER* 17(2), Article 225. https://doi.org/10.3390/w17020225
6. Alina Bianca Pop, Gheorghe Iepure, Aurel Mihail Titu & Sandor Ravai-Nagy (2023). „Characterization and Corrosion Behavior of Zinc Coatings for Two Anti-Corrosive Protections: A Detailed Study". *COATINGS* 13(8), Article 1460. https://doi.org/10.3390/coatings13081460
7. Bogdan-Vasile Cioruta & Mirela Coman (2022). „Definition, Role, and Functions of Soil Related to the Knowledge Society and the Somes-Tisa Hydrographic Area (Romania)". *SUSTAINABILITY* 14(14), Article 8688. https://doi.org/10.3390/su14148688

ISI Alb

1. Gheorghe Iepure, Eugenia Andreea Tuns (Oane) & Aurica Pop (2025). „EVALUATION OF SURFACE WATER QUALITY IN THE BAITA MINING AREA". *CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES* 20(1), 223–240. https://doi.org/10.26471/cjees/2025/020/328
2. Jozsef Juhasz, Valeria Mirela Brezoczki, Gabriela Maria Filip & Corneliu Munteanu (2024). „CONSIDERATION REGARDING GASEOUS EMISSIONS INCINERATION OF HOUSEHOLDS WASTE FROM MARAMURES COUNTY, ROMANIA". *ENVIRONMENTAL ENGINEERING AND MANAGEMENT JOURNAL* 23(6). https://doi.org/10.30638/eemj.2024.106
3. Atanas Hikov, Anca-Marina Vijdea, Irena Peytcheva, Gyozo Jordan, Prvoslav Marjanovic, Zlatka Milakovska, Petyo Filipov, Milena Vetseva, Albert Baltres, Veronica Elena Alexe, Lidia-Lenuta Balan, Marko Marjanovic, Vladica Cvetkovic, Kristina Saric, Sandor Baranya, Oleg Bogdevich, Teja Ceru, Neda Devic, Meta Dobnikar, Katalin Maria Dudas, Lidija Galovic, Anna Gibalova, Ismir Hajdarevic, Jarmila Halirova, Edith Haslinger, Franko Humer, Paul Kinner, Volodymyr Klos, Tanja Knoll, Jozef Kordik, Barbara Keri, Zuzana Kersnakova, Kristina Koret, Zsofia Kovacs, Gheorghe Iepure, Danijel Ivanisevic, Ana Caic Jankovic, Libor Mikl, Ivan Misur, Maria Mortl, Daniel Nasui, Igor Nicoara, Toni Nikolic, Jarmila Novakova, Sebastian

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Pfleiderer, Slobodan Radusinovic, Heinz Reitner, Ajka Sorsa, Pavel Stierand, Igor Stricek, Andras Szekacs, Zsolt Szakacs, Eszter Takacs, Barbara Traxler & Dragica Vulic (2023). „ASSESSMENT OF RIVER SEDIMENT QUALITY ACCORDING TO THE EU WATER FRAMEWORK DIRECTIVE IN LARGE RIVER FLUVIAL CONDITIONS. A CASE STUDY IN THE LOWER DANUBE RIVER BASIN". *CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES* 18(1), 195–211. https://doi.org/10.26471/cjees/2023/018/251

4. Gheorghe Damian, Gheorghe Iepure, Gyozo Jordan, Daniel Nasui, Jasminka Alijagic, Danijel Ivanisevic, Lidija Galovic & Ioan Beres (2022). „ASSESSMENT OF RIVER SEDIMENT QUALITY ACCORDING TO THE EU WATER FRAMEWORK DIRECTIVE IN MOUNTAINOUS FLUVIAL CONDITIONS. A CASE STUDY IN THE UPPER TISA AREA, DANUBE RIVER BASIN". *CARPATHIAN JOURNAL OF EARTH AND ENVIRONMENTAL SCIENCES* 17(2), 441–458. https://doi.org/10.26471/cjees/2022/017/234

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1. Valeria M. Brezoczki, Teodora Ungureanu (2026). „UTILIZATION OF AGRICULTURAL LAND POLLUTED WITH HEAVY METALS: A CASE IN THE MARAMURES REGION, ROMANIA". *SCIENTIFIC STUDY AND RESEARCH-CHEMISTRY AND CHEMICAL ENGINEERING BIOTECHNOLOGY FOOD INDUSTRY* 27(1), 23–37. https://doi.org/10.29081/ChIBA.2026.661
2. Marcela Hreniuc (Saliscan), Bogdan-Vasile Cioruta, Mirela-Ana Coman, Ioana-Elisabeta Sabou (Cioruta), Alexandru Leonard Pop (2025). „AN INFOGRAPHIC PERSPECTIVE ON CURRENT CONCERNS REGARDING SOIL PROTECTION IN MARAMURES (ROMANIA)". *AGROLIFE SCIENTIFIC JOURNAL* 14(2), 103–114. https://doi.org/10.17930/AGL202529
3. Claudiu-Denis Filip, Mirela Ana Coman (2025). „REGARDING TRANSFER FACTOR OF SOIL POLLUTION WITH HEAVY METALS IN SOIL-PLANT SYSTEM". *SCIENTIFIC PAPERS-SERIES A-AGRONOMY* 68(1), 90–99
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1. Adina Bud, Andrei Curoș, Ioan Bud, Daniela Delinschi (2025). „COMPROMISING SMART AGRICULTURE THROUGH THE IRRESPONSIBLE ABANDONMENT OF POLYMETALLIC MINING IN MARAMURES COUNTY". *Scientific Bulletin Series D Mining Mineral Processing Non-Ferrous Metallurgy Geology and Environmental Engineering*, 39(1), 63–68. https://doi.org/10.37193/sbsd.2025.1.07
2. Irina Smical, Ildiko Terezia Grama (2025). „CONSIDERATIONS ON THE MANAGEMENT OF WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE) IN THE ADMINISTRATIVETERRITORIAL UNIT OF SOMCUTA MARE, MARAMURES COUNTY, ROMANIA". *Scientific Bulletin Series D Mining Mineral Processing Non-Ferrous Metallurgy Geology and Environmental Engineering*, 39(1), 69–79. https://doi.org/10.37193/sbsd.2025.1.08
3. Irina Smical, Balint MIHALY- KAROLY (2025). „ENVIRONMENTAL PERFORMANCE ASSESSMENT OF HAZARDOUS SLUDGE TRANSPORTATION AT SC RONGO IMPEX SRL MARAMUREȘ COUNTY, ROMANIA". *Scientific Bulletin Series D Mining Mineral Processing Non-Ferrous Metallurgy Geology and Environmental Engineering*, 39(2), 77–84. https://doi.org/10.37193/sbsd.2025.2.08
4. Valeria Mirela Brezoczki, Maria-Emanuela Crișan (2025). „IMPROVING THE FERTILITY AND QUALITY OF AGRICULTURAL SOILS THROUGH FARMYARD MANURE APPLICATION". *Scientific Bulletin Series D Mining*

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Mineral Processing Non-Ferrous Metallurgy Geology and Environmental Engineering, 39(1), 97–103. https://doi.org/10.37193/sbsd.2025.1.11

5. Valeria Mirela BREZOCZKI (2025). „LONG-TERM HYDROCHEMICAL EVOLUTION AND BALNEOLOGICAL POTENTIAL OF A MINERAL SPRING IN MARAMUREȘ, ROMANIA, IN THE CONTEXT OF THE 2030 SUSTAINABLE DEVELOPMENT STRATEGY". *Scientific Bulletin Series D Mining Mineral Processing Non-Ferrous Metallurgy Geology and Environmental Engineering*, 39(2), 41–51. https://doi.org/10.37193/sbsd.2025.2.05
6. Adina Bud, Andrei Curoș, Ioan Bud, Daniela Delinschi (2025). „LOSS OF AN IMPORTANT RESOURCE - SOIL, DUE TO THE LACK OF HYDROTECHNICAL DEVELOPMENTS IN THE HYDROGRAPHIC NETWORK CONTAMINATED WITH HEAVY METALS". *Scientific Bulletin Series D Mining Mineral Processing Non-Ferrous Metallurgy Geology and Environmental Engineering*, 39(1), 105–111. https://doi.org/10.37193/sbsd.2025.1.12
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8. Dorel Gusat, Ioan Bud, Dinu Daraba (2025). „MONITORING THE AIR QUALITY USING REMOTE SENSING – USE CASE EASTEN PART OF BAIA MARE CITY INDUSTRIAL PARK AREA". *Scientific Bulletin Series D Mining Mineral Processing Non-Ferrous Metallurgy Geology and Environmental Engineering*, 39(1), 113–120. https://doi.org/10.37193/sbsd.2025.1.13
9. Irina Smical, Florin Tomuța (2025). „RECYCLING OF POLYETHYLENE FILM WASTE THROUGH EXTRUSION–REGRANULATION FOR ENVIRONMENTAL BENEFITS AND CIRCULAR ECONOMY PERSPECTIVES IN MARAMURES COUNTY, ROMANIA". *Scientific Bulletin Series D Mining Mineral Processing Non-Ferrous Metallurgy Geology and Environmental Engineering*, 39(1), 23–34. https://doi.org/10.37193/sbsd.2025.1.03
10. Jozsef Juhasz (2025). „STUDIES AND RESEARCH ON THE PRODUCTION OF ALUCOBOND ALUMINUM ALLOY PANELS". *Scientific Bulletin Series D Mining Mineral Processing Non-Ferrous Metallurgy Geology and Environmental Engineering*, 39(2), 7–13. https://doi.org/10.37193/sbsd.2025.2.01
11. Dorel Gusat, Ioan Bud, Dinu Daraba (2025). „STUDIES AND RESEARCH ON THE STABILITY OF A SANDSTONE QUARRY PRODUCTION". *Scientific Bulletin Series D Mining Mineral Processing Non-Ferrous Metallurgy Geology and Environmental Engineering*, 39(2), 53–65. https://doi.org/10.37193/sbsd.2025.2.06
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54. Neamt Liviu Ioan, Ungureanu Miorita, Smical Ana Irina (2022). „Buletinul stiintific. Sesiunea anuala de comunicari stiintifice a studentilor NordTech". *Buletinul stiintific. Sesiunea anuala de comunicari stiintifice a studentilor NordTech*, 8(1)
55. Irina Smical (2022). „CONSIDERATIONS ON HOUSEHOLD HAZARDOUS WASTE (HHW) MANAGEMENT IN MARAMURES COUNTY, ROMANIA". *Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology and Environmental Engineering*, 36(2), 55–64
56. Bogdan-Vasile Cioruța, Mirela Coman (2022). „Definition, role, and functions of soil related to the knowledge society and the Someș-Tisa hydrographic area (Romania)". *Sustainability*, 14(14)
57. Gabriela Maria Filip, Valeria Mirela Brezoczki (2022). „ENVIRONMENTAL EFFECTS OF TRANSPORT AND DISTRIBUTION OF ELECTRICITY EQUIPMENT". *Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology and Environmental Engineering*, 36(2), 49–54
58. Stet Mihaela Nicoleta, Adamenko Yaroslav, Coman Mirela Ana, Lung Claudiu Ionel, Horgos Gheorghe Mircea, Cioruta Bogdan, Liudmyla Arkhypova, Nataliia Hlibovytska, Taras Kachala, Mariia Orfanova, Tamara Kundelska, Oleh Mandryk, Mykola Shtohryn, Kateryna Rodlovska (2022). „Environmental impact of the production, transmission, distribution and use of electricity".
59. Coman Mirela Ana (2022). „How can Mobile Devices assist in Soil Monitoring and Protection?".
60. Stet,Mihaela Nicoleta, Cioruta Bogdan, Coman,Mirela Ana, Horgos,Gheorghe Mircea, Lung,Claudiu Ionel (2022). „Impactul electricitatii asupra mediului".

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61. Stet,Mihaela Nicoleta, Yaroslav Adamenko, Coman,Mirela Ana, Horgos,Gheorghe Mircea, Lung,Claudiu Ionel, Cioruta Bogdan, Liudmyla Arkhypova, Nataliia Hlibovytska, Taras Kachala, Tamara Kundelska, Oleh Mandryk, Mariia Orfanova, Kateryna Rodlovska, Mykola Shtohryn (2022). „Impactul producerii, transportului, distribuției și utilizării electricității asupra mediului".
62. Coman Mirela Ana (2022). „Implicațiile platformei MIT App Inventor în monitorizarea și protecția resurselor de sol".
63. Coman Mirela Ana (2022). „Incursiune în educația e- și m-learning pentru protecția solurilor".
64. Coman Mirela Ana (2022). „Is the Someș-Tisa hydrographic area pretable for pedological studies carried out with mobile apps?".
65. Ioan Bud, DOREL GUȘAT (2022). „MEASURES TO REDUCE THE ENVIRONMENTAL IMPACT OF A SMALL ANDESITE EXPLOITATION (PART II).". *Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology & Environmental Engineering*, 36(2)
66. Ioan Bud, Dorel Gusat (2022). „MEASURES TO REDUCE THE ENVIRONMENTAL IMPACT OF A SMALL ANDESITE EXPLOITATION.". *Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology & Environmental Engineering*, 36(1)
67. Coman Mirela Ana (2022). „New perspectives in definition, classification and description of mobile soil protection applications".
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69. Irina Smical (2022). „REMARKS ON INDUSTRIAL HAZARDOUS WASTE MANAGEMENT IN MARAMUREȘ COUNTY, ROMANIA". *Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology and Environmental Engineering*, 36(1), 55–65
70. Irina Smical (2022). „REMARKS ON THE ROAD TRANSPORT OF HAZARDOUS WASTE IN ROMANIA". *Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology and Environmental Engineering*, 36(1), 73–79
71. Coman Mirela Ana (2022). „Saving and Storing Data through Mobile-based Applications Dedicated to Soil Protection".
72. Coman Mirela Ana (2022). „Soil Protection & Mobile Apps created with MIT App Inventor® - a Multidisciplinary Symbiosis?".
73. Ioan Bud, Dorel Guşat (2022). „WORLDS DEMAND ON MINED RESOURCES-STATE OF MINING IN THE WORLD-ROMANIAN CLOSE VIEW.". *Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology & Environmental Engineering*, 36(2)

C2 Brevete și Modele

C2.2 Modele

1. Gusat Dorel, Bud Ioan (2023). *Analiza simulărilor numerice in calculul de stabilitate a Carierei Rosia Poieni*.
2. Gusat Dorel, Bud Ioan (2023). *Analiza simulărilor numerice in calculul de stabilitate a Haldelor de Steril Carierei Rosia Poieni*.
3. Gusat Dorel, Bud Ioan (2023). *Integrarea discontinuităților majore in modelul 3D al corpului de zăcământ si in calculul stabilității - Virtualizare in CLOUDUT*.

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4. Gusat Dorel, Bud Ioan (2023). *Integrarea discontinuităților minore cu caracteristicile acestora in modelul HOOK-Brown privind caracterizarea geomecanica a masivului - Model calcul CUP*.
5. Gusat Dorel, Bud Ioan (2023). *Metode grafice de întocmire a ortofotoplanurilor – publicate in Ghid*.
6. Gusat Dorel, Bud Ioan (2023). *Optimizarea formulelor de calcul parametrilor geomecanici de la scara de laborator la extrapolarea la scara masivului*.
7. Gusat Dorel, Bud Ioan, PETRUTI CATALIN (2023). *Procedeu/platforma de ticketing system – urmarire a cerintelor stakeholder*.

C2.3 Tehnologii

1. Gusat Dorel, Bud Ioan (2023). *Formula de delimitare a patru structuri de rocă cu caracteristici geomecanice diferite*. Universitatea Tehnică din Cluj-Napoca. *GoldenEye - Formula de delimitare a patru structuri de rocă cu caracteristici geomecanice diferite – publicate in Ghid - 46.395 lei*.
2. Gusat Dorel, Bud Ioan, GOIA MIRCEA (2023). *Perfecționarea metodei de perforare împușcare in cariera Roșia Poieni*. Universitatea Tehnică din Cluj-Napoca, CUPRUMIN ABRUD SA. *GoldenEye - model grafic si de teren de perfectionare a împușcarii in cariera Rosia Poieni - 46.395 lei*.

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C3 Cărți şi Capitole

C3.3 Editor de carte

1. Paavola M., Kotavaara O., Bogdanov K., Knobloch A., Gusat Dorel, Joutsenvaara J. (2026). „An introduction to applications from earth observation to proximity sensing for safe, sustainable and cost-efficient mining operations”. *Geological Society of London*, 559(1), 1–13. https://doi.org/10.1144/gslspecpub2026-46

C4 Proiecte cercetare

C4.2 Proiecte de cercetare derulate pentru terți

1. Gusat Dorel, Bud Ioan, Gorgan Dorian, Daraba Dinu, Cosma Ovidiu. (2026). *GOLDENRAM - EO PLATFORM SUPPORTING CRITICAL RAW MATERIALS INDUSTRY IN EUROPE*. Universitatea Tehnică din Cluj-Napoca. Buget: 6660647.74 EUR. Contract: 101138153/2023. [2024–2027]. *The GoldenRAM (G-RAM) project will provide easy exchange of accurate information on Raw Materials in the European Union and partnering resource-rich countries for organisations engaged in the mining industry and public stakeholders. The project will develop an Earth Observation Platform (G-RAM platform) leveraging novel Artificial Intelligence (AI) Natural Language processing in combination with advanced, proprietary Artificial Intelligence Knowledge Packs (AIKPs) which simplify complex computation workflows and provide seamless access to a unique and validated combination of geological and remote sensing data, domain expertise, and multipurpose mapping technologies for geological and mining industry stakeholders. Especially, the introduction of AIKPs plays an important role in advancing the TRL of state-of-the-art solutions and enabling their wider adoption among the industry and stakeholders. The G-RAM platform will be demonstrated in 6 field trials in Finland (2 sites), Sweden, Romania, Ukraine, and Portugal creating a compelling value proposition for implementation across the mining industry value chains and improving responsible and sustainable supply of CRMs: Co, Li, REE, P; PGMs Pd and Pt; as well as Cu and Ni to Europe. The project will increase the raw material investment potential for Ukraine by promoting exploitation prospects via the G-RAM platform therefore supporting implementation of the Roadmap for EU-Ukraine Strategic Partnership on raw materials. The consortium brings together interdisciplinary expertise fit to solve the challenges related to the building of large-scale ICT platforms, geologic and remote-sensing know-how, benchmarking, market analysis, business modelling and result dissemination, and will include 4 academic/research centres, 5 SMEs, and 4 end-users, supported by a strong External Advisory Board of experts in geosciences and mining.*
2. Radulescu Corina Michaela, Nas Sanda Marioara, Radulescu Adrian Traian, Radulescu Virgil Mihai, Gusat Dorel, Radulescu Gheorghe. (2026). *Introduction of Monitoring Wetlands of International Importance in the Carpathian Region*. Universitatea Tehnica din Cluj-Napoca. (null) Buget: 175763.0 EUR. Contract: HUSKROUA/23/RS/1.2/036. [2025–2027].
3. Gusat Dorel, Bud Ioan, Gorgan Dorian, Daraba Dinu. (2025). *GOLDENRAM - EO PLATFORM SUPPORTING CRITICAL RAW MATERIALS INDUSTRY IN EUROPE*. Universitatea Tehnică din Cluj-Napoca. Buget: 6660647.74 EUR. Contract: 101138153/2023. [2024–2026]. *The GoldenRAM (G-RAM) project will provide easy exchange of accurate information on Raw Materials in the European Union and partnering resource-rich countries for organisations engaged in the mining industry and public stakeholders. The project will*

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develop an Earth Observation Platform (G-RAM platform) leveraging novel Artificial Intelligence (AI) Natural Language processing in combination with advanced, proprietary Artificial Intelligence Knowledge Packs (AIKPs) which simplify complex computation workflows and provide seamless access to a unique and validated combination of geological and remote sensing data, domain expertise, and multipurpose mapping technologies for geological and mining industry stakeholders. Especially, the introduction of AIKPs plays an important role in advancing the TRL of state-of-the-art solutions and enabling their wider adoption among the industry and stakeholders. The G-RAM platform will be demonstrated in 6 field trials in Finland (2 sites), Sweden, Romania, Ukraine, and Portugal creating a compelling value proposition for implementation across the mining industry value chains and improving responsible and sustainable supply of CRMs: Co, Li, REE, P; PGMs Pd and Pt; as well as Cu and Ni to Europe. The project will increase the raw material investment potential for Ukraine by promoting exploitation prospects via the G-RAM platform therefore supporting implementation of the Roadmap for EU-Ukraine Strategic Partnership on raw materials. The consortium brings together interdisciplinary expertise fit to solve the challenges related to the building of large-scale ICT platforms, geologic and remote-sensing know-how, benchmarking, market analysis, business modelling and result dissemination, and will include 4 academic/research centres, 5 SMEs, and 4 end-users, supported by a strong External Advisory Board of experts in geosciences and mining.

4. Radulescu Corina Michaela, Nas Sanda Marioara, Radulescu Adrian Traian, Radulescu Virgil Mihai, Gusat Dorel, Radulescu Gheorghe, Gusat Dorel, Radulescu Gheorghe. (2025). *Introduction of Monitoring Wetlands of International Importance in the Carpathian Region*. Universitatea Tehnică din Cluj-Napoca. Buget: 175.763 EUR. Contract: HUSKROUA/23/RS/1.2/036. [2025–2027].
5. Gusat Dorel, Bud Ioan, Gorgan Dorian, Micle Valer, Daraba Dinu, Cosma Ovidiu, Gabor Timea. (2024). *GOLDENRAM - EO PLATFORM SUPPORTING CRITICAL RAW MATERIALS INDUSTRY IN EUROPE*. Universitatea Tehnică din Cluj-Napoca. Buget: 6660647.74 EUR. Contract: 101138153/2023. [2024–2026]. *The GoldenRAM (G-RAM) project will provide easy exchange of accurate information on Raw Materials in the European Union and partnering resource-rich countries for organisations engaged in the mining industry and public stakeholders. The project will develop an Earth Observation Platform (G-RAM platform) leveraging novel Artificial Intelligence (AI) Natural Language processing in combination with advanced, proprietary Artificial Intelligence Knowledge Packs (AIKPs) which simplify complex computation workflows and provide seamless access to a unique and validated combination of geological and remote sensing data, domain expertise, and multipurpose mapping technologies for geological and mining industry stakeholders. Especially, the introduction of AIKPs plays an important role in advancing the TRL of state-of-the-art solutions and enabling their wider adoption among the industry and stakeholders. The G-RAM platform will be demonstrated in 6 field trials in Finland (2 sites), Sweden, Romania, Ukraine, and Portugal creating a compelling value proposition for implementation across the mining industry value chains and improving responsible and sustainable supply of CRMs: Co, Li, REE, P; PGMs Pd and Pt; as well as Cu and Ni to Europe. The project will increase the raw material investment potential for Ukraine by promoting exploitation prospects via the G-RAM platform therefore supporting implementation of the Roadmap for EU-Ukraine Strategic Partnership on raw materials. The consortium brings together interdisciplinary expertise fit to solve the challenges related to the building of large-scale ICT platforms, geologic and remote-sensing know-how, benchmarking, market analysis, business modelling and result dissemination,*

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and will include 4 academic/research centres, 5 SMEs, and 4 end-users, supported by a strong External Advisory Board of experts in geosciences and mining.

6. Gusat Dorel, Bud Ioan. (2023). *GoldenEye-Earth observation and Earth GNSS data acquisition and processing platform for safe, sustainable and cost-efficient mining operations*. Universitatea Tehnică din Cluj-Napoca. Buget: 1078622.4 RON. Contract: 869398. [2020–2023].
7. Gusat Dorel, Bud Ioan. (2022). *GoldenEye-Earth observation and Earth GNSS data acquisition and processing platform for safe, sustainable and cost-efficient mining operations*. Universitatea Tehnică din Cluj-Napoca. Buget: 1078622.4 RON. Contract: 869398. [2020–2023].

C5 Afiliere instituțională

C6 Organizare

C6.1 Conferințe științifice

1. Iepure Gheorghe (Editor). (2025). *editor sau coeditor*. .
2. Iepure Gheorghe (Editor). (2024). *editor sau coeditor*. .
3. Iepure Gheorghe (Editor). (2023). *editor sau coeditor*. .
4. Iepure Gheorghe (Editor). (2022). *editor sau coeditor*. .

C6.2 Expoziții

1. Juhasz Jozsef (Editor). (2026). *Coeditor*. Universitatea Tehnica din Cluj-Napoca. .
2. Gusat Dorel (Editor), Bud Ioan (Membru). (2026). *Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology & Environmental Engineering*. .
3. Juhasz Jozsef (Coeditor). (2025). *Coeditor*. Universitatea Tehnică din Cluj-Napoca. .
4. Smical Ana Irina (Coeditor). (2025). *SCIENTIFIC BULLETIN OF NORTH UNIVERSITY CENTRE OF BAIA MARE*. Universitatea Tehnică din Cluj-Napoca. .
5. Gusat Dorel (Editor), Bud Ioan (Membru). (2025). *Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology & Environmental Engineering*. .
6. Juhasz Jozsef (Coeditor). (2024). *Coeditor*. Universitatea Tehnică din Cluj-Napoca. .
7. Smical Ana Irina (Coeditor). (2024). *SCIENTIFIC BULLETIN OF NORTH UNIVERSITY CENTRE OF BAIA MARE*. Universitatea Tehnică din Cluj-Napoca. .
8. Bud Ioan (Membru). (2024). *Scientific Bulletin Series D, Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology and Environmental Engineering*. .
9. Gusat Dorel (Editor), Bud Ioan (Membru). (2024). *Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology & Environmental Engineering*. .
10. Juhasz Jozsef (Membru). (2023). *Coeditor*. Universitatea Tehnică din Cluj-Napoca. .
11. Juhasz Jozsef (Coeditor). (2023). *Coeditor*. UTCN. .
12. Bud Ioan (Membru). (2023). *Revista Minelor*. .
13. Bud Ioan (Membru). (2023). *Scientific Bulletin Series D, Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology and Environmental Engineering*. .
14. Gusat Dorel (Editor). (2023). *Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology & Environmental Engineering*. .
15. Juhasz Jozsef (Membru). (2022). *Coeditor*. Universitatea Tehnică din Cluj-Napoca. .

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16. Juhasz Jozsef (Coeditor). (2022). *Coeditor*. UTCN. .
17. Bud Ioan (Membru). (2022). *Revista Minelor*. .
18. Bud Ioan (Membru). (2022). *Scientific Bulletin Series D, Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology and Environmental Engineering*. .
19. Gusat Dorel (Editor). (2022). *Scientific Bulletin Series D: Mining, Mineral Processing, Non-Ferrous Metallurgy, Geology & Environmental Engineering*. .

C6.3 Workshopuri

1. Smical Ana Irina (Coeditor). (2025). *Ecological Safety and Balanced Use of Resources*. .
2. Brezoczki Valeria Mirela (Membru). (2024). *Scientific Bulletin of North University Center of Baia Mare Series D, Mining, Mineral Processing, Non-ferrous Metallurgy, Geology and Environmental Engineering*. Universitatea Tehnică din Cluj-Napoca. .

C6.5 Organizații științifice

1. Gusat Dorel (Membru), Bud Ioan (Membru). (2025). *International EnviroMining Conference 2026 26 – 27 May 2026*. Event: International EnviroMining Conference 2025 20 February 2025 - 21 February 2025 (2025-02-20 – 2025-02-21) Petrosani, Romania. .
2. Gusat Dorel (Membru), Bud Ioan (Membru). (2025). *International EnviroMining Conference 2025 20 February 2025 - 21 February 2025*. Event: International EnviroMining Conference 2025 20 February 2025 - 21 February 2025 (2025-02-20 – 2025-02-21) Petrosani, Romania. .
3. Bud Ioan (Membru). (2022). *SIMPRO 2022*. Event: SIMPRO 2022 (2022-10-27 – 2022-10-29) Petrosani, Romania. .

C6.6 Școală de vară

1. Gusat Dorel (organizator conferință internațională), Bud Ioan (organizator conferință internațională), MARKO PAAVOLA (co-organizator conferință internațională), MIRCEA GOIA (organizator conferință internațională), SEBASTIAN TWESEN (co-organizator conferință internațională). (2024). *CONFERINTA INTERNATIONALA GOLDENRAM - ALBA*. Event: CONFERINTA INTERNATIONALA GOLDENEYE - ALBAC (2024-05-20 – 2024-05-22) ABRUD, Romania. Universitatea Tehnică din Cluj-Napoca. .
2. Gusat Dorel (organizator conferință internațională), Bud Ioan (organizator conferință internațională), MARKO PAAVOLA (co-organizator conferință internațională), ANDREAS KNOBLOCH (co-organizator conferință internațională). (2022). *CONFERINTA INTERNATIONALA GOLDENEYE - ALBAC*. Event: CONFERINTA INTERNATIONALA GOLDENEYE - ALBAC (2022-10-11 – 2022-10-12) ALBAC, Romania. Universitatea Tehnică din Cluj-Napoca. .

C6.7 Cursuri de formare

1. Juhasz Jozsef (Membru). (2026). *AGIR*. Universitatea Tehnica din Cluj-Napoca. .
2. Gusat Dorel (Membru), Bud Ioan (Membru). (2026). *AGIR ROMANIA*. AGIR ROMANIA. .
3. Gusat Dorel (Membru). (2026). *RDB Germania*. RDB Germania. .
4. Gusat Dorel (Membru), Bud Ioan (Membru). (2025). *AGIR ROMANIA*. AGIR ROMANIA. .
5. Smical Ana Irina (Membru). (2025). *ASOCIATIA ROMANA PENTRU MANAGEMENTUL DESEURILOR – A.R.M.D.*. ASOCIATIA ROMANA PENTRU MANAGEMENTUL DESEURILOR – A.R.M.D.. .

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6. Smical Ana Irina (Membru). (2025). *ASOCIAȚIA GENERALĂ A INGINERILOR DIN ROMÂNIA (AGIR)*. Asociatia Generala a Inginerilor din Romania (AGIR),. .
7. Gusat Dorel (Membru). (2025). *RDB Germania*. RDB Germania. .
8. Gusat Dorel (Membru), Bud Ioan (Membru). (2024). *AGIR ROMANIA*. AGIR ROMANIA. .
9. Smical Ana Irina (Membru). (2024). *ASOCIATIA ROMANA PENTRU MANAGEMENTUL DESEURILOR – A.R.M.D.*. ASOCIATIA ROMANA PENTRU MANAGEMENTUL DESEURILOR – A.R.M.D.. .
10. Smical Ana Irina (Membru). (2024). *ASOCIAȚIA GENERALĂ A INGINERILOR DIN ROMÂNIA (AGIR)*. Asociatia Generala a Inginerilor din Romania (AGIR),. .
11. Juhasz Jozsef (Membru). (2024). *Membru AGIR*. AGIR. .
12. Gusat Dorel (Membru). (2024). *RDB Germania*. RDB Germania. .
13. Gusat Dorel (Membru), Bud Ioan (Membru). (2023). *AGIR ROMANIA*. AGIR ROMANIA. .
14. Juhasz Jozsef (Membru). (2023). *Membru AGIR*. .
15. Gusat Dorel (Membru). (2023). *RDB Germania*. RDB Germania. .
16. Juhasz Jozsef (Membru). (2022). *Membru AGIR*. AGIR. .
17. Gusat Dorel (Membru). (2022). *RDB Germania*. RDB Germania. .

C8 Premii

C9 Alte activități

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Activitatea didactică

Sinteza activității didactice

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	2022	2023	2024	2025	2026
D1 Coordonare lucrări	0	0	0	0	0
D3 Publicații didactice	0	0	0	0	0
D4 Proiecte instituționale	0	0	0	0	0
D5 Afiliere instituțională	0	0	0	0	0
D6 Organizare și afiliere la evenimente	0	0	0	0	0
D7 Vizibilitate academică	0	0	0	0	0
D8 Premii	0	0	0	0	0
D9 Alte activități	0	0	0	0	0

D1 Coordonare lucrări

D3 Publicații didactice

D4 Proiecte instituționale

D5 Afiliere instituțională

D6 Organizare și afiliere la evenimente

D7 Vizibilitate academică

D8 Premii

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Indicii Hirsch pentru anul 2026

Nr. Crt.	Nume	Web of Science	Scopus	Google Scholar
1	Șef lucrări Andreica (cas. Pop) Aurica	2	1	3
2	Șef lucrări Brezoczki Valeria Mirela	3	3	3
3	Profesor universitar Bud Ioan	2	2	5
4	Conferenţiar universitar Coman Mirela Ana	3	3	12
5	Conferenţiar universitar Denut Ioan	4	4	4
6	Conferenţiar universitar Duma Simona Silvia	2	2	5
7	Șef lucrări Gusat Dorel	2	2	3
8	Șef lucrări Iepure Gheorghe	9	10	10
9	Șef lucrări Juhasz Jozsef	4	5	6
10	Conferenţiar universitar Pasca Iosif Ioan	2	2	3
11	Conferenţiar universitar Pop Elena Angela	2	3	4
12	Șef lucrări Smical Ana Irina	5	6	7

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