DOMENIUL FUNDAMENTAL: ȘTIINȚE INGINEREȘTI
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L I S T A
lucrărilor ştiinţifice elaborate in ultimii 10 ani (2015-2025)

A. Teza de doctorat/abilitare

A1. Cercetări privind tăierea hidraulică a materialelor și rocilor.

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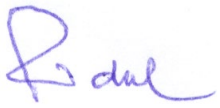

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F. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (neindexate)

- Selecție cu maximum 20 de lucrări în volume de conferințe

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E. Brevete obţinute în întreaga activitate

E1.	-

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Semnătura:

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L I S T A
lucrărilor ştiinţifice

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F. Brevete obținute în întreaga activitate

E1.	Brevet Nr 81735 „Aparat pentru determinarea caracteristicilor elastice ale rocilor prin tensometrie electrica

Data: 12.12.2025

Semnătura:

Nume Prenume: Dima Nicolae
Gradul didactic: Prof.univ.dr. ing.
Instituția unde este titular: Universitatea din Petroșani
Facultatea: Mine
Departamentul: Inginerie minieră, Topografie și Construcții

LISTA
lucrărilor ştiinţifice

A. Teza de doctorat/abilitare

A1. ***Dima N.*** Contribuţii la studiul asupra reţelelor topografice subterane şi a problemelor de străpungere. Institutul de Mine, Petroșani

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E1. Prof.univ.dr.ing. Nicolae **DIMA,** a fost prezentată invenția: *Instalație pentru verificarea verticalității puțurilor de mină* cu următoarele medalii: Medalia de aur acordată de organizatorii salonului, Premiul special și medalie, acordate de Ecoole Marocaine de Sciences de L'ingeniuer, din Casablanca, Maroc, Premiul special și medalie, acordate de Association of Portuguese Inventors, Innovators & Creatives, Portugalia, Premiul special și medalie, acordate de Universitatea Tehnică din Timișoara, Salonul de Inventică EUROINVENT, Iași, 2019.

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LISTA
lucrărilor ştiinţifice

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A2.L.O.Filip – Studii și analize privind conducerea topografică a lucrărilor subterane în condiții tehnice de siguranță, Universitatea din Petroşani, 2025.

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L I S T A
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G. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (neindexate)

- Selecție cu maximum 20 de lucrări în volume de conferințe

D1.
D2.
D3.
D4.
D5.
D6.

G. Brevete obţinute în întreaga activitate

E1.	

Data:
01.10.2025

Semnătura:

Nume Prenume: **HERBEI MIHAI VALENTIN**
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Departamentul: **Dezvoltare durabilă și Ingineria mediului**

L I S T A
lucrărilor ştiinţifice

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H. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (neindexate)

- Selecție cu maximum 20 de lucrări în volume de conferințe

H. Brevete obţinute în întreaga activitate

E1.	-

Data:
01.10.2025

Semnătura:

Nume Prenume: **LAZAR MARIA**
Gradul didactic: **Prof.univ.dr.habil. ing.**
Instituția unde este titular: **Universitatea din Petroșani**
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Departamentul: **INGINERIA MEDIULUI ȘI GEOLOGIE**

L I S T A
lucrărilor ştiinţifice

A. Teza de doctorat/abilitare

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A2. *Cercetări privind stabilitatea şi reconstrucţia ecologică a terenurilor afectate de minerit.* Petroşani, 2016.

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I. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (neindexate)

- Selecție cu maximum 20 de lucrări în volume de conferințe

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I. Brevete obţinute în întreaga activitate

E1.	-

Data:
01.10.2025

Semnătura:

Nume Prenume: **Csaba-Romuald LORINȚ**
Gradul didactic: **Conf.univ.dr.habil. ing.ec.**
Instituția unde este titular: **Universitatea din Petroșani**
Facultatea: **de Mine**
Departamentul: **de Ingineria Mediului și Geologie**

L I S T A
lucrărilor ştiinţifice

A. Teza de doctorat/abilitare

A1. *Studiul depozitelor bauxitice din sud-vestul Munţilor Sebeş în contextul includerii lor în Parcul Natural Grădiştea Muncelului Cioclovina,* Teză de doctorat, Universitatea din Petroşani, 2008, Domeniul fundamental Științe inginerești, Domeniul de doctorat Mine, Petrol și Gaze, Diploma de Doctor, Nr. 441/25.02.2009. Seria F, Nr. 0011913; **A2.** *Geologia, între minerit şi valorificarea durabilă a georesurselor*, Teză de abilitare, Universitatea din Petroșani, 2025, Atestat abilitare Nr. 3624/26.03.2025.

B. Cărţi si capitole în cărţi publicate în ultimii 10 ani

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B5. Csaba R. Lorinț, Sorin Mihai RADU, - Ecologia și protecția mediului în turism, Ed. Universitas 2016, ISBN 978-973-741-474-8, A5/278pag.;
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J. Brevete obţinute în întreaga activitate

E1.	-

Data:
01.10.2025

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L I S T A
lucrărilor ştiinţifice

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K. Lucrări publicate în reviste şi volume de conferinţe cu referenţi (neindexate)
- Selecție cu maximum 20 de lucrări în volume de conferințe

D1. **Marian, D.P.** - *Geological and mining reasons which led to the accident of Petrila mine on 15/11/2008*, International symposium occupational health and safety SESAM 2009.
D2. Băloi (Semen) N., Fissgus K.G., **Marian D.P.** – *Introduction to Mobile Laser Scanning*, International Multidisciplinary Symposium „UNIVERSITARIA SIMPRO", Petroşani, 2012, ISSN 1842-4449.
D3. **Marian D.P.**, Ştefan N., Fissgus K., Vereş I., Munteanu R., Lazăr M. – *Surface Subsidence Prediction in the Jiu Valley Coal Basin*, Freiberger Forschungsforum; 64. Berg- und Hüttenmännischer Tag, Scientific Reports on Resource Issues, ISSN 2190-555X, Freiberg, 2013, pag. 142-150.
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K. Brevete obţinute în întreaga activitate

E1.	

Data: 10.12.2025 **Semnătura:**

Nume Prenume: **Onica Ilie**
Gradul didactic: **Prof.univ.dr.habil. ing.**
Instituția unde este titular: **Universitatea din Petroșani**
Facultatea: **de Mine**
Departamentul: **Inginerie minieră, Topografie și Construcții**

L I S T A
lucrărilor ştiinţifice

A. Teza de doctorat/abilitare

A1.Teza de doctorat: *Contribuţii la perfecţionarea tehnologiilor de exploatare cu fronturi lungi de abataj a stratelor groase de cărbune din Valea Jiului, prin utilizarea unor susţineri mecanizate adecvate condiţiilor geominiere,* Universitatea din Petroșani, 1995
A2.Teza de abilitare: *Contribuţii la modelarea şi analiza stabilităţii terenurilor aflate sub influenţa excavaţiilor miniere subterane şi perfecţionarea sistemelor de exploatare a zăcămintelor de substanţe minerale utile,* Universitatea din Petroșani, 2016

B. Cărţi si capitole în cărţi publicate în ultimii 10 ani

Cărți:

B1. Onica,I. *Hidrodinamica mediilor poroase. Fundamente teoretice,* Ed.Universitas, Petroşani, 2016, ISBN 978-973-741-503-5, 206 pag.
B2. Onica,I. *Introducere în modelarea cu elemente finite. Stabilitatea excavaţiilor miniere, Ed.Universitas,* Petroşani, 2016, ISBN 978-973-741-509-7, 293 pag.
B3. **Onica,I.** *Exploatări miniere, Ed.Universitas,* Petroşani, 2016, ISBN 978-973-741-471-7, 395 pag.
B4. Onica,I., Goldan,T., Mihăilescu,V. *Exploatări miniere subterane - ghid pentru proiectul de diplomă,* Ed.Universitas, Petroşani, 2016, ISBN 978-973-741-472-4, 75 pag.
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Capitole în cărți:

B6.

K. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

Lucrări în reviste indexate Clarivate Analitics ISI WoS și în volume indexate Clarivate Analitics ISI WoS - ISI Proceedings
Lucrări în reviste indexate Clarivate Analitics ISI WoS
C1.Marian, D.P., Onica, I. *Analysis of the Geomechanical Phenomena That Led to the Appearance of Sinkholes at the Lupeni Mine, Romania, in the Conditions of Thick Coal Seams Mining with Longwall Top Coal Caving*, Sustainability 2021, Vol. 13, Issue 11, 6449, doi.org/10.3390 /su13116449, ISSN 2071-1050 (*Factor de impact 2,576*)
C2. Marian D.P., **Onica I.,** Marian R.R., Floarea D.A. - *Finite Element Analysis of the State of Stresses on the Structures of Buildings Influenced by Underground Mining of Hard Coal Seams in the Jiu Valley Basin (Romania)*, Sustainability, Volume 12, Issue 4, 2020.

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C3. Onica,I., Viorel Mihăilescu,V., Andrioni,F. *Economical optimization of the mechanized longwall faces with top coal caving mining, in horizontal slices*, Archives of Mining Sciences, Vol. 61 (2016), No 3, p. 651–676, DOI 10.1515/amsc-2016-0046. IF: 0.448 http://archiwum.img-pan.krakow.pl/index.php/AMS/article/download/842/710 http://mining.archives.pl , Archives of Mining Sciences
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C8. Marian, D.P., **Onica, I.**, *Excavation of the Refuge Incline, Between Horizons +226m and +190m, the Western Wing, from Ocnele Mari Rock Salt Mine*, Annals of the University of Petrosani, Mining Engineering, 25 (2024), pp.15-26.
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C15. Postolachi, B., Marina, O., Marian, D., **Onica, I.** (2023), *The influence of the exploitation of the XIV horizon on the stability of the Cantacuzino Mine - Slănic Prahova Saline*, Proceedings of SESAM.

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C18. Marian D.P., **Onica I.,** Marina O., *Analysis of the influence of the vertical coaxiality of the pillars on the stability of the resistance structures, from the Ocnele Mari Saline*, Revista Minelor, Vol. 28, Nr. 4, 2022.
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C20. Marian, D.P., **Onica, I**., *Numerical modeling of the stability of the resistance structures from Ocnele Mari salt mine using the finite element method*, Annals of the University of Petrosani – Mining Engineering, Vol. 22/2021, pag.113-126.
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C36. Floarea, D.A., **Onica, I.,** Marian, D.P., *Monitoring Surface Land Deformation and Analysis of Data for Lupeni Mine,* Mining Engineering, 18 (2017), pag.50, . ISSN: 1454-9174, (revistă categoria **B+**, cod CNCSIS 22; MKPERIODICA - Rusia, ULRICH'S - Germania şi EBSCO Publishing Inc. – SUA; SUWECO – Cehia). http://www.ulrichsweb.com/ulrichsweb/ulrichsweb_news/ulrichslb3u.asp
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L. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (neindexate)

- Selecție cu maximum 20 de lucrări în volume de conferințe

D1. Popescu Laurențiu, **Ilie Onica**, Dacian Paul Marian, *Structural Assessment of the Trotuș Mine in Târgu Ocna Using Ground Penetrating Radar: Geological Correlations and Risk Zones*, The 9th Balkanmine Congress, 09-10, 2025, Petroșani, Romania, in Proceedings of the Balkanmine Congress.

L. Brevete obţinute în întreaga activitate

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L I S T A
lucrărilor ştiinţifice

A. Teza de doctorat/abilitare

A1. *Cercetări referitoare la caracterizarea comportamentului reologic al rocilor din bazinul Valea Jiului şi implicaţiile acestuia în asigurarea stabilităţii lucrărilor miniere orizontale principale*, Universitatea din Petroşani, 1999, domeniul Mine, Petrol şi Gaze A2. *Cercetări şi rezultate în stabilitatea lucrărilor miniere subterane,* Teză de abilitare, Universitatea din Petroşani, 2016, domeniul Mine, Petrol şi Gaze

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- Selecție cu maximum 20 de lucrări în volume de conferințe

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M. Brevete obţinute în întreaga activitate

E1.	

Data:
01.10.2025

Semnătura:

Nume Prenume: VEREȘ IOEL SAMUEL
Gradul didactic: **Prof.univ.dr.habil. ing.**
Instituția unde este titular: **Universitatea Tehnică din Cluj-Napoca**
Facultatea: **Construcții**
Departamentul: Măsurători terestre și cadastru

L I S T A
lucrărilor ştiinţifice

A. Teza de doctorat/abilitare

A1. Ramura de Ştiinţă Tehnică, specializarea Topografie minieră, anul 1999, titlul tezei: *Orientarea lucrărilor topografice subterane în condițiile impuse de factorii de proiectare a lucrărilor miniere și de importanța lor în procesul tehnologic.*
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C2. Sestraș, P.; Vereș, I.; s.a - Multi-instrumental approach to slope failure monitoring in a landslide susceptible newly built-up area: topo-geodetic survey, UAV 3D modelling and ground penetrating radar, *Remote Sensing.* 2022, *14*(22), 5822; https://doi.org/10.3390/rs14225822
C3. Gâlgău R., Vereș I., s.a. The use of UAV to obtain necessary information for flooding studies –The case study of Somes river, Floresti, Romania, Applied Science 2023 13(21),11688 https://doi.org/10.3390/app132111688

C4. Naș S., Bondrea M.V., Radulescu V.M., Gâlgău R., Veres I., Bondrea R., Radulescu A.T., The Use of UAVs for Land Use Planning of Brownfield Regeneration Projects-Case Study: Former Brick Factory, Cluj Napoca, Romania 2023 WOS:000940351100001 https://www.mdpi.com/2073-445X/12/2/315
C5. Solcan P., Veres I., Sălăgean T., *Researches Regarding the Use of GIS for Monitoring the Degraded Land in Floresti, Cluj County,* Modern Technologies For The 3rd Millennium, pg.73-81, 2019 https://www.webofscience.com/wos/alldb/full-record/WOS:000617030100013
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C6. Veres I., Marian D., Fissgus K.; Stefan N., Finite Element Analysis of Surface Subsidence for Establishing the Location of a Gas Pipeline, 16th National Technical-Scientific Conference on Modern Technologies for the 3rd Millennium, Oradea, Romania., Pages: 297-302, ISBN:978-88-87729-41-2 WOS:000413420300051 http://apps.webofknowledge.com.am.e-nformation.ro/full_record.do?product=WOS&search_mode=MarkedList&qid=15&SID=E2AC2EPG5K4O2oowiVk&page=1&doc=1&colName=WOS
C7. Vereș, I.; Radu S., Ghimisi Ș., Pleșea V., The study of the mechanism of the interaction in the rock-support system considering the deformation behaviour of rocks, SGEM2017 Conference Proceedings, ISBN 978-619-7105-00-1 / ISSN 1314-2704, 29 June - 5 July, 2017, Vol. 17, Issue 13, 941-948 pp, DOI: 10.5593/sgem2017/13/S03.1197 https://sgemworld.at/sgemlib/spip.php?article9270
C8. Vereș, I.; Radu S., Ghimisi Ș., Pleșea V., Numerical calculation assessment of the parameters of anchored supports used for the consolidation or rocks surrounding underground excavations, SGEM2017 Conference Proceedings, ISBN 978-619-7105-00-1 / ISSN 1314-2704, 29 June - 5 July, 2017, Vol. 17, Issue 13, 327-334 pp, DOI: 10.5593/sgem2017/13/S03.042 https://sgemworld.at/sgemlib/spip.php?article9193
C9. Vereș I., Filip L, Topographical method used in settlement of disputes regarding degradation of some properties, SGEM2017 Conference Proceedings, Vol. 17, Issue 22, 735-740 pp, ISBN 978-619-7408-02-7 / ISSN 1314-2704. DOI: 10.5593/sgem2017/22/S09.023, https://sgemworld.at/sgemlib/spip.php?article10856
C10. Vereș I., Filip L., Dragomir L., *Contributions on the method for including the geodetic points in the triangulation networks*. SGEM2017 Conference Proceedings, Vol. 17, Issue 22, 187-192 pp, ISBN 978-619-7408-02-7 / ISSN 1314-2704 DOI: 10.5593/sgem2017/22/S09.023, https://sgemworld.at/sgemlib/spip.php?article10456

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Radu S., **Veres I.**, PleseaV. *Procedures and equipment for drilling holes for the installation of anchors for the support of underground mines excavations* Annals of the „Constantin Brancusi" University of Targu Jiu, Engineering Series , No. 3/2016 ISSN 1842-4856 http://www.utgjiu.ro/revista/?page=curent&nr=2016-3
Radu S., **Veres I**., PleseaV. *New types of laminated profiles for the construction of sliding metallic support reinforcements* Annals of the „Constantin Brancusi" University of Targu Jiu, Engineering Series , No. 2/2016 ISSN 1842-4856 http://www.utgjiu.ro/revista/?page=curent&nr=2016-2
Vereș I., *Determination of geodesic points in cases of indetermination*, Annals of the University of Petrosani ISSN 1454-9174, vol. 17, pag. , Editura Universitas, 2016
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Vereș I., Radu S., Plesea V., *Procedure for the evaluation of the safety parameters with the help of the automatic control of underground atmosphere,* Mining revue nr. 3/2018,

Arad V., Arad S., **Vereș I.**, Samoila L., Onica I., *Geotechnical studies on the underground infrastructure in Slanic Salt Mine,* International Multidisciplinary Scientific GeoConference SGEM2019 Proceedings, Sofia, Vol. 19, ISSN 1314-2704
Arad V., **Vereș I.**, Fissgus K., Ștefan N., Diaconescu D., *The importance of the topographic staking on the stability of underground works. Case study in "Slanic Prahova" salt mine*, International Multidisciplinary Scientific GeoConference SGEM2019 Proceedings, Sofia, Vol. 19, ISSN 1314-2704
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Vereș I., Fazacas G., Galgau R., Naș S., Porutiu A. *Considerations regarding monitoring evolution of subsidence and dissolution at the salt lake "Groapa Burlacu", Târgu Ocna, Bacău County, Romania*, ProEnvironment, 2020 ISSN 2066-1363
Vereș I., Fazacas G., Galgau R., Naș S., Bondrea M., Sestras P., Porutiu A., Sofonea O. *Considerations regarding the altimetric evaluation of the geodesic support network in Constanța seaport area*, ProEnvironment, 2020 ISSN 2066-1363
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Bondrea M, **Veres I.,** Nas S., Isac D., Bondrea R.B., *Topo geodesic measurements regarding monitoring over time of movements occurring on the consolidation system for a housing building located on Fabricii Street, Cluj-Napoca* Scopus Number 85177883278 DOI 10.5593/sgem2023/2.1/s09.33
Balázs C., **Vereș I**, Fissgus K., Ștefan N., *Improving the accuracy of drone measurements on hydrotechnical works* Mining Revue ISSN-L 1220-2053 / ISSN 2247-8590 vol. 30, issue 2 / 2024, pp. 80-88 https://sciendo.com/article/10.2478/minrv-2024-0017
Balázs C., Glonț C., **Vereș I,** Fissgus K., *Monitoring and Tracking the Long-Term Stability of the Subsidence Cone at Salina Ocna Dej*, Mining Revue ISSN-L 1220-2053 / ISSN 2247-8590 vol. 30, issue 3 / 2024,
Vereș I., Marian D., Fissgus K., Ștefan N., *Analysis of Surface Subsidence for Establishing the Location of a Gas Pipeline*, GeoPrevi International Simposium 2017 Bucuresti, http://www.geoprevi.ro/conferencep.php

N. Lucrări publicate în ultimii 10 anii în reviste şi volume de conferinţe cu referenţi (neindexate)

- Selecție cu maximum 20 de lucrări în volume de conferințe

D1. Veres I., *The Role of Land Measurements and Cadastre in Sustainability-Driven Territorial Development,* 9th CERS - Central European Conference in Regional Science "Sustainability-driven territorial development. Challenges for CEECs Cluj-Napoca 2025
D2. Arad V., Arad S., Iliaş N., Ticu M., Popa L., **Vereș I.**, *Risk factors for the undermined coal bench mining*, Simpozionul Român Al Energiei – SIREN 2021
D3. M.Ticu, V.Arad, N.Iliaş, S.Arad, L.Popa, G.Teşeleanu, **I.Veres**, *Securizarea şi monitorizarea fabricarii si utilizarii explozivilor de uz civil prin SAP*, Zilele Academiei de Ştiinţe Tehnice din România, 2021 (ZASTR 2021)
D4. Arad V, Arad S, **Vereș I**. - *Fenomene dinamice produse la exploatarea sării în românia* Zilele Academiei de Ştiinţe Tehnice din România, 2023 (ZASTR 2023)

N. Brevete obţinute în întreaga activitate

E1.	

Data: 01.10.2025

Semnătura:

UNIVERSITATEA DIN PETROŞANI
Facultatea de **INGINERIE MECANICĂ ŞI ELECTRICĂ**
Departamentul de **INGINERIE MECANICĂ, INDUSTRIALĂ ŞI TRANSPORTURI**
Conf.univ.dr.ing. COZMA Bogdan-Zeno

L I S T A
lucrărilor ştiinţifice în domeniul disciplinelor din postul didactic

A. Teza de doctorat

A1. *Îmbunătăţirea performanţelor sculelor miniere de perforat prin construcţie şi tehnologie.* Petroşani, 2009. Domeniul Mine, Petrol şi Gaze. Ordinul Ministrului Educaţiei, Cercetării, Tineretului şi Sportului Nr. 3492 din 23.03.2010.
A2. Teză abilitare, *Cercetări privind îmbunătăţirea performanţelor utilajelor miniere prin construcţie şi tehnologie cu ajutorul soft-urilor CAD/CAE*, Petroşani, 2025. Domeniul Mine, Petrol și Gaze. Ordinul Ministrului Educației și Cercetării, Nr. 6772 din 25.11.2025.

B. Cărţi si capitole în cărţi publicate

Cărți:

B1. Cozma Bogdan-Zeno, *Bazele proiectării tehnologice asistate de calculator* – Editura Universitas, Petroşani, 2016, 162 pagini, ISBN 978-973-741-461-8.
B2. Dumitrescu I., **Cozma B.**, *Tehnologia construcţiilor de maşini, Note de curs,* - Universitas, Petroşani, 2017, 328 pag, ISBN 978-973-741-555-4.
B3. Cozma Bogdan-Zeno, *Managementul ciclului de viaţă al produselor* – Editura Universitas, Petroşani, 2018, 230 pagini, ISBN 978-973-741-602-5.
B4. Cozma Bogdan-Zeno, Dumitrescu Iosif, Popescu Florin Dumitru, *Concepţia şi proiectarea asistată de calculator a utilajului minier* – Universitas, Petroşani, 2020, ISBN 978-973-741-657-5, pag. 330.
B5. **Cozma Bogdan-Zeno**, *Energii regenerabile : note de curs şi lucrări practice*, Petroşani, Universitas, 2022, ISBN 978-973-741-850-0, 147 pagini.
B6. Şoica-Stanimirescu Alexandra**, Cozma Bogdan-Zeno**, *Procesele de fabricaţie asistate de calculator*, Petroşani, Universitas, 2023, ISBN 978-973-741-918-7, 258 pagini.
B7. Bogdan-Zeno Cozma, *Metoda elementului finit*, Editura Universitas, Petroşani, 2024, ISBN 978-630-341-007-4, 296 pagini.
B8. Cozma Bogdan-Zeno, *Proiectarea parametrica 3D*, Editura Universitas, Petroşani, 2025, ISBN 978-973-741-933-0, 237 pagini.

Capitole în cărţi:

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C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

Lucrări indexate ISI

C1. Dumitrescu I., **Cozma B.,** Urdea Gh. B. - *Study of Coal Transportation Flow from the face to the Ground in Lonea Mine*, 15 th GeoConference on Science and Technologies in Geology, Exploration and Mining SGEM 2015, Conference Proceedings, vol. III, pp. 603 – 610, ISBN 978-619-7105-09-4, ISSN 1314-2704.
C2. Dumitrescu I., **Cozma B.,** Ridzi M.C., Itu V. - *Study of Restoring Resistence Structure of Motor Wheel of the MK 2,1x4 Winding Machine With Skip in Lonea Mine*, 15 th GeoConference on Science and Technologies in Geology, Exploration and Mining SGEM 2015, Conference Proceedings, vol. III, pp. 611 – 618, ISBN 978-619-7105-09-4, ISSN 1314-2704.
C3. Dumitrescu I., **Cozma B.Z.**, Itu R.B. *Safety mechanisms for mining extraction vessels*, 16 th GeoConference on Science and Technologies in Geology, Exploration and Mining SGEM

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C4. Dumitrescu I., **Cozma B.Z.**, Itu V. *Study the mining winches using the CAD/CAE software*, 16 th GeoConference on Science and Technologies in Geology, Exploration and Mining SGEM 2016, Conference Proceedings, Albena, Bulgaria, 30.06-6.07.2016, Book 1, vol. II, pp. 833 – 840, ISBN 978-619-7105-56-8, ISSN 1314-2704. DOI: 10.5593/SGEM2016/B12/S03.107 https://www.sgemworld.at/sgemlib/

C5. Dumitrescu I., **Cozma B.Z.**, Itu R.B. *Constructive improvements of cable tensioning mechanism for DEC devices*, 17th International Multidisciplinary Scientific GeoConference SGEM 2017, Science and Technologies in Geology, Exploration and Mining, Conference Proceedings, Albena, Bulgaria, 29.06-5.07.2017, Issue 13, vol. 17, pp. 141 – 148, ISBN 978-619-7105-00-1, ISSN 1314-2704. DOI: 10.5593/SGEM2017/13 https://www.sgemworld.at/sgemlib/

C6. Dumitrescu I., **Cozma B.Z.**, Urdea G.B. *Modernization of EsRc-1400 excavator buckets with the help of CAD/CAE software*, 17th International Multidisciplinary Scientific GeoConference SGEM 2017, Science and Technologies in Geology, Exploration and Mining, Conference Proceedings, Albena, Bulgaria, 29.06-5.07.2017, Issue 13, vol. 17, pp. 555 – 562, ISBN 978-619-7105-00-1, ISSN 1314-2704. DOI: 10.5593/SGEM2017/13 https://www.sgemworld.at/sgemlib/

C7. Cozma B.Z., Itu R.B., Urdea G.B., Dumitrescu I. *Study of cutting parts of mining machines with the help of CAD/CAE softwares*, 18th International Multidisciplinary Scientific GeoConference SGEM 2018, Science and Technologies in Geology, Exploration and Mining, Conference Proceedings, Albena, Bulgaria, 02.07-8.07.2018, Issue 1.3, vol. 18, pp. 871 – 878, ISBN 978-619-7408-37-9, ISSN 1314-2704. DOI: 10.5593/SGEM2018/1.3 https://www.sgemworld.at/sgemlib/

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C8. Cozma B.Z., Dumitrescu I. *Equipment designing for the Carol Shaft rehabilitation from Slănic Prahova Salina,* 7th International Multidisciplinary Scientific Symposium Universitaria SIMPRO 2016, 14-15 octombrie 2016, PETROŞANI, pag. 407-412, ISSN–L 1842 – 4449, ISSN 2344 – 4754. http://upet.ro/simpro/2016/

C9. Cozma B.Z., Urdea G.B., Dumitrescu I. *Stand For The Rotative Boring Of Rock Salt,* Annals of the University of Petroşani, Mechanical Engineering, 19 (2017), 3, Petroşani, 2017, pag. – , ISSN 1454-9166. http://www.upet.ro/annals/mechanical/

C10. Cozma B.Z., Urdea G.B., Dumitrescu I. *The Constructive Analysis Of The Borer Heads For The Rotative Boring Of Soft Rocks,* Annals of the University of Petroşani, Mechanical Engineering, 19 (2017), 3, Petroşani, 2017, pag. – , ISSN 1454-9166. http://www.upet.ro/annals/mechanical/

C11. Itu R.B., **Cozma B.Z.**, Urdea G.B. *Dynamics of the reactions from the bearings of the pulley shafts*, Annals of the University of Petroşani, Mining Engineering, vol 18 (XXXVIII), Petroşani, 2017, pag. – , ISSN 1454-9174. http://www.upet.ro/annals/mining/

C12. Cozma B.Z. *Study of an automatic installation for taking coal samples in charging station with CAD software,* Annals of the University of Petroşani, Mechanical Engineering, 24 (2022), 3, Petroşani, 2022, pag. 73 – 80, ISSN 1454-9166.

C13. Cozma B.Z. *Study the adaptation and fixation chain ends on advance mechanism of 2K-52MU combine to the stations of the TR-5 scraper conveyor,* Annals of the University of Petroşani, Mechanical Engineering, 25 (2023), 3, Petroşani, 2023

C14. Itu R.B., **Cozma B.Z.,** Petrilean D.C. *Aspects regarding the method of inverse motion and collinearity in mechanics,* Annals of the University of Petroşani, Mechanical Engineering, 25 (2023), 3, Petroşani, 2023

C15. Apostu S.E., Şoica A., **Cozma B.Z.** *Ecological rehabilitation of lands affected by coal exploitation. Case study,* Annals of the University of Petroşani, Mining Engineering, 24 (2023), Petroşani, 2023

C16. Cozma Bogdan-Zeno, Study the adaptation of a 45 kW mining winch for lifting the mining equipment at E.M. Lupeni, Annals of the University of Petroşani, Mechanical Engineering, 26 (2024), 3, Petroşani, 2024, pag. 111–120 , ISSN 1454-9166. http://www.upet.ro/annals/mechanical/

C17. FLOREA Vlad-Alexandru, **Cozma Bogdan-Zeno**, The contributions of selection for the structural model for the reliability of technological mining equipment, Annals of the University of Petroşani, Mechanical Engineering, 26 (2024), 3, Petroşani, 2024, pag. 131–142 , ISSN 1454-9166. http://www.upet.ro/annals/mechanical/

C18. Cozma Bogdan-Zeno, FLOREA Vlad-Alexandru, Study of constructive improvement at the cable winding drum of the lifting mechanism on the ESRC-1400 rotor excavator, Annals of the University of Petroşani, Mining Engineering, 25 (2024), Petroşani, 2024, pag. 54–63 , ISSN 1454-9174. http://www.upet.ro/annals/mining/

C19. Cozma, Bogdan-Zeno, Design of Wide Cable Binding Devices for Balancing Extraction Vessels, Annals of the University of Petroşani, Mechanical Engineering, 27 (2025), Petroşani, 2025, pag. 41 – 48, ISSN 1454-9166. http://www.upet.ro/annals/mechanical/

D.

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- **Selecție cu maximum 20 de lucrări în volume de conferințe**

D1. Dumitrescu I., **Cozma B.Z.** *The sizing of flat-belt conveyers for the salt crushing mill from the Salt Mine Ocna Dej,* Fiabilitate şi durabilitate, Universitatea Constantin Brâncuşi din Târgu Jiu, 1(21)/2018, Mai 2018, Târgu Jiu, pag. 181-187, ISSN 1844-640X.

E. Granturi, proiecte europene, contracte de cercetare încheiate cu mediul de afaceri, alte proiecte de cercetare

E1. Contract nr.6/05.09.2017, Societatea Salina Turda S.A. – *Studiu privind verificarea stabilităţii camerei de mină Iosif – Sala Ecourilor şi a ariei de influenţă a camerei asupra terenului situat în cupola acesteia, la suprafaţă.* Membru contract: Şef.lucr.dr.ing. Cozma Bogdan Zeno. 15.000 RON

E2. Contract PN-III-63CI/2017 (1144), Unitatea Executivă pentru Finanţarea Învăţământului Superior, a Cercetării, Dezvoltării şi Inovării - *Construcţie performantă de susţinere a excavaţiilor miniere subterane amplasate în condiţii geo-mecanice dificile.* Membru contract: Şef.lucr.dr.ing. Cozma Bogdan Zeno. 50.000 RON

E3. Contract nr. 151/25.09.2017, SNS S.A. Sucursala Salina Ocna Dej – *Studiu de fezabilitate şi Proiect tehnic de execuţie – Flux măcinare sare subteran*. **Responsabil temă:** Şef.lucr.dr.ing. Cozma Bogdan Zeno. 242.000 RON

E4. Contract nr. 198/21.11.2017, SNS S.A. Sucursala Salina Ocna Dej – *Proiectare sistem nou de aeraj*. **Responsabil temă:** Şef.lucr.dr.ing. Cozma Bogdan Zeno. 145.000 RON

E5. 101/SGU/CI/ II/17.12.**2018-2022**, *Centrul Remedial Educaţional al Studenţilor Capacitaţi ai Universităţii din Petroşani*, responsabil: Conf.univ. Andrioni Felicia, 841.834,206 RON, **Expert coordonator Facultate I.M.E.**

E6. Contract nr. 1696/05.12.2018, Societatea Complexul Energetic Hunedoara S.A. – *Studiu privind stabilirea cauzelor apariţiei fenomenului de subsidenţă discontinuă în perimetrul minier Lupeni.* **Membru contract:** Şef.lucr.dr.ing. Cozma Bogdan Zeno. 49.000 RON

E7. Contract nr. 106/10.10.2019, SNS S.A. Sucursala minieră Ocnele Mari – Râmnicu Vâlcea S.A. – *Întocmirea proiectului anual de aeraj general al Salinei Ocnele Mari pe anul 2020*. **Membru contract:** Şef.lucr.dr.ing. Cozma Bogdan Zeno. 20.000 RON.

E8. POCU 320/6/ 21-122596, (2019-2021), *Educaţia, o şansă pentru Valea Jiului!*, director: Prof.univ.habil.dr.ing.ec. Edelhauser Eduard, 2.256.156,66, **Expert elaborare material didactic**.
E9. Contract nr. 70/18.11.2019 finalizat şi predat 2020, *Exploatarea sării cu combina la Salina Praid*, U.P./S.N.S.-S.A. Sucursala Salina Praid, responsabil: Şef lucr.dr.ing.ec. Mangu Sorin, 48.800, **Membru contract:** Conf.dr.ing. Cozma Bogdan Zeno.
E10. Contract nr. 186/15.10.2019 finalizat şi predat 2020, *Studiu privind stabilitatea construcţiilor şi terenului din perimetrul de influenţă al minelor vechi (Ocna din Deal şi Ocna din Vale), Victoria, Unirea şi Cantacuzino funcţie de datele de cunoaştere existente precum şi a deformaţiilor elementelor de rezistenţă ale excavaţiilor subterane din mina Cantacuzino, în vederea desfăşurării în condiţii de siguranţă a exploatării şi a protejării obiectivelor civile şi industriale.*, U.P./S.N.S.-S.A. Sucursala Salina Slănic Prahova, responsabil: Şef lucr.dr.ing. Marian Dacian-Paul, 149.000, **Membru contract:** Conf.dr.ing. Cozma Bogdan Zeno.
E11. Contract 4114/24.06.2021 - IDS 5265/P/2017, Expertiză privind evenimentul din 30.10.2017 de la E.M. Uricani, din dosarul IDS 5265/P/2017, încheiat între Universitatea din Petroşani şi Parchetul de pe lângă Judecătoria Petroşani, Parchetul de pe lângă Judecătoria Petroşani, director: Prof.dr.ing. Cozma Eugen, 16.000 RON, **Membru contract:** Conf.dr.ing. Cozma Bogdan Zeno.
E12. Contract nr. 112/26.01.2022, *Studiu privind exploatarea eficienta a zăcământului polimetalic din corpul Antonio, sub orizontul XVIII, Mina Băiţa Plai, la o capacitate de producţie de 100 000 tone/an*, VAST BAIŢA PLAI, directori: ONICA Ilie, COZMA Eugen, 50.000 RON, **Membru contract:** Conf.dr.ing. Cozma Bogdan Zeno.
E13. Contract Nr.3803/15.03.2023, *Studiu de stabilitate a Minei Moldova Nouă şi a căilor de acces, în vederea introducerii în circuitul turistic,* Societatea Națională a Sării, Sucursala Salina Târgu Ocna, 49.500 RON, Responsabil derulare contract: Cozma Bogdan-Zeno.

F. Cereri de brevete de invenţie şi alte titluri de proprietate intelectuală

Nr. crt.	**Autor(i)**	**Denumire cerere de brevet**	**Cerere de brevet depusă la**
E1			

Data:
06.11.2025

Semnătura: