

LISTA DE LUCRĂRI

Candidat: **FLOREA Vlad Alexandru**, doctor din 2003

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

1 **Florea, V.A.**; Toderaș, M.; Tihanov-Tănăsache, D. Influence of Abrasive Wear on Reliability and Maintainability of Components in Quarry Technological Equipment: A Case Study. *Appl. Sci.* **2025**, *15*, 3603. <https://doi.org/10.3390/app15073603>;

2 **Florea, V.A.**; Toderaș, M.; Danciu, C. The Influence of Roughness of Surfaces on Wear Mechanisms in Metal-Rock Interactions. *Coatings* **2025**, *15*, 150. <https://doi.org/10.3390/coatings15020150>;

3 **Florea, V.A.**; Toderaș, M. Efficiency of Maintenance Activities in Aggregate Quarries: A Case Study of Wear Parts on Loaders and Excavators. *Appl. Sci.* **2024**, *14*, 7649. <https://doi.org/10.3390/app14177649>;

4 Toderaș, M.; **Florea, V.A.**; Itu, R.B. Stability Analysis of the Tailings Dam for the Purpose of Closing, Greening, and Ensuring Its Safety—Study Case. *Sustainability* **2023**, *15*, 7606. <https://doi.org/10.3390/su15097606>;

5 **Florea, V.A.**; Toderaș, M.; Itu, R.-B. Assessment Possibilities of the Quality of Mining Equipment and of the Parts Subjected to Intense Wear. *Appl. Sci.* **2023**, *13*, 3740. <https://doi.org/10.3390/app13063740>;

6 **Florea, V.A.**; Ionică, A.C.; Florea, A.; Itu, R.-B.; Popescu-Stelea, M. Study of the Possibilities of Improving Maintenance of Technological Equipment Subject to Wear. *Processes* **2022**, *10*, 2550. <https://doi.org/10.3390/pr10122550>;

7 **Florea, V.A.**; Itu, R.-B. Potential Methods for Limiting the Consumption of Machine Components Exposed to Abrasive Wear. *Sustainability* **2022**, *14*, 12819. <https://doi.org/10.3390/su141912819>;

8. **Vlad Alexandru Florea**, Dragoș Păsculescu, Vlad Mihai Păsculescu - *Reliability and maintainability of scraper conveyor used in coal mining in the Jiu Valley – Mining of Mineral Deposits* 2021, 15(3), ISSN: 2415-3435, DOI: 10.33271/mining15.03.016, pag. 16-21; http://mining.in.ua/2021vol15_3_3.html;

9. **Florea Vlad Alexandru**-Reliability analysis equipment for cutting and transportation in case of a mining flux technology, 16th International Multidisciplinary Scientific Geoconference SGEM 2016, 28 June÷07 July, Albena Co., Bulgaria, Science and Technologies

in Geology, Exploration and Mining, conference proceedings volume II, ISBN 978-619-7105-56-8, ISSN 1314-2704, DOI: 10.5593/sgem2016B12, pg. 719÷725;

10. **Florea Vlad Alexandru**, Loga Walter-Possibilities to increase the operating safety and the reliability of mining technological equipments, 13th International Multidisciplinary Scientific Geoconference SGEM 2013, 16÷22 June, Albena Co., Bulgaria, conference proceedings volume I, ISBN 978-954-91818-7-6, ISSN 1314-2704, pg. 579÷586;

B) Teza de doctorat

Contribuții la creșterea fiabilității utilajelor tehnologice de abataj, Universitatea din Petroșani, Conducător științific: prof.univ.dr.ing. Nicolae Iliș, 2003, confirmat prin Ordinul Ministrului Educației și Cercetării Nr. 4741 din 25.08.2003.

C) Teza(-ele) de abilitare: -

D) Lucrări care pun în evidență contribuția științifică:

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

1. **Florea V.**, Florea C. – *Sisteme de mentenanță*, Editura Focus, Petroșani, ISBN-978-973-677-254-2, 2011;

2. Dumitrescu I., **Florea V.A.** – *Desen tehnic industrial utilizând soft-uri CAD*, Editura Universitas, Petroșani, ISBN 978-973-741-596-7, 2018;

3. Iosif Dumitrescu, **Vlad Alexandru Florea** - *Prelucrări prin așchiere și scule așchiitoare*, Editura Universitas, Petroșani, ISBN 978-973-741-666-7, 2019;

4. **Vlad Alexandru Florea** - *Mentenanța echipamentelor industriale*, Petroșani, Editura Universitas, ISBN 978-973-741-681-0, 2020;

5. **Vlad Alexandru Florea** – *Fiabilitatea sistemelor mecanice*, Petroșani, Editura Universitas, ISBN 978-973-741-858-6, 2022;

- Articole publicate în reviste din țară, specifice domeniului, recunoscute de CNCS;

1. **Florea Vlad Alexandru**, Praporgescu Gabriel, *The Results Obtained in Estimating the Quality of Some Components of the Warman Pump*, Annals of the University of Petroșani, Mechanical Engineering, vol. 26, 2024, Universitas Publishing Petroșani - România, ISSN 1454-9166, pp. 121-130
www.upet.ro/annals/mechanical/pdf/2024/12_Florea_1_Annals_26_2024.pdf;

2. **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 Petroșani, Mechanical Engineering, vol. 26, 2024, Universitas Publishing Petroșani - România, ISSN 1454-9166, pp. 131-142

www.upet.ro/annals/mechanical/pdf/2024/13_Florea_2_Annals_26_2024.pdf;

3. 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 Petroșani, Mining Engineering, Vol 25-2024, Universitas Publishing Petroșani - România, ISSN 1454 -9174, pp. 54-63

[www.upet.ro/annals/mining/pdf/Annals%20of%20UPET%20-%20Mining%20Engineering%20Vol%2025-2024%20\(LII\).pdf](http://www.upet.ro/annals/mining/pdf/Annals%20of%20UPET%20-%20Mining%20Engineering%20Vol%2025-2024%20(LII).pdf);

4. Alexandra ȘOICA, Gheorghe Bogdan URDEA, **Vlad Alexandru FLOREA**, *Analysis by the Finite Element Method of the Tensions and Deformations Produced in the Mechanized Support Beams*, Annals of the University of Petroșani, Mechanical Engineering, vol. 25, 2023, Universitas Publishing Petroșani - România, ISSN 1454 -9166, pp. 209-216
www.upet.ro/annals/mechanical/pdf/2023/20_Soica.pdf;

5. Răzvan Bogdan ITU, **Vlad Alexandru FLOREA**, Dorel Petrică VITAN, *Aspects Regarding the Application in Mechanics of Concurrency Condition of Three Lines in a Plane*, Annals of the University of Petroșani, Mechanical Engineering, vol. 25, 2023, Universitas Publishing Petroșani - România, ISSN 1454 -9166, pp. 93-102
www.upet.ro/annals/mechanical/pdf/2023/09_Itu_2.pdf;

6. Răzvan Bogdan ITU, **Vlad Alexandru FLOREA** - *Determining average shock absorbing coefficient of the hydraulic shock absorber of the reduction gear of a winding machine in a mine*, Revista Fiabilitate și Durabilitate / Fiability and Durability, No 1/ 2023, Universitatea "Constantin Brâncuși" din Târgu-Jiu, ISSN 2344 – 3669, ISSN-L 1844 – 640X, pg. 53-59
https://www.utgjiu.ro/rev_mec/mecanica/pdf/2023-01/10_Itu%20R%20B.%20%20Florea%20V%20A-Determining%20average%20shock%20absorbing%20coefficient%20of%20the%20hydraulic%20shock%20absorber%20of%20the%20reduction%20gear%20of%20a%20winding%20machine%20in%20a%20mine.pdf;

7. Răzvan Bogdan ITU, **Vlad Alexandru FLOREA** - *Plane-Parallel Motion Aspects Regarding Isocline Circles*, Annals of the University of Petroșani, Mechanical Engineering, vol. 24, 2022, Universitas Publishing Petroșani - România, ISSN 1454 -9166, pp. 81-88,
https://www.upet.ro/annals/mechanical/pdf/2022/09_Itu_Florea.pdf;

8. Răzvan-Bogdan Itu, **Vlad Alexandru Florea** - *The experimental investigation of the force system from the acting elements of the press for balotting metallic*, Annals of Constantin Brâncuși University of Târgu-Jiu - Engineering Series No. 4, Issue 4/2022, ISSN 1842-4856, pg. 70-73,
https://www.utgjiu.ro/rev_ing/pdf/2022-4/10_%20R%C4%83zvan%20Bogdan%20Itu.%20Vlad%20Alexandru%20Florea_THE%20EXPERIMENTAL%20INVESTIGATION%20OF%20THE%20FORCE%20SYSTEM%20FROM%20THE%20ACTING%20ELEMENTS%20OF%20THE%20PRESS%20FOR%20BALOTTING%20METALLIC.pdf;

9. Răzvan-Bogdan Itu, **Vlad Alexandru Florea** - *Results concerning the determination through analytical calculations of the force system achieved by the metallic waste press*, Annals of Constantin Brâncuși University of Târgu-Jiu - Engineering Series No. 4, Issue 4/2022, ISSN 1842-4856, pg. 64-69,
https://www.utgjiu.ro/rev_ing/pdf/2022-4/09_R%C4%83zvan%20Bogdan%20Itu.%20Vlad%20Alexandru%20Florea_RESULTS%20CONCERNING%20THE%20DETERMINATION%20THROUGH%20ANALYTICAL%20CALCULATIONS%20OF%20THE%20FORCE%20SYSTEM%20ACHIEVED%20BY%20THE%20METALLIC%20WASTE%20PRESS.pdf;

10. Razvan Bogdan ITU, Susana Ecaterina APOSTU, **Vlad Alexandru FLOREA**, Bogdan Ioan MARC, Calculation of optimal structures made of articulated bars, ANNALS of Faculty Engineering Hunedoara – International Journal of Engineering, Tome XX [2022] | Fascicule 4 [November], ISSN 1584 – 2665 (printed version); ISSN 2601 – 2332 (online); ISSN-L 1584 – 2665, <https://annals.fih.upt.ro/pdf-full/2022/ANNALS-2022-4-02.pdf>;
11. Urdea G.B., **Florea V. A.**, Dumitrescu I. - The study of the milling heads Romascon by 3d modeling, Annals of the University of Petroșani, Mechanical Engineering, VOL. 21 (XLVIII) (2019), UNIVERSITAS Publishing PETROȘANI - ROMANIA, pp. 105-114, ISSN 1454 -9166;
12. **Florea V. A.**, Urdea G.B., Dumitrescu I. - The study of the helical drill by 3D modelling, Annals of the University of Petroșani, Mechanical Engineering, VOL. 21 (XLVIII) (2019), UNIVERSITAS Publishing PETROȘANI - ROMANIA, pp. 49-58, ISSN 1454 -9166;
13. **Florea Vlad Alexandru**-Researches on wear and reliability of some subassemblies and spare parts of technological equipment, Annals of the University of Petroșani, Mechanical Engineering, Mechanical Engineering, vol. 20 , 2018, ISSN 1454-9166, pag. 19-26;
14. **V.A. Florea**-Cercetări privind îmbinarea prin vulcanizare a benzilor pentru transportoare/Research regarding of the belt conveyors joint vulcanization, Tehnologie Inovativă-Revista Construcția de Mașini, anul 67, nr. 4/2015, ISSN 2248-0420, pag. 17-21;
15. G. Duduială, C. Florea, **V.A. Florea**-Research concerning the wear and reconditioning of parts of the coal preparation equipments, Tehnologie Inovativă-Revista Construcția de Mașini, anul 65, nr. 1-2/2013, ISSN 2248-0420, pag. 27-32;
16. Petre Armășoiu, **Vlad Alexandru Florea**-Considerations regarding to durability of belts conveyor installations, Annals of the University of Petroșani, Mechanical Engineering, 15 (2013), ISSN 1454-9166, pag. 5-10;
17. Petre Armășoiu, **Vlad Alexandru Florea**-Study of the influence belts joint regime parameters for improving the time of operation of the conveyor belts, Annals of the University of Petroșani, Mechanical Engineering, 16 (2014), ISSN 1454-9166, pag. 5-10;
18. Brînzan D., **Florea V.** - *Possibilities for increasing the reliability of the subassemblies of the KSW-460NE type shearer*, Annals of the University of Petroșani, Mechanical Engineering, 14 (2012), ISSN 1454-9166, pg. 5-10;
19. Walter Loga, Sorin Vătavu, **Vlad Alexandru Florea**-Posibilități de reducere a întreruperilor în funcționare ale excavatoarelor EsRc-1400, prin îmbunătățirea sistemului de ungere centralizată ale rulmentului de presiune, Revista Minelor nr. 1/2013, ISSN 2247-8590, pag. 37÷40;
20. Drescher A., **Florea V.** – *Consolidarea taluzurilor și versanților cu ajutorul plăcilor din beton, ancorate*, Revista Minelor nr. 2/2012, ISSN 1220-2053, pag. 41-44;
21. **Florea V.** - *Scule miniere de perforat/Mining experimental tools for drilling operation*, TEHNOLOGIE INOVATIVĂ – revista Construcția de mașini, nr.1/2012, BDI Indexing: CSA ProQuest, ISSN 2248-0420, pag.31-33;
22. **Florea V.**, Florea C. - *Ways to increase the excavator teeth reliability*, TEHNOLOGIE INOVATIVĂ - revista Construcția de mașini, nr. 2/2011, BDI Indexing: CSA Pro Quest, ISSN 0573 7419, pag. 35-40;
23. Florea C., Drescher A., **Florea V.** - *Determination possibilities of the active lateral earth pressure on abutment walls of enlarged roadways*, Revista Minelor, nr.3/2011, BDI Indexing: EBSCO, ISSN 1220-2053, pag. 18-22;

24. **Florea V.** - *Recondiționarea unor subansamble ale utilajelor miniere/Aspects of reconditioning of parts of mining equipment*, TEHNOLOGIE INOVATIVĂ – revista Construcția de masini, nr.3-4/2011, BDI Indexing: CSA ProQuest, ISSN 2248-0420, pag. 27-30;

25. Florea A., Florea C., **Florea V.**, Pirlea R. - *The analyse of the belt and chain conveyors systems reliability from the Jiu Valey mining plants*, Analele Facultății de inginerie din Hunedoara, Anul 2, Fasc. 4, ISSN 1454-6531, 2000, pag35-40;

- **Lucrări/studii publicate în reviste sau volumele unor manifestări științifice (conferințe, simpozioane etc.) internaționale indexate în baza de date ISI (cu ISSN sau ISBN):**

1. **Florea, V.A.**; Toderaș, M.; Tihanov-Tănăsache, D. Influence of Abrasive Wear on Reliability and Maintainability of Components in Quarry Technological Equipment: A Case Study. *Appl. Sci.* **2025**, *15*, 3603. <https://doi.org/10.3390/app15073603>;

2. **Florea, V.A.**; Toderaș, M.; Danciu, C. The Influence of Roughness of Surfaces on Wear Mechanisms in Metal-Rock Interactions. *Coatings* **2025**, *15*, 150. <https://doi.org/10.3390/coatings15020150>;

3. **Florea, V.A.**; Toderaș, M. Efficiency of Maintenance Activities in Aggregate Quarries: A Case Study of Wear Parts on Loaders and Excavators. *Appl. Sci.* **2024**, *14*, 7649. <https://doi.org/10.3390/app14177649>;

4. Toderaș, M.; **Florea, V.A.**; Itu, R.B. Stability Analysis of the Tailings Dam for the Purpose of Closing, Greening, and Ensuring Its Safety—Study Case. *Sustainability* **2023**, *15*, 7606. <https://doi.org/10.3390/su15097606>;

5. **Florea, V.A.**; Toderaș, M.; Itu, R.-B. Assessment Possibilities of the Quality of Mining Equipment and of the Parts Subjected to Intense Wear. *Appl. Sci.* **2023**, *13*, 3740. <https://doi.org/10.3390/app13063740>;

6. S. Cseminski, E. Cojocari, A. C. Ionica, M. Leba and **V. A. Florea**, *Assessing The Technological and Commercial Readiness For Innovative Projects*, WorldCIST 2023: *Information Systems and Technologies*, Lecture Notes in Networks and Systems, vol 801. Springer, Cham, pp 346–355 https://link.springer.com/chapter/10.1007/978-3-031-45648-0_34;

7. **Florea, V.A.**; Ionică, A.C.; Florea, A.; Itu, R.-B.; Popescu-Stelea, M. Study of the Possibilities of Improving Maintenance of Technological Equipment Subject to Wear. *Processes* **2022**, *10*, 2550. <https://doi.org/10.3390/pr10122550>;

8. **Florea, V.A.**; Itu, R.-B. Potential Methods for Limiting the Consumption of Machine Components Exposed to Abrasive Wear. *Sustainability* **2022**, *14*, 12819. <https://doi.org/10.3390/su141912819>;

9. **Vlad Alexandru Florea**, Dragoș Păsculescu, Vlad Mihai Păsculescu - *Reliability and maintainability of scraper conveyor used in coal mining in the Jiu Valley* – Mining of Mineral Deposits 2021, 15(3), ISSN: 2415-3435, DOI: 10.33271/mining15.03.016, pag. 16-21; http://mining.in.ua/2021vol15_3_3.html;

10. **Florea Vlad Alexandru**-Reliability analysis equipment for cutting and transportation in case of a mining flux technology, 16th International Multidisciplinary Scientific Geoconference SGEM 2016, 28 June÷07 July, Albena Co., Bulgaria, Science and Technologies in Geology, Exploration and Mining, conference proceedings volume II, ISBN 978-619-7105-56-8, ISSN 1314-2704, DOI: 10.5593/sgem2016B12, pg. 719÷725;

11. Pricop Doru Gabriel, **Florea Vlad Alexandru**-Research on the reliability and

maintenance of pumps from the process flow of coal preparations of the Energy Complex Hunedoara, 15th International Multidisciplinary Scientific Geoconference SGEM 2015, 18÷24 June, Albena Co., Bulgaria, conference proceedings volume I, ISBN 978-619-7105-34-6, ISSN 1314-2704, pg. 697÷704;

12. Vlad Mihai Păsculescu, Pricop Doru Gabriel, Marius Simion Morar, **Florea Vlad Alexandru**-Research on the development of an expert system for selecting technical equipment intended to be used in potentially explosive atmospheres, 15th International Multidisciplinary Scientific Geoconference SGEM 2015, 18÷24 June, Albena Co., Bulgaria, conference proceedings volume I, ISBN 978-619-7105-34-6, ISSN 1314-2704, pp. 291÷298;

13. Duduială Gianina Margareta, **Florea Vlad Alexandru**-Reliability of the component units of excessive wear of coal preparation equipment, 14th International Multidisciplinary Scientific Geoconference SGEM 2014, 17÷26 June, Albena Co., Bulgaria, conference proceedings volume III, ISBN 978-619-7105-09-4, ISSN 1314-2704, pp. 941÷947;

14. Măceșaru Cristina Ionela, **Florea Vlad Alexandru**-Using ultrasonic fault detection to prevent accidents and ensure safety in operation of coal grinding technological equipment, 14th International Multidisciplinary Scientific Geoconference SGEM 2014, 17÷26 June, Albena Co., Bulgaria, conference proceedings volume III, ISBN 978-619-7105-09-4, ISSN 1314-2704, pg. 745÷751;

15. **Florea Vlad Alexandru**, Loga Walter-Possibilities to increase the operating safety and the reliability of mining technological equipments, 13th International Multidisciplinary Scientific Geoconference SGEM 2013, 16÷22 June, Albena Co., Bulgaria, conference proceedings volume I, ISBN 978-954-91818-7-6, ISSN 1314-2704, pg. 579÷586;

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

1. Itu, RB., Mihaela, T., Marc, IB., **Florea, V.A.** (2025). *Calculation of the Technological Forces Transmitted to the Extraction Tower Through Means of the Extraction Pulley*. In: Rackov, M., Miltenović, A., Banić, M. (eds) *Machine and Industrial Design in Mechanical Engineering*. KOD 2024. Mechanisms and Machine Science, vol 174. Springer, Cham. https://doi.org/10.1007/978-3-031-80512-7_4;

2. S. Cseminschi, A. C. Ionica, M. Leba and V. A. **Florea**, *Fuzzy Tool for Crowdfunding Readiness Level Assessment for Innovative Projects*, 2023 18th Iberian Conference on Information Systems and Technologies (CISTI), Aveiro, Portugal, 2023, pp. 1-5, <https://doi.org/10.23919/CISTI58278.2023.10211669>;

3. Tihanov-Tănăsache Daniel, **Florea Vlad Alexandru**, Dinica Daniela, Binchiciu Emilia, Sîrbu Nicușor-Alin-Preventive Repetitive Maintenance Applications in the Field of High Wear Subjected Surfaces, *Advanced Materials Research*, Vol. 1153, 2018, ISSN: 1662-8985, Doi: 10.4028/www.scientific.net/AMR.1153.113, pp 113-118;

4. **V.A. Florea**, D. Tihanov-Tănăsache, O.V. Oanca, I. Duma - Nondestructive Testing of Linear-Butt Welding with the Phaser XS, *Advanced Materials Research*, Vol. 1153, 2018, ISSN: 1662-8985, Doi: 10.4028/www.scientific.net/AMR.1153.113, pp 98-102;

5. **Florea Vlad Alexandru**-Reconditioning technology directly into open pit mining of some technological equipment subassemblies, 18th International Multidisciplinary Scientific Geoconference SGEM 2018, 30 June÷09 July, Albena Co., Bulgaria, Science and Technologies in Geology, Exploration and Mining, conference proceedings volume 18, ISBN 978-619-7408-

37-9, ISSN 1314-2704, DOI: 10.5593/sgem2018/1.3, pg. 715÷720;

6. **Florea Vlad Alexandru**, Praporgescu Gabriel-Possibilities to reduce the maintenance costs of mining technological equipment, 18th International Multidisciplinary Scientific Geoconference SGEM 2018, 30 June÷09 July, Albena Co., Bulgaria, Science and Technologies in Geology, Exploration and Mining, conference proceedings volume 18, ISBN 978-619-7408-37-9, ISSN 1314-2704, DOI: 10.5593/sgem2018/1.3, pg. 641÷646;

7. **Florea Vlad Alexandru**-Research regarding expanding mechanization in the field of consolidation of the embankment and slopes, 17th International Multidisciplinary Scientific Geoconference SGEM 2017, 29 June÷05 July, Albena Co., Bulgaria, Science and Technologies in Geology, Exploration and Mining, conference proceedings volume 17, ISBN 978-619-7105-99-5, ISSN 1314-2704, DOI: 10.5593/sgem2017/12, pg. 693÷698;

8. Tihanov-Tănăsache Daniel, **Florea Vlad Alexandru**-Research concerning the improvement of operation times of some subassemblies of the crushers, 7th International Multidisciplinary Scientific Symposium Universitaria Simpro 2016 14-15 October 2016, Petroșani, Conference proceedings, Section 6, Industrial and mechanical engineering and transportation, ISSN 2344-4754, pag. 483-486;

9. **Vlad Florea**, Walter Loga, Moldovan Ana Codruța-Analysing the defects of the pumps composing the lubricating system of the pressure bearing of the EsRc 1400 type excavator, Proceedings of the 1st International Conference on Mechanical and Robotics Engineering, Athens, Greece, 2013, May 14-16, ISBN: 978-1-61804-185-2, ISSN: 2227-4596, pp. 45÷50;

10. Florea C., **Florea V.**, Drescher A., Praporgescu G. - *Possibilities of spray hardening tool displacement of rocks*, The 6th International Conference – Innovative technologies for joining advanced materials, Timișoara, 14-15.06.2012, ISSN 1844-4938, pag. 59-62;

11. **Florea V.**, Bonculescu A., Leba M. – *Air quality assessment in Gorj county, Proceedings of the 5 th WSEAS International Conference on URBAN REHABILITATION AND SUSTAINABILITY (URES'12), Malta, 2012*, Proceeding ISI, 2227-4359, ISBN: 978-1-61804-120-3, pag. 126-132;

12. Florea C., Nan M., **Florea V.** - *Researches regarding the parameters which influence the wear of some spare parts of rock dislocation technological equipment*, INTERNATIONAL MULTIDISCIPLINARY CONFERENCE, 9th EDITION, 19-21 May 2011, Nyiregyhaza, HUNGARY, ISBN 978-615-5097-18-8, pag. 97-102;

13. **Florea V.**, Loga W. - *Possibilities of improving the centralised lubrication systems of bucket wheel excavators*, 9th International Conference OPROTEH 2011, Bacău, 24-26 mai, ISBN 978-606-527-131-9, D15;

14. Florea A., Florea C., **Florea V.** – *Researches regarding the reliability of the mining conveyors from underground and open pit mines*, MicroCAD 2001, Harkov, Ucraina, ISBN 966-593-204-7, pag. 201-205;

15. Florea A., Florea C., Purcaru S., **Florea V.** – *Aspecte privind comportarea în exploatare a unor utilaje de tăiere și transport de la E.M. Paroșeni*, Lucrările științifice ale Simpozionului Internațional “Universitaria ROPET 2001”, vol. Inginerie mecanică, ISBN 973-85398-5-4, pag. 137-138;

16. Florea A., Florea C., Pîrlea R., **Florea V.** – *Aspecte privind fiabilitatea transportoarelor cu raclete*, Lucrările științifice ale Simpozionului Internațional “Universitaria ROPET 2000”, vol. Inginerie mecanică, ISBN 973-8035-64-3, pag. 33-36;

E) Lucrări care pun în evidență activitatea didactică:

1. **Florea V.** – *Fiabilitatea și mentenanța produselor – îndrumător de laborator*, Editura Universitas, Petroșani, ISBN 978-973-741-240-9, 2011;
2. **Florea V.** – *Tehnologia fabricării utilajelor și instalațiilor – îndrumător de laborator*, Editura Universitas, Petroșani, ISBN 978-973-741-291-1, 2012;
3. **Vlad Alexandru Florea** - *Mentenanța echipamentelor industriale - îndrumător de laborator*, Editura Universitas, Petroșani, ISBN 978-973-741-668-1, 2019;
4. **Vlad Alexandru Florea** - *Tehnologia fabricării echipamentelor industriale: îndrumător de laborator*, Petroșani, Editura Universitas, ISBN 978-973-741-667-4, 2019;

F) Lucrări care pun în evidență activitatea de cercetare:

1. Contract de cercetare științifică nr. 2 / 22.07.2024 cu SC MIN EXPERT SRL Timișoara, intitulat „*Posibilități de îmbunătățire a fiabilității și mentenabilității unor subansambluri și piese de schimb aparținând echipamentelor tehnologice din cariera de bazalt Pătârș*”, valoare totală 25000 lei, director de proiect Florea Vlad Alexandru, executant Universitatea din Petroșani;
2. Contract de cercetare științifică nr. 2 / 07.05.2021 cu SC SUDOTIM AS SRL Timișoara, intitulat „*Cercetări pentru reabilitarea cu materiale avansate a structurilor din componența echipamentelor tehnologice, exploatate în condiții severe de funcționare în scopul creșterii duratei lor de viață*”, valoare totală 26000 lei, director de proiect Florea Vlad Alexandru, executant Universitatea din Petroșani;
3. Contract de cercetare științifică nr. 3/14.01.2015, valoare 50000 lei - *Întocmire măsurători de performanță și raport tehnic pentru determinarea unor indicatori necesari calificării producției de energie electrică în cogenerare de înaltă eficiență pentru Grupul Energetic nr. 4 de 150 MW din Complexul Energetic Humedoara SA – Sucursala Electrocentrale Paroșeni*, responsabil temă Petrilean Dan Codruț, executant Universitatea din Petroșani;
4. Contract de cercetare științifică nr. 5/12.04.2016, valoare 11000 lei – *Majorarea eficienței energetice prin elaborarea, analiza și optimizarea instalațiilor energetice din cadrul SC ASVJ SA Petroșani*, responsabil temă Petrilean Dan Codruț, executant Universitatea din Petroșani;
5. Contract de cercetare științifică nr. 1/30.05.2018, valoare 8200 lei – *Majorarea eficienței energetice prin elaborarea bilanțurilor și analiza instalațiilor energetice din cadrul CONFEZIONI ANDREA ROMÂNIA SRL*, responsabil temă Petrilean Dan Codruț, executant Universitatea din Petroșani;
6. Contract POCU 320/6/21-122596, valoare 4125166,55 lei - *Educația, o șansă pentru Valea Jiului!*, responsabil partener Edelhauser Eduard, Universitatea din Petroșani partener.

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: 4 aprilie 2025

Semnătura

Candidat,

Conf. univ.dr.ing. FLOREA Vlad Alexandru

