UNIVERSITATEA "VASILE ALECSANDRI" din BACĂU
FACULTATEA de INGINERIE

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RAPORT PRIVIND ACTIVITATEA DE CERCETARE A FACULTĂȚII DE INGINERIE ÎN ANUL 2023
SITUATIA CENTRALIZATĂ

1. Lucrări științifice/tehnice publicate în 2023 în reviste de specialitate cotate ISI

Nr. crt	*Anul*	*Autor(i)*	*Titlul articolului*	*Revista*	*Factor de impact 2022 Pondere Facultate Pondere Univ*	*ISSN*
1.	2023	Goldan, E., Nedeff, V., Barsan, N., Culea, M., Panainte-Lehadus, M., Mosnegutu, E., Tomozei, C., Chitimus, D., Irimia, O.	Assessment of Manure Compost Used as Soil Amendment-A Review	Processes, 2023, vol. 11, no. 4, 2023, art. no., 1167	3,5 0,77	ISSN 2227-9717
2.	2023	Chitimus, D., Nedeff, V., Mosnegutu, E., Barsan, N., Irimia, O., Nedeff, F.	Studies on the Accumulation, Translocation, and Enrichment Capacity of Soils and the Plant Species Phragmites Australis (Common Reed) with Heavy Metals	Sustainability, 2023, vol. 15, no. 11, art.no. 8729	3,9 1	ISSN 2071-1050
3.	2023	Filali, H., Barsan, N., Hormann, G., Nedeff, V., Irimia, O., Nedeff, F., Hachicha, M.	Greywater Vertical Treatment and Possibility of Reuse in the Fields from Peri-Urban Area	Agronomy, 2023, vol. 13, no., 3, art. no. 940	3,7 0,57	ISSN 2073-4395
4.	2023	Misaila, L., Raducanu, D., Barsan, N., Alexa, I.C., Patriciu, O.I., Grosu, L.	Assessment of the microbiota of some mineral water form Slanic Moldova (Romania): seasonal evaluation and after storage in different conditions	Scientific Study & Research. Chemistry & Chemical Engineering, Biotechnology, Food Industry, 2023, vol. 24, no. 2, p. 97-110	0,3 0,83	ISSN 1582-540X

5.	2023	Iulian-Alin Rosu, Florin Nedeff, Valentin Nedeff, Jose Luis Cueto Ancela, Dragos Constantin Nica, Mihail Frasila, Maricel Agop, Decebal Vasincu	Turbulence Removal in Atmospheric Dynamics through Laminar Channels	Fractal and Fractional, 2023, Vol. 7, no., 8, p.576	5,4 0,25	ISSN 2504-3110
6.	2023	Irina Nica, Florin Nedeff, Valentin Nedeff, Cristina Popa, Ștefan Lucian Toma, Maricel Agop, Decebal Vasincu	The Cracking Behavior of Two Dental Composite Materials Validated through Multifractal Analyzes	International Journal of Molecular Sciences, vol. 24, no. 7, art.no. 6493, 2023	5,6 0,28	ISSN 1422-0067
7.	2023	Constantin Plăcintă, Sergiu Stanciu, Mirela Panainte-Lehadus, Emilian Mosnegutu, Florin Nedeff, Valentin Nedeff, Claudia Tomozei, Tudor-Cristian Petrescu, Maricel Agop	Theoretical and Experimental Designs on Several Mechanical Properties of Cu–Al–Zn Shape Memory Alloys Used in the Processing Industry	Materials, 2023, vol., 16, no., 4, p.1441	3,4 0,55	ISSN 1996-1944
8.	2023	Irimia, O., Panaite-Lehadus, M., Tomozei, C., Mosnegutu, E., Przydatek, G.	Origin-Destination Traffic Survey-Case Study: Data Analyse for Bacau Municipality	Sustainability, vol. 15, no. 6, 2023, 4975	3,9 0,8	ISSN 2071-1050
9.	2023	Przydatek, G., Ryniewicz, A., Irimia, O., Tomozei, C., Mosnegutu, E., Bodziony, M.	Analysis of noise levels in typical passenger cars	Sustainability, vol. 15, no. 10, 2023, 7910	3,9 0,5	ISSN 2071-1050
10.	2023	Bibire, Luminita, Chitimus, Alexandra-Dana, Ghenadi, Adrian-Stelian	Multi-Criteria Assessment of Taxi Transport Services for Public Procurement: Case Study for Bacau City	Sustainability, 2023, 15, 7489	3.9 1	ISSN 2071-1050
11.	2023	Rusu, Lăcrămioara; Suceveanu, Elena-Mirela; Blaga, Alexandra-Cristina; Nedeff, Florin Marian; Șuteu, Daniela	Insights into Recent Advances of Biomaterials Based on Microbial Biomass and Natural Polymers for Sustainable Removal of Pharmaceuticals Residues	Polymers, vol. 15, no. 13, 2923 20734360	5 0,6	ISSN 2073-4360
12.	2023	Hortolomeu, Andreea; Mirila, Diana-Carmen; Georgescu, Ana-Maria; Rosu, Ana-Maria; Scutaru, Yuri; Nedeff, Florin-Marian; Sturza, Rodica; Nistor, Ileana Denisa.	Retention of Phthalates in Wine Using Nanomaterials as Chemically Modified Clays with H20, H30, H40 Boltron Dendrimers	Nanomaterials, vol. 13, no. 16, 2301	4,927 0,5	ISSN 2079-4991
13.	2023	Ghezali, K., Abdelwaheb, M., Nedeff, V.; Mosnegutu, E., Guettaf, N., Barsan, N.	Short-term Laboratory Adsorption of Zinc and Cadmium Ions from Aqueous Solutions to Ground Canna indica Roots	Water, Air, & Soil Pollution, 2023, Vol. 234, no., 12, pp. 1-17	2,9 0,5	ISSN 0049-6979

14.	2023	Maciej Roszak, Dariusz Pyka, Mirosław Bocian, Narcis Barsan, Egidijus Dragašius, Krzysztof Jamroziak	Multi-Layer Fabric Composites Combined with Non-Newtonian Shear Thickening in Ballistic Protection-Hybrid Numerical Methods and Ballistic Tests	Polymers, Vol. 15, no. 17, Art.no. 3584	5 0,16	ISSN 2073-4360
15.	2023	Lavinia Misaila, Narcis Barsan, Dumitra Raducanu, Luminita Grosu, Oana-Irina Patriciu, Irina-Claudia Alexa, Adriana-Luminita Finaru	Eco-friendly and efficient monitoring of physico-chemical parameters of some mineral water from Slanic Moldova (Romania) during storage in different conditions–a case study	Ovidius University Annals of Chemistry, vol. 34, no. 2, p. 72-82	0,9 0,86	ISSN: 2286-038X
16.	2023	Alecs Andrei, Matei Ramona, Nicoleta Turcu, Ion Pencea, Eugen Herghelegiu, Mircea Ionut Petrescu, Florentina Niculescu	Comparative Characterization of the TiN and TiAlN Coatings Deposited on a New WC-Co Tool Using a CAE-PVD Technique https://doi.org/10.3390/cryst13010112	Crystals	2,7 0,14	2073-4352
17.	2023	Ciubotariu, V.A.; Grigoraș, C.C.; Zichil, V.; Rosu, A.M.	An adaptive algorithm and additively manufactured punch used to form aluminium sheet metal parts https://doi.org/10.3390/ma16103704	Materials	3,748 1	1996-1944
18.	2023	I. V. Banu, Fadila Barkat, M. Istrate, J. M. Guerrero, G. Culea, P. Livinti, Justina G. Motas, B. Neagu, D.A. Andrioaia	Passive anti-Islanding protection for Three-Phase Grid-Connected photovoltaic power systems	International Journal of Electrical Power & Energy Systems, vol. 148, p. 108946-108955 https://doi.org/10.1016/j.ijepes.2023.108946 https://www.webofscience.com/wos/woscc/full-record/WOS:001009658800001	5,2 0,44	0142-0615
19.	2023	Fadila Barkat, A. Cheknane, J. M. Guerrero, A. Lashab, M. Istrate, M. Gavrilas, Justina G. Motas, I. V. Banu	Review, analysis, and performance evaluation of the most common four active methods for islanding detection in grid-connected photovoltaic systems	Electric Power Systems Research, vol. 214, part A, p. 108909 https://doi.org/10.1016/j.epsr.2022.108909 https://www.webofscience.com/wos/woscc/full-record/WOS:000886825400002	3,9 0,12	0378-7796

20.	2023	Costin-Anton Boiangiu, Marius-Eduard Cojocea, Robert-Costin Bercaru, Mihai Bran, Mihai-Lucian Voncila, Nicolae Tarba, Cornel Popescu, George Culea	Fast and Reliable Emotions Detection Adapted for Driver Monitoring and Online Psychotherapy Sessions	Journal of Control Engineering and Applied Informatics, 2022, vol. 24, nr. 3, pag. 86-95, indexat 2023 https://www.webofscience.com/wos/woscc/full-record/WOS:000904972700008	0,9 0,12	1454-8658
21.	2023	Topliceanu Liliana, Puiu Petru Gabriel, Drob Catalin, Topliceanu Vlad Vasile	Analysis Regarding the Implementation of the Circular Economy in Romania	Sustainability, vol. 15, Issue 1, Ian. 2023, https://doi.org/10.3390/su15010333 https://www.webofscience.com/wos/woscc/full-record/WOS:000908659000001	3,9 0,75	2071-1050
22.	2023	Dabija A., Rusu L., Codina G.G.	Studies on the manufacturing of food products using unconventional raw materials	Applied Sciences-Basel, 2023, 13 (13), 7990, https://doi.org/10.3390/app13137990 WOS: 001032308400001	2,7 0,33	2076-3417
23.	2023	Stefanescu I.A., Ifrim I.L.	*Urtica dioica* and *Zingiber officinale* extracts with agro-food and pharmaceutical applications	Scientific Study & Research – Chemistry & Chemical Engineering, Biotechnology, Food Industry, 2023, 24 (2), 173-181, WOS: 001025811900007	0,3 1	1582-540X
24.	2023	Georgescu A.-M., Platon N., Arus V.A., Jinescu C., Nardou F., Nistor I.-D.	Study on the preparation and characterization of aluminum-pillared clays using montmorillonite K10	Scientific Study & Research – Chemistry & Chemical Engineering, Biotechnology, Food Industry, 2023, 24 (2), 145-153, WOS: 001025811900005	0,3 0,66	1582-540X

25.	2023	Ababei C., Ifrim I.L., Sandovici A., Ababei A.	Aspects regarding the effects of the COVID-19 pandemic on the 10 – 11-year-old children's active motor, dietary, and psychological behavior	Scientific Study & Research – Chemistry & Chemical Engineering, Biotechnology, Food Industry, 2023, 24 (2), 127-144, WOS: 001025811900004	0,3 0,25	1582-540X
26.	2023	Grigoraş, C.G., Simion, A.I.*, Favier L.	Exploration of Reactive Black 5 Dye desorption from composite hydrogel beads—adsorbent reusability, kinetic and equilibrium isotherms	Gels, 2023, 9 (4), 299 https://doi.org/10.3390/gels9040299 WOS: 000977481900001	4,6 0,66	2310-2861 (eISSN)
27.	2023	Boudissa F., Arus V.-A., Foka-Wembe E.-N., Zekkari M., Ouargli-Saker R., Dewez D., Roy R., Azzouz A.	Role of silica on clay-catalyzed ozonation for total mineralization of bisphenol-A	Molecules, 2023, 28 (9), 3825, https://doi.org/10.3390/molecules28093825 WOS: 000987670400001	4,6 0,12	1420-3049 (eISSN)
28.	2023	Tița M.A., Constantinescu M.A., Opruța T.I., Bătuşaru C., Rusu L., Tița O.	Kefir enriched with encapsulated volatile oils: investigation of antimicrobial activity and chemical composition	Applied Sciences-Basel, 2023, 13 (5), 2993, https://doi.org/10.3390/app13052993 WOS: 000947172900001	2,7 0,16	2076-3417 (eISSN)
29.	2023	Favier L., Simion A.I., Hlihor R.M., Fekete-Kertész I., Molnar M., Harja M., Vial C.	Intensification of the photodegradation efficiency of an emergent water pollutant through process conditions optimization by means of response surface methodology	Journal of Environmental Management, 2023, 328, 116928, https://doi.org/10.1016/j.jenvman.2022.116928 WOS: 000900449700001	8,7 0,14	0301-4797 (ISSN); 1095-8630 (eISSN)
Total ISI 29 din care 15,06 ING. și 16,12 UVAB						

2. Lucrări ştiinţifice/tehnice publicate în reviste de specialitate indexate BDI

Nr. crt	***Anul***	***Autor(i)***	***Titlul articolului***	***Revista***	***ISSN Pondere Facultate Pondere Univ***

1.	2023	Joseph B Sawadog, Narcis Barsan, Mahamadi Nikiema, Emilian Mosnegutu, Dayéri Dianou, Alfred S Traore, Aboubakar S Ouattara, Valentin Nedeff	Anaerobic co-digestion of agro-industrial cashew nut wastes with organic matters for biogas production: case of cashew nut hull and cashew almond skin	International Journal of Biological and Chemical Sciences, 2023, Vol. 17, no. 1, p. 220-232	ISSN 1991-8631
2.	2023	Kamilou Ouro-Sama, Gnon Tanouayi, Hodabalo Dheoulaba Solitoke, Narcis Barsan, Emilian Mosnegutu, Tchaa Esso-Essinam Badassan, Sadikou Agbere, Koudjo Adje, Valentin Nedeff, Kissao Gnandi	Polycyclic Aromatic Hydrocarbons (PAHs) Contamination in Chrysichthys nigrodigitatus Lacépède, 1803 from Lake Togo-Lagoon of Aného, Togo: Possible Human Health Risk Suitable to Their Consumption	Int. J. Environ. Res. Public Health, 2023, vol, 20, (3), art. no. 1666	ISSN: 1660-4601
3.	2023	Iosif Ioja, Valentin Nedeff, Florin Nedeff	The Use of Drones in Multispectral Photogrammetry and Thermoscanning-A Review	Buletinul Institutului Politehnic din Iasi. Sectia Matematica. Mecanica Teoretica. Fizica	ISSN 1224-7863
4.	2023	Abdelkrim F., Abdelkrim M., Belloufi A., Tampu C., Chirita B.	Multi-input fuzzy inference system based model to predict the cutting temperature when milling AISI 1060 steel https://doi.org/10.22201/icat.24486736e.2023.21.3.1818	Journal of Applied Research and Technology	1665-6423
5.	2023	Chiriță B.A., Herghelegiu E., Radu C.M., Grigoraș C.C., Tâmpu C.N.,	Optimization of cut quality for AWJ processing of a steel alloy https://doi.org/10.54684/ijmmt.2023.15.2.20	International Journal of Modern Manufacturing Technologies	2067–3604
6.	2023	Ionel Olaru	Welded Joints Studies on the Development of Brazed Aluminum Sheets https://doi.org/10.54684/ijmmt.2023.15.2.137	International Journal of Modern Manufacturing Technologies	2067–3604
7.	2023	Enrique García-Martínez, Valentín Miguel, María Carmen Manjabacas, Juana Coello, Maria Crina Radu	Evaluation of Machining-Induced Chatter and Part Quality in TiAl Alloys Turning Processes by Means of Harmonics Analysis https://doi.org/10.4028/p-EfUcv8	Key Engineering Materials	1662-9795
8.	2023	Petrica Radu, Carol Schnakovszky, Eugen Herghelegiu, Enrique García-Martínez, Valentín Miguel	Study on the Current State of Research in the Field of Titanium Aluminides Milling Processes https://doi.org/10.4028/p-aiTh0Z	Key Engineering Materials	1662-9795
9.	2023	Petrica Radu, Carol Schnakovszky, Catalin Tampu, Enrique García- Martínez, Valentín Miguel	Contributions Regarding the High-Speed Milling of Parts with Low Rigidity Made from Aluminum Alloys https://doi.org/10.4028/p-eDnL03	Key Engineering Materials	1662-9795
10.	2023	Eusebiu Pruteanu, Costică Nitu, Petru Gabriel Puiu	Radar and Fuzzy Systems Technologies for Monitoring and Management of Vehicle Traffic and Pedestrian Flow	Proceedings - 2023 24th International Conference on Control Systems and Computer Science, CSCS DOI: 10.1109/CSCS59211.2023.00110	

11.	2023	Iulian Furdu, Eusebiu Pruteanu, Costica Nițu	Distributed Monitoring and Control System of Gas Concentrations in Different Environment	Proceedings - 2023 24th International Conference on Control Systems and Computer Science, CSCS DOI: 10.1109/CSCS59211.2023.00107, Publisher: IEEE INSPEC Accession Number: 23582240 https://ieeexplore.ieee.org/abstract/document/10214828	
12.	2023	Hazi Gheorghe, Hazi Aneta	Temporary Overvoltage in Case of Multiple Faults in Power Systems	IOSR Journal of Electrical and Electronics Engineering (IOSR-JEEE), Vol. 18, Nr. 1.	e-ISSN: 2278-1676, p-ISSN: 2320-3331
13.	2023	Btissam Majout, Badre Bossoufi, Mohammed Karim, Marian Gaiceanu, Petru Livinti, Zakaria El Zair Laggoun, Ikram Saady, Houda El Alami	Comparative Analysis of Predictive and Direct Power Control Strategies for PMSG-Based WECS	Digital Technologies and Applications, ICDTA'23 - The 2023 International Conference on Digital Technologies and Applications At: Fez, Morocco, DOI: 10.1007/978-3-031-29860-8_72	2367-3370
14.	2023	Livinti Petru, Marius Tivlea, Sorin Popa	Water Level Control and Monitoring System in a Tank made with Arduino Uno and NodeMCU ESP8266 development boards	Preprints (www.preprints.org), doi: 10.20944/preprints202304.0735.v1	
15.	2023	Fadila Barkat, Ali Cheknane, Josep M. Guerrero, George Culea, Petru Livinti, Ioan Viorel Banu	Comparison and effectiveness of slip mode frequency shift and sandia frequency shift active methods for islanding detection in single-phase grid-connected photovoltaic systems	Journal of Engineering Studies and Research – JESR	2068-7559
16.	2023	Plescau, I, Drob, C.	Face-to-Face versus Online or Hybrid: How Students Perceive the Educational Framework	Ovidius" University Annals, Economic Sciences Series Volume XXIII, Issue 1 /2023, pag. 488-495	2393-3127
17.	2023	Răducanu D., Ciauşu R.-A., Stoica I.-V., Maftei D.E., Ungureanu C., Georgescu A.-M.	Preliminary research regarding the stress induced in Lemna sp. and in Folsomia sp. by some chlorine compounds used during the	Scientific Study & Research – Biology, 2023, 32 (1), 49-54	1224-919X

			COVID pandemic		
18.	2023	Georgescu A.-M., Ursachi C., Ungureanu C.V., Răducanu D.	Phytotoxic effects of a common laundry detergent on lettuce (Lactuca sativa L.) using the mathematical modelling of factorial type	Scientific Study & Research – Biology, 2023, 32 (1), 37-41	1224-919X
19.	2023	Ungureanu C.V., Răducanu D., Georgescu A.-M.	An investigation based on pharmaceutical compound removal in multiple cultures Streptomyces MIUG 4.89 and activated sludge	Scientific Study & Research – Biology, 2023, 32 (1), 32-36	1224-919X
19 Total articole BDI					

3. Lucrări ştiinţifice/tehnice publicate/indexate în 2022 în proceedings-uri ISI

Nr. crt	***Anul***	***Autor(i)***	***Titlul articolului***	***Revista***	***ISSN***
1.	2023	Barbu Mădălina, Tuțică Diana, Norișor Mihaela, Pătrașcu Roxana, Minciuc Eduard	Economic analysis of the optimal configuration of thermal and hybrid photovoltaic-thermal panels for a district heating system	11th International Conference on ENERGY and ENVIRONMENT (CIEM), S4-49, http://ciem.upb.ro/2023/information.html	979-8-3503-4078-5
2.	2023	Barbu Mădălina, Siroux Monica, Darie George	A hybrid solar powered domestic hot water system for a kindergarten in Bucharest	11th International Conference on ENERGY and ENVIRONMENT (CIEM), S4-51, http://ciem.upb.ro/2023/information.html	979-8-3503-4078-5

4. Lucrări ştiinţifice prezentate la conferinţe internaţionale/ naţionale, congrese, sesiuni ştiinţifice cu comitet de program

Nr. crt.	**Anul**	**Autor(i)**	**Titlul lucrării**	**Conferinţa**
1.	2023	Emilian Mosnegutu, Mirela Panainte-Lehadus, Dana-Alexandra Chitimus, Claudia Tomozei, Oana Irimia, Marcin Jasiński, Alexandru Donici, Eustina-Gianina Damaschin	Determining the movement of an amplification mechanism	OPROTEH 2023 http://oproteh.ub.ro/

2.	2023	Grzegorz Przydatek, Emilian Mosnegutu	Environmental and energy efficiency of a selected municipal wastewater treatment plant	OPROTEH 2023 http://oproteh.ub.ro/
3.	2023	Alexandra-Dana Chitimus, Valentin Nedeff, Emilian Mosnegutu, Narcis Barsan, Radu Cristian	Studies on the bioaccumulation of mercury in the plant species of Typa Latifolia	OPROTEH 2023 http://oproteh.ub.ro/
4.	2023	Claudia Tomozei, Mirela Panainte-Lehadus, Oana Irimia, Florin Marian Nedeff, Emilian Mosnegutu, Narcis Barsan, Dana Chitimus, Andreea-Iuliana Mares, Grzegorz Przydatek	Evaluation of noise level in an working environment,	OPROTEH 2023 http://oproteh.ub.ro/
5.	2023	Oana Irimia, Claudia Tomozei, Lucian Mihet-Popa, Mirela Panainte-Lehadus, Emilian Mosnegutu, Oana Ojog	Implementation of the circular economy concept in the framework of a retail company with construction materials	OPROTEH 2023 http://oproteh.ub.ro/
6.	2023	Bibire Luminița, Ciuche Constantin,– Vrînceanu Paula Greta	DIMENSIONING AND TESTING TALL TOWERS USING CALCCOL SOFTWARE	OPROTEH 2023 http://oproteh.ub.ro/
7.	2023	Bibire Luminița, Chițimuș Dana Alexandra, Vrînceanu Paula Greta	Maintenance Management for a Bottling Line	OPROTEH 2023 http://oproteh.ub.ro/
8.	2023	Mirela Panainte-Lehadus, Emilian-Florin Mosnegutu, Claudia Tomozei, Oana Irimia, Florin-Marian Nedeff	Eco-labelling in the context of the circular economy	OPROTEH 2023 http://oproteh.ub.ro/
9.	2023	B Chirita, E Herghelegiu, C Radu, C Grigoras, C Tampu	Optimization of cut quality for awj processing of a steel alloy	ModTech 2023 - Modern Technologies in Industrial Engineering, June 14-17, 2023, Bucharest, Romania
10.	2023	C. Radu, C. Schankovszky, B. Chiriță, N.C. Tâmpu, P. Radu, O. Ghiorghe	Reuse of cooking oils from the food industry as dielectrics in electrical discharge machining. A case study	18th International Conference of Contructive Design and Technological Optimization in Machine Building field, OPROTEH 2023, 11-13 May, 2023 https://oproteh.ub.ro/

11.	2023	E. Garcia-Martinez, V. Miguel, M.C. Manjabacas, J. Coello, M.C. Radu	Evaluation of machining-induced chatter and part quality in TiAl alloys turning processes by means of harmonic analysis	10th Edition of the Manufacturing Engineering Society International Conference, MESIC 2023, 28-30 June 2023, https://www.mesic2023.es/MESIC2023/welcome
12.	2023	Ionel Crinel Raveica	Multi-objective optimization of injection molding process using surface response methodology	18th International Conference of Contructive Design and Technological Optimization in Machine Building field, OPROTEH 2023, 11-13 May, 2023 https://oproteh.ub.ro/
13.	2023	Ionel Olaru	Fluid flow analysis of the cooling systems with various nozzle geometries used for cutting processes	18th International Conference of Contructive Design and Technological Optimization in Machine Building field, OPROTEH 2023, 11-13 May, 2023 https://oproteh.ub.ro/
14.	2023	Ionel Olaru	Welded Joints Studies on the Development of Brazed Aluminum Sheets	ModTech 2023 - Modern Technologies in Industrial Engineering, June 14-17, 2023, Bucharest, Romania https://modtech.ro/index.php#gsc.tab=0
15.	2023	Herghelegiu Eugen, Radu Maria-Crina, Schnakovszky Carol, Chirita Bogdan, Grigoras Cosmin, Tampu Nicolae-Catalin	Study On The Influence Of The Focusing Tube's Length On The Quality Of Cut Performed By Abrasive Water Jet Cutting Of The Al6061t651 Alloy	18th International Conference of Contructive Design and Technological Optimization in Machine Building field, OPROTEH 2023, 11-13 May, 2023 https://oproteh.ub.ro/
16.	2023	V A Ciubotariu, C C Grigoraș, V Zichil, B A Chiriță	Using the AIDA method in the design of new elements for the assembly of photovoltaic panels (Paper ID: A-18)	18th International Conference of Constructive Design and Technological Optimization in Machine Building Field OPROTEH 2023 https://oproteh.ub.ro/assets/abstracts2023.pdf?v=ja783
17.	2023	Petrica Radu, Carol Schnakovszky, Eugen Herghelegiu, Enrique García-Martínez, Valentín Miguel	Study on the Current State of Research in the Field of Titanium Aluminides Milling Processes	Manufacturing Engineering Society International Conference 2023 (MESIC2023), 28-30 iunie 2023, https://www.mesic2023.es/MESIC2023/
18.	2023	Petrica Radu, Carol Schnakovszky, Catalin Tampu, Enrique García-Martínez, Valentín Miguel	Contributions Regarding the High-Speed Milling of Parts with Low Rigidity Made from Aluminum Alloys	Manufacturing Engineering Society International Conference 2023 (MESIC2023), 28-30 iunie 2023, https://www.mesic2023.es/MESIC2023/

19.	2023	Dragoş Alexandru Andrioaia	PREDICTIVE MAINTENANCE SYSTEM FOR A PARK OF ELECTRIC SCOOTER	OPROTEH 2023, http://oproteh.ub.ro/
20.	2023	I. V. Banu, Fadila Barkat, J. M. Guerrero, G. Culea, P. Livinti, D. Andrioaia, S. Vernica, A. Enachi	Study on Partial Shading Irradiance Conditions of Photovoltaic Arrays	OPROTEH 2023, http://oproteh.ub.ro/
21.	2023	Culea George	Virtual and augmented reality guide for museums	OPROTEH 2023, http://oproteh.ub.ro/
22.	2023	George Culea, Ioan Carcei	Comparative study between low-cost PLC and a Raspberry Pi 4 with Openplc	OPROTEH 2023, http://oproteh.ub.ro/
23.	2023	Roxana Margareta Grigore, Cornelia Capăt	CONSIDERATIONS ON THE USE OF PVT PANELS FOR ELECTRICITY AND HEAT PRODUCTION IN HOUSEHOLD CONSUMERS	OPROTEH 2023, http://oproteh.ub.ro/
24.	2023	Roxana Margareta Grigore, Sorin Gabriel Vernica, Ioan Viorel Banu, Sorin Popa	ENERGY PRODUCTION USING PVT PANELS	OPROTEH 2023, http://oproteh.ub.ro/
25.	2023	Hazi Aneta, Hazi Gheorghe	OPTIMIZING THE OPERATING REGIME OF THE TRANSFORMERS IN A ELECTRICAL DISTRIBUTION SUBSTATION	OPROTEH 2023, http://oproteh.ub.ro/
26.	2023	Eusebiu Pruteanu, Ana Maria Ailincăi	Study of Security Breaches Due to on Gpu Execution	OPROTEH 2023, http://oproteh.ub.ro/
27.	2023	Petru Gabriel Puiu, Robert Istok, Eusebiu Pruteanu	Maintenance Management System for Hidropower Generators	OPROTEH 2023, http://oproteh.ub.ro/

28.	2023	Vernica Sorin-Gabriel, Grigore R.-M., Măgureanu L.	Photovoltaic Off-Grid Power Supply System of a Didactic Laboratory	OPROTEH 2023, http://oproteh.ub.ro/
29.	2023	Dragoş Alexandru Andrioaia, Vasile Gaitan	Comparative analysis of predictive maintenance systems from specialty literature	OPROTEH 2023, http://oproteh.ub.ro/
30.	2023	Popa Sorin-Eugen	Analyzing intelligent pattern recognition systems to specify the time of occurrence and type of fault in gas-insulated circuit breakers	OPROTEH 2023, http://oproteh.ub.ro/
31.	2023	Livinți Petru, Banu Ioan-Viorel	Comparative study of a buck dc-dc converter controlled with the pi or fuzzy logic regulators	OPROTEH 2023, http://oproteh.ub.ro/
32.	2023	Barbu Mădălina, Tuțică Diana, Norișor Mihaela, Pătrașcu Roxana, Minciuc Eduard	Economic analysis of the optimal configuration of thermal and hybrid photovoltaic-thermal panels for a district heating system	11th International Conference on ENERGY and ENVIRONMENT (CIEM 2023) http://ciem.upb.ro/2023/information.html
33.	2023	Barbu Mădălina, Siroux Monica, Darie George	A hybrid solar powered domestic hot water system for a kindergarten in Bucharest	11th International Conference on ENERGY and ENVIRONMENT (CIEM 2023) http://ciem.upb.ro/2023/information.html
34.	2023	Cătălin Drob, Valentin Zichil, Grigoras Cosmin, Plescau Ioana	FDI and economic growth in Romania	International Conference OPROTECH – 2023, 11-13.05.2023. Facultatea de Inginerie, Universitatea "Vasile Alecsandri" din Bacau
35.	2023	Topliceanu, L., Drob, C., Puiu, P.G.,	General and specific aspects of circular economy implementation	International Conference OPROTECH – 2023, 11-13.05.2023. Facultatea de Inginerie, Universitatea "Vasile Alecsandri" din Bacau
36.	2023	Ciubotariu V.A., Grigoras C.C., Zichil V., Chirita B.A.	Using the AIDA Method in the Design of New Elements for the Assembly of Photovoltaic Panels	International Conference OPROTECH – 2023, 11-13.05.2023. Facultatea de Inginerie, Universitatea "Vasile Alecsandri" din Bacau

37.	2023	Popa O., Ciubotariu V.A., Grigoras C.C., Rosu A.M. Zichil V	Experimental Influence of Corrosive Agents on the Mechanical Characteristics of Steels	International Conference OPROTECH – 2023, 11-13.05.2023. Facultatea de Inginerie, Universitatea "Vasile Alecsandri" din Bacau
38.	2023	Cătălin Tâmpu, Raluca Tâmpu, Valentin Zichil, Vlad Ciubotariu, Cosmin Grigoraș, Bogdan Chiriță, Bogdan Niță, Carol Schnakovszky	Prediction of residual stress distribution after turning of magnesium alloy	International Conference OPROTECH – 2023, 11-13.05.2023. Facultatea de Inginerie, Universitatea "Vasile Alecsandri" din Bacau
39.	2023	Cosmin Grigoraș, Valentin Zichil, Stefan Coșa	Integrating neural networks into sheet metal forming: A review of recent advances and applications	International Conference OPROTECH – 2023, 11-13.05.2023. Facultatea de Inginerie, Universitatea "Vasile Alecsandri" din Bacau
40.	2023	Cosmin Grigoraș, Valentin Zichil, Stefan Coșa	Machine learning, mechatronics, and stretch forming: a history of innovation in manufacturing engineering	International Conference OPROTECH – 2023, 11-13.05.2023. Facultatea de Inginerie, Universitatea "Vasile Alecsandri" din Bacau
41.	2023	Plescau Ioana, Cătălin Drob, Valentin Zichil,	Impact of covid pandemic on SMEs: Evidence from central and eastern europe	International Conference OPROTECH – 2023, 11-13.05.2023. Facultatea de Inginerie, Universitatea "Vasile Alecsandri" din Bacau
42.	2023	Radu Caliman, Ionel Olaru	The variation of friction coefficient on ball helical transmissions	International Conference OPROTECH – 2023, 11-13.05.2023. Facultatea de Inginerie, Universitatea "Vasile Alecsandri" din Bacau
43.	2023	Radu Caliman	Analysis of the estimation of friction losses in ball screws operating under limit and dry conditions	ModTech 2023 International Conference Modern Technologies in Industrial Engineering June 14-17, 2023, Bucharest, Romania
44.	2023	Radu Caliman	Study on the variation of friction coefficient and yield according to axial load on some ball helical transmissions	ModTech 2023 International Conference Modern Technologies in Industrial Engineering June 14-17, 2023, Bucharest, Romania
45.	2023	Radu Caliman	Analysis of the technology for obtaining composite materials with improved physical-mechanical and tribological properties reinforced with carbon fibers	Technical University of Cluj-Napoca, ACTA TECHNICA NAPOCENSIS Series: Applied Mathematics, Mechanics, and Engineering, Vol. XX, Issue xx, Month, 2023

46.	2023	Radu Caliman	Research on abrasive wear testing of carbon fiber reinforced composites with improved physical and mechanical properties	Technical University of Cluj-Napoca,, ACTA TECHNICA NAPOCENSIS Series: Applied Mathematics, Mechanics, and Engineering, Vol. XX, Issue xx, Month, 2023
47.	2023	D.I. Rusu	On The Structural And Optical Characteristics of Pollycrystalline ZnO Thin Films	International Conference OPROTECH – 2023, 11-13.05.2023. Facultatea de Inginerie, Universitatea "Vasile Alecsandri" din Bacau
48.	2023	Plești, Drob, C.	Face-to-face versus online or hybrid: how students perceive the educational framework	20 th edition of the International Conference „Present Issues of global Economy" (PIGE 2023) https://stec.univ-ovidius.ro/conferinte-detalii/the-international-conference-present-issues-of-global-economy-20th-edition-june-29th-july-1st-2023
49.	2023	Plești I.	Monetary policy and bank risk-taking: comparative evidence from the financial crisis and the Covid-19 pandemic	15th edition of the Globalization and Higher Education in Economics and Business Administration (GEBA 2023) https://www.feaa.uaic.ro/geba/accepted.php
50.	2023	Aruş V.A., Vartolomei N., Tănasă S., Platon N.	The influence of rosehip powder addition on yogurt quality*	Salonul Internațional UGAL INVENT, ediția a VI-a, 9-10 noiembrie 2023, Galați (România), https://www.invent.ugal.ro/ROindex2023.html
51.	2023	Hortolomeu A., Mirilă C.-D., Ureche D., Nistor I.-D.	The use of clays intercalated with dendrimers in the retention of undesirable compounds in wine	Conference 'Ecology and Protection of Ecosystems' XIVth Edition, 2-4 noiembrie 2023, Bacău (România), https://epe.ub.ro/
52.	2023	Nicuță D., Alexa I.-C., Grosu L., Patriciu O.-I., Fînaru A.-L.	Allium cepa assay – in vivo investigation of cytotoxicity potential of different extracts of natural sources	Conference 'Ecology and Protection of Ecosystems' XIVth Edition, 2-4 noiembrie 2023, Bacău (România), https://epe.ub.ro/
53.	2023	Bran E.-P., Alexa I.-C., Suceveanu E.-M., Nicuță D., Fînaru A.-L.	Research concerning the valorisation of eggshells as biosorbent for heavy metals	Conference 'Ecology and Protection of Ecosystems' XIVth Edition, 2-4 noiembrie 2023, Bacău (România), https://epe.ub.ro/

54.	2023	Arus V.A., Vartolomei N., Platon N., Nistor I.D.	The influence of rosehip powder addition on yogurt quality	Conference 'Ecology and Protection of Ecosystems' XIVth Edition, 2-4 noiembrie 2023, Bacău (România), https://epe.ub.ro/
55.	2023	Muntianu G., Georgescu A.M., Roșu A.M., Nistor I.D.	Valorification of the bentonite particles as adsorbent in air depollution. Dynamic study in fluidized bed	Conference 'Ecology and Protection of Ecosystems' XIVth Edition, 2-4 noiembrie 2023, Bacău (România), https://epe.ub.ro/
56.	2023	Georgescu A.M., Roșu A.M., Muntianu G., Ureche D., Ureche C., Moșneguțu E., Nistor I.D.	New organo-inorganic matrices for waste remediation	Conference 'Ecology and Protection of Ecosystems' XIVth Edition, 2-4 noiembrie 2023, Bacău (România), https://epe.ub.ro/
57.	2023	Niță N.-T., Suceveanu E.-M., Rusu L.*	Biocomposite material based on Lactococcus lactis – A new challenge in biosorption processes	Conference 'Ecology and Protection of Ecosystems' XIVth Edition, 2-4 noiembrie 2023, Bacău (România), https://epe.ub.ro/
58.	2023	Ungureanu C.V., Răducanu D., Georgescu A.M.	Antibacterial properties of garlic (Allium sativum). A review	International conference "Interdisciplinarity and Cooperation in Cross-Border Research. Economy & Technology", 19-21 octombrie 2023, Cahul (Republica Moldova), hibrid, https://transfrontaliera.ugal.ro/index.php/ro/cercetare/evenimente-stiintifice/conferinte/iccr-2023
59.	2023	Nistor I.-D., Anasie R.C., Mirilă D.-C., Roșu A.-M., Jinescu C.	Materiale pe baza de argile utilizate în reținerea unor poluanți rezultați din activități tipografice și de imprimerie	Zilele Academiei de Științe Tehnice din România (ASTR), 05-06 octombrie 2023, Brașov (România), https://zastr2023.unitbv.ro/
60.	2023	Favier L., Grigoraș C.G., Harja M., Pacala M.L., Simion A.I.	Fast photocatalytic elimination and mineralization of an emergent water contaminant using Titania 2 nanocatalysts	3rd International Meeting on New Strategies in Bioremediation / Restoration Processes, 29-3 iunie 2023, Muttenz (Switzerland), https://www.bioremid.com/
61.	2023	Răducanu D., Georgescu A.-M., Ungureanu C.V., Maftei D., Stoica I.	Test organisms, an efficient alternative for detecting stress induced by chlorine based on surface disinfection used in COVID 19 pandemic	International Scientific Conference "Prospects and Problems of Research and Education Integration into the European Area", 10th Edition, 7 iunie 2023, Cahul (Republica Moldova), hibrid, https://conference-prospects.usch.md/

62.	2023	Diaconescu R.-F., Hortolomeu A., Anasie R.C., Muntianu G., Roşu A.-M., Georgescu A.-M., Nistor I.D.	Studies on the use of clay-based materials in the retention processes of some aromatic pollutants, possibly used in the military industry	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
63.	2023	Berendea A., Mareș M.A., Muntianu G., Georgescu A.-M., Roşu A.-M., Simion A.-I., Nistor I.D.	Study on the quality of chicken meat for human consumption	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
64.	2023	Secară (Muscă) A., Aruș V.-A., Platon N., Roşu A.-M., Muntianu G., Georgescu A.-M., Simion A.-I., Ureche C., Nistor I.D.	The importance of broilers nutrition	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
65.	2023	Alexa I.-C., Grosu L., Patriciu O.-I., Fînaru A.-L.	Fruits rolls enriched with grape pomace powder - sensory evaluation and consumer acceptability	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
66.	2023	Nicuță D., Grosu L., Alexa I.-C., Fînaru A.-L.	Extracts of blackcurrant berries pomace - in vivo investigation	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
67.	2023	Grigoraş C.G., Simion A.I., Favier L.	Preparation of an adsorbent material from cherry stones powder and its application in retaining azo dyes from aqueous solutions	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
68.	2023	Sescu A.M, Favier L., Lutic D., Harja M., Rusu L., Simion A.I., Grigoraş C.G.	An investigation into synthesis of mixed oxides and their use on water decontamination	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
69.	2023	Muntianu G., Simion A.I., Grigoraș C.G., Nistor D.I.	Ammonia adsorption on pillared clay in magnetic field. Mathematical modelling and optimization by response surface methodology	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
70.	2023	Roșu A.-M., Nicuță D., Voicu E.R., Nistor I.-D.	Impact of chemically modified starch on biochemical parameters of in vitro and spontaneous flora of Basil sp.	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/

71.	2023	Popa O., Ciubotariu A.-V., Grigoraș C.-C., Roșu A.-M., Zichil V.	Experimental influence of corrosive agents on the mechanical characteristics of steels	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
72.	2023	Georgescu A.-M., Roșu A.-M., Muntianu G., Ureche D., Nistor I.D.	Retention efficiency of dyes from the food industry on organoinorganic matrices	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
73.	2023	Răducanu D., Bădăluță N., Georgescu A.-M.	Aspects regarding the yeast growth isolated from fermented probiotic product and from grape pomace	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
74.	2023	Platon N., Arus V.A., Georgescu A.M., Nistor I.D.	Valorisation of chokeberry pomace by-product as a functional ingredient in muffins formulation	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
75.	2023	Rusu L.*, Suceveanu E.-M., Șuteu D., Vial C.	Biocomposite material based on yeast residual biomass and natural polymer as alternative for sustainable removal of Rifampicin from aqueous media	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
76.	2023	Suceveanu E.-M., Rusu L., Tița O., Favier L.	Investigation into 3-formyl-rifamycin biosorption using biocomposite material based on microbial biomass and natural polymer	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
77.	2023	Tanasă A.M., Șuteu D., Blaga A.C., Rusu L.	Valorization the residual biomass of Saccharomyces pastorianus in dynamic biosorption processes	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
78.	2023	Sandu Bălan (Tăbăcariu) A., Patriciu O.-I., Ștefănescu I.-A., Ifrim I.-L., Fînaru A.-L.	Sambucus nigra L.: Characterization of elderberry extracts obtained by various methods	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
79.	2023	Ifrim I.-L., Ștefănescu I.-A., Suceveanu E.-M.	Application of ultrasound treatment to improve sensory characteristics in red wines	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/

80.	2023	Ștefănescu I.-A., Ifrim I.-L., Suceveanu E.-M.	Urease activity in ginger (Zingiber officinale)	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
81.	2023	Aruș V.-A., Teușdea A.C., Georgescu A.-M., Roșu A.-M., Platon N., Nistor I.-D.	Chromatic and imagistic analysis of bread with addition of buckwheat flour	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
82.	2023	Vartolomei N., Tanasa S., Dumitrescu L., Aruș V.-A.	Food waste among Romanian consumers	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
83.	2023	Gabor C., Vartolomei N., Aruș V.-A.	The use of nanomaterials in rosehip oil treatment	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
84.	2023	Nita B., Tampu N.C., Herghelegiu E., Tampu R.I., Chirita B.A., Schnakovszky C.	The influence of the processing environment on the surface quality characteristics on non-ferrous materials	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
85.	2023	Tampu N.C., Burlacu C., Schnakovszky C., Chirita B.A., Radu P., Herghelegiu E., Radu C., Nita B., Tampu R.I.	Influence of cutting parameters on surface quality in milling of Ti-6Al-4V titanium alloy	18th International Conference of Constructive Design and Technological Optimization in Machine Building – OPROTEH 2023, 11-13 mai 2023, Bacău (România), http://oproteh.ub.ro/
86.	2023	Sandu Bălan (Tăbăcariu) A., Patriciu O.-I., Ștefănescu I.-A., Ifrim I.-L., Fînaru A.-L.	The influence of the extraction methods on the antifungal potential of the walnut (Juglans regia L.)	Doctoral Studies School Days "INNOVATION AND DOCTORAL RESEARCH" at "Vasile Alecsandri" University of Bacau, 10-12 mai 2023, Bacău (România), hibrid, https://www.ub.ro/scoala-de-studii-doctorale
87.	2023	Bran P.E., Alexa I.-C., Suceveanu E.-M., Nicuţă D., Fînaru A.-L.	Study concerning the biostimulant potential of grape pomace extracts on plant growth and development	Doctoral Studies School Days "INNOVATION AND DOCTORAL RESEARCH" at "Vasile Alecsandri" University of Bacau, 10-12 mai 2023, Bacău (România), hibrid, https://www.ub.ro/scoala-de-studii-doctorale

88.	2023	Hortolomeu A., Roșu A.-M., Georgescu A.-M., Aruș V.-A., Scutaru I., Sturza R., Nistor I.-D.	Retention of phthalates in wine using chemically modified clays	Doctoral Studies School Days "INNOVATION AND DOCTORAL RESEARCH" at "Vasile Alecsandri" University of Bacau, 10-12 mai 2023, Bacău (România), hibrid, https://www.ub.ro/scoala-de-studii-doctorale
89.	2023	Mariana Lupu, Valentin Nedeff, Mirela Panainte-Lehadus, Emilian Mosnegutu	Study the physical characteristics of red radishes through the penetration method	OPROTEH 2023 http://oproteh.ub.ro/

5. Cărţi publicate

Nr. crt.	Anul	Autor(i)	Titlul	Editură	Număr pagini	ISBN
1.	2023	Bibire Luminița, Barsan Narcis	Evaluarea duratei de viață remanente a echipamentelor, Suport teoretic pentru otrele de curs și aplicații, 296	Alma Mater Bacău	296	ISBN 978-973-1833-80-4
2.	2023	Vrabie Adriana, Bibire Luminița (coordonator), Gora Nicoleta Luminița	Simularea imaginației creatoare la preșcolari prin intermediul activităților practice – Ghid metodologic, 105	Colecția Științe inginerești, Editura Alma Mater, Bacău	105	ISBN 978-973-1833-67-5
3.	2023	Hazi Aneta, Hazi Gheorghe	Partea electrică a centralelor și stațiilor. Îndrumar de proiectare	PIM, Iași	263	978-606-13-7439-7
4.	2023	Costica Nitu, Anda Sabena Dobrescu, Ioan Carcei, Eusebiu Pruteanu	Proiectarea sistemelor distribuite de control fuzzy a echipamentelor HVAC	Matrix Rom, București	200	9786062508197
5.	2023	Eusebiu Pruteanu, Costica Nitu	Tehnologii de măsurare cu microunde	Matrix Rom, București	238	978-606-25-0772-5
6.	2023	Costica Nitu, Eusebiu Pruteanu	Sisteme de monitorizare a mediului folosind tehnici radiometrice cu microunde	Matrix Rom, București	287	978-606-25-0814-2
7.	2023	Muntianu G., Roșu A.M.	Chimia pe înțelesul tuturor, Experimente. Aplicații	Ed. PIM, Iași	256	978-606-13-7528-8
8.	2023	Muntianu G., Roșu A.M.	Chimie aplicată	Ed. PIM, Iași	314	978-606-13-7735-0
9.	2023	Georgescu A.-M., Nistor I.-D.	Bazele chimiei fizice. Îndrumar de laborator	Ed. PIM, Iași	118	978-606-13-7987-3

10	2023	Nicuta D., Rosu A.-M.*, Voicu R.	Capitol** "Nano-Emulsion Formulations for Food Processing and Enhancing the Nutritional Quality and Shelf Life of Food", in: Nanoformulations for Sustainable Agriculture and Environmental Risk Mitigation (Editors: Khan Z., Sutan N.A.) https://doi.org/10.1079/9781800623095.000	CAB International (CABI), Wallingford (UK)	27 (p. 36-62)	978-1-80062-307-1

6. Contracte obţinute/derulate de Facultatea de Inginerie prin competiţii naţionale/internaţionale, inclusiv cu agenţi economici

Nr. crt.	Proiect derulat		Director proiect		Anul obţinerii/ derulării	Valoare lei (aferentă anului 2023)
	Nr. Înregistrare	Denumire	Nume	Prenume		
1.	Contract nr. 3/2023	Determinarea comoziției deșeurilor menajere reziduale și reciclabile, similare și din piețe și a deșeurilor biodegradabile la nivelul Județului Bacău - S.C. Compania Romprest Service S.A.	Moșneguțu	Emilian	2023	
2.	Contract nr. 4/2023	Determinarea comoziției deșeurilor reziduale, biodegradabile și a deșeurilor reciclabile la nivelul zonei ispa (municipiul bacău și 22 de comune limitrofe) din județul bacău	Moșneguțu	Emilian	2023	22745
3.	2(4879) / 2021-2023	Utilizarea sistemelor CAD și construcția prin fabricare aditivă – FDM, a reperelor din industria tâmplăriei din aluminiu și PVC (contract cu agent economic)	CIUBOTARIU	Vlad-Andrei	2021/2023/4/6	25.920,00/2,912
4.	Contract nr. 1/2023	Cercetări teoretice și aplicative pentru epurarea apelor uzate, tratarea apelor de consum și a nămolurilor	Bârsan	Narcis	2023	30000
5.	Fonduri Europene LIFE-2023-CET	Action Plan for a Sustainable Future. Implementation of the developed concept for the energy transition of cities and regions on the example of European localities - ENRES	Grigore	Roxana Margareta	2023	23747
6.	CNFIS-FDI-2023-F-0085	Educație digitală la UBc: utilizarea aplicațiilor din realitatea virtuală în activitatea didactică (Acronim: DIGI-EDU@UBc)	Zichil	Valentin	2023	2023
7.	CNFIS-FDI-2023-F-0055	Consolidarea strategiei de internaționalizare a UBc prin extinderea parteneriatelor și intensificarea mobilității academice (Inter_Connect_ UBc)	Fânaru	Adriana	2023	2023

8.	Erasmus+ KA2 – Cooperation and Innovation for Good Practices, Strategic Partnerships for higher education	MULTITRACES - Multidisciplinary training in circular economy and smart valorisation of the rural area for new business models	Topliceanu	Liliana	2021	
9.	JAR2023_260/27.11.2023	Sesiune mini-granturi proiecte antreprenoriale în universități, ”Entreprenorial Education in Food Science (EEFS)” - Competiție de mini-graturi – 2023 – Entrepreneurial Projects Implemented in Universities - JA ROMANIA	ROȘU	Ana-Maria	2023	24363 / 14617,8
10.	21.114/31.10.2023	Inovație și infrastructură în mediu	Pananinte – Lehăduș	Mirela	2023	24500/3030

7. Contracte obţinute/derulate prin competiții naționale/internaționale, inclusiv cu agenţi economici din colectivul cărora fac parte cadre didactice ale Facultății de Inginerie

Nr. crt.	***Proiect***		***Director proiect***		***Membri echipă Facultatea de INGINERIE***	***Valoare contract în lei (aferentă anului 2023)***
	Nr. Înregistrare	***Denumire***	***Nume***	***Prenume***		
1.	CNFIS-FDI-2023-F-0088	Acces la educație și viață de calitate: incluziunea socială a tinerilor din medii defavorizate			Nedeff Valentin Panainte-Lehadus Mirela	400.000
3.	CNFIS-FDI-2023-F-0085	Educație digitală la UBc: utilizarea aplicațiilor din realitatea virtuală în activitatea didactică			Nedeff Valentin	513.000
4.	CNFIS-FDI-2023-F-0138	Spații de formare modernizate pentru învățământ superior de calitate la UBc			Nedeff Valentin Panainte-Lehadus Mirela	460.000
5.	CNFIS-FDI-2023-F-0069	Cercetarea – din laboratoare către societate. Dezvoltarea capacităţii de cercetare a Universităţii „Vasile Alecsandri” din Bacău prin valorificarea apartenenţei la ecosistemul CDI din Regiunea NE (UBc-Lab-to-Life)			Nedeff Valentin Panainte-Lehadus Mirela Barsan Narcis	200.000
6.	CNFIS-FDI - 2023-0055	Consolidarea strategiei de internaționalizare a UBc prin extinderea parteneriatelor și intensificarea mobilității academice – Inter_Connect_ UBc			Nedeff Valentin, Panainte-Lehadus Mirela, Nedeff Valentin, , Barsan Narcis	380.000

11.	CNFIS-FDI-2023-F-0088	Acces la educație și viață de calitate: incluziunea socială a tinerilor din medii defavorizate (INCLUSIVE-UBc)	Buzoianu	Cristina	Nedeff Valentin Cosmin Grigoras, Zichil Valentin	2023
14.	CNFIS-FDI-2023-F-0069	Cercetarea – din laboratoare către societate. Dezvoltarea capacităţii de cercetare a Universităţii „Vasile Alecsandri” din Bacău prin valorificarea apartenenţei la ecosistemul CDI din Regiunea Nord-Est (acronim: UBc-Lab-to-Life)	Nechita	Elena	Panainte-Lehadus Mirela, Nedeff Valentin, Cosmin Grigoras, Barsan Narcis etc.	200.000
15.	CNFIS-FDI-2023-F-0244	Formarea tinerilor și crearea de experiențe motivaționale pentru un viitor în antreprenoriat (TYEF 023)	Mironescu	Roxana	Grigoraș C.-G.	47000

8. Inițiativa în atragerea de fonduri de cercetare, prin proiecte depuse în competiţii naţionale, competiţii organizate de autorităţile locale, competiții internaționale

Nr. crt.	Proiect depus		Director proiect		Anul depunerii
	Nr. înregistrare	Denumire	Nume	Prenume	
1.	Proiect național	Reducerea consumului de energie electrica a unitatii de comprimare gaze naturale al grupului de cogenerare de 14 MWe din SACET Bacau prin inlocuirea motorului electric de antrenare - Studiu de fezabilitate	Grigore	Roxana Margareta	2022
2.	Fonduri Europene LIFE-2021-CET	Action Plan for a Sustainable Future. Implementation of the developed concept for the energy transition of cities and regions on the example of European localities	Grigore	Roxana Margareta	2022
3.	Horizon-Widera-2022-ACCESS-04-01	Widera – Hub de excelenta in domeniul hidrogenului	Grigore	Roxana Margareta	2022
4	Erasmus-EDU-2023-CBHE-STRAND-2	Développement de formations professionnelles collaboratives pour Madagascar sur les métiers de l’EAU,	Panainte	Mirela	2023
5	CREA-CULT-2023-COOP	Architecture of the cultural values in the downtown zone of selected cities located in stagnant areas with high potential for sustainable development	Panainte	Mirela	2023
6	PN-IV-P8-8.3- ROMD-2023- 0018	Stimularea ecologică a culturilor agricole	Barsan	Narcis	2023
7	PN-IV-P8-8.3-ROMD-2023-	Utilizarea deșeurilor agro-industriale în bioremediere	ROȘU	Ana-Maria	2023

	0067				
8	PN-IV-P1-PCE-2023-0810	Decontaminarea apei poluate cu compuși nocivi prin utilizare de adsorbanți pe bază de subproduse industriale vegetale în context de economie circulară	GRIGORAȘ	Cristina-Gabriela	2023
9	Digitalizarea universităților și pregătirea acestora pentru profesiile digitale ale viitorului	Planul Național de Redresare și Reziliență - PNRR 2022	câștigat	Schnakovszky Carol - director	2022

9.Rapoarte științifice de cercetare

Nr. crt.	*Proiect derulat*		*Director proiect*		*Anul obținerii/ derulării*
	Nr. Înregistrare	*Denumire*	*Nume*	*Prenume*	
1.	3569/13.03.2023	Raport etapa contract 2(4879)/2021 – comanda 10	CIUBOTARIU	Vlad-Andrei	2023
2.	9198/14.06.2023	Raport etapa contract 2(4879)/2021 – comanda 11	CIUBOTARIU	Vlad-Andrei	2023

10. Brevete / Produse cu drept de proprietate intelectuală

Nr. crt	*Anul*	*Autor(i)*	*Titlul / număr pagini*	*Date de identificare*
1.				

11. Teze de doctorat susținute

Nr. crt	*Anul*	*Autor*	*Îndrumător*	*Titlu*
1.	2023	TATARU V. LAURENȚIU	Prof. univ. dr. ing. Dr. h. c. Valentin NEDEFF	Studii și cercetări cu privire la utilizarea membranelor organice din fibre goale din pan, în procesul de ultrafiltrare al apei
2.	2023	Lavinia MISAILA (DARIE) (OM 5081/2023)	Prof. univ. dr. Adriana-Luminița FÎNARU	Studiu privind calitatea, importanța și posibilitățile de valorificare a apelor minerale din zona Slănic Moldova

Sinteza activității de cercetare pe anul 2023

Indicatorul	**Realizări**
Număr cadre didactice la 01.01.2023	**54**

1. Număr de proiecte de cercetare/dezvoltare depuse în competiţii naţionale în calitate de coordonator	**10**
2. Număr de proiecte de cercetare/dezvoltare depuse în competiţii internaţionale	**0**
3. Număr de proiecte de cercetare/dezvoltare câştigate în competiţii naţionale în calitate de coordonator	**9**
4. Număr de proiecte de cercetare/dezvoltare câştigate în competiţii internaţionale	**0**
5. Valoarea contractelor de cercetare derulate în 2023, aferente UBc (RON)	
6. Numărul contractelor de cercetare/dezvoltare derulare în 2023	**24**
7. Număr de teze de doctorat susţinute în UBc	**2**
8. Articole publicate în reviste recunoscute la nivel internaţional, cotate/indexate ISI (fracţiuni corespunzătoare cerc. UBc şi număr întreg lucrări)	**29 lucrări** **Fracțiune ING. 15,06** **Fracțiune UVAB 16,12**
9. Recenzii ISI	**0**
10. Articole publicate în reviste internaţionale necotate ISI, dar indexate BDI	**19 lucrări**
11. Lucrări publicate în volumele conferinţelor internaţionale, indexate ISI / organizate de societăţi profesionale internaţionale (proceedings ISI)	**2**
12. Articole publicate în alte reviste*	**0**
13. Cărţi /capitole publicate în edituri naţionale, recunoscute CNCS	**10**
- pagini	**2104**
14. Cărţi/ capitole publicate în edituri internaţionale, de prestigiu	**0**
- pagini	**0**
15. Brevete / Produse cu drept de proprietate intelectuală	**0**
16. Alte activităţi de cercetare considerate relevante	**89 participări la conferinţe internaţionale** **2 rapoarte ştiinţifice de cercetare**

DECAN,
Conf.dr.ing. Mirela PANAINTE-LEHĂDUŞ

Prodecan responsabil cu managementul cercetării ştiinţifice şi relaţii internaţionale,
Conf. univ. dr. ing. Narcis BÂRSAN