

Nr. Crt.	Cărți si capitole în cărți publicate în ultimii 5 ani
1.	Platon M.A., Nemeș O., Tiuc AE., Vasile O. , Paduretu S., <i>Phono-Absorbent Behavior of New Fiberglass Plates from Mixed Plastic Material Wastes</i> , Book Chapter, Advanced Structured Materials, 2021, 149, pp. 67–76, Publisher: Springer Nature, Source type: Book Series, ISSN 1869-8433, DOI 10.1007/978-3-030-68277-4_5 (SCOPUS - indexed)
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3.	Mihaela Pricope, Cristina-Mihaela Nistor, Mirela-Sanda Sălván, Aspecte interculturale în predarea și învățarea limbii române ca limbă străină, Editura Universitară, București, 2021, ISBN 978-606-28-1323-9, 206 p. cod CNCSIS 180
4.	Andrea MARCONI, Anita MONTAGNA, Paulina SPANU , Mihaela Elena ULMEANU, Cristian Vasile DOICIN, Erika VAIGINIENÉ, John BETHANIS, Nikolaos KOKOSIS . <i>Academic civic commitment through Public Engagement in the Third Mission</i> . Egregius Editorial, Seville – 2023 .ISBN: 978-84-1177-035-4, 168 pg
5.	Barradas, R., Lencastre, J. A., Bento, M., Soares, S., & Valente, A. Paulina SPANU ... Robots in Action . CIEd/IE/UMinho. ISBN 978-989-8525-78-9 https://robotsforstem.e/io6/ (2023) 327 pag
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7.	José Alberto LENCASTRE, Paulina SPÂNU , Güliden İLIN, Panos MILIOS, Marco BENTO, <i>Mobile Robotics</i> ,Printed in Istanbul, Turkey at Öz Karacan Printers and Binders, Güneşli, Bağcılar,İstanbul, ISBN : 978-605-70651-1-7, pag 192,2022"
8.	José Alberto LENCASTRE, Paulina SPÂNU , Güliden İLIN, Panos MILIOS, Marco BENTO, <i>Gaming in Action</i> , Printed in Istanbul, Turkey at Öz Karacan Printers and Binders, Güneşli, Bağcılar,İstanbul, ISBN : 978-605-70651-0-0, pag 259,2021"
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10.	Andrea MARCONI, Anita MONTAGNA, Paulina SPANU , Mihaela Elena ULMEANU, Cristian Vasile DOICIN, Erika VAIGINIENÉ, John BETHANIS, Nikolaos KOKOSIS . <i>Academic civic commitment through Public Engagement in the Third Mission</i> . Egregius Editorial, Seville – 2023 .ISBN: 978-84-1177-035-4, 168 pg

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12.	A. PENA – Programarea mașinilor-unelte, ed. BREN, ISBN 978-606-610-321-3, 2024
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2.	Barta D.G., Simion I., Tiuc, A.E., Vasile O. , Mycelium-Based Composites as a Sustainable Solution for Waste Management and Circular Economy, MATERIALS, Vol. 17, Issue 2, Article Number 404 Published JAN 2024, DOI: 10.3390/ma17020404, WOS:001151064400001, 2023 Impact Factor = 3,1
3.	Vasile O. , Bugaru M., A New Modeling Approach for Viscous Dampers Using an Extended Kelvin-Voigt Rheological Model Based on the Identification of the Constitutive Law's Parameters, COMPUTATION, Vol.: 11, Issue: 1, Article Number: 3, DOI: 10.3390/computation11010003, Published: JAN 2023, Accession Number: WOS:000917110700001, 2022 Impact Factor = 2,2
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7.	Bugaru M., Vasile O. , A New Robust Method to Investigate Dynamic Instability of FTV for the Double Tripod Industrial Driveshafts in the Principal Parametric Resonance Region, APPLIED SCIENCES-BASEL, Vol. 12, Issue 12, 2022, Article Number 6182, DOI: 10.3390/app12126182, eISSN 2076-3417, WOS: 000818408300001, 2021 Impact Factor = 2,838
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12.	Hatiegan C., Gillich G.R., Vasile O. , Hamat C.,Stroia M.D., Predus M.F., Improved Mathematical Relation of The Modal Shapes of Thin Rectangular Plates, Romanian Journal of Acoustics and Vibration, Vol. 19, Issue 2, pp. 157-163, 2022, ISSN: 1584-7284, Accession Number: WOS:000957119200002; 2022 Impact Factor = 0,4
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27.	Vasile O. , Bugaru M., <i>Approaches to Velocity-Dependent Viscous Dampers</i> , Proceedings of the 10 th International Conference from “Scientific Computing to Computational Engineering”, 10 th IC-SCCE, Athens, 6-9 July, 2022, ©LFME, ISSN 2241-8865, ISBN 978-618-84028-4-3, pp. 23-30.
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Nr. crt.	Brevete obținute în întreaga activitate					
1.	Denes T., Tamas-Gavrea D., Istoan R., Tiuc A.E., Manea D.L., Vasile O. , <i>Modular panel based on sheep's wool and method of obtaining it</i> , Patent Number(s): RO135991-A0, “Modular panel, has individual laminated panels including core formed by mechanical spraying of wool fibers with solution based on hydrated lime, wheat flour and water, and outer layer formed by mixing fibers with hydrated lime in vessel”; Derwent Primary Accession Number: 2022-E5572B; International Patent Classification: E04B-001/82specifically with respect to sound only INFO 6953; Publ. Date: 30.09.2022					
2.	Procedeu si instalatie de obtinere electrochimica a unui material compozit cu matrice metalica, Arghirescu Marius, Costoiu Mihnea, Semenescu Augustin, Avram Vasile, Burada Marian, Militaru Nicolae Gheorghe, Amza Catalin Gheorghe, Chivu Oana Roxana, RO 1328167 /2020					
3.	Propunere brevet: 137455 A0 (51) B64G 1/22 (2006.01) (21) a 2022 00784 (22) 29/11/2022 (41) 30/05/2023//5/2023 (71) UNIVERSITATEA POLITEHNICA DIN BUCUREȘTI, SPLAIUL INDEPENDENȚEI NR.313, SECTOR 6, BUCUREȘTI, B, RO (72) Anania Florea Dorel, Bișu Claudiu Florinel, Zapciu Miron, Pupăză Cristina, Bălan Emilia, Stoica Marilena, Pena Andra- Elena , Georgescu Luminița- Elena, Alexandru Tudor, Cuciureanu Dan, Sistem de deschidere cu control pasiv al cuplului de deschidere și preluarea dilatațiilor termice la deschiderea panourilor din construcția micro-sateliților					
Contracte de cercetare						
Anul	Denumirea contractului și programului de finanțare	Tipul finanțării (Nationala/ Internaționala	Nr. contract	Instituția coordonatoare	Nume director proiect	Perioada de derulare
2021	Enhancing Career and Service Learning in Higher Education ENHANCE Erasmus+	International	2021-1-ES01-KA220-HED-000031128	UNIVERSIDAD DE VALLADOLID, Spania	SPÂNU Paulina	2021 – 23
2021	Reinforcing Non-University Sector at the Tertiary Level in Engineering and Technology to Support Thailand Sustainable Smart Industry (ReCap4.0) Erasmus+ Capacity Building in the field of Higher Education (CBHE)	International	619325-EPP-1-2020-1-TH-EPPKA2-CBHE-JP	Asian Institute of Technology (AIT), Thailanda	DIJMĂRESCU Manuela Roxana	2021 - 24

2021	"PROTECT – PROMoting Transformative and Environmental Competences using Technology Erasmus+	International	2021-1-IT02-KA220-SCH-000032800	ANTARES Società per lo Sviluppo dei Sistemi Organizzativi a r.l. - Italia	TARBĂ Ioan Cristian	2021 – 24
2021	Proiectarea și asamblarea unor paleți agabaritici pentru automatizarea unei linii de fabricație industriale	Nationala	1/2021	UNSTPB	ABAZA Bogdan	2021
2022	Advanced e-Learning for Cultural Heritage Restorers Specialisation Erasmus+	International	2021-1-IT01-KA220-VET-000028100	Associazione "ARTE E FEDE", Italia	SAVU Tom	2022 – 24
2022	Misura dell'Efficacia con lo storytelling conversazionale Erasmus+	International	2022-1-IT02-KA210-ADU-000084330	MATTERS SRL, Italia	SAVU Tom	2022 – 24
2022	High Professional Skills for Advanced Science Communication Erasmus+	International	22022-1-IT01-KA220-VET-000086033	Fondazione IDIS-Città della Scienza, Italia	SAVU Tom	2022 – 25
2023	FLAWS - Further Learning, Outreach and Working Skills Erasmus+	International	2022-1-TR01-KA220-YOU-000089240	ISKUR CARSAMBA HIZMET MERKEZI MUDURLUGU, Turcia	SPÂNU Paulina	2023 – 24
2023	High Intelligent Tutoring System for the academic success (HITS) Erasmus+	International	2023-1-IT02-KA220-HED-000152340	UNIVERSITA DEGLI STUDI DI CAMERINO, Italia	SPÂNU Paulina	2023 – 26
2023	Cercetări privind proiectarea și realizarea unor componente de matrițe pentru îndoirea unor terminale pentru conexiuni electrice	National	1 / 20 iulie 2023	POLITEHNICA București	Lazăr Marius-Vali	20.07.2023-31.12.2024
2024	Contract de prestări servicii de cercetare	National	01/04/2024	POLITEHNICA București	Lazăr Marius-Vali	01.04.2024-31.12.2027
2024	DREAMER - Development and Reconstruction Empowerment through Advanced Project Management Education and Research Erasmus+	International	2024-1-SK01-KA220-HED-000248287	Slovak University of Technology in Bratislava (STUBA) - Slovakia	TARBĂ Ioan Cristian	2024 - 27
2023	Model inteligent de monitorizarea a vibrațiilor cu integrarea automata a diagnosticării defectelor	Națională	Contract ARUT nr.60	POLITEHNICA București	Conf.dr.ing. Claudiu BÎȘU	2023-2024

	arborilor principali de turatii mari in contextul digitalizarii industriale					
2021	Cercetarea conformității fabricației unor repere din material plastic obținute prin injecție în matriță Contract cu terți	Națională	SPETROMAS SRL Contract nr. 17808/24.09.2021	POLITEHNICA București	Conf.dr.ing. Dana TILINĂ	09.2021 10-2021
2020	Prelucrarea materialelor avansate pe bază de aliaje de Ti și Co prin microgăurire electroerozivă asistată de ultrasunete/ UEFISCDI/ Programul 2 – Creșterea competitivității economiei românești prin cercetare, dezvoltare și inovare	Nationala	329 PED/ 2020	UNSTPB	Liviu Daniel Ghiculescu	
2022	Dezvoltarea și producerea de orteze de mână imprimate 3D în punctele de îngrijire și recuperare medicală/ UEFISCDI/ Programul 4 – Cercetare fundamentală și de frontieră	Nationala	PCE 94/ 2022	UNSTPB	Popescu Diana	
2023	Automatizarea unui flux logistic de asamblare/ UNSTPB	Nationala	ARUT 110/ 04.12.2023	UNSTPB	Chiscop Florina	
2023	Sistem automatizat de	Nationala	ARUT 139/	UNSTPB	Popa	

	colectare separată a deșeurilor de echipamente electrice și electronice/ UNSTPB		04.12.2023		Laurentiu	
2023	Creșterea vitezei și preciziei de asamblare prin procesarea video a imaginii/ UNSTPB	Nationala	ARUT 48/ 10.10.2023	UNSTPB	Parpala Radu Constantin	
2023	Automatizarea montajului de fuzibile și relee în cutiile din cablaje/ UNSTPB	Nationala	ARUT 50/ 10.10.2023	UNSTPB	Cazacu Carmen-Cristiana	
2020-2024	Improving Cancer Diagnostics in Flexible Endoscopy using Artificial Intelligence and Medical Robotics (IDEAR)	Internațională RomâniaNorvegia	RO-NO 2019-0138	UNIVERSITA TEA DIN CRAIOVA	Pastramă ȘtefanDan	
2020-2023	Reactive Inkjet Printing of Epoxy Thermoset Composites (RIPE4TEC)	Internațională Orizont 2020	M.ERANET 167/2020	JOANNEUM RESEARCH (AUSTRIA)	Constantinescu Dan-Mihai	
2020-2023	Sistem inteligent mobil de conversie a resurselor proprii și de optimizare a consumului de energie pentru producători cu potențial ridicat de poluare (SyCON)	Națională Program Operațional Competitivitate 2014-2020	POC/163/1 /3/121404	AUDIT IT&C SRL	Hadăr Anton	
2020	Research of Two Aetna Standard Piercing Mills to Determine Their Load Capability	Națională	Contract de Prestări Servicii Nr. 9620 / 03.06.2020 (nr. Intern 8450 / 17.06.2020)	IPROLAM S.A.	Sorohan Ștefan	

2021	Studiul stării de tensiune și deformație cu metoda elementelor finite a trei capete de extruzie de 3000 tf	Națională	Contract de Prestări Servicii Nr. 11291/21.0 6.2021	IPROLAM S.A.	Baciu Florin	
2022	Testarea rezistenței la rupere a 4 epruvete fabricate din material compozit de TiC cu matrice metalica de Inconel 718	Națională	Contract de Prestări Servicii Nr. 26864/14.1 1.2022	INCDFLPR	Baciu Florin	
2022	Studiul stării de tensiuni si deformație cu metoda elementelor finite a trei capete de extruzie de 3000 tf	Națională	Contract de Prestări Servicii Nr. 11291/21.0 6.2021	IPROLAM S.A.	Baciu Florin	
2022	Teste de vibrații pe componenta din domeniul aerospacial	Națională	Contract de Prestări Servicii 1264/08.04. 2022	S.C. High Performance Structures Inovație și Dezvoltare SRL	Apostol Dragoș Alexandru	
2022-2023	Testarea unui element elastic la frecvența de 0,5 Hz, supus unei mișcări unghiulare de ± 300 un număr de 106 cicluri Testarea unui element elastic la mișcarea pe verticală a acestuia pe o cursă de 7,5 mm cu o frecvența de 20 Hz un număr de 107 cicluri	Națională	Contract de Prestări Servicii Nr. 26863/14.1 1.2022	S.C. TECNA GENERAL CONSTRUCT S.R.L.	Baciu Florin	
2024	Studiu privind evaluarea deformațiilor specifice cu mărci tensometrice la încercarea la încovoiere a 4 (patru) grinzi de poduri la viaductele de acces pod Brăila	Națională	Contract de Prestări Servicii Nr. 24006/10.0 5.2024 (Nr. intern UPB: 1550/10.05. 2024)	INCERTRANS S.A	Ciolcă Miruna	
2024	Studiu privind evaluarea deformațiilor	Națională	Contract de Prestări Servicii Nr.	INCERTRANS S.A	Ciolcă Miruna	

	specifice cu marci tensometrice la încercarea la încovoiere a 6 (șase) grinzi prefabricate de beton, amplasate pe stand, din cadrul Proiectului “Autostrada A1 Lot 5 Pitești – Curtea de Argeș”		24009/29.10.2024 (Nr. intern UPB: 33285/18.10.2024)			
2024	Studiu privind evaluarea stării de tensiune a structurii de rezistență a unei caje nou proiectate de laminor	Națională	Contract de Prestări Servicii nr. 9781 / 13.05.2024 (Nr. intern UNSTPB: 9129 / 20.05.24)	IPROLAM S.A.	Neagoe Cătălin	
2024	Testarea la tracțiune a unor epruvete de aluminiu	Națională	Contract de Prestări Servicii 4956 /18.03.2024	S.C. High Performance Structures Inovație și Dezvoltare SRL	Constantinescu Dan-Mihai	
2024	Testarea la oboseală a unor epruvete de aluminiu	Națională	Contract de Prestări Servicii 4957 /18.03.2024	S.C. High Performance Structures Inovație și Dezvoltare SRL	Constantinescu Dan-Mihai	
2024	Testarea la tracțiune a unor epruvete de carbon	Națională	Contract de Prestări Servicii nr 4958/18.03. 2024	S.C. High Performance Structures Inovație și Dezvoltare SRL	Constantinescu Dan-Mihai	
2021	Virtual & Augmented Reality Trainers Toolbox To Foster Low Carbon Tourism & Related Entrepreneurship (VINCI) ERASMUS+ , KA2 Strategic partnership	Internationala	2021-1MT01KA220-VET-000025011	MECB Ltd.	Prof.univ.dr.ing. Catalin Gheorghe Amza	2022-2024
2021	EuropeAn 3d printinG poLymer opErators (EAGLE) ERASMUS+ , KA2 Strategic partnership	Internationala	2021-1CZ01KA220-VET-000033007	Evropská rozvojová agentura, s.r.o. , Cehia	Prof.univ.dr.ing. Catalin Gheorghe Amza	2021-2024

2021	“A Modular VR & AR Based Educational Toolkit To Help EU Adults Foster Climate Neutral Practices (VITAL) ERASMUS+ , KA2 Strategic partnership	Internationala	2021-1CZ01KA220-ADU-000026532	Palacký University Olomouc, Cehia	Prof.univ.dr.ing. Catalin Gheorghe Amza	2022-2024
2022	Studii de caz privind evaluarea riscurilor de Securitate și Sănătate în Muncă, în cadrul SC GENERAL PUBLIC SERV SA /Contracte cercetare terți	Nationala	83	POLITEHNICA Bucuresti	S.l.dr.ing. Dumitriu Loredana	2022
2022	Solutii constructive alternative pentru realizarea produselor de tip tija utilizate in industria agricola, in cadrul SC SMART BYTE SOFT SRL /Contracte cercetare terți	Nationala	15	POLITEHNICA Bucuresti	Conf.dr.ing.Dumitru Titi Cicic	2022
2023	Studii de caz Designul identității grafic-vizuale a noului site e-dermashop pentru EXPERT COSMETICS S.R.L. /Contracte cercetare terți	Nationala	7	POLITEHNICA Bucuresti	Ș.L.Dr. Ing. Ioana-Cătălina ENACHE	2023
2023	Designul identității grafic-vizuale” pentru S.C. INDAR TECH SRL /Contracte cercetare terți	Nationala	8	POLITEHNICA Bucuresti	S.l. Dr. Ing. Ana-Maria NICOLAU	2023
2023	Cercetari teoretice si experimentale privind elaborarea unor proceduri de reparatie/incarcare prin sudare,	Nationala	76	POLITEHNICA Bucuresti	Conf.univ.dr.ing. Dumitru Titi Cicic	2023

	respectiv infiintarea unui laborator de sudare in cadrul firmei SC Arva Metals & Steels SRL /Contracte cercetare terti					
2023	“Enabling Industry 4.0 skills in textile SMEs” – TEX4.0 ERASMUS+ KA2 Strategic partnership	Internationala	2023- 1DE02KA220- VET- 00015400 9	Technical University of Dresden, Germany	Prof.univ.dr.ing. Catalin Gheorghe Amza	2023- 2025
2024	Building Opportunities for SMEs Sustainable Entrepreneurship with Artificial Intelligence in Industry 5.0 - BOOST-AI ERASMUS+ KA2 Strategic partnership	Internationala	2024- 1RO01KA220- HED- 00024623 8	POLITEHNICA Bucuresti	Prof.univ.dr.ing. Catalin Gheorghe Amza	2024- 2026
2024	TRAINEE - Advanced MR Training foR HumAn-Centric Production EmpoweriNg Engineering TalEnt – TRAINEE ERASMUS+ KA2 Strategic partnership	Internationala	2024- 1MT01KA220- HED- 00024670 1	University of Malta, Malta	Prof.univ.dr.ing. Catalin Gheorghe Amza	2024- 2027
2024	Studiu privind sanatatea si securitatea in munca pentru mediul de lucru al unui operator distributie echipamente industriale /Contracte cercetare terti	Nationala	41	POLITEHNICA Bucuresti	Prof.univ.dr.ing Oana Roxana Chivu	2024
2021	"Proiectarea si optimizarea	Nationala		POLITEHNICA Bucuresti	S.l.univ.dr.ingFlo rea Bogdan	2021

	constructiva a unei hale industriale folosite la vopsirea in camp electrostatic					
2021	"Aprecierea calitatii arborilor pe picior prin metode nedestructive"	Nationala	12946	POLITEHNICA Bucuresti	S.L. Petriceanu Constantin Stefan	2021
2021	"Controlul la receptie al produselor importate"	Nationala	14894	POLITEHNICA Bucuresti	S.L. Petriceanu Constantin Stefan	2021