

UNIVERSITATEA PETROL - GAZE DIN PLOIEȘTI
FACULTATEA INGINERIE MECANICĂ ȘI ELECTRICĂ
DEPARTAMENTUL INGINERIE MECANICĂ

Examen de promovare în cariera didactică pe postul de conferențiar, poz. 18
 Disciplinele postului: Mecanică, Mecanică 1, Mecanică 2

Domeniul 17: Inginerie Mecanică, Mecatronică și Robotică

FIȘA DE VERIFICARE – Șef lucr. dr. ing. Maria Tănase

a îndeplinirii standardelor universității de prezentare la examenul de promovare în cariera didactică pe postul de
Conferențiar

1. Studiile de doctorat/Statutul de student - doctorand

Nr. crt.	Instituția organizatoare de doctorat	Domeniul	Perioada	Titlul științific acordat
1.	Universitatea Petrol-Gaze din Ploiești	Inginerie Mecanică	2011-2015	Doctor conform Ordinul Ministrului Educației și Cercetării nr 3209/23.02.2016

2. Îndeplinirea standardelor minimale (conform Anexei 17 – Ordin nr. 6129/2016 din 20 decembrie 2016)

Nr. crt.	Domeniul activitatilor	Rezultatele activitatilor	Subcategoriile		Indicatori realizați	Condiții minimale și obligatorii Conferențiar		
1	Activitate didactica si profesionala - DID (A1)	Manuale suport de curs (conform fisei disciplinei de concurs)	A1.1	Format tiparit/electronic [1]/(min. 100 pag.)	Coordonator/ prim autor	N1 = 2 N1.1 = 2	2 0	
					Co-autor	N1.2 = 0	0	
				Format electronic disponibil pe Platforma universitatii /departamentului (autor)		N1.3 = 1	1	
		Material didactic/Dezvoltare laboratoare, aplicatii	A1.2	Standuri laborator (constructie modernizari) certificate de directorul de departament		N2 = 5 N2.1 = 2	3 1	
Indrumar laborator/carte aplicatii format tiparit sau electronic (autor, co-autor)				N2.2 = 3	-			
Aplicatii informatice educationale				N2.3 = 0	-			
2	Activitate decercetare stiintifica, dezvoltare tehnologica si inovare - CDI (A2)	Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS) [2], unde n=nr.de autori si FI este factorul de impact [3]	A2.1	Autor corespondent/ prim autor	$n \leq 3$	P1+P2=111,41 P1= 111,41 P1.1 = 34,2	5 3 -	
					$n \geq 4$	P1.2 = 62,04	-	
				Co-autor	$n \leq 3$	P1.3 = 2	-	
					$n \geq 4$	P1.4 = 13,17	-	
				A2.2	Autor corespondent/ prim autor		N3 = 12 N3.1 = 9	8 3
					Co-autor		N3.2 = 3	-

		Brevete de inventii indexate [5]	A2.3	Internationale indexate in Web of Science-Derwent Innovation	$n \leq 3$	P2 = 0	-
					$n \geq 4$	P2.1 = 0	-
			Nationale indexate OSIM	$n \leq 3$	P2.2 = 0	-	
				$n \geq 4$			
		Produse, tehnologii, platforme si servicii inovative (validate conform procedurilor specific unitatilor de invatamant superior sau de cercetare)	A2.4	Coordonator/prim autor	N4 = 1 N4.1 = 0	1 -	
				Co-autor	N4.2 = 0	-	
Monografii/carti de specialitate [2], format tiparit/electronic (min.100 pag.)	A2.5	Coordonator/prim autor	N4.3 = 0	-			
		Co-autor	N4.4 = 1	-			
3	Recunoaster e și impactul activitatii - RIA (A3)	Atragere resurse financiare prin granturi/proiecte/contracte terti	A3.1	Director sau responsabil partener la grant/ proiect castigat prin competitie nationala sau internationala	S=S1+S2 S = 28,988 S1 = 7,600	10	
				Membru in echipa la grant/proiect castigat prin competitie nationala sau internationala, proiecte /contracte terti	S2 = 21,388	-	
		Prezentarea/Diseminarea rezultatelor: prezenta la manifestari stiintifice în calitate de autor/coautor de lucrari, profesor invitat	A3.2	Congrese/conferinte/workshopuri internationale, profesor invitat la universitati/institute din strainatate		N5 = 12	5
				Citari in publicatii BDI [5] (se exclud autocitarile)	A3.3	C1 = numarul de citari SFI WOS = suma factorilor de impact al publicatiilor WOS in care apar citarile	

Note:

[1] Publicația este înregistrată în fondul de carte al bibliotecii naționale sau al bibliotecilor universităților respective.

[2] Se exclud publicațiile conferințelor DAAAM și WSEAS.

[3] FI este factorul de impact al revistei la data înscrierii la concurs sau la data publicării articolului (cel mai avantajos pentru candidat). Se iau în considerare la această categorie numai revistele cu factor de impact la data publicării articolului. O revistă WOS este echivalentă cu o revistă cotate ISI cf. Ordinului de Ministru (MECTS) Nr. 4478 din 23 iunie 2011, publicat în Monitorul Oficial, Partea I, Nr. 448/27.VI.2011.

[4] Bazele de date BDI acceptate sunt: Web of Science Thomson Reuters (WOS) și SCOPUS.

[5] Un brevet se poate încadra la o singură categorie.

[6] Suma din grant/proiect încasată de instituție repartizată echipei din care directorul de grant/responsabil partener face parte (S1 include cheltuieli de: personal, logistică, deplasări, indirecte).

[7] Suma din grant/proiecte câștigate prin concurs național/internațional și proiecte/contracte terți încasată de instituție și repartizată de director/responsabil persoanei respective (S2 include cheltuieli de: personal, logistică, deplasări, indirecte).

[8] Pentru contractele derulate înainte de 01.01.1999 se va considera echivalarea: 1 EURO = 1 \$ USA

Condiții minimale și obligatorii

Domeniul de activitate		Indicatori	Conferențiar	Profesor	CSII	CSI
Activitatea didactică/profesională (A1)	A1.1	N1	2	2	Nu se aplică	Nu se aplică
		N1.1	0	1		
		N1.3	1	1		
	A1.2	N2	3	4		
		N2.1	1	2		
Activitatea de cercetare (A2)	A2.1 + A2.3	P1+P2	5	10	5	10
		P1	3	6	3	6
	A2.2	N3	8	10	8	10
		N3.1	3	5	3	5
	A2.4 + A2.5	N4	1	2	1	2
N4.3		0	1	0	1	
Recunoașterea impactului activității (A3)	A3.1	S1 + S2	10	50	10	50
	A3.2	N5	5	10	5	10
	A3.3	C	10	25	10	25

unde:

$P1 = P1.1 + P1.2 + P1.3 + P1.4$; $P2 = P2.1 + P2.2$;

$N1 = N1.1 + N1.2$; $N2 = N2.1 + N2.2 + N2.3$; $N3 = N3.1 + N3.2$;

$N4 = N4.1 + N4.2 + N4.3 + N4.4$.

**JUSTIFICARE
A INDICATORILOR**

1. Activitate didactică și profesională - DID (A1)

A1.1. Manuale suport de curs - Format tiparit/electronic - Coordonator/prim autor

Nr. crt.	Cărți publicate (autori,denumire)	Nr. Pag.	Indicator
1.	Maria Tanase , ELEMENTS OF THEORETICAL MECHANICS, LAP LAMBERT Academic Publishing, Germany, 2020, 164 pag ISBN 978-620-3-19388-6 https://my.lap-publishing.com/catalog/details/store/fr/book/978-620-3-19388-6/elements-of-theoretical-mechanics?locale=tr	164	N1.1= 1
2	MARIA TĂNASE , MECANICĂ TEORETICĂ. NOTE DE CURS ȘI APLICAȚII, Editura Universității Petrol-Gaze din Ploiești 2021, ISBN 978-973-719-818-1 https://drive.google.com/file/d/1e8cMIF3sZRi_27QuBDHJrYB6ReG240nB/view	391	N1.1=1
Total indicator N1.1 =			2

A1.1. Manuale suport de curs - Format tiparit/electronic - Co-autor

Nr. crt.	Cărți publicate (denumire)	Nr. Pag.	Indicator
1.			
Total indicator N1.2 =			0

A1.1. Manuale suport de curs - Format electronic disponibil pe Platforma universității/departamentului (autor)

Nr. crt.	Cărți publicate (denumire)	Nr. pag	Indicatori
1.	Tanase Maria , Mecanica, Platforma e-learning a Universității Petrol-Gaze din Ploiești, https://didfr.upg-elearning.ro/ , 2024	100	N1.3=1
Total indicator N1.3 =			1

Total punctaj indicator N1=N1.1+N1.2 N1 =2+0=2; N1.3 = 1

Total punctaj indicator A1.1=N1.1+N1.2+N1.3=3

A1.2 Material didactic/Dezvoltare laboratoare, aplicații - Standuri laborator (construcție/modernizări)

Nr. crt.	Dezvoltare standuri laborator pentru activități didactice/cercetare	Indicatori
1.	Maria Tănase , Iulian Patirnac, Stand pentru determinarea teoretică și experimentală a eforturilor din barele unei structuri plane de tip grindă cu zăbrele, Laboratorul de Mecanică, Sala EII7, 2024	N2.1=1
2.	Iulian Patirnac, Maria Tănase , Stand pentru determinarea teoretică și experimentală a eforturilor secționale și a forțelor de legătură din barele unei structuri plane de tip grindă cu zăbrele, Laboratorul de Mecanică, Sala EII7, 2024	N2.1=1

Total indicator N2.1 = 2

**A1.2 Material didactic/Dezvoltare laboratoare, aplicații - Îndrumar laborator/carte aplicații format tipărit sau electronic
(autor, co-autor)**

Nr. crt.	Carti publicate (denumire)	Nr. pag	Indicatori
1.	Alexandru Popa, Alexandru Pupazescu, Maria Tanase , Lucări experimentale de mecanică, Editura Universitatii Petrol Gaze din Ploiesti, 2017, 239 pag, ISBN 978-973-719-700-9 (79) https://drive.google.com/file/d/1gzK0r33-3VNSW5hsZPja73nQ-4-y8FCN/view	79	N2.2=1
2.	MARIA TĂNASE, IULIAN PĂTÎRNAC, APLICAȚII DE MECANICĂ TEORETICĂ. Statica, Editura Universității Petrol-Gaze din Ploiești 2022, ISBN 978-973-719-855-6 (93 pag) https://drive.google.com/file/d/1Vw58i9bPnvFdUDW-X59RKrf6IGwiy9oE/view	46	N2.2=1
3.	MARIA TĂNASE, IULIAN PĂTÎRNAC, APLICAȚII DE MECANICĂ TEORETICĂ. Cinematica și dinamica, Editura Universității Petrol-Gaze din Ploiești 2022, ISBN 978-973-719-864-8 (109 pag) https://drive.google.com/file/d/1NfOjBqOPHRFeHJURZAhcj23e-wRqq2Y5/view	54	N2.2=1
Total indicator N2.2 =			3

A1.2 Material didactic/Dezvoltare laboratoare, aplicații - Aplicație informatică educațională

Nr. crt.	Aplicație informatică educațională	Indicatori
1.		N2.3=0
Total indicator N2.3 =		0

Total punctaj indicator N2=N2.1+N2.2+N2.3; N2 = 2+3+0=5

**2. Activitate de cercetare științifică, dezvoltare tehnologică
și inovare-CDI (A2)**

A2.1 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS), unde n = nr.de autori și FI este factorul de impact - autor corespondent/prim autor, n ≤ 3

Nr. crt.	Denumire articol	Factor de Impact FI	Realizat P1.1=2(0,2+FI), n ≤ 3
1.	Zisopol, D.G.; Tănase, M. ; Portoacă, A.I. Innovative Strategies for Technical-Economical Optimization of FDM Production. <i>Polymers</i> 2023 , 15, 3787, doi: 10.3390/polym15183787 WOS:001078224400001 (autor corespondent)	4,7	9,8
2.	Ramadan, I.; Tanase, M. Experimental Study Regarding the Influence of Welding Parameters on the Mechanical Behavior of High Density Polyethylene Pipes. <i>Mater. Plast.</i> 2021 , 57, 209–215, doi: 10.37358/MP.20.4.5420 WOS:000617344900020 (autor corespondent)	0,6	1,6
3.	Portoaca A; Tanase M Exploring Shore D Hardness Variations Under Different Printing Conditions and Post-Processing Treatments. <i>Jordan Journal of Mechanical and Industrial Engineering</i> 2024, 18, 421–429, doi: 10.59038/jjmie/180214 WOS:001246670000014 (autor corespondent)	1,7	3,8
4.	Ibrahim Ramadan, Maria Tanase Experimental Study Regarding the Mechanical Behavior of PPR Pipes, <i>Materiale Plastice (Mater. Plast.)</i> , Year 2022, Volume 59, Issue 2, 32-39 https://doi.org/10.37358/Mat.Plast.1964 WOS:000831634900003 (autor corespondent)	0,6	1,6
5	Păfirnac, I.; Ripeanu, R.G.; Tănase, M. Computational Fluid Dynamics Analysis of Erosion in Active Components of Abrasive Water Jet Machine. <i>Processes</i> 2024 , 12, 1860, doi: 10.3390/pr12091860 . WOS:001322858500001 (autor corespondent)	2,8	6
6	Lvov, G.; Tănase, M. Numerical Modeling of Plasticity in Metal Matrix Fiber Composites. <i>Appl. Sci.</i> 2024 , 14, 8679. doi: 10.3390/app14198679 WOS:001332171000001 (autor corespondent)	2,5	5,4
7	Tănase, M. A Comprehensive Synthesis on Analytical Algorithms for Assessing Elastic Buckling Loads of Thin-Walled Isotropic and Laminated Cylindrical Shells. <i>Processes</i> 2024 , 12, 2120. doi: 10.3390/pr12102120 WOS:001342785300001	2,8	6
Total indicator P1.1 =			34,2

A2.1 Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS), unde n=nr.de autori si FI este factorul de impact - autor corespondent/prim autor, n ≥ 4

Nr. crt.	Denumire articol	Factor de Impact FI	Realizat P1.2 = $2 \cdot 3 \cdot (0,2 + FI) / n$, $n \geq 4$
1.	Burlacu, A.; Petrescu, M.G.; Dumitru, T.; Niță, A.; Tănase, M. ; Laudacescu, E.; Ramadan, I.; Ilincă, C. Numerical Approach Regarding the Effect of the Flight Shape on the Performance of Rotary Dryers from Asphalt Plants. Processes 2022 , 10, 2339. https://doi.org/10.3390/pr10112339 WOS:000910793200001 (autor corespondent)	2,8	2,25
2.	Diniță, A.; Ripeanu, R.G.; Ilincă, C.N.; Cursaru, D.; Matei, D.; Naim, R.I.; Tănase, M. ; Portoacă, A.I. Advancements in Fiber-Reinforced Polymer Composites: A Comprehensive Analysis. Polymers 2023 , 16, 2, doi: 10.3390/polym16010002 WOS:001140688300001 (autor corespondent)	4,7	3,67
3.	Cană, P.; Ripeanu, R.G.; Pătrnac, I.; Diniță, A.; Tănase, M. Investigating the Impact of Operating Conditions on Relief Pressure Valve Flow through CFD and Statistical Analysis. Processes 2023 , 11, 3396, doi: 10.3390/pr11123396 WOS:001130958100001 (autor corespondent)	2,8	3,6
4.	Portoacă, A.I.; Ripeanu, R.G.; Diniță, A.; Tănase, M. Optimization of 3D Printing Parameters for Enhanced Surface Quality and Wear Resistance. Polymers 2023 , 15, 3419, doi: 10.3390/polym15163419 WOS:001056403300001 (autor corespondent)	4,7	7,35
5.	Dumitru, T.; Petrescu, M.G.; Tănase, M. ; Ilincă, C.N. Multi-Response Optimization Analysis of the Milling Process of Asphalt Layer Based on the Numerical Evaluation of Cutting Regime Parameters. Processes 2023 , 11, 2401, doi: 10.3390/pr11082401 WOS:001056752000001 (autor corespondent)	2,8	4,5
6.	Petrescu, M.G.; Ripeanu, R.G.; Laudacescu, E.; Tănase, M. ; Niță, A.; Burlacu, A. Characterization of Materials Used in the Concrete Industry, from the Point of View of Corrosion Behavior. Coatings 2024 , 14, 800, doi: 10.3390/coatings14070800 WOS:001276695800001 (autor corespondent)	2,9	3,1
7.	Călin, C.; Diniță, A.; Brănoiu, G.; Popovici, D.R.; Tănase, M. ; Sirbu, E.-E.; Portoacă, A.-I.; Mihai, S. Assessment of Environmental Impact on Glass-Fiber-	4,7	

	Reinforced Polymer Pipes Mechanical and Thermal Properties. <i>Polymers</i> 2024, 16, 1779, https://doi.org/10.3390/polym16131779 WOS:001266579400001 (autor corespondent)		3,67
8.	Portoacă, A.-I.; Diniță, A.; Tănase, M. ; Săvulescu, A.; Sirbu, E.-E.; Călin, C.; Brănoiu, G. Analyzing Sustainable 3D Printing Processes: Mechanical, Thermal, and Crystallographic Insights. <i>Polymers</i> 2024, 16, 1364, doi:10.3390/polym16101364 WOS:001231651000001 (autor corespondent)	4,7	4,2
9.	Păfîrnac, I.; Ripeanu, R.G.; Popescu, C.; Tănase, M. Analysis of Water Flow through the Active Parts of an Abrasive Water Jet Machine: A Combined Analytical and CFD Approach. <i>Processes</i> 2024, 12, 1551, doi: 10.3390/pr12081551 WOS:001305246600001 (autor corespondent)	2,8	4,5
10.	Petrescu, M.G.; Dumitru, T.; Laudacescu, E.; Tănase, M. Experimental Investigation and Numerical Analysis Regarding the Influence of Cutting Parameters on the Asphalt Milling Process. <i>Materials</i> 2024, 17, 3475, doi: 10.3390/ma17143475 WOS:001276995700001 (autor corespondent)	3,1	4,95
11.	Ripeanu, R.G.; Tănase, M. ; Portoacă, A.I.; Diniță, A. Assessing the Tribological Impact of 3D Printed Carbon-Reinforced ABS Composite Cylindrical Gears. <i>Lubricants</i> 2024, 12, 376, doi:10.3390/lubricants12110376 WOS:001365651900001 (autor corespondent)	3,1	4,95
12.	Tănase, M. ; Portoacă, A.I.; Gabor, M.R.; Veres, C. Integrated Analytical, Numerical, and Statistical Analysis of Buckling Behavior in Steel Cylindrical Silos with Corrugated Walls. <i>Processes</i> 2024, 12, 2443, WOS:001365915500001 doi: 10.3390/pr12112443 .	2,8	4,5
Total indicator P1.2 =			62,04

A2.1 Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS), unde n=nr.de autori si FI este factorul de impact - co-autor, n ≤ 3

Nr. crt.	Denumire articol	Factor de Impact FI	Realizat P1.3 = 0,2+FI, n ≤ 3
1	Alin Diniță, Ibrahim Ramadan, Maria Tănase , Experimental and numerical study regarding the behavior of HDPE pipes under quasi-static point loads, <i>Journal of Pipeline Systems Engineering and Practice</i> , 2023 WOS:000899335300002 https://doi.org/10.1061/JPSEA2.PSENG-1319	1,8	2
Total indicator P1.3 =			2

A2.1 Articole si publicatii stiintifice indexate Web of Science Thomson Reuters (WOS), unde n=nr.de autori si FI este factorul de impact - co-autor, n ≥ 4

Nr. crt.	Denumire articol	Factor de Impact FI	Realizat $P1.4=3 \cdot (0,2+FI)/n$, $n \geq 4$
1.	Dumitru, T.; Petrescu, M.G.; Tănase, M. ; Laudacescu, E. The Application of Tribological Tests to Study the Wear Behavior of Asphalt Cutter Teeth: An Experimental Investigation Using Baroid Tribometer. Coatings 2023 , 13, 1251. https://doi.org/10.3390/coatings13071251 WOS:001035024800001	2,9	2,32
2.	Diniță, A.; Neacșa, A.; Portoacă, A.I.; Tănase, M. ; Ilinca, C.N.; Ramadan, I.N. Additive Manufacturing Post-Processing Treatments, a Review with Emphasis on Mechanical Characteristics. Materials 2023 , 16, 4610. https://doi.org/10.3390/ma16134610 WOS:001028524000001	3,1	1,65
3.	Niță, A.; Laudacescu, E.; Petrescu, M.G.; Dumitru, T.; Burlacu, A.; Bădoiu, D.G.; Tănase, M. Experimental Research Regarding the Effect of Mineral Aggregates on the Wear of Mixing Blades of Concrete Mixers. Materials 2023 , 16, 5047. https://doi.org/10.3390/ma16145047 WOS:001069468500001	3,1	1,41
4.	Niță, A.; Petrescu, M.G.; Dumitru, T.; Burlacu, A.; Tănase, M. ; Laudacescu, E.; Ramadan, I. Experimental Research on the Wear Behavior of Materials Used in the Manufacture of Components for Cement Concrete Mixers. Materials 2023 , 16, 2326, doi: 10.3390/ma16062326 WOS:000958446500001	3,1	1,41
5.	Petrescu, M.G.; Burlacu, A.; Isbășoiu, G.D.; Dumitru, T.; Tănase, M. Estimating the Lifetime of Rotary Dryer Flights Based on Experimental Data. Processes 2024 , 12, 993, doi: 10.3390/pr12050993 . WOS:001231318800001	2,8	1,8
6.	Petrescu, M.G.; Popovici, A.-I.; Niță, A.; Isbășoiu, D.; Dumitru, T.; Tănase, M. Modelling Wear Phenomena Specific to Mixer Blades in Concrete Production Plants. Applied Sciences 2024 , 14, 3988, WOS:001233099400001 doi: 10.3390/app14103988	2,5	1,35
7.	Sirbu, E.-E.; Dinita, A.; Tănase, M. ; Portoacă, A.-I.; Bondarev, A.; Enascuta, C.-E.; Calin, C. Influence of Plasticizers Concentration on Thermal, Mechanical, and Physicochemical Properties on Starch Films. Processes 2024 , 12, 2021, WOS:001323332300001 doi: 10.3390/pr12092021	2,8	1,28
8.	Călin, C.; Sirbu, E.-E.; Tănase, M. ; György, R.; Popovici, D.R.; Banu, I. A Thermogravimetric Analysis of Biomass Conversion to Biochar: Experimental and Kinetic Modeling. Applied Sciences 2024 , 14, 9856, doi: 10.3390/app14219856	2,5	1,35

Nr. crt.	Denumire articol	Factor de Impact FI	Realizat P1.4=3·(0,2+FI)/n, n ≥ 4
	WOS:001351032900001		
9.	Lvov, G., Pupăzescu, A., Beschetnikov, D., Zaharia, M. (2015). Buckling Analysis of a Thin-walled Cylindrical Shell Strengthened by Fiber-reinforced Polymers, MATERIALE PLASTICE, 52(1), pg. 28-31. https://revmaterialeplastice.ro/pdf/GENNADIY%20L.pdf%201%2015.pdf WOS:000351194900007	0,6	0,6
Total indicator P1.4 = 13,17			

Total punctaj indicator P1=P1.1+P1.2+P1.3+P1.4=34,2+62,04+2+13,17=

P1 = 111,41

A2.2 Articole si publicatii stiintifice BDI neincluse la A2.1 - autor corespondent/prim autor

Nr. crt.	Denumire articol	Baza de date	Realizat N3.1 =numar
1.	Ibrahim Ramadan, Maria Tănase , EXPERIMENTAL STUDY REGARDING THE CORROSION BEHAVIOUR OF HEAT EXCHANGER BRASS TUBES IN THE PRESENCE OF DIFFERENT AGGRESSIVE ENVIRONMENTS, Applied Engineering Letters, vol 6, nr 3, 2021, 124-131 (autor corespondent) https://doi.org/10.18485/aeletters.2021.6.3.5	SCOPUS	1
2.	Ilincă Costin, Tănase Maria , Analytical and numerical assessment of buckling strength of silos with corrugated walls under uniform external pressure, Asian J Civ Eng (2022). https://doi.org/10.1007/s42107-022-00423-1 (autor corespondent)	SCOPUS	1
3.	Zisopol, D.G.; Portoaca, A.I.; Tănase, M. Improving the Impact Resistance through Annealing in PLA 3D Printed Parts. Eng. Technol. Appl. Sci. Res. 2023 , 13, 11768–11772, doi: 10.48084/etasr.6281 WOS:001106870500001 (autor corespondent)	WOS	1
4.	Burlacu, A. I.; Tănase M. ; Ilincă, C.; Petrescu M. G. Optimizing the trajectory of aggregates in drying units from the asphalt plants, The 10th International Conference on Advanced Concepts in Mechanical Engineering – ACME 2022, Mechanical Engineering Faculty, in the „Gheorghe Asachi” Technical University of Iasi, Romania, 09-10 June 2022. IOP Conf. Series: Materials Science and Engineering 1262 (2022) 012003 IOP Publishing doi:10.1088/1757-899X/1262/1/012003 (autor corespondent)	SCOPUS	1
5.	Vasilescu, Ș., Ilincă, C., and Tănase, M. , “Safety Evaluation of an Industrial Derrick Supported Chimney”, Journal of The Institution of Engineers (India): Series A, vol. 104, no. 2, pp. 473–482, 2023. doi:10.1007/s40030-023-00716-x. (autor corespondent)	SCOPUS	1
6.	Maria Zaharia , Alexandru Pupazescu, Cristian Mihai Petre, Comparative study concerning the methods of calculation of the critical axial buckling load for stiffened cylindrical shells, REVISTA DE CHIMIE, 69(8), 2018, pg. 2000-2004	WOS	1

	https://doi.org/10.37358/RC.18.8.6462 WOS:000444602300016		
7.	Tanase, M. ; Zisopol, D.G.; Portoaca, A.I. A Study Regarding the Technical-Economical Optimization of Structural Components for Enhancing the Buckling Resistance in Stiffened Cylindrical Shells. Eng. Technol. Appl. Sci. Res. 2023 , 13, 11511–11516, doi: 10.48084/etasr.6135 WOS:001106870500015	WOS	1
8.	Razvan George Ripeanu, Alin Dinita, Maria Tanase , Alexandra Ileana Portoaca, Experimental Investigation on Corrosion Resistance and Tribological Properties of Steel Coated with Glass-Reinforced Polymer, Tribology and Materials, 2024, doi: https://doi.org/10.46793/tribomat.2024.010 . (autor corespondent)	SCOPUS	1
9.	Alexandra-Ileana PORTOACA, George-Razvan RIPEANU, Ion NAE, Maria TANASE , The influence of 3d printing parameters and heat treatment on tribological behavior. ACTA TECHNICA NAPOCENSIS 2023 , 66, 537–546. WOS:001267255200037 (autor corespondent) https://atna-mam.utcluj.ro/index.php/Acta/article/view/2329	WOS	1
Total indicator N3.1 =			9

A2.2 Articole si publicatii stiintifice BDI neincluse la A2.1 - co-autor

Nr. crt.	Denumire articol	Baza de date	Realizat N3.2 = numar
1.	Dumitru, T.; Ilincă, C; Tănase, M. Influence of technological parameters on the behaviour in operation of the asphalt milling equipment, The 10th International Conference on Advanced Concepts in Mechanical Engineering – ACME 2022, Mechanical Engineering Faculty, in the „Gheorghe Asachi” Technical University of Iasi, Romania, June 09 – 10, 2022 IOP Conf. Series: Materials Science and Engineering 1262 (2022) 012018 IOP Publishing doi:10.1088/1757-899X/1262/1/012018	SCOPUS	1
2.	Zisopol, D.G.; Portoaca, A.I.; Tanase, M. Dimensional Accuracy of 3D Printed Dog-Bone Tensile Samples: A Case Study. Eng. Technol. Appl. Sci. Res. 2023 , 13, 11400–11405, doi:10.48084/etasr.6060 WOS:001049834500050	WOS	1
3.	Portoaca, A.I.; Zisopol, D.G.; Ripeanu, R.G.; Nae, I.; Tanase, M. Accelerated Testing of the Wear Behavior of 3D-Printed Spur Gears. Eng. Technol. Appl. Sci. Res. 2024, 14, 13845–13850, doi:10.48084/etasr.7113	WOS	1
Total indicator N3.2 =			3

Total punctaj indicator N3=N3.1+N3.2; N3 = 9+3; N3 = 12

A2.3 Brevete de inventie indexate Web of Science-Derwentinnovation

Nr. crt.	Denumire brevet	DerwentPrimaryAccessio nNumber	Realizat P2.1 = $3 \cdot (0,2 + FI) / n$, $n \geq 4$, FI=2
1.			
Total indicator P2.1=			0

A2.3 Brevete de invenție indexate OSIM

Nr. crt.	Denumire brevet	OSIM Number	Realizat P2.2 = $3 \cdot (0,2 + FI) / n$, $n \geq 4$, $FI = 0,5$
Total indicator P2.2=			0

TOTAL punctaj brevete de inventii indexate P2.1+P2.2=0

Total punctaj P1+P2=111,41

A2.4 Produse, tehnologii, platforme si servicii inovative (validate conform procedurilor specifice unitatilor de invatamant superior sau de cercetare) coordonator/prim autor, co-autor

Nr. crt.	Produse, tehnologii, platforme si servicii inovative	Indicator N4.1(numar) sau N4.2(numar)
1.		
Total punctaj indicator N4.1+N4.2=		0

A2.5 Monografii/carti de specialitate, format tipărit/electronic - coordonator/prim autor N4.3 sau co-autor N4.4 (număr)

Nr. crt.	Monografii de specialitate/carti de specialitate, format tiparit/electronic	Nr. pag.	Indicator
1.	Niculae Claudia, Tanase Maria , Aspects regarding the drawworks of the drilling rig, LAP LAMBERT Academic Publishing, Germany, 2019, 72 pag, ISBN 978-6200497543 https://my.lap-publishing.com/catalog/details/store/gb/book/978-620-0-49754-3/aspects-regarding-the-drawworks-of-the-drilling-rig	36	0
2.	Costin Ilinca, Maria Tanase , Structures assessment by using the numerical analysis. Case studies, LAP LAMBERT Academic Publishing, Germany, 2021, 196 pag https://my.lap-publishing.com/catalogue/details/gb/978-620-4-19080-8/structures-assessment-by-using-the-numerical-analysis-case-studies	102	1
3.	Marius Gabriel Petrescu, Costin Ilincă, Maria Tănase , Hailong Fu, Management of Industrial Technologies, Mechanical and Industrial Engineering pp 179-210, Springer, 2022 (32 pag) https://link.springer.com/chapter/10.1007/978-3-030-90487-6_7	8	0
4.	Marius Gabriel Petrescu, Costin Ilincă, Maria Tănase , Reliability of Manufacturing Technologies, Innovation and Sustainable Manufacturing, 29-64, Elsevier, 2022 https://www.elsevier.com/books/innovation-and-sustainable-manufacturing/machado/978-0-12-819513-0_(36_pag)	12	0
5.	Costin ILINCĂ Alin DINIȚĂ Ibrahim RAMADAN Maria TĂNASE , PROCESS PIPES ASSESSMENT Evaluation of process pipes subjected to internal pressure and temperature through numerical and experimental analysis, LAP LAMBERT Academic Publishing, Germany, 2022, ISBN, 9 7 8 6 2 0 5 5 1 3 1 9 4 (148 pag) https://my.lap-publishing.com/catalog/details//store/gb/book/978-620-5-51319-4/process-pipes-assessment	34	0
6	Petrescu, M.G.; Neacșa, A.; Laudacescu, E.; Tănase, M. Energy in the Era of Industry 5.0—Opportunities and Risks. In Industry 5.0: Creative and Innovative Organizations; Springer International Publishing: Cham, Switzerland, 2023; pp. 71–90. (20 pag)	5	0

	https://link.springer.com/chapter/10.1007/978-3-031-26232-6_4		
7	Petrescu, M.G., Tănase, M. and Dumitru, T. (2024), "Sustainable Technologies for Road Maintenance and Rehabilitation", <u>Crowther, D. and Seifi, S. (Ed.) Social Responsibility, Technology and AI (Developments in Corporate Governance and Responsibility, Vol. 23)</u> , Emerald Publishing Limited, Leeds, pp. 3-28. https://doi.org/10.1108/S2043-052320240000023001 (26 pag)	8	0
Total N4.3+N4.4=			1

Total indicator N4=N4.1+N4.2+N4.3+N4.4

N4 = 1

3. Recunoaștere si impactul activității-RIA (A3)

A3.1 Atragere resurse financiare prin granturi/proiecte/contracte terți (1Euro≈5 lei)

Nr. crt.	S1- Director sau responsabil partener la grant/proiect câștigat prin competiția internațională sau S2 - Membru în echipă la grant/proiect câștigat prin competiție națională sau internațională, proiecte/contracte terți	Valoare mii Euro	Indicatori
1.	Proiect PIRSES-GA-2012-318874 - "INNOPIRES - Innovative nondestructive testing and advanced composite repair of pipelines with volumetric surface defects" 2012-2016. Beneficiar: Uniunea Europeană, având valoarea totală atribuită U.P.G. de 171 285 EUR (valoarea totală proiect: 780 254 EUR) 12 membri în proiect din partea UPG, responsabil din partea UPG prof. dr. ing. Dumitrescu Andrei 171 285 / 12 = 14 273 EUR - membru în echipă https://cordis.europa.eu/project/id/318874	14,273	S2
2.	Contractul nr. 13028/19.06.2024, „Ingineria coroziunii și protecția contra coroziunii conductelor” Beneficiar SNTGN TRANSGAZ SA MEDIAȘ – responsabil contract șef lucr. dr. ing. Tănase Maria 45220 lei , 38000 lei fără TVA (7600 Euro)	7,600	S1
3.	Proiectul EEA 107379/2019 - Hybrid system for energetic efficiency using geothermal energy applied in UPG Ploiesti campus, proiect finanțat prin EEA and Norway Grants and Norwegian Financial Mechanism 2014-2021, în cadrul Programului: Energy Programme in Romania, Renewable energy / geothermal, Project Promoter: UPG Ploiesti, Romania; director conf.dr.ing. Brănoiu Gheorghe 34588 lei (6917 Euro) - membru în echipă	6,917	S2
4.	GO-GICS 11029/2023- Creșterea durabilității conductelor tehnologice prin utilizarea rășinilor epoxidice armate (ERC)- director conf.dr.ing. Diniță Alin (membru în echipă) 990 lei	0,198	S2
Total punctaj S1+S2		28,988	

Total punctaj S1+S2= 28,988

A3.2 Prezentarea/Diseminarea rezultatelor: prezenta la manifestari stiintifice in calitate de autor/co-autor de lucrari, profesor invitat

Nr. Crt.	Denumire articol si conferinta la care a fost prezentat	Indicator N5 (număr)
1.	Pupăzescu A., Zaharia M. , Aspects of the buckling of powdery material storage silos, National Conference	1

Nr. Crt.	Denumire articol si conferinta la care a fost prezentat	Indicator N5 (număr)
	on Equipment for Industrial Processes, EPI - 60, Bucharest, Romania, mai 2014, ISBN 978-606-23-0212-2, pag. 40-43	
2.	Pupăzescu A., Zaharia M. , Buckling of thin walled cylindrical shells under combined loads, International Scientific School-Conference "Tarapov Readings", September 29 – October 4, 2013, Kharkov, Ukraine, ISBN 978-617-7017-74-4, pag. 14-15	1
3.	Zaharia M. , Pupăzescu A., Buckling analysis of cylindrical shells used for storing bulk solids, International Conference „Student Technical Days", Timișoara, Romania, mai 2012, ISSN: 2066-3617, pg.16-21	1
4.	Costin ILINCĂ, Maria TĂNASE , THE INFLUENCE OF WELDING JOINT DEFECTS ON THE BOTTOM-SHELL JUNCTION FOR A VERTICAL CYLINDRICAL STORAGE TANK, International Antalya Scientific Research and Innovative Studies Congress, 18-21 December 2021	1
5.	Maria Tanase , Ibrahim Ramadan, Experimental study regarding the corrosion behaviour of heat exchanger copper tubes in the presence of different aggressive environments, 10th International Conference on Tribology BALKANTRIB '20, 2021, Belgrad, Serbia (se trec zilele)	1
6.	Ilincă Costin, Tănase Maria , ANALYSIS OF STRESS STATE IN THE CASE OF STRUCTURAL TYPE ELEMENTS RELATED TO THE FIXED DOME TANK ROOF, 5 th International AFRICAN CONFERENCE On Current Studies of Science, Technology & Social Sciences, February 2-5, 2022 Cairo, Egypt	1
7.	Costin Ilincă, Șerban Vasilescu , Ibrahim Ramadan, Maria Tănase , ANALYSIS OF STRESS AND STRAIN STATES USING THE FINITE ELEMENT METHOD FOR THE LIFTING BEAM DEVICE, 8th INTERNATIONAL MARDIN ARTUKLU SCIENTIFIC RESEARCHES CONFERENCE June 04-06, 2022 / Mardin, Turkey	1
8.	RAMADAN Ibrahim Naim, ILINCĂ Costin, TĂNASE Maria , STUDIES REGARDING THE BEHAVIOR OF COMPOSITE REPAIR SLEEVES ON STEEL PIPES, th INTERNATIONAL Asian Congress on Contemporary Sciences, MARDIN ARTUKLU SCIENTIFIC RESEARCHES CONFERENCE May 27-29, 2022 /Van, Turkey	1
9.	Marius Gabriel PETRESCU, Maria TANASE , Teodor DUMITRU, EXPERIMENTAL TRIBOLOGICAL ANALYSIS REGARDING THE POSSIBILITY TO ENHANCE THE DURABILITY OF ASPHALT MILLING CUTTER TEETH, 1st INTERNATIONAL CONGRESS OF SOCIAL SCIENCES October 20-21, 2023/ KONYA	1
10.	Maria TANASE , Marius Gabriel PETRESCU, Andrei BURLACU, ENHANCING ROTARY DRYER EFFICIENCY IN ASPHALT MIXTURE PRODUCTION THROUGH FLIGHT SHAPE OPTIMIZATION: A DEM-BASED INVESTIGATION, 1st INTERNATIONAL CONGRESS OF SOCIAL SCIENCES October 20-21, 2023/ KONYA	1
11.	Adrian Niță, Marius Gabriel Petrescu, Teodor Dumitru, Andrei Burlacu, Maria Tănase , Eugen Laudacescu and Ibrahim Ramadan, Correlating the Wear Resistance of Mixer Blade Materials with Chemical Composition under Accelerated Conditions: An Experimental Study on Cement Concrete Mixer Component Durability, International Virtual Conference on Materials Science and Engineering June 16-17, 2023	1
12.	PORTOACĂ Alexandra-Ileana, RÎPEANU George Răzvan, NAE Ion, TĂNASE Maria , The influence of 3D printing parameters and heat treatment on tribological behavior, 27th Edition of INNOVATIVE MANUFACTURING ENGINEERING & ENERGY CONFERENCE October 12-14, 2023, Chisinau, Republic of Moldova	1

Nr. Crt.	Denumire articol si conferinta la care a fost prezentat	Indicator N5 (număr)
Total indicator N5=		12

A3.3. Citari in publicatii BDI [5] (se exclud autocitarile)

Nr. crt.	Lucrarea citată ¹	Lucrarea care citează ²	Adresa web a lucrării care citează ²
1.	Lvov, G., Pupăzescu, A., Beschetnikov, D., Zaharia, M. (2015). Buckling Analysis of a Thin-walled Cylindrical Shell Strengthened by Fiber-reinforced Polymers, MATERIALE PLASTICE, 52(1), pg. 28-31	1.1 Houxiu Xiao, Junkai Liao, Xianfei Chen, Xiaofeng Li, Pengbo Wang, Tao Peng, Liang Li, Buckling analysis of pulsed magnets under high Lorentz force, Thin-Walled Structures, Volume 148, 2020, 106604, ISSN 0263-8231, https://doi.org/10.1016/j.tws.2020.106604 .	https://www.sciencedirect.com/science/article/pii/S0263823119313631 FI WOS = 5,70
		1.2 <u>Yousefi Khatuni, S., Showkati, H.</u> , Buckling Behavior of Semi-scale Steel Tank with Carbon Fiber Reinforced Polymer Ring Subjected to Lateral Uniform Pressure Loading, <u>International Journal of Engineering, Transactions A: Basics</u> 32(10), pp. 1407-1415, 2019	http://www.ije.ir/article_95715.html FI WOS=1,50
		1.3. TEODOR COSTINEL POPESCU, CATALIN DUMITRESCU, ILARE BORDEASU, Aspects concerning the use of plastics in developing test stands for experimental models of hydraulic turbine blades and rotors, Materiale Plastice Volume 53, Issue 1, March 2016, Pages 174-178	https://revmaterialeplastice.ro/pdf/POPESCU%20T%20I%2016.pdf FI WOS = 0,6
		1.4 Omar Shabbir Ahmed, Abdul Aabid, Jaffar Syed Mohamed Ali, Meftah Hrairi, and Norfazrina Mohd Yatim ACS Omega 2023 8 (34), 30824-30837 DOI: 10.1021/acsomega.3c03695	https://pubs.acs.org/doi/10.1021/acsomega.3c03695 FI WOS = 3,7
	∑ FI articol 1= 11,5 CI articol 1= 4 C articol 1= 15,5		

Nr. crt.	Lucrarea citată ¹	Lucrarea care citează ²	Adresa web a lucrării care citează ²
2	Maria Zaharia, Alexandru Pupazescu, Cristian Mihai Petre, Comparative study concerning the methods of calculation of the critical axial buckling load for stiffened cylindrical shells, REVISTA DE CHIMIE, 69(8), 2018, pg. 2000-2004	2.1 Xu, X., Zhao, Z., Zhou, Z., (...), Tong, Z., Lim. C.W., Local surface nanocrystallization for buckling-resistant thin-walled structures, International Journal of Mechanics and Materials in Design 16(4), pp. 693-705, 2020	https://link.springer.com/article/10.1007/s10999-020-09497-8 FI WOS=2,70
	∑ FI articol 2= 2,7 CI articol 2= 1 C articol 2= 3,7		

Nr. crt.	Lucrarea citată ¹	Lucrarea care citează ²	Adresa web a lucrării care citează ²
3	Diniță, A.; Neacșa, A.; Portoacă, A.I.; Tănase, M.; Ilinca, C.N.; Ramadan, I.N. Additive Manufacturing Post-Processing Treatments, a Review with Emphasis on Mechanical Characteristics. Materials 2023 , 16, 4610. https://doi.org/10.3390/ma16134610	3.1 Khilji, Irshad Ahamad, et al. "Natural Fiber Composite Filaments for Additive Manufacturing: A Comprehensive Review." Sustainability 15.23 (2023): 16171.	https://www.mdpi.com/2071-1050/15/23/16171 FI WOS = 3.3
		3.2 Batu, Temesgen, Hirpa G. Lemu, and Hailu Shimels. "Application of artificial intelligence for surface roughness prediction of additively manufactured components." Materials 16.18 (2023): 6266.	https://www.mdpi.com/1996-1944/16/18/6266 FI WOS = 3.1
		3.3 Paszkiwicz, Sandra, et al. "The Mechanical, Thermal, and Biological Properties of Materials Intended for Dental Implants: A Comparison of Three Types of Poly (aryl-ether-ketones)(PEEK and PEKK)." Polymers 15.18 (2023): 3706.	https://www.mdpi.com/2073-4360/15/18/3706 FI WOS = 4.7
		3.4 Mondal, Sukanta K., et al. "Liquid-Phase Adsorption of Dimethyl Methylphosphonate on Poly (ether imide) and its Metal Hydroxide-Integrated Composites." Industrial & Engineering Chemistry Research (2024).	https://pubs.acs.org/doi/10.1021/acs.iecr.4c00159 FI WOS= 3,8
		3.5 Caussin, E.; Moussally, C.; Le Goff, S.; Fasham, T.; Troizier-Cheyne, M.; Tapie, L.; Dursun, E.; Attal, J.-P.; François, P. Vat Photopolymerization 3D Printing in Dentistry: A Comprehensive Review of Actual Popular Technologies. Materials 2024 , 17, 950. https://doi.org/10.3390/ma17040950	https://www.mdpi.com/1996-1944/17/4/950 FI WOS = 3.1

	3.6 Bhandarkar, V.V., Kumar, A. & Tandon, P. Warpage detection in 3D printing of polymer parts: a deep learning approach. J Intell Manuf (2024). https://doi.org/10.1007/s10845-024-02414-2	https://link.springer.com/article/10.1007/s10845-024-02414-2 FI WOS= 5,9
	3.7 Nanjundaiah, Rashmi Saragur, et al. "Fretting Wear Behavior on LPBF Processed AlSi10Mg Alloy for different Heat Treatment Conditions." Journal of Materials Research and Technology (2024).	https://www.sciencedirect.com/science/article/pii/S2238785424009219 FI=6.2
	3.8 Radi, Amin, et al. "Addressing the strength-ductility trade-off in a thermomechanical-processed high entropy alloy." Journal of Alloys and Compounds 968 (2023): 172093.	https://www.sciencedirect.com/science/article/pii/S0925838823033960?casa_token=r76GL12F1bIAAAAA:1xFJ-cRLVm33n-IKF9IFMXfRFBEqaF9sOtkQwB6yMnA4slnHlQmjL_Wiw2A0N7T_oAYfZwC FI WOS = 5,8
	3.9 Suárez, Alfredo, et al. "ANALYSIS OF THE MACHINING PROCESS OF SHORT CARBON FIBER-REINFORCED POLYAMIDE ADDITIVE MANUFACTURED PARTS." Journal of Materials Research and Technology (2024).	https://www.sciencedirect.com/science/article/pii/S2238785424008214 FI WOS = 6.2
	3.10 Kumar, Ankit, and Gurminder Singh. "Surface modification of Ti6Al4V alloy via advanced coatings: Mechanical, Tribological, Corrosion, Wetting, and Biocompatibility studies." Journal of Alloys and Compounds (2024): 174418.	https://www.sciencedirect.com/science/article/pii/S0925838824010053?casa_token=t0Z6a93kyqUAAAA:789XYDEcpnjEV-71Dcu7P4POKenw0lo3htFbanTOXbojid-G5s4YBNjOE2ffCKWvQdKfHCl FI WOS = 5,8
	3.11 Kantaros, Antreas, et al. "Post-Production Finishing Processes Utilized in 3D Printing Technologies." Processes 12.3 (2024): 595.	https://www.mdpi.com/2227-9717/12/3/595 FI WOS = 2,8

	3.12 Glaskova-Kuzmina, Tatjana, et al. "The Tensile, Thermal and Flame-Retardant Properties of Polyetherimide and Polyetherketoneketone Processed via Fused Filament Fabrication." <i>Polymers</i> 16.3 (2024): 336.	https://www.mdpi.com/2073-4360/16/3/336 FI WOS = 4,7
	3.13 Zhao, Sicong, et al. "Tailoring Multiple Strengthening Phases to Achieve Superior High-Temperature Strength in Cast Mg-RE-Ag Alloys." <i>Materials</i> 17.4 (2024): 901.	https://www.mdpi.com/1996-1944/17/4/901 FI WOS = 3.1
	3.14 Dvorak, Karel, et al. "Dilation Characteristics of 3D PBF-LB/M AlSi10Mg Alloy." <i>Metals</i> 13.12 (2023): 1961.	https://www.mdpi.com/2075-4701/13/12/1961 FI WOS = 2.6
	3.15 Jamuna, R., et al. "A characterization study on toughening vinyl ester composites using annealed biosilica from fox tail millet husk and nettle fiber." <i>Biomass Conversion and Biorefinery</i> (2024): 1-11.	https://link.springer.com/article/10.1007/s13399-024-05467-8 FI WOS = 3,5
	3.16 Zisopol, Dragos Gabriel, Mihail Minescu, and Dragos Valentin Iacob. "A Study on the Influence of FDM Parameters on the Compressive Behavior of PET-G Parts." <i>Engineering, Technology & Applied Science Research</i> 14.2 (2024): 13592-13597.	https://www.etasr.com/index.php/ETASR/article/view/7063 FI=0
	3.17 Wang, Songbin, et al. "Wear-and UV-resistant polycarbonate-based composite films reinforced by a novel inorganic-organic hybrid filler." <i>Journal of Applied Polymer Science</i> : e55514.	https://onlinelibrary.wiley.com/doi/abs/10.1002/app.55514 FI= 2,7
	3.18 Manikandan, P., and K. Venkatesan. "Advancements in micromachining of additive manufactured materials: a comprehensive review." <i>Materials and Manufacturing Processes</i> (2024): 1-52.	https://www.tandfonline.com/doi/full/10.1080/10426914.2024.2362621?srsc= FI WOS = 4,1
	3.19 Wang, Pinwen, et al. "Biomaterials for flexible pressure sensors: innovations and advancements." <i>Journal of Materials Chemistry C</i> (2024).	https://pubs.rsc.org/en/content/articleanding/2024/tc/d4tc03256j/unauth FI = 5,7
	3.20 Raj, Ratnesh, and Gurminder Singh. "A review on process prerequisites and biomedical applications of additively manufactured zirconia." <i>Engineering Science and Technology, an International Journal</i> 59 (2024):	https://www.sciencedirect.com/science/article/pii/S2215098624002623 FI WOS = 5,1

		101876.	
		3.21 Tognana, Sebastián, Carlos Frosinini, and Susana Montecinos. "Influence of bed temperature on the final properties of PLA parts manufactured by material extrusion." Rapid Prototyping Journal (2024).	https://www.emerald.com/insight/content/doi/10.1108/rpj-08-2024-0323/full/html FI WOS = 3,4
		3.22 Kyrimov, Rustam R., et al. "Factorial-experimental investigation of LPBF regimes for VZh159 nickel superalloy grain structure and structural strength optimization." Frontiers in Materials 11 (2024): 1470651.	https://www.frontiersin.org/journals/materials/articles/10.3389/fmats.2024.1470651/full FI WOS = 2,6
		3.23 Kelliger, Tobias, Markus Meurer, and Thomas Bergs. "Potentials of Additive Manufacturing for Cutting Tools: A Review of Scientific and Industrial Applications." Metals 14.9 (2024): 982.	https://www.mdpi.com/2075-4701/14/9/982 FI WOS = 2,6
		3.24 Seraji, Amir Abbas, et al. "Finite element analysis and in vitro tests on endurance life and durability of composite bone substitutes." Frontiers in Bioengineering and Biotechnology 12 (2024): 1417440.	https://www.frontiersin.org/journals/bioengineering-and-biotechnology/articles/10.3389/fbioe.2024.1417440/full FI WOS = 4,3
		3.25 Mathew, Ruben Raj, et al. "Investigating the impact of heat treatment of direct metal laser sintered Ti6Al4 V and inconel 718 alloys." Interactions 245.1 (2024): 240.	https://link.springer.com/article/10.1007/s10751-024-02077-8
		3.26 Rojek, Izabela, et al. "Use of Machine Learning to Improve Additive Manufacturing Processes." Applied Sciences 14.15 (2024): 6730.	https://www.mdpi.com/2076-3417/14/15/6730 FI WOS = 2,5
		∑ FI articol 3= 97,6 CI articol 3= 26 C articol 3= 123,6	

Nr. crt.	Lucrarea citată ¹	Lucrarea care citează ²	Adresa web a lucrării care citează ²
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4	Portoacă, A.I.; Ripeanu, R.G.; Diniță, A.; Tănase, M. Optimization of 3D Printing Parameters for Enhanced Surface Quality and Wear Resistance. <i>Polymers</i> 2023 , <i>15</i> , 3419. https://doi.org/10.3390/polym15163419	4.1 Głowacki, Marcin, et al. "Change in the Low-Cycle Performance on the 3D-Printed Materials ABS, ASA, HIPS, and PLA Exposed to Mineral Oil." <i>Polymers</i> 16 ,8 (2024): 1120.	https://www.mdpi.com/2073-4360/16/8/1120 FI=4,7
		4.2 Chil-Chyuan Kuo, Naruboyana Gurumurthy, Hong-Wei Chen, Song-Hua Huang, Analysis of temperature history, fatigue behavior and surface hardness in rotary friction welded dissimilar polymer rods with variable rotational speeds, <i>Journal of Advanced Joining Processes</i> , Volume 9,2024,100211,	https://www.sciencedirect.com/science/article/pii/S266633092400027X?via%3Dihub FI WOS = 3,8
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	∑ FI articol 9= 4,7 CI articol 9=4 C articol 9= 8,7		

Nr. crt.	Lucrarea citată ¹	Lucrarea care citează ²	Adresa web a lucrării care citează ²
10	Niță, A.; Laudacescu, E.; Petrescu, M.G.; Dumitru, T.; Burlacu, A.; Bădoiu, D.G.; Tănase, M. Experimental Research Regarding the Effect of Mineral Aggregates on the Wear of Mixing Blades of Concrete Mixers. Materials 2023 , 16, 5047. https://doi.org/10.3390/ma16145047	López-Malest, A.; Gabor, M.R.; Panait, M.; Brezoi, A.; Veres, C. Green Innovation for Carbon Footprint Reduction in Construction Industry. Buildings 2024 , 14, 374. https://doi.org/10.3390/buildings14020374	https://www.mdpi.com/2075-5309/14/2/374 FI WOS = 3,1
	∑ FI articol 10= 3,1 CI articol 10=1 C articol 10= 4,1		

Nr. crt.	Lucrarea citată ¹	Lucrarea care citează ²	Adresa web a lucrării care citează ²
11	Niță, A.; Laudacescu, E.; Petrescu, M.G.; Dumitru, T.; Burlacu, A.; Bădoiu, D.G.; Tănase, M. Experimental Research Regarding the Effect of Mineral Aggregates on the Wear of Mixing Blades of Concrete Mixers. Materials 2023 , 16, 5047. https://doi.org/10.3390/ma16145047	11.1 López-Malest, A.; Gabor, M.R.; Panait, M.; Brezoi, A.; Veres, C. Green Innovation for Carbon Footprint Reduction in Construction Industry. Buildings 2024 , 14, 374. https://doi.org/10.3390/buildings14020374	https://www.mdpi.com/2075-5309/14/2/374 FI WOS = 3,1
	∑ FI articol 11= 3,1 CI articol 11=1		

	C articol 11= 4,1		
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	∑ FI articol 15= 2,6 CI articol 15= 1 C articol 15= 3,6		

Nr. crt.	Lucrarea citată ¹	Lucrarea care citează ²	Adresa web a lucrării care citează ²
16	Petrescu, M.G.; Ilincă, C.; Tănase, M. Reliability of Manufacturing Technologies. In Innovation and Sustainable Manufacturing; Elsevier, 2023; pp. 29–65 ISBN 978-0-12-819513-0.	16.1 Panait, M.; Iacob, Ș.; Voica, C.; Iacovoiu, V.; Iov, D.; Mincă, C.; Teodorescu, C. Navigating through the Storm—The Challenges of the Energy Transition in the European Union. Energies 2024, 17, 2874. https://doi.org/10.3390/en17122874	https://www.mdpi.com/1996-1073/17/12/2874 FI WOS = 3

		16.2 Kaining Yang, Wenxin Sun, Lanyue Cui, Yuhong Zou, Cuie Wen, Rongchang Zeng, Advances in functional coatings on biliary stents, Regenerative Biomaterials, Volume 11, 2024, rbae001, https://doi.org/10.1093/rb/rbae001	https://academic.oup.com/rb/article/doi/10.1093/rb/rbae001/7577848 FI WOS = 5,6
	\sum FI articol 16= 8,6 CI articol 16=2 C articol 16= 10,6		

Nr. crt.	Lucrarea citată1	Lucrarea care citează2	Adresa web a lucrării care citează2
17	Burlacu, A.; Petrescu, M.G.; Dumitru, T.; Niță, A.; Tănase, M.; Laudacescu, E.; Ramadan, I.; Ilincă, C. Numerical Approach Regarding the Effect of the Flight Shape on the Performance of Rotary Dryers from Asphalt Plants. Processes 2022 , 10, 2339.	Paul Schönauer, Michael R. Gruber, Bernhard Hofko, Case study of a batch asphalt mix plant: Energy consumption and emission allocation based on primary data, Case Studies in Construction Materials, Volume 21, 2024	https://www.sciencedirect.com/science/article/pii/S214509524008209?via%3Dihub FI= 6,5
	\sum FI articol 17= 6,5 CI articol 17=1 C articol 17= 7,5		

Nr. crt.	Lucrarea citată1	Lucrarea care citează2	Adresa web a lucrării care citează2
18	Burlacu, A. I.; Tănase M.; Ilincă, C.; Petrescu M. G. Optimizing the trajectory of aggregates in drying units from the asphalt plants, The 10th International Conference on Advanced Concepts in Mechanical Engineering – ACME 2022, Mechanical Engineering Faculty, in the „Gheorghe Asachi” Technical University of Iasi, Romania, 09-10 June 2022. IOP Conf. Series: Materials Science and Engineering 1262 (2022) 012003 IOP Publishing doi:10.1088/1757-899X/1262/1/012003	18.1 Andrei Burlacu , Marius Gabriel Petrescu , Răzvan George Rîpeanu, Teodor Dumitru, Eugen Victor Laudacescu , Ibrahim Naim Ramadan , Adrian Niță, Experimental Investigations on Wear Phenomena Specific to Rotary Dryer Flights (Blades), Tribology in Industry, 2023, DOI: 10.24874/ti.1549.08.23.10	https://www.tribology.rs/journals/2024/2024-1/2024-1-06.html Scopus
		18.2 Niță, A.; Laudacescu, E.; Ramadan, I.N.; Petrescu, M.G. An Example for Determining the Physical Parameters Used in DEM Modelling for the Interaction Process between Aggregates and Working Equipment. IOP Conf. Ser.: Mater. Sci. Eng. 2022 , 1262, 012028, doi: 10.1088/1757-899X/1262/1/012028 .	https://iopscience.iop.org/article/10.1088/1757-899X/1262/1/012028 Scopus

	<p>∑ FI articol 18= 0</p> <p>CI articol 18=2</p> <p>C articol 18= 2</p>		
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Nr. crt.	Lucrarea citată1	Lucrarea care citează2	Adresa web a lucrării care citează2
19	<p>Razvan George Ripeanu, Alin Dinita, Maria Tanase, Alexandra Ileana Portoaca, Experimental Investigation on Corrosion Resistance and Tribological Properties of Steel Coated with Glass-Reinforced Polymer, Tribology and Materials, 2024, doi:https://doi.org/10.46793/tribomat.2024.010.</p>	<p>Wang, Y.; Nie, C.; Wang, S.; Gong, P.; Zhang, M.; Hu, Z.; Li, B. Study on the Properties of TiC Coating Deposited by Spark Discharge on the Surface of AlFeCoCrNiCu High-Entropy alloy. Materials 2024, 17, 4110. https://doi.org/10.3390/ma17164110</p>	<p>https://www.mdpi.com/1996-1944/17/16/4110</p> <p>FI WOS = 3,1</p>
	<p>∑ FI articol 19= 3,1</p> <p>CI articol 19=1</p> <p>C articol 19= 4,1</p>		

Nr. crt.	Lucrarea citată1	Lucrarea care citează2	Adresa web a lucrării care citează2
20	<p>Petrescu, M.G.; Neacșa, A.; Laudacescu, E.; Tănase, M. Energy in the Era of Industry 5.0—Opportunities and Risks. In Industry 5.0: Creative and Innovative Organizations; Springer International Publishing: Cham, Switzerland, 2023; pp. 71–90</p>	<p>20.1</p> <p>Zhironkin, S.; Abu-Abed, F. Review of the Transition to Energy 5.0 in the Context of Non-Renewable Energy Sustainable Development. Energies 2024, 17, 4723. https://doi.org/10.3390/en17184723</p>	<p>https://www.mdpi.com/1996-1073/17/18/4723</p> <p>FI WOS = 3</p>
		<p>20.2</p> <p>Neacsa, A.; Eparu, C.N.; Panaitescu, C.; Stoica, D.B.; Ionete, B.; Prundurel, A.; Gal, S. Hydrogen–Natural Gas Mix—A Viable Perspective for Environment and Society. Energies 2023, 16, 5751. https://doi.org/10.3390/en16155751</p>	<p>https://www.mdpi.com/1996-1073/16/15/5751</p> <p>FI WOS = 3</p>
		<p>20.3</p> <p>Tudorică, Bogdan-George, et al. "Energetic Equilibrium: Optimizing renewable and non-renewable energy sources via particle swarm optimization." Utilities Policy 87 (2024): 101722.</p>	<p>https://www.sciencedirect.com/science/article/pii/S0957178724000158?via%3Dihub</p> <p>FI WOS = 3,8</p>

		20.4 Ramírez-Márquez, César, et al. "Natural Resource Optimization and Sustainability in Society 5.0: A Comprehensive Review." Resources 13.2 (2024): 19.	https://www.mdpi.com/2079-9276/13/2/19 FI WOS = 3,6
		20.5 López-Malest, Argeime, et al. "Green Innovation for Carbon Footprint Reduction in Construction Industry." Buildings 14.2 (2024): 374.	https://www.mdpi.com/2075-5309/14/2/374 FI WOS = 3,1
	Σ FI articol 20= 16,5 CI articol 20=5 C articol 20= 21,5		

Nr. crt.	Lucrarea citată ¹	Lucrarea care citează ²	Adresa web a lucrării care citează ²
21	Dumitru, T.; Petrescu, M.G.; Tănase, M. ; Laudacescu, E. The Application of Tribological Tests to Study the Wear Behavior of Asphalt Cutter Teeth: An Experimental Investigation Using Baroid Tribometer. Coatings 2023 , 13, 1251. https://doi.org/10.3390/coatings13071251	Jiuqi Wu, Xiangsheng Chen, Xiang Shen, Dong Su, Yazhou Zhang, Zhanhu Yao, Xiao Wang, Evaluation method and application for cutter wear of large-diameter shield in composite stratum: A case study, Measurement, Volume 242, Part A, 2025,	https://www.sciencedirect.com/science/article/pii/S0263224124016749?via%3Dihub FI WOS= 5,2
	Σ FI articol 21= 5,2 CI articol 21=1 C articol 21= 6,2		

Nr. crt.	Lucrarea citată ¹	Lucrarea care citează ²	Adresa web a lucrării care citează ²
22	Portoaca, A.I.; Zisopol, D.G.; Ripeanu, R.G.; Nae, I.; Tănase, M. Accelerated Testing of the Wear Behavior of 3D-Printed Spur Gears. Eng. Technol. Appl. Sci. Res. 2024, 14, 13845–13850, doi:10.48084/etasr.7113.	Musa Yilmaz, Necip Fazil Yilmaz, Abdurrahman Gungor, Wear and thermal coupled comparative analysis of additively manufactured and machined polymer gears, Wear, Volumes 556–557, 2024,	https://www.sciencedirect.com/science/article/pii/S0043164824002904?casa_token=8cU-V5FdiCYAAAAA:8YHgk0o2AfLVuJdaQgxOXw_9RnAh3m9jodNhryHhZJULi_0jFEpAcTJPIpz8ISrgiX7QqjY7tA FI= 5,3
	Σ FI articol 22= 5,3 CI articol 22=1 C articol 22= 6,3		

Nr. crt.	Lucrarea citată1	Lucrarea care citează2	Adresa web a lucrării care citează2
23	Cană, P.; Ripeanu, R.G.; Pătîrnac, I.; Diniță, A.; Tănase, M. Investigating the Impact of Operating Conditions on Relief Pressure Valve Flow through CFD and Statistical Analysis. Processes 2023 , 11, 3396, doi: 10.3390/pr11123396	Hossain, Md Shazzad, et al. "A Literature Review of the Design, Modeling, Optimization, and Control of Electro-Mechanical Inlet Valves for Gas Expanders." Energies 17.18 (2024): 4569.	https://www.mdpi.com/1996-1073/17/18/4569 FI WOS = 3
	Σ FI articol 23= 3 CI articol 23=1 C articol 23= 4		

Total puncte din citări indicator C:

$$CI = 100$$

$$SFI = 311,7$$

$$C = CI + SFI = 411,7$$

$$\text{Total punctaj } A1+A2+A3$$

$$= 8+ 124,41+452,68=585,09$$

Data: 17.12.2024

Sef.lucr dr. ing. Tănase Maria