

Amiral,
 RECTOR,
 Prof. univ. dr. ing. Dan
 Caravel...



FIȘA DE VERIFICARE
a îndeplinirii standardelor minime naționale pentru postul de Profesor universitar
în vederea susținerii tezei pentru obținerea atestatului de abilitare

Candidat: **BENCHEA I. Marcelin** / Data nașterii: **16/09/1979** Funcția actuală: Conferențiar universitar, Data numirii în funcția actuală: **21 februarie 2022**

Instituția: **Universitatea Tehnică "Gheorghe Asachi" din Iași**

Notă privind îndeplinirea standardelor minime naționale pentru Profesor universitar
 (conform Ordin MENCS 6129 din 20/12/2016)

Anexa 17: Comisia Inginerie mecanică, mecatronică și robotică

Condiții minime și obligatorii Profesor				
Domeniul de activitate		Indicatori	impus	realizat
Activitatea didactică / profesională (A1)	A1.1	N1	2	2
		N1.1	1	2
		N1.3	1	1
	A1.2	N2	4	17
		N2.1	2	14
	Activitatea de cercetare (A2)	A2.1 + A2.3	P1+P2	10
P1			6	29.96
A2.2		N3	10	43
		N3.1	5	5
A2.4 + A2.5		N4	2	6
		N4.3	1	1
Recunoașterea impactului activității (A3)		A3.1	S1 + S2	50
	A3.2	N5	10	41
	A3.3	C	25	1240.32

Candidat,
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Anexa nr. 17 – COMISIA INGINERIE MECANICĂ, MECATRONICĂ ȘI ROBOTICĂ

STANDARDE MINIMALE NECESARE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR PROFESIONALE DE CERCETARE – DEZVOLTARE⁽¹⁾

Nr.	Domeniul activităților	Rezultatele activităților	Subcategoriile		Indicatori	
1	Activitatea didactică și profesională DID (A1)	Manuale suport de curs (conform fișei disciplinei de concurs)	A1.1	Format tipărit/electronic ⁽²⁾ (min. 100 pag.)	Coordonator/ prim autor	N1.1 = număr
				Co-autor	N1.2 = număr	
			Format electronic disponibil pe platforma universității (autor)	N1.3 = număr		
		Material didactic /Dezvoltare laboratoare, aplicații	A1.2	Standuri laborator (construcție/ modernizări) certificate de directorul de departament	N2.1 = număr	
				Îndrumar laborator/carte aplicații format tipărit sau electronic (autor, co-autor)	N2.2 = număr	
				Aplicație informatică educațională	N2.3 = număr	
2	Activitatea de cercetare științifică, dezvoltare tehnologică și inovare - CDI (A2)	Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) ⁽³⁾ , unde n = nr.de autori și FI este factorul de impact ⁽⁴⁾	A2.1	Autor corespondent / prim autor	n ≤ 3	P1.1 = 2 · (0.2 + FI)
				n ≥ 4	P1.2 = 2 · 3 · (0.2 + FI)/n	
			Co-autor	n ≤ 3	P1.3 = 0.2 + FI	
				n ≥ 4	P1.4 = 3 · (0.2 + FI)/n	
		Articole și publicații științifice BDI ⁽⁵⁾ neincluse la A2.1	A2.2	Autor corespondent/prim autor	N3.1 = număr	
				Co-autor	N3.2 = număr	
		Brevete de invenții indexate ⁽⁶⁾	A2.3.	Internaționale indexate în Web of Science – Derwent Innovation	P2.1 = același calcul cu A2.1 și FI = 2	
				Naționale indexate OSIM	P2.2 = același calcul cu A2.1 și FI = 0.5	
		Produce, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare)	A2.4	Coordonator/prim autor	N4.1 = număr	
				Co-autor	N4.2 = număr	
Monografii/cărți de specialitate ⁽²⁾ , format tipărit/electronic (min. 100 pag.)	A2.5	Coordonator/prim autor	N4.3 = număr			
		Co-autor	N4.4 = număr			
3	Recunoașterea și impactul activității - RIA (A3)	Atragere resurse financiare prin granturi/proiecte/contracte terți	A3.1	Director sau responsabil partener la grant/proiect câștigat prin competiție națională sau internațională	S1 ⁽⁷⁾ = sumă echivalentă în mii Euro ⁽⁹⁾	
				Membri în echipă la grant/proiect câștigat prin competiție națională sau internațională, proiecte/contracte terți	S2 ⁽⁸⁾ = sumă echivalentă în mii Euro ⁽⁹⁾	
		Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat	A3.2	Congrese/conferințe/workshopuri internaționale, profesor invitat la universități/institute din străinătate	N5 = număr	
Citări în publicații BDI ⁽⁵⁾ (se exclud autocitările)	A3.3.	C1 = numărul de citări S _{FI} = suma factorilor de impact al publicațiilor WOS în care apar citările	C = C1 + SFI			

¹ Intră în vigoare din anul universitar academic 2018/2019. Pentru anul academic 2017/2018 rămân valabile standardele aflate în vigoare la data de 03.10.2016.

² Publicația este înregistrată în fondul de carte al bibliotecii naționale sau al bibliotecilor universităților respective.

³ Se exclud publicațiile conferințelor DAAAM și WSEAS.

⁴ 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.

⁵ Bazele de date BDI acceptate sunt: Web of Science Thomson Reuters (WOS) și SCOPUS.

⁶ Un brevet se poate încadra la o singură categorie.

⁷ 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).

⁸ 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).

⁹ 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	2	4
	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.

Detaliile criteriilor privind îndeplinirea standardelor minime naționale pentru Profesor universitar

Nr.	Domeniul activităților	Rezultatele activităților	Indicatori	Punctaj
1	Activitatea didactică și profesională DID (A1)	A1.1 Manuale suport de curs (conform fișei disciplinei de concurs)		
		A1.1.1 Marcelin BENCHEA , Flavian Farcaș, "Mecatronica Automobilului. Echipamente de management și control", Editura Politehniun, Iași, ISBN 978-973-621-502-5, 165 pg., 2021	N1.1	1
		A1.1.2 Marcelin BENCHEA , Flavian Farcaș, "Mecatronica Automobilului. Echipamente de siguranță și confort", Editura Politehniun, Iași, ISBN 978-973-621-503-2, 165 pg., 2021	N1.1	1
		A1.1.3 Marcelin BENCHEA , "Echipamente Mecatronice ale Automobilului", suport de curs pentru specializările de Mecatronică licență și master, 350 pg., 2021 (disponibil în format pdf pe Web: https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/)	N1.3	1
		A1.2 Material didactic /Dezvoltare laboratoare, aplicații		
		N2.1 Standuri laborator (construcție/ modernizări) certificate de directorul de departament		
		A1.2.1 Ambreiaje mecanice cu fricțiune și cutii de viteză	N2.1	1
		A1.2.2 Construcția și funcționarea sistemului de recirculare a gazelor arse. Supapa EGR	N2.1	1
		A1.2.3 Construcția și funcționarea sistemului de frânare. Sistemul ABS	N2.1	1
		A1.2.4 Construcția și funcționarea sistemului de direcție. Direcții asistate	N2.1	1
		A1.2.5 Construcția și funcționarea sistemului de siguranță pasivă. Airbag	N2.1	1
		A1.2.6 Construcția și funcționarea sistemului de închidere centralizată	N2.1	1
		A1.2.7 Construcția și funcționarea sistemului de ștergătoare cu senzor de ploaie	N2.1	1
		A1.2.8 Construcția și funcționarea sistemului de iluminare. Faruri adaptive	N2.1	1
		A1.2.9 Analiza caracteristicii de zgomot la atenuatoare de zgomot	N2.1	1
		A1.2.10 Standul de instruire practică în mecanică FESTO sponsorizat din fondul BORGWARNER (Banc de lucru metalic cu blat din lemn, Stație de lucru cu stand cu motor de acționare și sisteme de siguranță, Transmisii mecanice cu lanțuri, curele și roți dintate, Cuplaje, Etanșări, Determinarea nivelului de zgomot și vibrație, etc. - nivel avansat 5 module) în valoare de 250000 RON, echipa de lucru - 7 membri (coordonator conf.dr.ing. Gelu Ianuș)	N2.1	1
		A1.2.11 Filete - Elemente Geometrice. Forțe și Momente. Determinarea coeficientului de frecare în asamblări filetate	N2.1	1
		A1.2.12 Determinarea presiunii reale într-o cuplă de frecare. Profilometrul Taylor-Hobson	N2.1	1
		A1.2.13 Studiul fenomenului de frecare în cuple de clasa a II-a și a III-a. Mașina AMSLER	N2.1	1
		A1.2.14 Studiul fenomenelor de uzare din cuplele de frecare. Tribometrul CETR UMT-2	N2.1	1
N2.2 Îndrumar laborator/carte aplicații format tipărit sau electronic (autor, co-autor)				
A1.2.15 Marcelin BENCHEA , "Echipamente Mecatronice la Automobile. Îndrumar", pentru specializările de Mecatronică licență și master, 165 pg., 2021 (disponibil pe Web: https://mec.tuiasi.ro/studenti/informatii-utile/manuale-electronice/)	N2.2	1		

		A1.2.16 Marcelin BENCHEA , "Mecatronica Automobilului. Lucrări de laborator", Editura Politehniun, Iași, ISBN 978-973-621-494-3, 140 pg., 2020	N2.2	1
		A1.2.17 Spiridon Crețu, Mihaela Bălan, Marcelin BENCHEA , Ana Tufescu, Ciprian Stamate, "Organe de mașini. Lucrări", Editura Tehnopress, Iași, ISBN 978-606-687-014-6, 260 pg., 2013	N2.2	1
2	Activitatea de cercetare științifică, dezvoltare tehnologică și inovare -CDI (A2)	A2.1 Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS) ⁽³⁾		
		A2.1.1 F.C. Lupu, C. Munteanu, S. Müftü, M. Benchea , R. Cimpoesu, G. Ferguson, S. Boese, P. Schwartz, B. Istrate, V.N. Arsenoia, "Evaluation of the Wear Properties and Corrosion Resistance of 52100 Steel Coated with Ni/CrC by Cold Spray", Coatings, IF = 3.4 , ISSN 2079-6412, vol. 14 (1), 145, pp.17, 2024, Coatings Free Full-Text Evaluation of the Wear Properties and Corrosion Resistance of 52100 Steel Coated with Ni/CrC by Cold Spraying (mdpi.com) $3 \cdot (0.2+3.4)/10=1.08$	P1.4	1.08
		A2.1.2 P. Lazar, N. Cimpoesu, B. Istrate, A.M. Cazac, D.P. Burduhos-Nergis, M. Benchea , A. Berbecaru, G. Badarau, G.D. Vasilescu, M. Popa, C. Bejinariu, "Microstructural and Mechanical Properties Analysis of Phosphate Layers Deposited on Steel Rebars for Civil Constructions", Coatings, IF = 3.4 , ISSN 2079-6412, vol. 14 (2), 182, pp.14, 2024, Coatings Free Full-Text Microstructural and Mechanical Properties Analysis of Phosphate Layers Deposited on Steel Rebars for Civil Constructions (mdpi.com) $3 \cdot (0.2+3.4)/11=0.982$	P1.4	0.98
		A2.1.3 D. Agop Forna, C. Munteanu, O. Stamatina, N. Forna, M. Benchea , G. Shokraei, S. Petruta, V. Hutanu, N. Forna, "Comparative "In-vitro" Study of Biodegradable Biomaterials from the MgCaGd and MgCaZr Systems for Applications in Bone Reconstruction of the Maxilla", Romanian Journal of Oral Rehabilitation, IF = 0.7 , ISSN 2066-7000, vol. 15, nr. 2, pp.126-136, 2023, Romanian Journal of Oral Rehabilitation (rjor.ro) $3 \cdot (0.2+0.7)/9=0.3$	P1.4	0.3
		A2.1.4 D. Agop Forna, C. Topoliceanu, O. Stamatina, N. Forna, C. Munteanu, M. Benchea , A. Davidescu, B. Toader, R. Biciusca, N. Forna, "The Biomechanical Characteristics of Intraoral Bone Reconstruction Materials", Romanian Journal of Oral Rehabilitation, IF = 0.7 , ISSN 2066-7000, vol. 15, nr. 2, pp.388-398, 2023, Romanian Journal of Oral Rehabilitation (rjor.ro) $3 \cdot (0.2+0.7)/10=0.27$	P1.4	0.27
		A2.1.5 M. Luțcanu, R. Cimpoesu, M. Abrudeanu, C. Munteanu, S. Moga, M. Coteata, G. Zegan, M. Benchea , N. Cimpoesu, A.M. Murariu, "Mechanical Properties and Thermal Shock Behavior of Al ₂ O ₃ -YSZ Ceramic Layers Obtained by Atmospheric Plasma Spraying", Crystals, IF = 2.7 , ISSN 2073-4352, vol. 13, nr. 4, 614, pp.16, 2023, Mechanical Properties and Thermal Shock Behavior of Al₂O₃-YSZ Ceramic Layers Obtained by Atmospheric Plasma Spraying $3 \cdot (0.2+2.7)/10=0.87$	P1.4	0.87
		A2.1.6 A. Iovan, M. Benchea* , S. Stoleriu, I. Tărăboanță, N. Cimpoesu, I. Nica, S. Andrian, "Effects of Acidic Challenge on Demineralized Root Surface Treated with Silver Diamine Fluoride and Potassium Iodide", Diagnostics, IF = 3.6 , ISSN 2075-4418, vol. 13, nr. 3, 530, pp.11, 2023, Diagnostics Free Full-Text Effects of Acidic Challenge on Demineralized Root Surface Treated with Silver Diamine Fluoride and Potassium Iodide (mdpi.com) $2 \cdot 3 \cdot (0.2+3.6)/7=3.257$	P1.2	3.26
		A2.1.7 D.C. Achitei, M.S. Baltatu, P. Vizureanu, A.V. Sandu, M. Benchea* , B. Istrate, "Ni-Cr Alloys Assessment for Dental Implants Suitability", Applied Sciences, IF = 2.7 , ISSN 2076-3417, vol. 12, nr. 24, 12814, pp.11, 2022, Applied Sciences Free Full-Text Ni-Cr Alloys Assessment for Dental Implants Suitability (mdpi.com) $2 \cdot 3 \cdot (0.2+2.7)/6=2.9$	P1.2	2.9
		A2.1.8 C. Panaghie, R. Cimpoesu, G. Zegan, A.M. Roman, M.C. Ivanescu, A.A. Aelenei, M. Benchea , N. Cimpoesu, N. Ioanid, "In Vitro Corrosion Behavior of Zn3Mg0.7Y Biodegradable Alloy in Simulated Body Fluid (SBF)", Applied Sciences, IF = 2.7 , ISSN 2076-3417, vol. 12, nr. 5, 2727, pp.20, 2022, Applied Sciences Free Full-Text In Vitro Corrosion Behavior of Zn3Mg0.7Y Biodegradable Alloy in Simulated Body Fluid (SBF) (mdpi.com) $3 \cdot (0.2+2.7)/9=0.966$	P1.4	0.97
		A2.1.9 C. Panaghie, N. Cimpoesu, M. Benchea , A.M. Roman, V. Manole, A. Alexandru, R. Cimpoesu, M.M. Cazacu, I. Wnuk, G. Zegan, "In-vitro Tests on New Biodegradable Metallic Material Based on ZnMgY", Arch Metall Mater, IF = 0.6 , ISSN 1733-3490, vol. 67, nr. 2, pp.587-594, 2022, "In-vitro" Tests on New Biodegradable Metallic Material Based on ZnMgY (imim.pl) $3 \cdot (0.2+0.6)/10=0.24$	P1.4	0.24

A2.1.10	I. Bălțatu, A.V. Sandu, M.S. Bălțatu, M. Benchea , D.C. Achitei, F. Ciolacu, M.C. Perju, P. Vizureanu, L. Benea, "Structural and Physical Characterization of New Ti-Based Alloys", Arch Metall Mater, IF = 0.6 , ISSN 1733-3490, vol. 67, nr. 1, pp.255-259, 2022, Structural and Physical Characterization of New Ti-Based Alloys (imim.pl) $3 \cdot (0.2+0.6)/9=0.266$	P1.4	0.27
A2.1.11	Mazurchevici S.N., Marguta A., Istrate B., Benchea M. , Boca M., Nedelcu D., "Improvements of Arboblend V2 Nature characteristics through depositing thin ceramic layers", Polymers, IF = 5 , ISSN 2073-4360, vol. 13, nr. 21, 3765, pp.21, 2021, Polymers Free Full-Text Improvements of Arboblend V2 Nature Characteristics through Depositing Thin Ceramic Layers (mdpi.com) $3 \cdot (0.2+5)/6=2.6$	P1.4	2.6
A2.1.12	M.S. Bălțatu, C.A. Țugui, M.C. Perju, M. Benchea , M.C. Spătaru, A.V. Sandu, P. Vizureanu, "Biocompatible Titanium Alloys used in Medical Applications", Revista de Chimie, IF = 1.755 , ISSN 0034-7752, vol. 70, nr. 4, pp.1302-1306, 2019, Biocompatible Titanium Alloys used in Medical Applications (revistadechimie.ro) $3 \cdot (0.2+1.755)/7=0.837$	P1.4	0.84
A2.1.13	Oancea I., Bujoreanu C., Budescu M., Benchea M. , Grădinaru C.M., "Considerations on sound absorption coefficient of sustainable concrete with different waste replacements", J. of Clean. Prod., IF = 11.1 , ISSN 0959-6526, Vol. 203, pp.301-312, DOI: 10.1016/j.jclepro.2018.08.273, 2018, Considerations on sound absorption coefficient of sustainable concrete with different waste replacements - ScienceDirect $3 \cdot (0.2+11.1)/5=6.78$	P1.4	6.78
A2.1.14	Bujoreanu C., Irimiciuc S., Benchea M. , Nedeff F., Agop M., "A fractal approach of the sound absorption behaviour of materials. Theoretical and experimental aspects", Int. J. of Non-Lin. Mech., IF = 3.2 , ISSN 0020-7462, vol.103, pp.128-137, 2018, A fractal approach of the sound absorption behaviour of materials. Theoretical and experimental aspects - ScienceDirect $3 \cdot (0.2+3.2)/5=2.04$	P1.4	2.04
A2.1.15	Bujoreanu C., Nedeff F., Benchea M. , Agop M., "Experimental and theoretical considerations on sound absorption performance of waste materials including the effect of backing plates", Appl. Acoustics, IF = 3.4 , ISSN 0003-682X, Vol. 119, pp.88-93, 2017, Experimental and theoretical considerations on sound absorption performance of waste materials including the effect of backing plates - ScienceDirect $3 \cdot (0.2+3.4)/4=2.7$	P1.4	2.7
A2.1.16	Istrate B., Munteanu C., Crimu C.I., Strugaru S.I., Benchea M. , Earar K., "Morphological and tribological aspects of some ZrO ₂ coatings on Mg-Ca biodegradable alloys", Indian J. of Eng. & Mat. Sci., IF =0.9 , ISSN 0971-4588, vol.23, pp.418-424, 2016, http://nopr.niscair.res.in/IJEMS%2023%286%29%20418-424.pdf $3 \cdot (0.2+0.9)/6=0.55$	P1.4	0.55
A2.1.17	Drăgan E., Odri G.A., Benchea M. , Ferariu D., Zugun-Eloae F., Geletu G., Galeșanu C., Haba D., Melian G., "Strontium ranelate effects on inorganic bone grafts in maxillary sinus floor augmentation", Revista de Chimie, IF = 1.755 , ISSN 0034-7752, vol. 67, nr. 3, pp.512-516, 2016, Strontium Ranelate Effects on Inorganic Bone Grafts in Maxillary Sinus Floor Augmentation (revistadechimie.ro) $3 \cdot (0.2+1.755)/9=0.651$	P1.4	0.65
A2.1.18	Crețu S., Benchea M. , Iovan-Dragomir A., "On basic reference rating life of cylindrical roller bearings. Part II - Elastic-Plastic Analysis", Journal of the Balkan Tribological Association, IF = 0.737 , ISSN 1310-4772, Vol. 22, No 1, pp.272-280, 2016, Article (scibulcom.net) $0.2+0.737=0.937$	P1.3	0.94
A2.1.19	Crețu S., Benchea M. , Iovan-Dragomir A., "On basic reference rating life of cylindrical roller bearings. Part I - Elastic Analysis", Journal of the Balkan Tribological Association, IF = 0.737 , ISSN 1310-4772, Vol. 21, No 4, pp.820-830, 2015, Article (scibulcom.net) $0.2+0.737=0.937$	P1.3	0.94
A2.1.20	Știrbu I., Vizureanu P., Cimpoșu R., Dascălu G., Gurlui S.O., Bernevig M., Benchea M. , Cimpoșu N., Postolache P., "Advanced metallic materials response at laser excitation for medical applications", Journal of Optoelectronics and Advanced Materials, IF = 0.5 , ISSN 1454-4164, vol. 17, ISS. 7-8, 2015, JOAM :: Articles (inoe.ro) $3 \cdot (0.2+0.5)/9=0.233$	P1.4	0.23
A2.1.21	Avram P., Imbrea M.S., Istrate B., Strugaru S.I., Benchea M. , Munteanu C., "Properties of Al ₂ O ₃ and NiAlSi coatings obtained by atmospheric plasma spraying on 34CrNiMo6 substrate", I Indian J. of Eng. & Mat. Sci., IF = 0.9 , ISSN 0971-4588, Vol. 21, pp.315-321, 2014, http://nopr.niscair.res.in/IJEMS%2021%283%29%20315-321.pdf , $3 \cdot (0.2+0.9)/6=0.55$	P1.4	0.55

A2.2 Articole și publicații științifice BDI ⁽⁵⁾ neincluse la A2.1		
A2.2.1 Munteanu C., Chicet D.L., Istrate B., Benchea M. , Paulin C., Vida-Simiti I., "Evaluation of abrasive wear resistance of self-fluxing Ni-base coatings by scratch testing", Journal of Engineering Sciences and Innovation, ISSN 2601-6699, vol. 8, nr. 1, pp.31-42, 2023, Journal of Engineering Sciences and Innovation	N3.2	1
A2.2.2 D.P. Burduhos-Nergis, A.V. Sandu, D.D. Burduhos-Nergis, N. Cimpoesu, M. Benchea , M. Popa, C. Bejinariu, "Tribological Characterization of Phosphate Coatings Deposited on Ti6Al4V", Selected Papers from ICIR EUROINVENT - 2023, Springer Proceedings in Materials, Springer, Cham., vol.38, pp.9-21, 2023, doi: 10.1007/978-3-031-45964-1_2, Tribological Characterization of Phosphate Coatings Deposited on Ti6Al4V SpringerLink	N3.2	1
A2.2.3 M.S. Bălțatu, P. Vizureanu, A.V. Sandu, I. Bălțatu, D.D. Burduhos-Negrus, M. Benchea , "Prospects on Titanium Biomaterials", European Journal of Materials Science and Engineering, ISSN 2537-4338, vol. 8, nr. 4, pp.201-212, 2023, Prospects on Titanium Biomaterials-EJMSE-23-191	N3.2	1
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A2.2.13 Bujoreanu C., Benchea M. , Ianuș G., Machado J., "Theoretical and Experimental Considerations on Acoustic Attenuation of Plenum Boxes Lined with Different Materials", Innovation, Engineering and Entrepreneurship. HELIX 2018, Lecture Notes in Electrical Engineering, vol 505, Springer, Cham., 2019, Theoretical and Experimental Considerations on Acoustic Attenuation of Plenum Boxes Lined with Different Materials SpringerLink	N3.2	1

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A2.2.16	Lupescu S., Munteanu C., Istrate B., Luca D., Benchea M. , Mahu G., "Experimental, microstructural and tribological studies of the system Mg-2Ca-5Y", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 444, doi:10.1088/1757-899X/444/3/032008, 2018, Experimental, microstructural and tribological studies of the system Mg-2Ca-5Y - IOPscience	N3.2	1
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A2.2.20	Țugui C.A., Vizureanu P., Perju M.C., Savin C., Nejneru C., Bălțatu M.S., Bejinariu C., Benchea M. , "Assessment of Hard Thin Layers Deposited by Plasma Spray on Hydroboration", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 374, DOI: 10.1088/1757-899X/374/1/012029, 2018, Assessment of Hard Thin Layers Deposited by Plasma Spray - IOPscience	N3.2	1
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A2.2.22	M.S. Bălțatu, P. Vizureanu, M. Benchea , M.G. Minciună, D.C. Achiței, B. Istrate, "Ti-Mo-Zr-Ta Alloy for Biomedical Applications: Microstructures and Mechanical Properties", Key Engineering Materials, ISSN 1013-9826, Vol. 750, pp.184-188, 2017, https://www.scientific.net/KEM.750.184	N3.2	1
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A2.2.29	D.C. Achiței, M.M.A.B. Abdullah, A.V. Sandu, A.C. Țugui, M. Benchea , "Structural Modifications of Superficial Layer of C45 Steel Samples Through WT20 and WZr8 Depositions", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 209(1), 012053, 2017, Structural Modifications of Superficial Layer of C45 Steel Samples Through WT20 and WZr8 - IOPscience	N3.2	1
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A2.2.32	Mihai Rusu, Daniela Ioniță, Marcelin Benchea , Vlad Cârlescu and Dumitru Olaru, „Friction of the polymers. Experimental results and analytical model”, Applied Mechanics and Materials, ISSN 1662-7482, Vol. 823, pp.473-478, Trans Tech Publications, Elveția, 2016, http://www.scientific.net/AMM.823.473	N3.2	1
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A2.2.39	A.C. Bărbîntă, R. Chelariu, M. Benchea , C.I. Crimu, S.I. Strugaru, C. Munteanu, „A comparative analysis of new Ti-Nb-Zr-Ta orthopedic alloys”, Advanced Materials Research, Vol. 837, pp.259-264, Trans Tech Publications, Elveția, 2014, doi:10.4028/ Scopus - Document details - A comparative analysis of new Ti-Nb-Zr-Ta orthopedic alloys	N3.2	1
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		A2.2.43 Crețu S., Benchea M. , „Analysis of Residual Stresses Impact on Fatigue Life of Rolling Contacts”, STLE/ASME International Joint Tribology Conference IJTC2007-paper 44399, October 22-24, 2007, San Diego, California, USA, 2007, Scopus - Document details - Analysis of residual stresses impact on fatigue life of rolling contacts	N3.2	1
		A2.4 Produse, tehnologii, platforme și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare)		
		A2.4.1 Metodologie și implementare pentru determinarea atenuării de zgomot a unui perete multistrat. Obs: A fost derulat 1 contract de cercetare cu agenți economici unde sunt director de proiect (A3.1.1) și publicat 1 articol (A2.2.4).	N4.1	1
		A2.4.1 Metodologie și implementare pentru diagnosticarea acustică a unităților de ventilat de tip HVAC. Obs: Au fost derulate 7 contracte de cercetare cu agenți economici unde sunt membru în echipa de proiect (A3.1.7, A3.1.8, A3.1.10, A3.1.12, A3.1.15, A3.1.16 și A3.1.17) și publicate 3 articole (A2.2.27, A2.2.33 și A3.2.18) cu 8 citări (A3.3.29, A3.3.31).	N4.2	1
		A2.4.2 Metodologie și implementare pentru diagnosticare acustică a atenuatoarelor de zgomot pentru unitățile de tip HVAC Obs: Au fost derulate 3 contracte de cercetare cu agenți economici unde sunt membru în echipa de proiect (A3.1.9, A3.1.11 și A3.1.13) și publicate 4 articole (A2.2.9, A2.2.11, A2.2.13 și A2.2.25).	N4.2	1
		A2.4.3 Metodologie și implementare a sistemului de măsurare a coeficienților de absorbție acustică a materialelor. Obs: A fost derulat 1 contract de cercetare cu agenți economici unde sunt membru în echipa de proiect (A3.1.14) și publicate 3 articole (A2.1.13, A2.1.14 și A2.1.15) cu 132 de citări (A3.3.13, A3.3.15 și A3.3.25).	N4.2	1
		A2.4.4 Metodologie originală și stand (adaptare tribometru CETR UMT-2) pentru estimarea influenței zonelor plastice interioare asupra stării de tensiuni și deformații la solicitarea de contact a diverselor tipuri de elemente de mașină din structura sistemelor mecanice. Obs: Au fost derulate 2 contracte de cercetare câștigate prin competiție națională unde sunt director sau membru în echipa de proiect (A3.1.18 și A3.1.19) și publicate 11 articole (A2.2.42, A2.2.43, A3.2.35, A3.2.36, A3.2.37, A3.2.38, A3.2.39, A3.2.40 și A3.2.41) cu 10 citări (A3.3.44), concretizate ulterior prin publicarea monografiei A2.5.1.	N4.1	1
		A2.5 Monografii/cărți de specialitate ⁽²⁾ , format tipărit/electronic (min. 100 pag.)		
		A2.5.1 Marcelin BENCHEA , „Impactul zonelor plastice interioare asupra comportării tribologice și a durabilității contactelor de rostogolire”, Editura Politehnicum, Iași, ISBN 978-973-621-493-6, 140 pg., 2020	N4.3	1
3	Recunoașterea și impactul activității - RIA (A3)	A3.1 Atragere resurse financiare prin granturi/proiecte/contracte terți		
		A3.1.1 Contract nr. 4637/2023. <i>Analiza și determinarea atenuării de zgomot a unui perete multistrat</i> Beneficiar: S.C. <i>EXTENSIVE NETWORK SRL</i> Iași Director proiect: conf.univ.dr.ing. Marcelin BENCHEA , U.T. Iași Valoare proiect: 12605 RON 12.605/4.9465=2.548 Perioada: 2023 (curs mediu euro 4.9465)	S1	2.55
		A3.1.2 GRANT UEFISCDI PN-III-P1-1.1-TE-2021-0702 tema 27TE/2021. <i>Materiale metalice biodegradabile inovative din sistemul Mg-Ca-Zn utilizate în aplicații ortopedice</i> Beneficiar: <i>UEFISCDI</i> Director proiect: conf.univ.dr.ing. Bogdan Istrate, U.T. Iași Valoare proiect: 450000 RON 0.25·(136.8/4.9315+225.8/4.9465)=22.959	S2	22.96

	<p>Perioada: 2021-2023 (curs mediu euro 4.9315/4.9465) (valoare anuală 136800/225800 R) Marcelin BENCHEA: membru în echipa de cercetare (7 membri)</p>		
	<p>A3.1.3 Contract nr. 25212/2020. <i>Program in Materials, Additive and Manufacturing, and Multiscale materials Engineering. 3ME</i> Beneficiar: <i>US Army</i> Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iași Valoare proiect: 100000 USD 0.25·(106.5675/4.9204+335.0325/4.9315)=22.398 Perioada: 2020-2022 (curs mediu euro 4.9204/4.9315) (valoare anuală 106567.5/332032.5 R) Marcelin BENCHEA: membru în echipa de cercetare (7 membri)</p>	S2	22.40
	<p>A3.1.4 GRANT UEFISCDI PN-III-P1-1.2-PCCDI-2017-0239 tema 60PCCDI/2018. <i>Obținerea și expertizarea unor noi materiale biocompatibile pentru aplicații medicale. Proiect component 1 ORTOMAG</i> Beneficiar: <i>UEFISCDI</i> Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iași Valoare proiect: 445000 RON 0.25·(118.62/4.6535+113.1765/4.7453+182.628/4.8371+30.2755/4.9204)=23.316 Perioada: 2018-2021 (curs mediu euro 4.6535/4.7452/4.8371/4.9204) (valoare anuală 118620/113176.5/118628/30275.5 R) Marcelin BENCHEA: membru în echipa de cercetare (14 membri)</p>	S2	23.32
	<p>A3.1.5 GRANT UEFISCDI PN-III-P1-1.2-PCCDI-2017-0239 tema 60PCCDI/2018. <i>Obținerea și expertizarea unor noi materiale biocompatibile pentru aplicații medicale. Proiect component 3 BIODENTRUT</i> Beneficiar: <i>UEFISCDI</i> Director/Responsabil proiect: conf.univ.dr.ing. Bogdan Istrate, U.T. Iași Valoare proiect: 212000 RON 0.25·(61.48/4.6535+65.19/4.7453+73.196/4.8371+12.134/4.9204)=11.138 Perioada: 2018-2021 (curs mediu euro 4.6535/4.7452/4.8371/4.9204) (valoare anuală 61480/65190/73196/12134 R) Marcelin BENCHEA: membru în echipa de cercetare (6 membri)</p>	S2	11.14
	<p>A3.1.6 Contract nr. 488/2018. <i>Testarea pe tribometre a lubrifianților auto de tip Metalubs</i> Beneficiar: <i>S.C. Metalubs S.R.L. Brașov</i> Director proiect: conf.univ.dr.ing. Viorel Paleu, U.T. Iași Valoare proiect: 17226 RON 0.5·17.226/4.6535=1.85 Perioada: 2018 (curs mediu euro 4.6535) Marcelin BENCHEA: membru în echipa de cercetare (5 membri)</p>	S2	1.85
	<p>A3.1.7 Contract nr. 21896/2018. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-300 Built-in, fabricată de S.C.Ensyro SRL</i> Beneficiar: <i>S.C. ENSYRO S.R.L. Cluj-Napoca</i> Director proiect: prof.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON 0.5·10/4.6535=1.07 Perioada: 2018 (curs mediu euro 4.6535) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.07
	<p>A3.1.8 Contract nr. 16663/2017. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-700BV/BH, fabricată de S.C. Ensyro SRL</i> Beneficiar: <i>S.C. ENSYRO S.R.L. Cluj-Napoca</i> Director proiect: prof.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON 0.5·10/4.5681=1.09 Perioada: 2017 (curs mediu euro 4.5681) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.09

		<p>A3.1.9 Contract nr. 1615P/2016. <i>Analiza caracteristicii de zgomot și a atenuării pentru 9 variante constructive de atenuatoare căptușite cu materiale diferite</i> Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 15000 RON 0.5·15/4.4908=1.67 Perioada: 2016 (curs mediu euro 4.4908) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.67
		<p>A3.1.10 Contract nr. 605P/2016. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-400BV/BH, fabricată de S.C. Ensyro SRL</i> Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON 0.5·10/4.4908=1.11 Perioada: 2016 (curs mediu euro 4.4908) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.11
		<p>A3.1.11 Contract nr. 2001P/2015. <i>Analiza caracteristicii de zgomot pentru patru variante constructive de atenuatoare de zgomot (125/125 la 90° și 180°; 160/160 la 90° și 180°) produse de S.C. Ensyro SRL</i> Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON 0.5·10/4.445=1.12 Perioada: 2015 (curs mediu euro 4.445) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.12
		<p>A3.1.12 Contract nr. 1980P/2015. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-350BV, fabricată de S.C. Ensyro SRL</i> Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON 0.5·10/4.445=1.12 Perioada: 2015 (curs mediu euro 4.445) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.12
		<p>A3.1.13 Contract nr. 1324P/2015. <i>Analiza caracteristicii de zgomot pentru patru variante constructive de atenuatoare de zgomot (125/125; 160/160; 200/200; 250/250) produse de S.C. Ensyro SRL</i> Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 15000 RON 0.5·15/4.445=1.69 Perioada: 2015 (curs mediu euro 4.445) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.69
		<p>A3.1.14 Contract nr. 1101P/7.07.2015. <i>Analiza coeficientului de absorbție acustică pentru materiale fonoabsorbante</i> Beneficiar: UNIVERSITATEA „VASILE ALECSANDRI” din BACĂU Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 5000 RON 0.5·5/4.445=0.56 Perioada: 2015 (curs mediu euro 4.445) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	0.56
		<p>A3.1.15 Contract nr. 60P/20.01.2015. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-300BV/BH, fabricată de S.C. Ensyro SRL</i></p>	S2	1.12

		<p>Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON 0.5·10/4.445=1.12 Perioada: 2015 (curs mediu euro 4.445) Marcelin BENCHEA: membru în echipa de cercetare (3 membri)</p>		
		<p>A3.1.16 Contract nr. 1489P/21.10.2014. Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-300H, fabricată de S.C. Ensyro SRL Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON 0.5·10/4.4446=1.12 Perioada: 2014 (curs mediu euro 4.4446) Marcelin BENCHEA: membru în echipa de cercetare (3 membri)</p>	S2	1.12
		<p>A3.1.17 Contract nr. 1010P/14.07.2014. Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-400HV, fabricată de S.C. Ensyro SRL Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 8065 RON 0.5·8.065/4.4446=0.91 Perioada: 2014 (curs mediu euro 4.4446) Marcelin BENCHEA: membru în echipa de cercetare (3 membri)</p>	S2	0.91
		<p>A3.1.18 GRANT CNCSIS TD-190 contract nr.338/1.10.2007 tema Cercetări privind influența zonelor plastice interioare asupra stării de tensiuni și deformații la solicitarea de contact Beneficiar: CNCSIS Director proiect: Marcelin BENCHEA, U.T. Iași Valoare proiect: 40497 RON (7.1/3.3373+26.5/3.6827+6.89677/4.2373)=10.95 Perioada: 2007-2009 (curs mediu euro 3.3373/3.6827/4.2373) (valoarea anuală 7100/26500/6896.77 RON)</p>	S1	10.95
		<p>A3.1.19 GRANT CNCSIS Tip A 63GR/2006 tema 9/28, 80GR/2007 tema 17, 77GR/2008 tema 9 Cercetări teoretice și experimentale privind relația dintre microtopografie, rodaj și fiabilitatea contactelor cu rostogolire cu aplicație pe rulmenți de turație înaltă și angrenaje cilindrice Beneficiar: CNCSIS Director proiect: prof.univ.dr.ing. Spiridon Crețu, U.T. Iași Valoare proiect: 159500 RON 0.25·(53/3.5245+47.7/3.3373+58.8/3.6827)=11.32 Perioada: 2006-2008 (curs mediu euro 3.5245/3.3373/3.6827) (valoarea anuală 53000/47700/58800 RON) Marcelin BENCHEA: membru în echipa de cercetare (10 membri)</p>	S2	11.32
		<p>A3.2 Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat</p>		
		<p>A3.2.1 Participare la conferința: "The 11th International Conference Modern Technologies in Industrial Engineering - ModTech 2023", June 14-17, 2023, Bucharest, Romania, cu lucrarea A2.2.1, Book of abstracts Conference ModTech 2023</p>	N5	1
		<p>A3.2.2 Participare la conferința: "The 15th edition of International Conference on Innovative Research - ICIR Euroinvent 2021", May 11-13, 2023, Iași, România, cu lucrarea A2.2.2, ICIR_2023.pdf (euroinvent.org)</p>	N5	1
		<p>A3.2.3 Participare la conferința: "The 3rd International Biennial Conference on Biomaterials and Novel Technologies for Healthcare - BIOMAH 2022", October 18-21, 2022, Rome, Italy, Programme-3rd-BioMaH-v18_var01.pdf (cnr.it), cu lucrarea:</p>	N5	1

	1. B. Istrate, C. Munteanu, R. Cimpoescu, M. BENCHEA , M.S. Baltatu, J.V. Rau, „Influence of Zn on properties evaluation of Mg-0.5Ca-xZn biodegradable alloys”.		
A3.2.4	Participare la conferința: ”The 12 th International Conference on Materials Science and Engineering - BRAMAT 2022”, March 9-12, 2022, Braşov, România cu lucrările A2.2.3 și III (bramat.ro) : C. Munteanu, R.G. Ciubotariu, M. BENCHEA , V. Paleu, B. Istrate, S. Muftu, „Morphological and tribological evaluation of Ni-CRC cold spray coatings deposited on AISI 1018 steel”.	N5	1
A3.2.5	Participare la conferința: ”ICIE2022 - International Conference Innovation in Engineering”, June 28-30, 2022, Guimarães, Portugal, cu lucrarea A2.2.1, 2022_06_22 - PROGRAM - GLOBAL.pdf (dropbox.com)	N5	1
A3.2.6	Participare la conferința: ”ICIE2020 - International Conference Innovation in Engineering”, June 28-30, 2021, Guimarães, Portugal, cu lucrările A2.2.5 și A2.2.6, 2021_06_27-ICIE2020-SCHEDULE.pdf (icieng.eu)	N5	1
A3.2.7	Participare la conferința: ”The 7 th edition of International Conference on Innovative Research - ICIR Euroinvent 2021”, May 20-21, 2021, Iași, România, ICIR_2021.pdf (euroinvent.org) , cu lucrările: 1. C. Panaghie, R. Cimpoescu, M. BENCHEA , A.M Roman, V. Manole, A. Alexandru, N. Cimpoescu, M.M. Cazacu, „Preliminary Results of in Vitro Tests on New Biodegradable Metallic Material Based on ZnMgY”. 2. D.C. Achitei, M.S. Baltatu, S.C. Lupescu, A.V. Sandu, M. BENCHEA , „Characterization of Ni-Cr Alloys Used for Dental Applications”.	N5	1
A3.2.8	Participare la conferința: ”The 14 th International Conference on Tribology ROTRIB’19”, September 19-21, 2019, Cluj-Napoca, România, cu lucrarea A2.2.7, Program (utcluj.ro)	N5	1
A3.2.9	Participare la conferința: ”The 23 th edition of IManEE 2019 International Conference”, May 22-24, 2019, Pitești, România, cu lucrarea A2.2.8, Program IManEE 2019	N5	1
A3.2.10	Participare la conferința: ”The X th Product Design, Robotics, Advanced Mechanical & Mechatronic Systems and Innovation Conference - PRASIC’2018”, November 9-10, 2018, Braşov, România, cu lucrarea A2.2.9, Conferințe - Facultatea de Design de produs și mediu (unitbv.ro)	N5	1
A3.2.11	Participare la conferința: ”Regional HELIX 2018 - International Conference on Innovation, Engineering and Entrepreneurship”, June 27-29, 2018, Guimarães, Portugal, cu lucrarea A2.2.10, Schedule - Regional HELIX (ipcb.pt)	N5	1
A3.2.12	Participare la conferința: ”The 8 th International Conference on Advanced Concepts in Mechanical Engineering ACME 2018”, June 7-8, 2018, Iași, România, cu lucrările A2.2.13, A2.2.14 și A2.2.15, ACME Machine Elements and Tribology	N5	1
A3.2.13	Participare la conferința: ”The 4 th edition of International Conference on Innovative Research - ICIR Euroinvent 2018”, May 17-18, 2018, Iași, România, cu lucrările A2.2.16 și A2.2.17, ICIR2018.pdf (euroinvent.org)	N5	1
A3.2.14	Participare la conferința: ”The 5 th International Conference on Powder Metallurgy & Advanced Materials RoPM-AM2017”, September 17-20, 2017, Cluj-Napoca, România, cu lucrările A2.2.11 și A2.2.12, RoPM-AM2017 (easychair.org)	N5	1
A3.2.15	Participare la conferința: ”The 21 th edition of Innovative Manufacturing Engineering and Energy International Conference - IManEE 2017”, May 25-26, 2017, Iași, România, cu lucrarea A2.2.22, Program IManEE 2017	N5	1
A3.2.16	Participare la conferința: ”The 3 rd edition of International Conference on Innovative Research - ICIR Euroinvent 2017”, May 25-26, 2017, Iași, România, cu lucrările A2.2.25 și A2.2.26, ICIR_2017.pdf (euroinvent.org)	N5	1
A3.2.17	Participare la conferința: ”The 10 th International Conference on Materials Science and Engineering - BRAMAT 2017”, March 8-11, 2017, Braşov, România, cu lucrările A2.2.19, A2.2.20 și A2.2.23, Schedule Program (bramat.ro)	N5	1
A3.2.18	Participare la conferința: ”The 40 th International Conference on Mechanics of Solids, Acoustics and Vibrations & The 6 th International Conference on Advanced Composite Materials Engineering - COMAT2016 & ICMSAV2016”, November 24-25, 2016, Braşov, România, FINAL PROGRAMME - ICMSAV 2016 and COMAT 2016 (google.com) cu lucrarea:	N5	1

	M. Benchea, C. Bujoreanu, "Experimental investigation of noise parameters in HVAC systems", Bulletin of Transilvania University of Braşov, Series 1-Engineering Sciences, vol.1, pp.42-47, 2016, EXPERIMENTAL (unitbv.ro)		
	A3.2.19 Participare la conferinţa: "The 13 th International Conference on Tribology ROTRIB'16", September 22-24, 2016, Galaţi, România, cu lucrarea A2.2.24, Schedule Program Rotrib16 - IOPscience	N5	1
	A3.2.20 Participare la conferinţa: "The 7 th International Conference on Advanced Concepts in Mechanical Engineering ACME2016", June 9-10, 2016, Iaşi, România, cu lucrarea A2.2.29, ACME Machine Elements and Tribology (tuiasi.ro)	N5	1
	A3.2.21 Participare la conferinţa: "The 6 th International Conference „Computational Mechanics and Virtual Engineering, COMEC2015", October 15-16, 2015, Braşov, România, FINAL PROGRAMME COMEC2015 (google.com) cu lucrarea: Mihai Adrian Rusu, Daniela Ioniţă, Marcelin BENCHEA , Vlad Cârlescu, Dumitru Olaru, „Analytical Model for Friction Force Between a Steel Roller and a Plane Polymer Sample in Sliding Motion”, Bulletin of Transilvania University of Braşov, Series 1-Engineering Sciences, vol.68, pp.383-388, ISSN 2457-8541, 2015, Analytical Model for Friction Force (unitbv.ro)	N5	1
	A3.2.22 Participare la conferinţa: "International Conference of Mechanical Engineering, ICOME 2015", October 8-9, 2015, Craiova, România, cu lucrarea A2.2.27, Papers (ucv.ro)	N5	1
	A3.2.23 Participare la conferinţa: "The 19 th edition of Innovative Manufacturing Engineering and Energy International Conference - IManEE 2015", May 21-22, 2015, Iaşi, România, cu lucrările A2.2.31 şi A2.2.32, Conference Program IManE	N5	1
	A3.2.24 Participare la conferinţa: "The 18 th International Conference TEHNOMUS New Technologies and Products in Machines Manufacturing Technologies", May 8-9, 2015, Suceava, România, Program final 2015.pdf (usv.ro) cu lucrarea: Mihaela Rodica Balan, Ana Tufescu, Marcelin Benchea , Dumitru Olaru, "Influence of the cage on the friction in low loaded thrust ball bearings", TEHNOMUS CONFERENCE (usv.ro)	N5	1
	A3.2.25 Participarea la conferinţa: "The 8 th International Conference on Tribology BALKANTRIB'14", 30 th Oct.-1 st Nov., 2014, Sinaia, România, Balkantrib 2014 (upg-ploiesti.ro) cu lucrările: 1. Carmen Bujoreanu, Marcelin BENCHEA , Dumitru Olaru, „Acoustic Emission Monitoring of Lubrication Regimes in Rolling Contacts”, LL&A4, diseminată ulterior în Buletinul IPI, Tomul LXI (LXV), Fasc. 1, Secţia Construcţiei de Maşini, ISSN 1011-2855, pp.123-134, 2015. 2. Dumitru N. Olaru, Mihaela Rodica D. Bălan, Marcelin BENCHEA , Alexandru Budel, Gheorghe Prisacaru, „Influence of the Balls Interactions Forces on Friction in Linear Guidance Systems”, TME7. 3. Spiridon Creţu, Marcelin BENCHEA , Alina Iovan Dragomir, „The Misalignment and Reference Rating Life of Cylindrical Roller Bearings - an Elastic-Plastic Analysis”, Cmech5, diseminată ulterior în lucrările A2.1.12 şi A2.1.13. 4. George Gavrilă, Marcelin BENCHEA , Spiridon Creţu, „Experimental Evaluation of the Stick-Slip Phenomenon”, BALKANTRIB'14, 8th International Conference on Tribology, Cmech6.	N5	1
	A3.2.26 Participare la conferinţa: "The 4 th International Congress of Physical Education, Sports and Kinetotherapy", June 11-13, 2014, Bucureşti, România, cu lucrarea A2.2.33, http://www.unefs.ro/international/Program_ICPESK_2014.pdf	N5	1
	A3.2.27 Participare la conferinţa: "The 5 th World Tribology Congress WTC2013", September 8-13, 2013, Torino, Italy, cu lucrarea A2.2.37, WTC2013-1183, Program (wtc2013.it)	N5	1
	A3.2.28 Participare la conferinţa: "The 17 th International Conference TEHNOMUS New Technologies and Products in Machines Manufacturing Technologies", May 17-18, 2013, Suceava, România, Program final 2013.pdf (usv.ro) cu lucrarea: Iuliana Rotaru, Bogdan Istrate, Marcelin Benchea , Ana Tufescu, Dumitru Olaru, "Mechanical and Structural Characteristics of p(HEMA) Hydrogel for Lumbar Disc Prosthesis", TEHNOMUS CONFERENCE (usv.ro)	N5	1
	A3.2.29 Participare la conferinţa: "The 11 th Biennial Conference on Engineering Systems Design and Analysis ESDA2012", July 2-4, 2012, Nantes, France, cu lucrarea A2.2.38, ESDA2012-82491, ASME 2012 11th Biennial Conference on Engineering Systems Design and Analysis - ESDA2012 (asmeconferences.org)	N5	1

	<p>A3.2.30 Participare la conferința: "The 16th International Conference on EHD Lubrication and Traction VAREHD16", October 25-27, 2012, Suceava, România, Preliminary.Conference.Program.[site].docx (usv.ro) cu lucrarea: Balan L., Benchea M., Tufescu A., Olaru D., Crețu S., "Local scuffing in lubricated roller contacts", vol. 16, ISSN 1844-8917, Proceedings of VAREHD, Vol. 16, 2012 (usv.ro)</p>	N5	1
	<p>A3.2.31 Participare la conferința: "The 5th International Conference on Advanced Concepts in Mechanical Engineering ACME2012", June 14-15, 2012, Iași, România, ACME 2012 - The 5th International Conference (tuiasi.ro) cu lucrările: 1. Benchea M., Crețu S., "Profile evolution in cylindrical roller bearings", pe CD ISSN 2285-2301, plen, paper 4, diseminată ulterior în Buletinul IPI, Tomul LVIII (LXII), Fasc. 2, Secția Construcției de Mașini, ISSN 1011-2855, pp.27-35, 2012. 2. Băsescu G.N., Munteanu C., Pintilei G.L., Drăgan A.G., Bărbîntă A.C., Benchea M., "Study of the scratch resistance and coating adhesion of the ceramic layer Al₂O₃-TiO₂ obtained by plasma spray deposition method", pe CD ISSN 2285-2301.</p>	N5	1
	<p>A3.2.32 Participare la conferința: "The 3rd International Conference on Diagnosis and Prediction in Mechanical Engineering Systems DIPRE2012", 31st May - 1st June, 2012, Galați, România, http://www.om.ugal.ro/dipre12/CD/index.htm cu lucrarea: Balan L., Benchea M., Tufescu A., Olaru D., "Experimental determination of the friction coefficient in a simulated gear transmission", pe CD ISSN 2285-1887.</p>	N5	1
	<p>A3.2.33 Participare la conferința: "The 11th International Conference on Tribology ROTRIB'10", November 4-7, 2010, Iași, România, ROTRIB 2010 - 11th International Conference on Tribology (tuiasi.ro) cu lucrarea: Benchea M., Crețu S., "Experimental tests and numerical analysis in elastic-plastic domain of concentrated contacts", RO-066, Proceedings of ROTRIB'10 pe CD.</p>	N5	1
	<p>A3.2.34 Participare la conferința: "The 4th International Conference on Advanced Concepts in Mechanical Engineering ACME2010", June 17-18, 2010, Iași, România, Program final ACME 2010.doc (tuiasi.ro) cu lucrarea: Bălan M.R., Stamate C., Benchea M., Dumitrașcu A., "Experimental Study of Friction in Dry Micro Rough Contacts", Proceedings of the ACME2010 pe CD, ISSN 2285-2301.</p>	N5	1
	<p>A3.2.35 Participare la conferința: "The 14th International Conference on EHD Lubrication and Traction VAREHD14", October 10-12, 2008, Suceava, România, Home (usv.ro) cu lucrarea: Benchea M., Crețu S., "An Improved Incremental Model to Analyse Elastic-Plastic Concentrated Contacts - The Finite Element Analysis and Validation", vol. 14, ISSN 1844-8917, pp.1-7, Proceedings of VAREHD vol 14.docx (usv.ro)</p>	N5	1
	<p>A3.2.36 Participare la conferința: "The 3rd International Conference on Advanced Concepts in Mechanical Engineering ACME2008", June 9-10, 2008, Iași, România, ACME 2008 - The 3th International Conference (tuiasi.ro) cu lucrările: 1. Benchea M., Crețu S., "A three-dimensional elastic-plastic analysis of concentrated contacts - 1. Finite element model. Results and validation", Proceedings of the 3rd International Conference ACME2008, ISSN 2285-2301. 2. Crețu S., Benchea M., "A three-dimensional elastic-plastic analysis of concentrated contacts - 2. Incremental model. Results and validation", Proceedings of the 3rd International Conference ACME2008, ISSN 2285-2301.</p>	N5	1
	<p>A3.2.37 Participare la conferința: "The 16th International Colloquium Tribology Technische Akademie Esslingen", January 9-10, 2008, Esslingen, Germany, International Colloquium Tribology: TAE cu lucrările: 1. Crețu S., Benchea M., "An Improved Incremental Model to Analyse Elastic-Plastic Concentrated Contacts", Lubricants, Materials and Lubrication Engineering - Book of Synopses 2008, ISBN 978-3924813734. 2. Crețu S., Benchea M., "Fatigue Life of Ball Bearings and Residual Stresses", Lubricants, Materials and Lubrication Engineering - Book of Synopses 2008, ISBN 978-3924813734.</p>	N5	1
	<p>A3.2.38 Participare la conferința: "The ASME International Mechanical Engineering Congress and Exposition IMECE2007", November 11-15, 2007, Seattle, Washington, USA, Compressive Residual ASME Digital Collection cu lucrarea A2.2.39.</p>	N5	1
	<p>A3.2.39 Participare la conferința: "The 10th International Conference on Tribology ROTRIB'07", November 8-10, 2007,</p>	N5	1

	<p>București, România, ROTRIB 2007 - International Tribology Conference (pub.ro) cu lucrările:</p> <p>1. Benchea M., Crețu S., 2007, "A three-dimensional elastic-plastic analysis of rolling contacts", RO-093, Proceedings of ROTRIB'07 pe CD, ISSN 2069-1718.</p> <p>2. Crețu S., 2007, Benchea M., "Residual stresses effect on fatigue life of rolling contacts", RO-094, Proceedings of ROTRIB'07 pe CD, ISSN 2069-1718.</p>		
	<p>A3.2.40 Participare la conferința: "The ASME/STLE 2007 International Joint Tribology Conference IJTC2007", October 22-24, 2007, San Diego, California, USA, Analysis of Residual Stresses Impact on Fatigue Life of Rolling Contacts International Joint Tribology Conference ASME Digital Collection cu lucrarea A2.2.40.</p>	N5	1
	<p>A3.2.41 Participare la conferința: "The 2nd International Conference on Advanced Concepts in Mechanical Engineering ACME2006", June 9-10, 2006, Iași, România, Conferințe Internaționale – Facultatea de Mecanică Iași (tuiasi.ro) cu lucrarea: Benchea M., Crețu S., "Incremental model of an elasto-plastic contact", Proceed. of ACME2006 pe CD, ISSN 1011-2855.</p>	N5	1
	<p>A3.3 Citări în publicații BDI⁽⁵⁾ (se exclud autocitățile)</p>		
	<p>A3.3.1 D. Agop Forna, C. Topoliceanu, O. Stamatina, N. Forna, C. Munteanu, M. Benchea, A. Davidescu, B. Toader, R. Biciusca, N. Forna, "The Biomechanical Characteristics of Intraoral Bone Reconstruction Materials", Romanian Journal of Oral Rehabilitation, IF = 0.7, ISSN 2066-7000, vol. 15, nr. 2, pp.388-398, 2023, Romanian Journal of Oral Rehabilitation (rjor.ro), cu citările: 1+0.7=1.7</p> <p>1. M.A. Rădoi (Drăghici), E. Osiac, L.C. Lascu, O. Gîngu, I. Mitruț, A.I. Sălan, R. Mercuț, I. Antoniac, H.O. Manolea, "A Digital Approach for the Analysis of the Optical Coherence Tomography Evaluation of Hydroxyapatite - Based Bone Graft Materials", Romanian Journal of Oral Rehabilitation, IF = 0.7, ISSN 2066-7000, vol. 15, nr. 3, pp.42-53, 2023, Romanian Journal of Oral Rehabilitation (rjor.ro)</p>	C	1.7
	<p>A3.3.2 M. Luțcanu, R. Cimpoesu, M. Abrudeanu, C. Munteanu, S. Moga, M. Coteata, G. Zegan, M. Benchea, N. Cimpoesu, A.M. Murariu, "Mechanical Properties and Thermal Shock Behavior of Al₂O₃-YSZ Ceramic Layers Obtained by Atmospheric Plasma Spraying", Crystals, IF = 2.7, ISSN 2073-4352, vol. 13, nr. 4, 614, pp.16, 2023, Crystals Free Full-Text Mechanical Properties and Thermal Shock Behavior of Al2O3-YSZ Ceramic Layers Obtained by Atmospheric Plasma Spraying (mdpi.com), cu citările: 2+2.2.7=7.4</p> <p>1. J. Wang, L. Li, Y. Wu, Y. Wang, "The Influence of Hydrothermal Temperature on Alumina Hydrate and Ammonioalunite Synthesis by Reaction Crystallization", Crystals, IF = 2.7, ISSN 2073-4352, vol. 13, nr. 5, 763, pp.12, 2023, Crystals Free Full-Text The Influence of Hydrothermal Temperature on Alumina Hydrate and Ammonioalunite Synthesis by Reaction Crystallization (mdpi.com)</p> <p>2. M. Chen, J. Li, W. Su, Z. Nie, B. Zhong, X. Dong, "Residual Stress Testing and Simulation Analysis of Crystal Structures of Electronic Device Materials", Crystals, IF = 2.7, ISSN 2073-4352, vol. 13, nr. 10, 1462, pp.16, 2023, Crystals Free Full-Text Residual Stress Testing and Simulation Analysis of Crystal Structures of Electronic Device Materials (mdpi.com)</p>	C	7.4
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	Total:	C1 343	SFI 897.12

Data: 19/02/2024

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