

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI
FACULTATEA DE MECANICĂ
DEPARTAMENTUL DE INGINERIE MECANICĂ, MECATRONICĂ ȘI ROBOTICĂ
 Concurs pentru ocuparea postului de **Conferențiar universitar**, poz. 17

Disciplinele postului: **Elemente de Inginerie Mecanică**
Mecatronica Automobilului
Organe de Mașini II

FIȘA DE VERIFICARE

a îndeplinirii standardelor minime naționale de prezentare la concurs pentru postul de Conferențiar universitar

publicat în Monitorul Oficial al României, Partea a III-a, nr. 1242 din 3/12/2021

Candidat: **BENCHEA I. Marcelin** / Data nașterii: **16/09/1979** Funcția actuală: șef de lucrări, Data numirii în funcția actuală: **26 septembrie 2016**

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

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

Anexa 17: Comisia Inginerie mecanică, mecatronică și robotică

Condiții minime și obligatorii Conferențiar				
Domeniul de activitate		Indicatori	impus	realizat
Activitatea didactică / profesională (A1)	A1.1	N1	2	2
		N1.1	0	2
		N1.3	1	1
	A1.2	N2	3	15
		N2.1	1	12
Activitatea de cercetare (A2)	A2.1 + A2.3	P1+P2	5	16.72
		P1	3	16.72
	A2.2	N3	8	36
		N3.1	3	5
	A2.4 + A2.5	N4	1	5
		N4.3	0	1
Recunoașterea impactului activității (A3)	A3.1	S1 + S2	10	51.94
	A3.2	N5	5	36
	A3.3	C	10	657.48

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	Subcategorii			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
		Produse, 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⁾
				Membru 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 SFI = 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 minime 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 Conferențiar 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, “ <i>Mecatronica Automobilului. Echipamente de management și control</i> ”, Editura Politehnicum, Iași, ISBN 978-973-621-502-5, 165 pg., 2021	N1.1	1
		A1.1.2 Marcelin BENCHEA , Flavian Farcaș, “ <i>Mecatronica Automobilului. Echipamente de siguranță și confort</i> ”, Editura Politehnicum, Iași, ISBN 978-973-621-503-2, 165 pg., 2021	N1.1	1
		A1.1.3 Marcelin BENCHEA , “ <i>Echipamente Mecatronice ale Automobilului</i> ”, 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 Analiza caracteristicii de zgomot la atenuatoare de zgomot	N2.1	1
		A1.2.8 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
		A1.2.9 Filete - Elemente Geometrice. Forțe și Momente. Determinarea coeficientului de frecare în asamblări filetate	N2.1	1
		A1.2.10 Determinarea presiunii reale într-o cuplă de frecare. Profilometrul Taylor-Hobson	N2.1	1
		A1.2.11 Studiul fenomenului de frecare în cuple de clasa a II-a și a III-a. Mașina AMSLER	N2.1	1
		A1.2.12 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)		
		A1.2.13 Marcelin BENCHEA , “ <i>Echipamente Mecatronice la Automobile. Îndrumar</i> ”, 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
		A1.2.14 Marcelin BENCHEA , “ <i>Mecatronica Automobilului. Lucrări de laborator</i> ”, Editura Politehnicum, Iași, ISBN 978-973-621-494-3, 140 pg., 2020	N2.2	1
		A1.2.15 Spiridon Crețu, Mihaela Bălan, Marcelin BENCHEA , Ana Tufescu, Ciprian Stamate, “ <i>Organe de mașini. Lucrări</i> ”, 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 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 MDPI, IF = 4.329 , 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) $3 \cdot (0.2 + 4.329) / 6 = 2.26$	P1.4	2.26
		A2.1.2 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) $3 \cdot (0.2 + 1.755) / 7 = 0.84$	P1.4	0.84
		A2.1.3 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 = 9.297 , ISSN 0959-6526, Vol. 203, pp.301-312, DOI: 10.1016/j.jclepro.2018.08.273, 2018, $3 \cdot (0.2 + 9.297) / 5 = 5.698$ Considerations on sound absorption coefficient of sustainable concrete with different waste replacements - ScienceDirect	P1.4	5.7
		A2.1.4 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-Linear Mech., IF = 2.985 , ISSN 0020-7462, vol.103, pp.128-137, 2018, $3 \cdot (0.2 + 2.985) / 5 = 1.91$ A fractal approach of the sound absorption behaviour of materials. Theoretical and experimental aspects - ScienceDirect	P1.4	1.91
		A2.1.5 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 = 2.639 , 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 $3 \cdot (0.2 + 2.639) / 4 = 2.129$	P1.4	2.13
		A2.1.6 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 = 0.881 , ISSN 0971-4588, vol.23, pp.418-424, 2016, http://nopr.niscair.res.in/IJEMS%2023%286%29%20418-424.pdf $3 \cdot (0.2 + 0.881) / 6 = 0.54$	P1.4	0.54
		A2.1.7 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) $3 \cdot (0.2 + 1.775) / 9 = 0.66$	P1.4	0.66
		A2.1.8 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
		A2.1.9 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
		A2.1.10 Știrbu I., Vizureanu P., Cimpoeșu R., Dascălu G., Gurlui S.O., Bernevig M., Benchea M. , Cimpoeșu N., Postolache P., "Advanced metallic materials response at laser excitation for medical applications", Journal of Optoelectronics and Advanced Materials, IF = 0.587 , ISSN 1454-4164, vol. 17, ISS. 7-8, 2015, $3 \cdot (0.2 + 0.587) / 9 = 0.262$ JOAM :: Articles (inoe.ro)	P1.4	0.26
		A2.1.11 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", Indian Journal of Engineering & Materials Sciences, ISSN 0971-4588, IF = 0.881 , Vol. 21, pp.315-321, 2014, $3 \cdot (0.2 + 0.881) / 6 = 0.54$ http://nopr.niscair.res.in/IJEMS%2021%283%29%20315-321.pdf	P1.4	0.54

	A2.2 Articole și publicații științifice BDI ⁽⁵⁾ neincluse la A2.1		
	A2.2.1 Benchea M. , Crețu S., "An Investigation Regarding the Impact of Running-in on Rolling Contacts Lives", Innovations in Mechanical Engineering. icieng 2021, Lecture Notes in Mechanical Engineering, Springer, Cham., 2022, doi:10.1007/978-3-030-79165-0_43, An Investigation Regarding the Impact of Running-In on Rolling Contacts Lives SpringerLink	N3.1	1
	A2.2.2 Benchea M. , Bujoreanu C., Ianuș G., "Acoustic Performance of Some Lined Dissipative Silencers", Innovations in Mechanical Engineering. icieng 2021, Lecture Notes in Mechanical Engineering, Springer, Cham., 2022, doi:10.1007/978-3-030-79165-0_29, Acoustic Performance of Some Lined Dissipative Silencers SpringerLink	N3.1	1
	A2.2.3 Benchea M. , Crețu S., "Surface roughness influence on active surfaces geometry and modified rating life of rolling contacts", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 724, DOI: 10.1088/1757-899X/724/1/012025, 2020, https://iopscience.iop.org/article/10.1088/1757-899X/724/1/012025/meta	N3.1	1
	A2.2.4 Bujoreanu C., Tufescu A., Benchea M. , Ianuș G., "Experimental study of acoustic performances of reactive engine mufflers", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 564, DOI: 10.1088/1757-899X/564/1/012077, 2019, https://iopscience.iop.org/article/10.1088/1757-899X/564/1/012077/meta	N3.2	1
	A2.2.5 Benchea M. , Crețu S., "Influence of the roughness on surface geometry of rolling contacts", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 514, 2019, https://iopscience.iop.org/article/10.1088/1757-899X/514/1/012001/meta	N3.1	1
	A2.2.6 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, doi:10.1007/978-3-319-91334-6_74 https://link.springer.com/chapter/10.1007%2F978-3-319-91334-6_74	N3.2	1
	A2.2.7 Mahu G., Munteanu C., Istrate, B., Benchea M. , "Analysis of plasma jet depositions on a C45 steel used in crankshaft manufacturing", Materials Research Proceed., ISSN 2474-395X, Vol. 8, pp.61-69, DOI: 10.21741/9781945291999-7, 2018, Analysis of plasma jet depositions on a C45 steel used in crankshaft manufacturing-Web of Science Core Collection	N3.2	1
	A2.2.8 Panțuru M., Chicet D., Mocănița O., Benchea M. , Munteanu C., "Morphology and mechanical characteristics of some TBCs used for internal combustion valves", Materials Research Proceed., ISSN 2474-395X, Vol. 8, pp.192-199, DOI: 10.21741/9781945291999-22, 2018, Morphology and mechanical characteristics of some TBCs used for internal combustion valves-Web of Science Core Collection	N3.2	1
	A2.2.9 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, https://iopscience.iop.org/article/10.1088/1757-899X/444/3/032008	N3.2	1
	A2.2.10 Mahu G., Munteanu C., Istrate, B., Benchea M. , Lupescu S., "Influence of Al2O3-13TiO2 powder on a C45 steel using atmospheric plasma spray process", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 444, DOI: 10.1088/1757-899X/444/3/032010, 2018, https://iopscience.iop.org/article/10.1088/1757-899X/444/3/032010	N3.2	1
	A2.2.11 Stescu C., Chicet D., Munteanu C., Istrate B., Benchea M. , Basescu G.N., "Aspects regarding the influence of the processing regime on the surface quality of thermal sprayed coatings", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 444, 2018, Aspects regarding the influence of the processing regime on the surface quality of thermal sprayed coatings - IOPscience	N3.2	1
	A2.2.12 Minciună M.G., Achiței D.C., Vizureanu P., Benchea M. , Sandu A.V., "The Effect of Heat Treatment and Corrosion Behavior of AISI420", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 374, The Effect of Heat Treatment and Corrosion Behavior of AISI420 - IOPscience	N3.2	1
	A2.2.13 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

	A2.2.14 C. Munteanu, S. Lupescu, B. Istrate, V.I. Antoniac, M. Benchea , A. Savin, "Some Tribological Aspects of Mg-0.5Ca-xY Biodegradable Materials", Key Engineering Materials, ISSN 1013-9826, Vol. 782, pp.136-141, 2018, Some Tribological Aspects of Mg-0.5Ca-xY Biodegradable Materials Scientific.Net	N3.2	1
	A2.2.15 M.S. Bălțatu, P. Vizureanu, M. Benchea , M.G. Minciună, D.C. Achitei, 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
	A2.2.16 C. Stescu, C. Munteanu, D. Luca, B. Istrate, M. Benchea , D. Chicet, B. Oprisan, "Increasing Wear Resistance of Power Steering Pump Cam Using Ni-Cr-Fe and Ni-Cr-Fe-B Coatings", Materials Science Forum, ISSN 0255-5476, Vol. 907, pp.145-150, 2017, https://www.scientific.net/MSF.907.145	N3.2	1
	A2.2.17 C. Florea, C. Bejinariu, C. Savin, B. Istrate, M. Benchea , R. Cimpoeșu, "Adhesion Characterisation of Complex Ceramics Thin Layers Deposited on Metallic Substrate", Materials Science Forum, ISSN 0255-5476, Vol. 907, pp.126-133, 2017, https://www.scientific.net/MSF.907.126	N3.2	1
	A2.2.18 Bujoreanu C., Benchea M. , "Experimental investigation of noise characteristics for HVAC silencers", MATEC Web Conf., vol. 112, 07001, 2017, Experimental investigation of noise characteristics for HVAC silencers(matec-conferences.org)	N3.2	1
	A2.2.19 O. Mocănița, D. Chicet, M. Benchea , B. Istrate, C. Munteanu, "Coating of Liquid Wood Sheets", Materials Science Forum, ISSN 0255-5476, Vol. 907, pp.134-139, 2017, https://www.scientific.net/MSF.907.134	N3.2	1
	A2.2.20 Bujoreanu C., Benchea M. , "Some considerations on noise monitoring for air handling equipments", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 174(1), 012066, 2017, http://iopscience.iop.org/article/10.1088/1757-899X/174/1/012066/meta	N3.2	1
	A2.2.21 B. Istrate, C. Munteanu, S. Lupescu, M. Benchea , P. Vizureanu, "Preliminary Microstructural and Microscratch Results of Ni-Cr-Fe and Cr3C2-NiCr Coatings on Magnesium Substrate", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 209(1), 012024, 2017, http://iopscience.iop.org/article/10.1088/1757-899X/209/1/012024/meta	N3.2	1
	A2.2.22 D.C. Achitei, 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, http://iopscience.iop.org/article/10.1088/1757-899X/209/1/012053/meta	N3.2	1
	A2.2.23 C. Paulin, D. Chicet, V. Paleu, M. Benchea , Ș. Lupescu, C. Munteanu, "Dry friction aspects of Ni-based self-fluxing flame sprayed coatings", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 227(1), 012091, 2017, http://iopscience.iop.org/article/10.1088/1757-899X/227/1/012091/meta	N3.2	1
	A2.2.24 G. Mahu, C. Munteanu, B. Istrate, M. Benchea , "Plasma sprayed coatings on crankshaft used steels", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 227(1), 012077, 2017, http://iopscience.iop.org/article/10.1088/1757-899X/227/1/012077/meta	N3.2	1
	A2.2.25 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
	A2.2.26 Bujoreanu C., Benchea M. , "Experimental study on HVAC sound parameters", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 147(1), 012051, 2016, http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012051	N3.2	1
	A2.2.27 Balan Mihaela Rodica, Tufescu Ana, BENCHEA Marcelin , Olaru Dumitru, „Friction Torque in Low Loaded Thrust Ball Bearings”, Proceedings of the Innovative Manufacturing Technology International Conference IManE 2015, May 20-22, Iași, Romania, 2015, http://www.scientific.net/AMM.809-810.676	N3.2	1
	A2.2.28 Taraboanta P., Paleu V., Bujoreanu C., BENCHEA M. and Olaru N.D., „Some Considerations on Vibration Diagnose of Miniature Ball Bearings”, Proceedings of the Innovative Manufacturing Technology International Conference IManE 2015, May 20-22, Iași, Romania, 2015, http://www.scientific.net/AMM.809-810.670	N3.2	1

	A2.2.29 Ioan Stirbu, Petrica Vizureanu, Nicanor Cimpoesu, Ramona Cimpoesu, Marcelin BENCHEA , „ <i>Implant Material for Sportive Injuries</i> ”, 4th International Congress of Physical Education, Sports and Kinetotherapy (ICPESK2014), pp.169-174, 2015, Implant Material for Sports Injuries-Web of Science Core Collection	N3.2	1
	A2.2.30 BENCHEA M. , Iovan-Dragomir A., Crețu S., „ <i>Misalignment effects in cylindrical roller bearings</i> ”, Applied Mechanics and Materials, ISSN 1662-7482, Vol. 658, pp.277-282, Trans Tech Publications, Elveția, 2014, doi:10.4028/ Scopus - Document details - Misalignment effects in cylindrical roller bearings	N3.1	1
	A2.2.31 Gavrilă G., Crețu S., BENCHEA M. , „ <i>Wear Prediction in Wheel-Rail Contact Under Partial Slip Conditions</i> ”, Applied Mechanics and Materials, ISSN 1662-7482, Vol. 658, pp.317-322, Trans Tech Publications, Elveția, 2014, doi:10.4028/ Scopus - Document details - Wear prediction in wheel-rail contact under partial slip conditions	N3.2	1
	A2.2.32 A.C. Bărbîntă, R. Chelariu, M. BENCHEA , C.I. Crimu, S.I. Strugaru, C. Munteanu, „ <i>A comparative analysis of new Ti-Nb-Zr-Ta orthopedic alloys</i> ”, 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
	A2.2.33 S. Crețu, M. BENCHEA , „ <i>An Elastic-Plastic Approach on Misalignment Effects in Cylindrical Roller Bearings</i> ”, Proc. of the 5th World Tribology Congress (WTC 2013), Vol. 1, ISBN 978-1-63439-352-2, Torino, Italy, September 8-13, 2013, Scopus - Document details - An elastic-plastic approach on misalignment effects in cylindrical roller bearings	N3.2	1
	A2.2.34 S. Crețu, M. BENCHEA , „ <i>An Elastic-Plastic Analysis of Profile Evolution in Cylindrical Roller Bearings</i> ”, Proc. of the ASME 11th Bienn. Conf. on Eng. Sys. Des. and Anal. ESDA 2012, Vol. 4, pp.565-574, Nantes, France, July 2-4, 2012, Scopus - Document details - An elastic-plastic analysis of profile evolution in cylindrical roller bearings	N3.2	1
	A2.2.35 Crețu S., BENCHEA M. , Crețu O., „ <i>Compressive Residual Stress Effect on Fatigue Life of Ball Bearings</i> ”, ASME International Mechanical Engineering Congress and Exposition IMECE2007-paper 43561, November 11-15, 2007, Seattle, Washington, USA, 2007, Scopus - Document details - Compressive residual stresses effect on fatigue life of rolling bearings	N3.2	1
	A2.2.36 Crețu S., BENCHEA M. , „ <i>Analysis of Residual Stresses Impact on Fatigue Life of Rolling Contacts</i> ”, 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 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 (A3.1.5, A3.1.6, A3.1.8, A3.1.10, A3.1.13, A3.1.14 și A3.1.15) și publicate 3 articole (A2.2.20, A2.2.26 și A3.2.13) cu 6 citări (A3.3.18, A3.3.19).	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 (A3.1.7, A3.1.9 și A3.1.11) și publicate 4 articole (A2.2.2, A2.2.4, A2.2.6 și A2.2.18).	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 (A3.1.12) și publicate 3 articole (A2.1.3, A2.1.4 și A2.1.5) cu 73 de citări (A3.3.2, A3.3.5 și A3.3.14).	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 (A3.1.16 și A3.1.17) și publicate 11 articole (A2.2.35, A2.2.36, A3.2.30, A3.2.31, A3.2.32, A3.2.33, A3.2.34, A3.2.35 și A3.2.36) cu 6 citări (A3.3.32), 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 Politehnia, 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. 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 (încasat prin Polytech 25000 USD în decembrie 2021) 0.1·25/1.1979=8.347 Perioada: 2020-2022 (curs mediu euro 1.1979) Marcelin BENCHEA : membru în echipa de cercetare (7 membri)	S2	8.35
		A3.1.2 GRANT UEFISCDI PN-III-P1-1.2-PCCDI-2017-0239 tema 60PCCDI/2018. <i>Obținerea și expertizarea unor noi materiale biocompatibile pentru aplicații medicale.</i> <i>Proiect component 1 ORTOMAG</i> Beneficiar: <i>UEFISCDI</i> Director proiect: prof.univ.dr.ing. Corneliu Munteanu, U.T. Iași Valoare proiect: 445000 RON 0.05·(118.62/4.6535+113.1765/4.7453+182.628/4.8371+30.2755/4.9071)=4.66 Perioada: 2018-2021 (curs mediu euro 4.6535/4.7452/4.8371/4.9071) (valoare anuală 118620/113176.5/118628/30275.5 R) Marcelin BENCHEA : membru în echipa de cercetare (14 membri)	S2	4.66
		A3.1.3 GRANT UEFISCDI PN-III-P1-1.2-PCCDI-2017-0239 tema 60PCCDI/2018. <i>Obținerea și expertizarea unor noi materiale biocompatibile pentru aplicații medicale.</i> <i>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 0.05·(61.48/4.6535+65.19/4.7453+73.196/4.8371+12.134/4.9071)=2.227 Perioada: 2018-2021 (curs mediu euro 4.6535/4.7452/4.8371/4.9071) (valoare anuală 61480/65190/73196/12134 R) Marcelin BENCHEA : membru în echipa de cercetare (6 membri)	S2	2.23
		A3.1.4 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)	S2	1.85
		A3.1.5 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)	S2	1.07

	<p>A3.1.6 Contract nr. 16663/2017. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-700BV/BH, fabricată de S.C. Ensyro SRL</i> Beneficiar: S.C. ENSYRO S.R.L. Cluj-Napoca Director proiect: prof.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON Perioada: 2017 (curs mediu euro 4.5681) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.09
	<p>A3.1.7 Contract nr. 1615P/2016. <i>Analiza caracteristicii de zgomot și a atenuării pentru 9 variante constructive de atenuatoare captușite 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 Perioada: 2016 (curs mediu euro 4.4908) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.67
	<p>A3.1.8 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 Perioada: 2016 (curs mediu euro 4.4908) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.11
	<p>A3.1.9 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°) la 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 Perioada: 2015 (curs mediu euro 4.445) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.12
	<p>A3.1.10 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 Perioada: 2015 (curs mediu euro 4.445) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.12
	<p>A3.1.11 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 Perioada: 2015 (curs mediu euro 4.445) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	1.69

	<p>A3.1.12 Contract nr. 1101P/7.07.2015. <i>Analiza coeficientului de absorbție acustică pentru materiale fonoabsorbante</i> Beneficiar: <i>UNIVERSITATEA „VASILE ALECSANDRI” din BACĂU</i> Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 5000 RON $0.5 \cdot 5 / 4.445 = 0.56$ Perioada: 2015 (curs mediu euro 4.445) Marcelin BENCHEA: membru în echipa de cercetare (2 membri)</p>	S2	0.56
	<p>A3.1.13 Contract nr. 60P/20.01.2015. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-300 BV/BH, fabricată de S.C. Ensyro SRL</i> Beneficiar: <i>S.C. ENSYRO S.R.L. Cluj-Napoca</i> Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON $0.5 \cdot 10 / 4.445 = 1.12$ Perioada: 2015 (curs mediu euro 4.445) Marcelin BENCHEA: membru în echipa de cercetare (3 membri)</p>	S2	1.12
	<p>A3.1.14 Contract nr. 1489P/21.10.2014. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-300H, fabricată de S.C. Ensyro SRL</i> Beneficiar: <i>S.C. ENSYRO S.R.L. Cluj-Napoca</i> Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 10000 RON $0.5 \cdot 10 / 4.4446 = 1.12$ Perioada: 2014 (curs mediu euro 4.4446) Marcelin BENCHEA: membru în echipa de cercetare (3 membri)</p>	S2	1.12
	<p>A3.1.15 Contract nr. 1010P/14.07.2014. <i>Analiza caracteristicii de zgomot pentru unitatea de ventilat AHU-400HV, fabricată de S.C. Ensyro SRL</i> Beneficiar: <i>S.C. ENSYRO S.R.L. Cluj-Napoca</i> Director proiect: conf.univ.dr.ing. Carmen Bujoreanu, U.T. Iași Valoare proiect: 8065 RON $0.5 \cdot 8.065 / 4.4446 = 0.91$ Perioada: 2014 (curs mediu euro 4.4446) Marcelin BENCHEA: membru în echipa de cercetare (3 membri)</p>	S2	0.91
	<p>A3.1.16 GRANT CNCSIS TD-190 contract nr.338/1.10.2007 tema <i>Cercetări privind influența zonelor plastice interioare asupra stării de tensiuni și deformații la solicitarea de contact</i> Beneficiar: <i>CNCSIS</i> 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) (valoare anuală 7100/26500/6896.77 RON)</p>	S1	10.95
	<p>A3.1.17 GRANT CNCSIS Tip A 63GR/2006 tema 9/28, 80GR/2007 tema 17, 77GR/2008 tema 9 <i>Cercetări teoretice și experimentale privind relația dintre microtopografie, rodaj și fiabilitatea contactelor cu rostogolire cu aplicație pe rulmenți de turație înaltă și angrenaje cilindrice</i> Beneficiar: <i>CNCSIS</i> Director proiect: prof.univ.dr.ing. Spiridon Crețu, U.T. Iași Valoare proiect: 159500 RON $0.25 \cdot (53/3.5245+47.7/3.3373+58.8/3.6827)=11.32$ Perioada: 2006-2008 (curs mediu euro 3.5245/3.3373/3.6827) (valoare anuală 53000/47700/58800 RON) Marcelin BENCHEA: membru în echipa de cercetare (10 membri)</p>	S2	11.32

	A3.2 Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat		
	A3.2.1 Participare la conferința: "ICIE2020 - International Conference Innovation in Engineering", June 28-30, 2021, Guimarães, Portugal, cu lucrările A2.2.1 și A2.2.2, Schedule – ICIE – International Conference (icieng.eu)	N5	1
	A3.2.2 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. Cimpoeșu, M. BENCHEA , A.M Roman, V. Manole, A. Alexandru, N. Cimpoeșu, 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
	A3.2.3 Participare la conferința: "The 14 th International Conference on Tribology ROTRIB'19", September 19-21, 2019, Cluj-Napoca, România, cu lucrarea A2.2.3, Program (utcluj.ro)	N5	1
	A3.2.4 Participare la conferința: "The 23 th edition of IManEE 2019 International Conference", May 22-24, 2019, Pitești, România, cu lucrarea A2.2.4, Program IManEE 2019	N5	1
	A3.2.5 Participare la conferința: "The X th Product Design, Robotics, Advanced Mechanical & Mechatronic Systems and Innovation Conference - PRASIC'2018", November 9-10, 2018, Brașov, România, cu lucrarea A2.2.5, Conferințe - Facultatea de Design de produs și mediu (unitbv.ro)	N5	1
	A3.2.6 Participare la conferința: "Regional HELIX 2018 - International Conference on Innovation, Engineering and Entrepreneurship", June 27-29, 2018, Guimarães, Portugal, cu lucrarea A2.2.6, Schedule - Regional HELIX (ipcb.pt)	N5	1
	A3.2.7 Participare la conferința: "The 8 th International Conference on Advanced Concepts in Mechanical Engineering ACME 2018", June 7-8, 2018, Iași, România, cu lucrările A2.2.9, A2.2.10 și A2.2.11, ACME Machine Elements and Tribology	N5	1
	A3.2.8. Participare la conferința: "The 4 th edition of International Conference on Innovative Research - ICIR Euroinvent 2018", May 17-18, 2018, Iași, România, cu lucrările A2.2.12 și A.2.2.13, ICIR2018.pdf (euroinvent.org)	N5	1
	A3.2.9 Participare la conferința: "The 5 th International Conference on Powder Metallurgy & Advanced Materials RoPM-AM2017", September 17-20, 2017, Cluj-Napoca, România, cu lucrările A2.2.7 și A2.2.8, RoPM-AM2017 (easychair.org)	N5	1
	A3.2.10 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 A2.2.17, Program IManEE 2017	N5	1
	A3.2.11 Participare la conferința: "The 3 rd edition of International Conference on Innovative Research - ICIR Euroinvent 2017", May 25-26, 2017, Iași, România, cu lucrările A2.2.21 și A.2.2.22, ICIR 2017.pdf (euroinvent.org)	N5	1
	A3.2.12 Participare la conferința: "The 10 th International Conference on Materials Science and Engineering - BRAMAT 2017", March 8-11, 2017, Brașov, România, cu lucrările A2.2.15, A2.2.16 și A2.2.18, Schedule Program (bramat.ro)	N5	1
	A3.2.13 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, Brașov, România, FINAL PROGRAMME - ICMSAV 2016 and COMAT 2016 (google.com) cu lucrarea: M. Benchea , C. Bujoreanu, "Experimental investigation of noise parameters in HVAC systems", Bulletin of Transilvania University of Brașov, Series 1-Engineering Sciences, vol.1, pp.42-47, 2016, EXPERIMENTAL (unitbv.ro)	N5	1
	A3.2.14 Participare la conferința: "The 13 th International Conference on Tribology ROTRIB'16", September 22-24, 2016, Galați, România, cu lucrarea A2.2.19, Schedule Program Rotrib16 - IOPscience	N5	1
	A3.2.15 Participare la conferința: "The 7 th International Conference on Advanced Concepts in Mechanical Engineering ACME2016", June 9-10, 2016, Iași, România, cu lucrarea A2.2.25, ACME Machine Elements and Tribology (tuiasi.ro)	N5	1

	A3.2.16 Participare la conferința: "The 6 th International Conference „Computational Mechanics and Virtual Engineering, COMEC2015“, October 15-16, 2015, Brașov, România, FINAL PROGRAMME COMEC2015 (google.com) cu lucrarea: Mihai Adrian Rusu, Daniela Ioniță, Marcelin BENCHEA , Vlad Cârlescu, Dumitru Olaru, „ <i>Analytical Model for Friction Force Between a Steel Roller and a Plane Polymer Sample in Sliding Motion</i> “, Bulletin of Transilvania University of Brașov, Series 1-Engineering Sciences, vol.68, pp.383-388, ISSN 2457-8541, 2015, Analytical Model for Friction Force (unitbv.ro)	N5	1
	A3.2.17 Participare la conferința: "International Conference of Mechanical Engineering, ICOME 2015“, October 8-9, 2015, Craiova, România, cu lucrarea A2.2.24, Papers (ucv.ro)	N5	1
	A3.2.18 Participare la conferința: "The 19 th edition of Innovative Manufacturing Engineering and Energy International Conference - IManEE 2015“, May 21-22, 2015, Iași, România, cu lucrările A2.2.26 și A.2.27, Conference Program IManE	N5	1
	A3.2.19 Participare la conferința: "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
	A3.2.20 Participarea la conferința: "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, „ <i>Acoustic Emission Monitoring of Lubrication Regimes in Rolling Contacts</i> “, LL&A4, diseminată ulterior în Buletinul IPI, Tomul LXI (LXV), Fasc. 1, Secția Construcții de Mașini, ISSN 1011-2855, pp.123-134, 2015. 2. Dumitru N. Olaru, Mihaela Rodica D. Bălan, Marcelin BENCHEA , Alexandru Budel, Gheorghe Prisacaru, „ <i>Influence of the Balls Interactions Forces on Friction in Linear Guidance Systems</i> “, TME7. 3. Spiridon Crețu, Marcelin BENCHEA , Alina Iovan Dragomir, „ <i>The Misalignment and Reference Rating Life of Cylindrical Roller Bearings - an Elastic-Plastic Analysis</i> “, Cmech5, diseminată ulterior în lucrările A2.1.8 și A2.1.9. 4. George Gavrilă, Marcelin BENCHEA , Spiridon Cretu, „ <i>Experimental Evaluation of the Stick-Slip Phenomenon</i> “, BALKANTRIB'14, 8th International Conference on Tribology, Cmech6.	N5	1
	A3.2.21 Participare la conferința: "The 4 th International Congress of Physical Education, Sports and Kinetotherapy“, June 11-13, 2014, București, România, cu lucrarea A2.2.29, http://www.unefs.ro/international/Program_ICPESK_2014.pdf	N5	1
	A3.2.22 Participare la conferința: "The 5 th World Tribology Congress WTC2013“, September 8-13, 2013, Torino, Italy, cu lucrarea A2.2.33, WTC2013-1183, Program (wtc2013.it)	N5	1
	A3.2.23 Participare la conferința: "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
	A3.2.24 Participare la conferința: "The 11 th Biennial Conference on Engineering Systems Design and Analysis ESDA2012“, July 2-4, 2012, Nantes, France, cu lucrarea A2.2.34, ESDA2012-82491, ASME 2012 11th Biennial Conference on Engineering Systems Design and Analysis - ESDA2012 (asmeconferences.org)	N5	1
	A3.2.25 Participare la conferința: "The 16 th 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)	N5	1
	A3.2.26 Participare la conferința: "The 5 th 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:	N5	1

	<p>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 Construcții de Mașini, ISSN 1011-2855, pp.27-35, 2012.</p> <p>2. Băsescu G.N., Munteanu C., Pintilei G.L., Drăgan A.G., Bărbînță A.C., Benchea M., "Study of the scratch resistance and coating adhesion of the ceramic layer $Al_2O_3-TiO_2$ obtained by plasma spray deposition method", pe CD ISSN 2285-2301.</p>		
	A3.2.27 Participare la conferința: "The 3 rd International Conference on Diagnosis and Prediction in Mechanical Engineering Systems DIPRE2012", 31 st May - 1 st 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.	N5	1
	A3.2.28 Participare la conferința: "The 11 th 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.	N5	1
	A3.2.29 Participare la conferința: "The 4 th 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.	N5	1
	A3.2.30 Participare la conferința: "The 14 th 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)	N5	1
	A3.2.31 Participare la conferința: "The 3 rd 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 3 rd 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 3 rd International Conference ACME2008, ISSN 2285-2301.	N5	1
	A3.2.32 Participare la conferința: "The 16 th 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.	N5	1
	A3.2.33 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 A2.2.35.	N5	1
	A3.2.34 Participare la conferința: "The 10 th International Conference on Tribology ROTRIB'07", November 8-10, 2007, București, România, ROTRIB 2007 - International Tribology Conference (pub.ro) cu lucrările: 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. 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.	N5	1
	A3.2.35 Participare la conferința: "The ASME/STLE 2007 International Joint Tribology Conference IJTC2007", October 22-	N5	1

	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 A2.2.36.		
	A3.2.36 Participare la conferința: "The 2 nd 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.	N5	1
	A3.3 Citări în publicații BDI ⁽⁵⁾ (se exclud autocitățile)		
	<p>A3.3.1 M.S. Bălțatu, C.A. Țugui, M.C. Perju, M. Benchea, M.C. Spataru, 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)</p> <p>cu citările: $29+5\cdot 3.623+4\cdot 1.755+9.297+2.436+2.881+3.902+3.383+4.094+6.707+3\cdot 0.577+6.302=94.868$</p> <ol style="list-style-type: none"> 1. A.V. Sandu, M.S. Bălțatu, M. Nabialek, A. Savin, P. Vizureanu, "Characterization and Mechanical Properties of New TiMo Alloys Used for Medical Applications", Materials MDPI, IF = 3.623, ISSN 1996-1944, vol. 12, pp.10, 2019, Materials Characterization and Mechanical Properties of New TiMo Alloys Used for Medical Applications HTML (mdpi.com) 2. S.C. Focșăneanu, P. Vizureanu, A.V. Sandu, Ciobanu G., M.S. Bălțatu, Vlad D., "Experimental Study on the Influence of Zirconia Surface Preparation on Deposition of Hydroxyapatite", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 70, nr. 6, pp.2273-2275, 2019, Experimental Study on the Influence of Zirconia Surface Preparation (revistadechimie.ro) 3. B. Istrate, C. Munteanu, R. Chelariu, D. Mihai, R. Cimpoesu, F. Sandu Ville Tudose, "Electrochemical Evaluation of Some Mg-Ca-Mn-Zr Biodegradable Alloys", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 70, nr. 9, pp.3435-3440, 2019, Electrochemical Evaluation of Some Mg-Ca-Mn-Zr Biodegradable Alloys (revistadechimie.ro) 4. M.S. Bălțatu, P. Vizureanu, V. Goanță, C.A. Țugui and I. Voiculescu, "Mechanical tests for Ti-based alloys as new medical materials", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 572, 012029, 2019, Mechanical tests for Ti-based alloys as new medical materials - IOPscience 5. I. Bălțatu, P. Vizureanu, F. Ciolacu, D.C. Achitei, M.S. Bălțatu and D. Vlad, "In Vitro study for new Ti-Mo-Zr-Ta alloys for medical use", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 572, 012030, 2019, In Vitro study for new Ti-Mo-Zr-Ta alloys for medical use - IOPscience 6. M.C. Perju, C. Nejneru, P. Vizureanu, D.D. Burduhos Nergis and A.V. Sandu, "Microstructural Analysis of Multiple Layer Depositions on Cast Iron Using the Electrospark Deposition Method", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 877, 2020, Microstructural Analysis of Multiple Layer Depositions on Cast Iron Using the Electrospark Deposition Method - IOPscience 7. R.A. Haraga, D.L. Chicet, N. Cimpoesu, S.L. Toma and C. Bejinariu, "Influence of the Stand-off Distance and of the Layers Thickness on the Adhesion and Porosity of the 97MXC Deposits Obtained by Arc Spraying Process", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 877, 012020, 2020, Influence of the Stand-off Distance and of the Layers Thickness on the Adhesion and Porosity of the 97MXC Deposits Obtained by Arc Spraying Process - IOPscience 8. M.S. Bălțatu, P. Vizureanu, I. Bălțatu, D.D. Burduhos Nergis, D.C. Achitei and M.C. Perju, "Electrochemical Behaviour of Ti-Mo Alloys for Medical Application in Biological Solution", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 877, 012031, 2020, Electrochemical Behaviour of Ti-Mo Alloys for Medical Application - IOPscience 9. N. Simionescu, L. Benea and A. Chiriac, "The Effect of H₂O₂ and Lactic Acid Addition in Biological Saliva on the Corrosion Behaviour of 304L Stainless Steel", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 877, 012039, 2020, The Effect of H₂O₂ and Lactic Acid Addition in Biological Saliva on the Corrosion Behaviour of 304L Stainless Steel - IOPscience 10. A. Śliwa and O. Białas, "Physical Phenomena Occurring in Modeled Cardiac Stent during Decompression Using Numerical Analysis", Acta Physica Polonica A, IF = 0.577, ISSN 1898-794X, vol. 138 (2), pp.133-135, 2020, app138z2p02.pdf (icm.edu.pl) 	C	94.87

		<p>11. H. Jiaoa, W.L.Song, H. Chen, M. Wang, S. Jiaoa, D. Fang, "Sustainable recycling of titanium scraps and purity titanium production via molten salt electrolysis", J. of Clean. Prod., IF = 9.297, ISSN 0959-6526, Vol. 261, pp.9, 2020, Sustainable recycling of titanium scraps and purity titanium production via molten salt electrolysis - ScienceDirect</p> <p>12. C. Soykan, "A theoretical approach to the structural, elastic and electronic properties of $Ti_{8-x}V_{4-y}Mo_{x+y+z}Al_{4-z}$ lightweight shape memory alloys for biomaterial implant applications", Physica B: Physics of Condensed Matter, IF = 2.436, ISSN 0921-4526, Vol. 598, pp.9, 2020, A theoretical approach to the structural, elastic and electronic properties of $Ti_{8-x}V_{4-y}Mo_{x+y+z}Al_{4-z}$ lightweight shape memory alloys for material applications - ScienceDirect</p> <p>13. Eniko Reka Fabian, Janos Kuti, Jozsef Gati, Laszlo Toth, "Corrosion Behavior of Welded Joints in Different Stainless Steels", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 71, nr. 3, pp.440-449, 2020, Corrosion Behavior of Welded Joints in Different Stainless Steels (revistadechimie.ro)</p> <p>14. B. Istrate, C. Munteanu, S. Lupescu, R. Chelariu, M.D. Vlad, P. Vizureanu, "Electrochemical Analysis and In Vitro Assay of Mg-0.5Ca-xY Biodegradable Alloys", Materials MDPI, IF = 3.623, ISSN 1996-1944, vol. 13 (14), 3082, pp.17, 2020, Materials Free Full-Text Electrochemical Analysis and In Vitro Assay of Mg-0.5Ca-xY Biodegradable Alloys (mdpi.com)</p> <p>15. Victor Geanta, Ionelia Voiculescu, Stefan Tudoran, "Effects of Fe and Mn on Microstructure and Microhardness of Titanium Alloys", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 71, nr. 4, pp.87-94, 2020, Effects of Fe and Mn on Microstructure and Microhardness of Titanium Alloys (revistadechimie.ro)</p> <p>16. M.S. Bălțatu, P. Vizureanu, A.V. Sandu, C. Munteanu, B. Istrate, "Microstructural Analysis and Tribological Behavior of Ti-Based Alloys with a Ceramic Layer Using the Thermal Spray Method", Coatings MDPI, IF = 2.881, ISSN 2079-6412, vol. 10 (12), 1216, pp.12, 2020, Coatings Free Full-Text Microstructural Analysis and Tribological Behavior of Ti-Based Alloys with a Ceramic Layer Using the Thermal Spray Method (mdpi.com)</p> <p>17. L. Vereștiuc, M.C. Spătaru, M.S. Bălțatu, M. Butnaru, C. Solcan, A.V. Sandu, I. Voiculescu, V. Geantă, P. Vizureanu, "New Ti-Mo-Si materials for bone prosthesis applications", J. of the Mech. Behavior of Biomedical Materials, IF = 3.902, ISSN 1751-6161, vol. 113, 104198, pp.12, 2021, New Ti-Mo-Si materials for bone prosthesis applications - ScienceDirect</p> <p>18. P.A.B Kuroda, F.F. Quadros, M.V. Nascimento, C.R. Grandini "Development and Characterization of New Ti-25Ta-Zr Alloys for Biomedical Applications", Materials Science Forum, ISSN 0255-5476, Vol. 1016, pp.137-144, Trans Tech Publ, 2021, Development and Characterization of New Ti-25Ta-Zr Alloys for Biomedical Applications Scientific.Net</p> <p>19. Hsueh-Chuan Hsu, Shih-Ching Wu, Yang-Jhe Su, Wen-Fu Ho, "Effects of thermal treatments on the microstructures and mechanical properties of Ti-5Nb-5Mo alloys", Materials Today Communications, IF = 3.383, ISSN 2352-4928, vol. 26, 102059, pp.8, 2021, Effects of thermal treatments on the microstructures of Ti-5Nb-5Mo alloys - ScienceDirect</p> <p>20. Mihaela Claudia Spataru, Maria Butnaru, Andrei Victor Sandu, Vasile Vulpe, Maria Daniela Vlad, Madalina Simona Baltatu, Victor Geanta, Ionelia Voiculescu, Petrică Vizureanu, Carmen Solcan, "In-depth assessment of new Ti-based biocompatible materials", Materials Chemistry and Physics, IF = 4.094, ISSN 0254-0584, vol. 258, 123959, pp.12, 2021, In-depth assessment of new Ti-based biocompatible materials - ScienceDirect</p> <p>21. M.C. de Almeida Bino, W.A. Eurídice, R.V. Gelamo, N.B. Leite, M.V. da Silva, A. de Siervo, M.R. Pinto, P.A. de Almeida Buranello, J.A. Moreto, "Structural and morphological characterization of Ti_6Al_4V alloy surface functionalization based on Nb_2O_5 thin film for biomedical applications", Applied Surface Science, IF = 6.707, ISSN 0169-4332, vol. 557, 149739, pp.13, 2021, Structural and morphological characterization of Ti_6Al_4V alloy surface functionalization based on Nb_2O_5 thin film for biomedical applications - ScienceDirect</p> <p>22. R. Mirea, A.T. Cucuruz, L.C. Ceatra, T. Badea, I. Biris, E. Popescu, A. Paraschiv, R. Ene, G. Sbarcea and M. Cretu, "In-Depth Comparative Assessment of Different Metallic Biomaterials in Simulated Body Fluid", Materials MDPI, IF = 3.623, ISSN 1996-1944, vol. 14, pp.18, 2021, Materials Free Full-Text In-Depth Comparative Assessment of Different Metallic Biomaterials in Simulated Body Fluid (mdpi.com)</p>	
--	--	---	--

	<p>23. M. Nabiałek, B. Jeż, P. Pietrusiewicz, K. Jeż, B. Płoszaj, A.V. Sandu, M.M.A.B. Abdullah, J. Wysłocki, A. Kalwik, P. Postawa, M.A.A. Mohd Salleh, "Effect of Chemical Composition on Curie Temperature of FeCoB Alloys", Acta Physica Polonica A, IF = 0.577, ISSN 1898-794X, vol. 139 (5), pp.491-494, 2021, app139z5p04.pdf (icm.edu.pl)</p> <p>24. B. Jeż, K. B loch, J. Gondro, K. Jeż, M. Talar, B. Płoszaj, P. Pietrusiewicz, S. Walters, A. Kalwik, D.S. Che Halin, P. Sikora, M. Nabiałek, "Effect of Y on Formation of Hard Magnetic Phases in Fe-Matrix Alloys", Acta Physica Polonica A, IF = 0.577, ISSN 1898-794X, vol. 139 (5), pp.495-498, 2021, app139z5p05.pdf (icm.edu.pl)</p> <p>25. V. Singh, P. Katyal, K. Kumar, R. Kumar, "Surface integrity and biological response of Ti-alloy implants under surface modification techniques", Materials Today: Proceedings, ISSN 2214-7853, doi: 10.1016/j.matpr.2021.08.235, 2021, Surface integrity and biological response of Ti-alloy implants under surface modification techniques - ScienceDirect</p> <p>26. M.S. Baltatu, P. Vizureanu, A.V. Sandu, . Florido-Suarez, M.V. Saceleanu, J.C. Mirza-Rosca, "New Titanium Alloys, Promising Materials for Medical Devices", Materials MDPI, IF = 3.623, ISSN 1996-1944, vol. 14 (20), 5934, pp.15, 2021, Materials Free Full-Text New Titanium Alloys, Promising Materials for Medical Devices (mdpi.com)</p> <p>27. S.S. Ntondini, G. Lenetha, T.C. Dzogbewu, "Antimicrobial activity of Salvia officinalis against Streptococcus mutans causing dental implant failure: An in vitro study", Journal of International Oral Health, ISSN 0976-7428, vol. 13(5), pp.499-507, 2021, Antimicrobial activity of Salvia officinalis against Streptococcus mutans causing dental implant failure: An in vitro study Ntondini SS, Lenetha G, Dzogbewu TC - J Int Oral Health (jioh.org)</p> <p>28. Masoud Sarraf, Erfan Rezvani Ghomi, Saeid Alipour, Seeram Ramakrishna & Nazatul Liana Sukiman, "A state-of-the-art review of the fabrication and characteristics of titanium and its alloys for biomedical applications", Bio-Design and Manufacturing, IF = 6.302, ISSN 2096-5524, 2021, doi.org/10.1007/s42242-021-00170-3, A state-of-the-art review of the fabrication and characteristics of titanium and its alloys for biomedical applications SpringerLink</p> <p>29. M.C. Spataru, F.D. Cojocaru, A.V. Sandu, C. Solcan, I.A. Duceac, M.S. Baltatu, I. Voiculescu, V. Geanta, P. Vizureanu, "Assessment of the Effects of Si Addition to a New TiMoZrTa System", Materials MDPI, IF = 3.623, ISSN 1996-1944, vol. 14(24), 7610, pp.20, 2021, Materials Free Full-Text Assessment of the Effects of Si Addition to a New TiMoZrTa System (mdpi.com)</p>		
	<p>A3.3.2 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 = 9.297, 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, cu citările: $25+1.5+2.179+3.623+2.3.703+3.5.318+2.6.141+5.495+3.3.251+0.916+2.86+10.204+2.679+2.639+6.373+2.553=118.662$</p> <p>1. J.D. Rios, C. Arenas, H. Cifuentes, B. Peceño & C. Leiva, "Porous Structure by X-Ray Computed Tomography and Sound Absorption in Pervious Concretes with Air Cooled Blast Furnace Slag as Coarse Aggregate", Acoustics Australia, IF = 1.5, ISSN 1839-2571, vol. 47, pp.271-276, 2019, Porous Structure by X-Ray Computed Tomography and Sound Absorption in Pervious Concretes with Air Cooled Blast Furnace Slag as Coarse Aggregate SpringerLink</p> <p>2. M. Massoudinejad, N. Amanidaz, R.M. Santos, R. Bakhshoodeh, "Use of municipal, agricultural, industrial, construction and demolition waste in thermal and sound building insulation materials: a review article", J Environ Health Sci Engineer, IF = 2.179, ISSN 2052-336X, vol. 17, pp.1227-1242, 2019, Use of municipal, agricultural, industrial, construction and demolition waste in thermal and sound building insulation materials: a review article SpringerLink</p> <p>3. Bing Zhou, Jiangong Zhang, Xin Li and Bilong Liu, "An Investigation on the Sound Absorption Performance of Granular Molecular Sieves under Room Temperature and Pressure", Materials MDPI, IF = 3.623, ISSN 1996-1944, vol. 13 (8), 1936, pp.12, 2020, Materials An Investigation on the Sound Absorption Performance of Granular Molecular Sieves (mdpi.com)</p> <p>4. Marwa Lahouioui, Rim Ben Arf, Magali Fois, Laurent Ibos, Achraf Ghorbal, "Investigation of Fiber Surface Treatment</p>	C	118.66

	<p><i>Effect on Thermal, Mechanical and Acoustical Properties of Date Palm Fiber-Reinforced Cementitious Composites</i>", Waste and Biomass Valorization, IF = 3.703, ISSN 1877-2641, vol. 11, pp.4441-4455, 2020, Investigation of Fiber Surface Treatment Effect on Thermal, Mechanical and Acoustical Properties of Date Palm Fiber-Reinforced SpringerLink</p> <p>5. Mattia Bartoli, Mauro Giorcelli, Pravin Jagdale, Massimo Rovere and Alberto Tagliaferro, "A Review of Non-Soil Biochar Applications", Materials MDPI, IF = 3.623, ISSN 1996-1944, vol. 13 (2), 261 pp.35, 2020, Materials Free Full-Text A Review of Non-Soil Biochar Applications (mdpi.com)</p> <p>6. Tzer Sheng Tie, Kim Hung Mo, Azma Putra, Siaw Chuing Loo, U.Johnson Alengaram, Tung-Chai Ling, "Sound absorption performance of modified concrete: A review", Journal of Building Engineering, IF = 5.318, ISSN 2352-7102, vol. 30, 101219, pp.10, 2020, Sound absorption performance of modified concrete: A review - ScienceDirect</p> <p>7. M. Belmokaddem, A. Mahi, Y. Senhadji, B.Y. Pekmezci, "Mechanical and physical properties and morphology of concrete containing plastic waste as aggregate", Construction and Building Materials, IF = 6.141, ISSN 0950-0618, vol. 257, 119559, pp.11, 2020, Mechanical and physical properties and morphology of concrete containing plastic waste - ScienceDirect</p> <p>8. Yi Zhang, Hui Li, Ahmed Abdelhady, Jie Yang, "Effect of different factors on sound absorption property of porous concrete", Transportation Research Part D: Transport and Environment, IF = 5.495, ISSN 1361-9209, vol. 87, 102532, pp.17, 2020, Effect of different factors on sound absorption property of porous concrete - ScienceDirect</p> <p>9. C.M. Grădinaru, R. Muntean, A.A. Șerbănoiu, V. Ciocan, A. Burlacu, "Sustainable Development of Human Society in Terms of Natural Depleting Resources Preservation Using Natural Renewable Raw Materials in a Novel Ecological Material Production", Sustainability MDPI, IF = 3.251, ISSN 2071-1050, vol. 12 (7), 2651, pp.15, 2020, Sustainability Free Full-Text Sustainable Development of Human Society in Terms of Natural Depleting Resources Preservation (mdpi.com)</p> <p>10. C.M. Grădinaru, A.A. Șerbănoiu, M. Petru, G.C. Sârbu, R. Muntean, "Synergic effects of sunflower stalks and sodium silicate in developing an ecological concrete", Env. Eng. & Man. J., IF = 0.916, ISSN 1582-9596, Vol. 19, Issue 1, pp.75-84, 2020, https://eemj.eu/index.php/EEMJ/article/view/4033</p> <p>11. Tomas Astrauskas, Tomas Januševicius and Raimondas Grubliauskas, "Acoustic Panels Made of Paper Sludge and Clay Composites", Sustainability MDPI, IF = 3.251, ISSN 2071-1050, vol. 13 (2), 637, pp.10, 2021, Sustainability Free Full-Text Acoustic Panels Made of Paper Sludge and Clay Composites (mdpi.com)</p> <p>12. Roman Fediuk, Mugahed Amran, Nikolai Vatin, Yuriy Vasilev, Valery Lesovik and Togay Ozbakkaloglu, "Acoustic Properties of Innovative Concretes: A Review", Materials MDPI, IF = 3.623, ISSN 1996-1944, vol. 14 (2), 398, pp.28, 2021, Materials Free Full-Text Acoustic Properties of Innovative Concretes: A Review (mdpi.com)</p> <p>13. C.S. Fonseca, M.V. Scatolino, L.E. Silva, M.A. Martins, M. Guimarães Júnior, G.H. Denzin Tonoli, "Valorization of Jute Biomass: Performance of Fiber–Cement Composites Extruded with Hybrid Reinforcement (Fibers and Nanofibrils)", Waste and Biomass Valorization, IF = 3.703, ISSN 1877-2641, vol. 12 (4), pp.19, 2021, Valorization of Jute Biomass: Performance of Fiber–Cement Composites Extruded with Hybrid Reinforcement (Fibers and Nanofibrils) SpringerLink</p> <p>14. S. Bouzit, F. Merli, M. Sonebi, C. Buratti, M. Taha, "Gypsum-plasters mixed with polystyrene balls for building insulation: Experimental characterization and energy performance", Construction and Building Materials, IF = 6.141, ISSN 0950-0618, vol. 283, 122625, pp.11, 2021, Gypsum-plasters mixed with polystyrene balls for building insulation: Experimental characterization and energy performance - ScienceDirect</p> <p>15. T. Astrauskas, R. Picó, V.J. Sánchez-Morcillo, R. Grubliauskas, "Acoustic panels based on recycled paper sludge and lime composites", Int. J. Environ. Sci. and Techn., IF = 2.86, ISSN 1735-1472, pp.8, 2021, Acoustic panels based on recycled paper sludge and lime composites SpringerLink</p> <p>16. K.P.R. Dandamudi, T. Murdock, P.J. Lammers, S. Deng, E.H. Fini, "Production of functionalized carbon from synergistic hydrothermal liquefaction of microalgae and swine manure", Resources, Conservation and Recycling, IF = 10.204, ISSN 0921-3449, vol. 170, 105564, pp.11, 2021, Production of functionalized carbon from synergistic hydrothermal liquefaction of</p>	
--	--	--

	<p>microalgae and swine manure - ScienceDirect</p> <p>17. J. Svoboda, T. Dvorský, V. Václavík, J. Charvát, K. Máčalová, S. Heviánková, E. Janurová, "Sound-Absorbing and Thermal-Insulating Properties of Cement Composite Based on Recycled Rubber from Waste Tires", Applied Sciences MDPI, IF = 2.679, ISSN 2076-3417, vol. 11(6), 2725, 2021, Applied Sciences Free Full-Text Sound-Absorbing and Thermal-Insulating Properties of Cement Composite Based on Recycled Rubber from Waste Tires (mdpi.com)</p> <p>18. E. Taban, S. Amininasab, P. Soltani, U. Berardi, D.D. Abdi, S.E. Samaei, "Use of date palm waste fibers as sound absorption material", Journal of Building Engineering, IF = 5.318, ISSN 2352-7102, 102752, pp.34, 2021, Use of date palm waste fibers as sound absorption material - ScienceDirect</p> <p>19. R.S.D. Amarilla, R.S. Ribeiro, M.H. de Avelar Gomes, R.P. Sousa, L.H. Sant'Ana, R.E. Cata, "Acoustic barrier simulation of construction and demolition waste: A sustainable approach to the control of environmental noise", Applied Acoustics, IF = 2.639, ISSN 0003-682X, vol. 182, 108201, pp.11, 2021, Acoustic barrier simulation of construction and demolition waste: A sustainable approach to the control of environmental noise - ScienceDirect</p> <p>20. T.S. Bozkurt, "Preparation of Industrial Noise Mapping and Improvement of Environmental Quality", Current Pollution Reports, IF = 6.373, ISSN 2198-6592, 40726, pp.19, 2021, Preparation of Industrial Noise Mapping and Improvement of Environmental Quality SpringerLink</p> <p>21. G.W. Leong, T.M. Chin, K.H. Mo, Z. Ibrahim, A. Putra, M.N.r Othman, "Incorporation of crumb rubber and air-entraining agent in ultra-lightweight cementitious composite: Evaluation of mechanical and acoustic properties", Journal of Building Engineering, IF = 5.318, ISSN 2352-7102, 103034, pp.18, 2021, Incorporation of crumb rubber and air-entraining agent in ultra-lightweight cementitious composite: Evaluation of mechanical - ScienceDirect</p> <p>22. A. Biskupiřová, M. Ledererová, St. Unřík, C. Glorieux and M. Rychtáriková, "Sound Absorption Properties of Materials Based on Recycled Plastic Granule Mixtures", Slovak Journal of Civil Engineering, ISSN 1210-3896, vol. 29 (1), pp.15-19, 2021, Sound Absorption Properties of Materials Based on Recycled Plastic Granule Mixtures (sciendo.com)</p> <p>23. T. Astrauskas, R. Grubliauskas, "Acoustic composite panels based on recycled paper sludge", Advances in Acoustics, Noise and Vibration: Proceedings of the 27th International Congress on Sound and Vibration ICSV27, ISSN 2329-3675, pp.1-7, 2021, Acoustic composite panels based on recycled paper sludge (vgtu.lt)</p> <p>24. M. Amran, R. Fediuk, G. Murali, N. Vatin and A. Al-Fakih, "Sound-Absorbing Acoustic Concretes: A Review", Sustainability MDPI, IF = 3.251, ISSN 2071-1050, vol. 13 (19), 10712, pp.36, 2021, Sustainability Free Full-Text Sound-Absorbing Acoustic Concretes: A Review (mdpi.com)</p> <p>25. Eun-Suk Jang, Chun-Won Kang, "The use of ring-porous East Asian ash (<i>Fraxinus japonica</i> (Thunb.) Steud.) and oak (<i>Quercus spp.</i>) cross-sections as eco-friendly resonance-absorbing materials for building", Wood Material Science & Engineering, IF = 2.553, ISSN 1748-0272, 2021, The use of ring-porous East Asian ash (Fraxinus japonica (Thunb.) Steud.) and oak (Quercus spp.) cross-sections as eco-friendly resonance-absorbing materials for building (tandfonline.com)</p>		
	<p>A3.3.3 Stescu C., Chicet D., Munteanu C., Istrate B., Benchea M., Basescu G.N., "Aspects regarding the influence of the processing regime on the surface quality of thermal sprayed coatings", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 444, 2018, Aspects regarding the influence of the processing regime on the surface quality of thermal sprayed coatings - IOPscience cu citările: 1+2.881=3.881</p> <p>1. M.S. Bălțatu, P. Vizureanu, A.V. Sandu, C. Munteanu, B. Istrate, "Microstructural Analysis and Tribological Behavior of Ti-Based Alloys with a Ceramic Layer Using the Thermal Spray Method", Coatings MDPI, IF = 2.881, ISSN 2079-6412, vol. 10 (12), 1216, pp.12, 2020, Coatings Free Full-Text Microstructural Analysis and Tribological Behavior (mdpi.com)</p>	C	3.88
	<p>A3.3.4 Mahu G., Munteanu C., Istrate B., Benchea M., Lupescu S., "Influence of Al₂O₃-13TiO₂ powder on a C45 steel using atmospheric plasma spray process", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 444, 2018, Influence of Al₂O₃-13TiO₂ powder on a C45 steel using atmospheric plasma spray process - IOPscience, cu citările: 5+1.62+1.755+3.623=11.998</p>	C	12

	<p>1. Gurdeep Singh, Santosh Kumar and Rakesh Kumar, "Comparative study of hot corrosion behavior of thermal sprayed alumina and titanium oxide reinforced alumina coatings on boiler steel", Mater. Res. Express, IF = 1.62, ISSN 2053-1591, vol. 7 (2), pp.12, 2020, https://www.webofscience.com/wos/woscc/full-record/WOS:000535224400027</p> <p>2. Mahu G., Munteanu C., Istrate, B., Blanari I., Paleu C., Cotrut C.M., "Evaluation of the Corrosion Resistance of Some Coating Obtained by Thermal Spray in Plasma Jet, on the Surface of Some Crankshafts Made of C45 Steel", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 71, nr. 10, pp.211-223, 2020, Evaluation of the Corrosion Resistance of Some Coating Obtained by Thermal Spray in Plasma Jet, on the Surface of Some Crankshafts (revistadechimie.ro)</p> <p>3. Jaroslaw Selech, Dariusz Ulbrich, Dawid Romek, Jakub Kowalczyk, Konrad Wlodarczyk, Karol Nadolny, "Experimental Study of Abrasive, Mechanical and Corrosion Effects in Ring-on-Ring Sliding Contact", Materials MDPI, IF = 3.623, ISSN 1996-1944, vol. 13 (21), 4950, pp.22, 2020, Materials Free Full-Text Experimental Study of Abrasive (mdpi.com)</p> <p>4. M. Luțcanu, N. Cimpoeșu, B. Istrate, M. Coteață, V. Manole, I. Știrbu, F. Dimitriu, "Analyze of Cutting Effect on Ceramic Coated Steels", Procedia Manufacturing, ISSN 2351-9789, Vol. 47, pp.808-811, 2020, Analyze of Cutting Effect on Ceramic Coated Steels - ScienceDirect</p> <p>5. M. Lutcanu, B. Istrate, M. Coteata, D.L. Chicet, I. Ionita, C. Paraschiv, I. Stirbu, G. Badarau and N. Cimpoesu, "Structural aspects and chemical analyses on cutting process of metallic-ceramic materials", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 1037, 012033, 2021, Structural aspects and chemical analyses on cutting process of metallic-ceramic materials - IOPscience</p>		
	<p>A3.3.5 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 = 2.985, ISSN 0020-7462, vol.103, pp.128-137, 2018, A fractal approach of the sound absorption behaviour of materials. Theoretical and experimental - ScienceDirect 3+2·2.713=8.426</p> <p>1. A. Petrovici, J.L. Cueto, V. Nedeff, E. Nava, F. Nedeff, R. Hernandez, C. Bujoreanu, S.A. Irimiciuc, M. Agop, "Dynamic Evaluation of Traffic Noise through Standard and Multifractal Models", Symmetry MDPI, IF = 2.713, ISSN 2073-8994, vol. 12 (11), 1857, pp.26, 2020, Symmetry Free Full-Text Dynamic Evaluation of Traffic Noise through Standard and Multifractal Models (mdpi.com)</p> <p>2. M. Agop, N. Cimpoesu, S. Gurlui, S.A. Irimiciuc, "Investigations of Transient Plasma Generated by Laser Ablation of Hydroxyapatite during the Pulsed Laser Deposition Process", Symmetry MDPI, IF = 2.713, ISSN 2073-8994, vol. 12 (1), 132, pp.15, 2020, Symmetry Free Full-Text Investigations of Transient Plasma Generated by Laser Ablation of Hydroxyapatite during the Pulsed Laser Deposition Process (mdpi.com)</p> <p>3. S. Pleshkov, G. Bracale, A. Kuznetsov, "Improving Design of an Energy-Efficient Lighting System Based on Mirrored Hollow Tubular Light Guides According to the Criterion of Its Soundproofing", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 1079, 042081, 2021, Improving Design of an Energy-Efficient Lighting System Based on Mirrored Hollow Tubular Light Guides According to the Criterion of Its Soundproofing - IOPscience</p>	C	8.43
	<p>A3.3.6 Minciună M.G., Achiței D.C., Vizureanu P., Benchea M., Sandu A.V., "The Effect of Heat Treatment and Corrosion Behavior of AISI420", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 374, 012039, 2018, The Effect of Heat Treatment and Corrosion Behavior of AISI420 - IOPscience, cu citările: 2+0.577=2.577</p> <p>1. C. Nejneru, C. Savin, M.C. Perju, D.D. Burduhos-Nergis, M. Costea and C. Bejinariu, "Studies on galvanic corrosion of metallic materials in marine medium", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 572, 012106, 2019, Studies on galvanic corrosion of metallic materials in marine medium - IOPscience</p> <p>2. Minciună M.G., Achiței D.C., Vizureanu P., Sandu A.V., Nabialek M., "Electrochemical Evaluation of AISI 420 Steel after Several Heat Treatments", Acta Physica Polonica A, IF = 0.577, ISSN 1898-794X, vol. 135 (2), pp.115-118, 2019, ACTA (icm.edu.pl)</p>	C	2.58

		<p>A.3.3.7 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, 012029, 2018, Assessment of Hard Thin Layers Deposited by Plasma Spray on Hydroboration - IOPscience, cu citările: 4=4</p> <p>1. D. Mihai, N. Cimpoeșu and V. Manole, "Simulation of solidification process of cast-iron and aluminum materials", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 572, 012020, 2019, Simulation of solidification process of cast-iron and aluminum materials - IOPscience</p> <p>2. P. Ciubotariu-Ana, N.M. Lohan, C.A. Micu, C. Baciuc and C. Bejinariu, "Investigations of thermal degradation and electrical properties of polyamide materials versus polybismaleimide materials for fire-fighters helmets", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 572, 012031, 2019, https://iopscience.iop.org/article/10.1088/1757-899X/572/1/012031</p> <p>3. R.A. Haraga, C. Bejinariu, A. Cazac, B.F. Toma, C. Baciuc and S.L. Toma, "Influence of surface roughness and current intensity on the adhesion of high alloyed steel deposits - obtained by thermal spraying in electric arc", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 572, 012056, 2019, Influence of surface roughness and current intensity on the adhesion of high alloyed steel deposits - obtained by thermal spraying in electric arc - IOPscience</p> <p>4. R.A. Haraga, D.L. Chicet, N. Cimpoeșu, S.L. Toma and C. Bejinariu, "Influence of the Stand-off Distance and of the Layers Thickness on the Adhesion and Porosity of the 97MXC Deposits Obtained by Arc Spraying Process", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 877, 012020, 2020, Influence of the Stand-off Distance and of the Layers Thickness on the Adhesion and Porosity of the 97MXC Deposits Obtained by Arc Spraying Process - IOPscience</p>	C	4
		<p>A3.3.8 C. Munteanu, S. Lupescu, B. Istrate, V.I. Antoniac, M. Benchea, A. Savin, "Some Tribological Aspects of Mg-0.5Ca-xY Biodegradable Materials", Key Engineering Materials, ISSN 1013-9826, Vol. 782, pp.136-141, 2018, cu citările: 1=1</p> <p>Some Tribological Aspects of Mg-0.5Ca-xY Biodegradable Materials Scientific.Net</p> <p>1. Priya Jadhav, Arunkumar Bongale and Satish Kumar, "Schematic review of plasma arc oxidation process for Mg Alloy Bio Implants", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 1017, 012011, 2021, Schematic review of plasma arc oxidation process for Mg Alloy Bio Implants - IOPscience</p>	C	1
		<p>A3.3.9 Mahu G., Munteanu C., Istrate, B., Benchea M., "Analysis of plasma jet depositions on a C45 steel used in crankshaft manufacturing", Materials Research Proceed., ISSN 2474-395X, Vol. 8, pp.61-69, 2018, Analysis of plasma jet depositions on a C45 steel used in crankshaft manufacturing-Web of Science Core Collection, cu citările: 1+1.755=2.755</p> <p>1. Mahu G., Munteanu C., Istrate, B., Blanari I., Paleu C., Cotrut C.M., "Evaluation of the Corrosion Resistance of Some Coating Obtained by Thermal Spray in Plasma Jet, on the Surface of Some Crankshafts Made of C45 Steel", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 71, nr. 10, pp.211-223, 2020, Evaluation of the Corrosion Resistance of Some Coating Obtained by Thermal Spray in Plasma Jet, on the Surface of Some Crankshafts (revistadechimie.ro)</p>	C	2.76
		<p>A3.3.10 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, 032008, 2018, Experimental, microstructural and tribological studies of the system Mg-2Ca-5Y - IOPscience, cu citările: 1=1</p> <p>1. A. Savin, R. Steigmann, M.L. Craus, M.D. Stanciu, B. Istrate, C. Munteanu, "Noninvasive evaluation of elastic properties for magnesium-calcium biodegradable alloys", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 1182, 012068, 2021, Noninvasive evaluation of elastic properties for magnesium-calcium biodegradable alloys - IOPscience</p>	C	1
		<p>A3.3.11 G. Mahu, C. Munteanu, B. Istrate, M. Benchea, "Plasma sprayed coatings on crankshaft used steels", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 227(1), 012077, 2017, http://iopscience.iop.org/article/10.1088/1757-899X/227/1/012077/meta cu citările: 3+1.755=4.755</p> <p>1. Pankaj Chhabra, Manpreet Kaur, Supreet Singh, "High temperature tribological performance of atmospheric plasma sprayed Cr₃C₂-NiCr coating on H13 tool steel", Materials Today Proceedings, ISSN 2214-7853, vol. 33 (3), pp.1518-1530, 2020, High temperature tribological performance of atmospheric plasma sprayed Cr₃C₂-NiCr coating - ScienceDirect</p>	C	4.76

	<p>2. Pankaj Chhabra, Manpreet Kaur, "Wear and friction characteristics of atmospheric plasma sprayed Cr₃C₂-NiCr coatings", Tribology-Materials Surfaces & Interfaces, ISSN 1751-5831, vol. 14 (3), pp.177-192, 2020, Wear and friction characteristics of atmospheric plasma sprayed Cr₃C₂-NiCr coatings: Tribology - Materials, Surfaces & Interfaces (tandfonline.com)</p> <p>3. Mahu G., Munteanu C., Istrate, B., Blanari I., Paleu C., Cotrut C.M., "Evaluation of the Corrosion Resistance of Some Coating Obtained by Thermal Spray in Plasma Jet, on the Surface of Some Crankshafts Made of C45 Steel", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 71, nr. 10, pp.211-223, 2020, Evaluation of the Corrosion Resistance of Some Coating Obtained by Thermal Spray in Plasma Jet, on the Surface of Some Crankshafts (revistadechimie.ro)</p>		
	<p>A3.3.12 C. Paulin, D. Chicet, V. Paleu, M. Benchea, Ș. Lupescu, C. Munteanu, "Dry friction aspects of Ni-based self-fluxing flame sprayed coatings", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 227(1), 012091, 2017, cu citările: 6+2.881+3.623=12.504 http://iopscience.iop.org/article/10.1088/1757-899X/227/1/012091/meta</p> <p>1. Skazochkin Aleksandr V., Bondarenko Gennady G. and Kislov Stanislav V., "Research of Tribological Features of Steel Surface by Creating Mineral Coatings", Journal of Engineering Science and Technology Review, ISSN 1791-2377, vol. 11 (6), pp.138-143, 2018, Issues JESTR fulltext171162018.pdf (jestr.org)</p> <p>2. C. Stescu, D. Chicet, C. Munteanu, C. Croitoru and. V. Cârlescu, "Machining of thermal sprayed coatings - a case study for self-fluxing powder", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 572, 012051, 2019, Machining of thermal sprayed coatings – a case study for self-fluxing powder - IOPscience</p> <p>3. M.D. Nedeloni, L. Nedeloni, L. Cîndea, V. Iancu, A.V. Petrica, A.M. Budai and I.L. Conciatu, "Aspects concerning the cavitation erosion and dry sliding wear behaviour of the YSn83 antifriction alloy and EN-GJS-400-15 spheroidal cast iron", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 477, 012060, 2019, Aspects concerning the cavitation erosion and dry sliding wear behaviour of the YSn83 antifriction alloy and EN-GJS-400-15 - IOPscience</p> <p>4. C. Stescu, D. Chicet, A.Tufescu, B. Istrate, C. Munteanu, S.I. Strugaru, "Contact stress simulation problem in case of thermal spray coatings", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 916, 012114, 2020, Contact stress simulation problem in case of thermal spray coatings - IOPscience</p> <p>5. C.C. Paleu, C. Munteanu, B. Istrate, S. Bhaumik, P. Vizureanu, M.S. Bălțatu, V. Paleu, "Microstructural Analysis and Tribological Behavior of AMDRY 1371 (Mo-NiCrFeBSiC) Atmospheric Plasma Spray Deposited Thin Coatings", Coatings MDPI, IF = 2.881, ISSN 2079-6412, vol. 10 (12), 1186, pp.17, 2020, Coatings Free Full-Text Microstructural Analysis and Tribological Behavior of AMDRY 1371 (Mo-NiCrFeBSiC) Atmospheric Plasma Spray Deposited Thin Coatings (mdpi.com)</p> <p>6. C. Munteanu, V. Paleu, B. Istrate, A. Dascălu, C.C. Paleu, S. Bhaumik, A.D. Ancaș, "Tribological Behavior and Microstructural Analysis of Atmospheric Plasma Spray Deposited Thin Coatings on Cardan Cross Spindles", Materials MDPI, IF = 3.623, ISSN 1996-1944, vol. 14 (23), 7322, pp.20, 2021, Materials Free Full-Text Tribological Behavior and Microstructural Analysis of Atmospheric Plasma Spray Deposited Thin Coatings on Cardan Cross Spindles (mdpi.com)</p>	C	12.5
	<p>A3.3.13 B. Istrate, C. Munteanu, S. Lupescu, M. Benchea, P. Vizureanu, "Preliminary Microstructural and Microscratch Results of Ni-Cr-Fe and Cr₃C₂-NiCr Coatings on Magnesium Substrate", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 209(1), 012024, 2017, http://iopscience.iop.org/article/10.1088/1757-899X/209/1/012024/meta, cu citările: 7+0.577+2.881=10.458</p> <p>1. B.L.R. Manea, A. Berteau, A. Popa, A.P. Berteau, "Electrospun Membranes for Environmental Protection", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 374, 012081, 2018, Electrospun Membranes for Environmental Protection - IOPscience</p> <p>2. C. Stescu, D. Chicet, C. Munteanu, C. Croitoru and. V. Cârlescu, "Machining of thermal sprayed coatings - a case study for self-fluxing powder", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 572, 012051, 2019, Machining of thermal sprayed coatings – a case study for self-fluxing powder - IOPscience</p> <p>3. O. Mocanita, D. Chicet, B. Istrate, C. Micu and C. Munteanu, "Investigation of thermal coating influence on the fire resistance of a multi-layer material", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 572, 012052, 2019, Investigation of thermal coating influence on the fire resistance of a multi-layer material - IOPscience</p>	C	10.46

	<p>4. C. Stescu, D. Chicet, V. Cârlescu, O. Mocanita, C. Munteanu, "Microstructural analysis, evaluation of the adhesion and utilization properties of plasma coatings on alloy steel substrate", Materials Today Proceedings, ISSN 2214-7853, vol. 19 (3), pp.1081-1090, 2019, Microstructural analysis, evaluation of the adhesion and utilization properties - ScienceDirect</p> <p>5. M. Panturu, V. Cârlescu, D. Chicet, L. Raileanu, C. Munteanu, "Evaluation of adhesion - cohesion of some tbcs used for internal combustion engine valves using scratch method", U.P.B. Sci. Bull., Series B, ISSN 1454-2311, Vol. 81, Iss. 2, pp.215-224, 2019, Evaluation of adhesion - cohesion of some tbcs used for internal combustion engine valves using scratch method-Web of Science Core Collection</p> <p>6. Minciună M.G., Achitei D.C., Vizureanu P., Sandu A.V., Nabialek M., "Electrochemical Evaluation of AISI 420 Steel after Several Heat Treatments", Acta Physica Polonica A, IF = 0.577, ISSN 1898-794X, vol. 135 (2), pp.115-118, 2019, ACTA (icm.edu.pl)</p> <p>7. Abhishek Tiwari, Saravanan Seman, Gaurav Singh and Rengaswamy Jayaganthan, "Nanocrystalline Cermet Coatings for Erosion-Corrosion Protection", Coatings MDPI, IF = 2.881, ISSN 2079-6412, vol. 9 (6), 400, pp.31, 2019, Coatings Free Full-Text Nanocrystalline Cermet Coatings for Erosion-Corrosion Protection (mdpi.com)</p>		
	<p>A3.3.14 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 = 2.639, 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</p> <p>cu citările: $45+7.664+6.617+9.297+7.2639+1.726+7.145+5.879+6.789+3.623+2.2679+2.4.282+2.2.351+1.5+2.276+5.039+2.5.323+5.458+0.593+2.9.381+2.524+6.419+4.22+1.975+0.903+4.329=194.481$</p> <p>1. X. Tang, X. Yan, "Acoustic energy absorption properties of fibrous materials: A review", Composites Part A: Applied Science and Manufacturing, IF = 7.664, ISSN 1359-835X, vol. 101, pp.360-380, 2017, Acoustic energy absorption properties of fibrous materials: A review - ScienceDirect</p> <p>2. F.M. Nedeff, N. Bârsan, A.L. Fînar, "Studies and Research Concerning the Use of Some Recyclable Absorbent Materials for Increasing Acoustic Comfort Into a Room Designed for Speaking", Scientific Study & Research Chemistry & Chemical Engineering, Biotechnology, Food Industry, ISSN 1582-540X, vol. 18 (3), pp.329-338, 2017, Studies and Research Concerning the Use of Some Recyclable Absorbent Materials-Web of Science Core Collection</p> <p>3. Leitao Cao, Qiuxia Fu, Yang Si, Bin Ding, Jianyong Yu, "Porous materials for sound absorption", Composites Communications, IF = 6.617, ISSN 2452-2139, vol. 10, pp.25-35, 2018, Porous materials for sound - ScienceDirect</p> <p>4. Xinwu Xu, Huixiang Wang, Yan Sun, Jingquan Han, Runzhou Huang, "Sound absorbing properties of perforated composite panels of recycled rubber, fiberboard sawdust, and high density polyethylene", J. of Clean. Prod., IF = 9.297, ISSN 0959-6526, vol. 187, pp.215-221, 2018, Sound absorbing properties of perforated composite panels - ScienceDirect</p> <p>5. Chien-Chou Liao, Chang-Wei Hsueh, Tong-Yuan Zhong, Chih-Chun Hsu, Yiin-Kuen Fuh, "Multiple vibrating plates of sound suppression mask for minimizing tics impulse acoustics of Tourette's patients", Applied Acoustics, IF = 2.639, ISSN 0003-682X, vol. 129, pp.27-35, 2018, Multiple vibrating plates of sound suppression mask for minimizing - ScienceDirect</p> <p>6. P. Kulhavy, A. Samkova, M. Petru, M. Pechociakova, "Improvement of the Acoustic Attenuation of Plaster Composites by the Addition of Short-Fibre Reinforcement", Advances in Materials Science and Engineering, IF = 1.726, ISSN 1687-8434, 7356721, pp.15, 2018, Improvement of the Acoustic Attenuation of Plaster Composites by the Addition of Short-Fibre Reinforcement (hindawi.com)</p> <p>7. S.M. Nasri, I.Shofwati, "Utilization of Styrofoam as Soundproofing Material with Auditory Frequency Range", Kesmas: National Public Health Journal, ISSN 1907-7505, vol. 13 (2), pp.99-104, 2018, Utilization of Styrofoam as Soundproofing Material with Auditory Frequency Range-Web of Science Core Collection</p> <p>8. C. Leiva, Y. Luna-Galiano, C. Arenas, B. Alonso-Fariñas, C. Fernández-Pereira, "A porous geopolymer based on</p>	C	194.48

	<p>aluminum-waste with acoustic properties", Waste Management, IF = 7.145, ISSN 0956-053X, vol. 95, pp.504-512, 2019, A porous geopolymer based on aluminum-waste with acoustic properties - ScienceDirect</p> <p>9. Huan Gao, Hao Liu, Libing Liao, Lefu Mei, Pengfei Shuai, Ziyang Xi, Guocheng Lv, "A novel inorganic thermal insulation material utilizing perlite tailings", Energy and Buildings, IF = 5.879, ISSN 0378-7788, vol. 190, pp.25-33, 2019, A novel inorganic thermal insulation material utilizing perlite tailings - ScienceDirect</p> <p>10. Shafiqul Islam, Gajanan Bhat, "Environmentally-friendly thermal and acoustic insulation materials from recycled textiles", Journal of Environmental Management, IF = 6.789, ISSN 0301-4797, vol. 251, 109536, 2019, Environmentally-friendly thermal and acoustic insulation materials from recycled textiles - ScienceDirect</p> <p>11. Kangkang Shi, Guoyong Jin, Tianguai Ye, Yantao Zhang, Mingfei Chen, Yaqiang Xue, "Underwater sound absorption characteristics of metamaterials with steel plate backing", Applied Acoustics, IF = 2.639, ISSN 0003-682X, vol. 153, pp.147-156, 2019, Underwater sound absorption characteristics of metamaterials with steel plate backing - ScienceDirect</p> <p>12. Xiaocui Yang, Xinmin Shen, Panfeng Bai, Xiaohui He, Xiaonan Zhan, Zhizhong Li, Liang Chen and Qin Yin, "Preparation and Characterization of Gradient Compressed Porous Metal for High-Efficiency and Thin-Thickness Acoustic Absorber", Materials MDPI, IF = 3.623, ISSN 1996-1944, vol. 12(9), 1413, 2019, Materials Free Full-Text Preparation and Characterization of Gradient Compressed Porous Metal for High-Efficiency and Thin-Thickness Acoustic (mdpi.com)</p> <p>13. Xinmin Shen, Panfeng Bai, Xiaocui Yang, Xiaonan Zhang and Sandy To, "Low Frequency Sound Absorption by Optimal Combination Structure of Porous Metal and Microperforated Panel", Applied Sciences MDPI, IF = 2.679, ISSN 2076-3417, vol. 9(7), 1507, 2019, Applied Sciences Free Full-Text Low Frequency Sound Absorption by Optimal (mdpi.com)</p> <p>14. Nirmala H. Bhingare, S. Prakash, Vijaykumar S. Jatti, "A review on natural and waste material composite as acoustic material", Polymer Testing, IF = 4.282, ISSN 0142-9418, vol. 80, 106142, 2019, A review on natural and waste material composite as acoustic material - ScienceDirect</p> <p>15. F. Yang, X. Shen, P. Bai, X. Zhang, Z. Li and Q. Yin, "Optimization and Validation of Sound Absorption Performance of 10-Layer Gradient Compressed Porous Metal", Metals MDPI, IF = 2.351, ISSN 2075-4701, vol. 9(5), 588, 2019, Metals Free Full-Text Optimization and Validation of Sound Absorption Performance of 10-Layer Gradient (mdpi.com)</p> <p>16. J.D. Rios, C. Arenas, H. Cifuentes, B. Peceño and C. Leiva, "Porous Structure by X-Ray Computed Tomography and Sound Absorption in Pervious Concretes with Air Cooled Blast Furnace Slag as Coarse Aggregate", Acoustics Australia, IF = 1.5, ISSN 1839-2571, vol. 47, pp.271-276, 2019, Porous Structure by X-Ray Computed Tomography and Sound Absorption in Pervious Concretes with Air Cooled Blast Furnace Slag as Coarse Aggregate SpringerLink</p> <p>17. Chang-Wei Hsueh, Chien-Chou Liao, Tong-Yuan Zhong, Jia-Zheng Su, Chang Hsueh-Er and Yiin-Kuen Fuh, "3D printed acoustic metamaterials with microscale gaps as sound-absorbing mask for the patients of Tourette syndrome", Microsystem Technologies, IF = 2.276, ISSN 0946-7076, vol. 25, pp.551-559, 2019, 3D printed acoustic metamaterials with microscale gaps as sound-absorbing mask for the patients of Tourette syndrome SpringerLink</p> <p>18. I. Oancea, G. Covatariu, "Simulation on implementing noise mitigation measures in a typical urban area", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 586, 2019, Simulation on implementing noise mitigation measures in a typical urban - IOPscience</p> <p>19. E. Selver, "Acoustic properties of Hybrid Glass/Flax and Glass/Jute composites consisting of different stacking sequences", Tekstil ve Muhendis, ISSN 1300-7599, vol. 26 (113), pp.42-51, 2019, Scopus - Document details</p> <p>20. Xinmin Shen, Panfeng Bai, Liang Chen, Sandy To, Fei Yang, Xiaonan Zhang, Qin Yin, "Development of thin sound absorber by parameter optimization of multilayer compressed porous metal with rear cavity", Applied Acoustics, IF = 2.639, ISSN 0003-682X, vol. 159, 107071, 2020, Development of thin sound absorber by parameter optimization of multilayer compressed porous metal with rear cavity - ScienceDirect</p> <p>21. H. Duan, X. Shen, Q. Yin, F. Yang, P. Bai, X. Zhang, M. Pan, "Modeling and optimization of sound absorption coefficient of microperforated compressed porous metal panel absorber", Appl. Acous., IF = 2.639, ISSN 0003-682X, vol. 166, 107322,</p>		
--	---	--	--

	<p>2020, Modeling and optimization of sound absorption coefficient of microperforated compressed porous - ScienceDirect</p> <p>22. Xiaocui Yang, Xinmin Shen, Haiqin Duan, Fei Yang, Xiaonan Zhang, Ming Pan and Qin Yin, "Improving and Optimizing Sound Absorption Performance of Polyurethane Foam by Prepositive Microperforated Polymethyl Methacrylate Panel", Applied Sciences MDPI, IF = 2.679, ISSN 2076-3417, vol. 10(6), 2103, 2020, Applied Sciences Free Full-Text Improving and Optimizing Sound Absorption Performance of Polyurethane Foam by Prepositive Microperforated (mdpi.com)</p> <p>23. Xiaocui Yang, Xinmin Shen, Haiqin Duan, Xiaonan Zhang and Qin Yin, "Identification of Acoustic Characteristic Parameters and Improvement of Sound Absorption Performance for Porous Metal", Metals MDPI, IF = 2.351, ISSN 2075-4701, vol. 10(3), 340, 2020, Metals Free Full-Text Identification of Acoustic Characteristic Parameters (mdpi.com)</p> <p>24. U.A. Malawade, M.G. Jadhav, "Investigation of the Acoustic Performance of Bagasse", J Mater Res and Techn, IF = 5.039, ISSN 2238-7854, vol. 9(1), pp.882-889, 2020, Investigation of the Acoustic Performance of Bagasse - ScienceDirect</p> <p>25. Xiaoning Tang, Xueting Liu and Xiong Yan, "Investigation on the Sound Absorption Properties of Waste Green Tea Residues Covered by Woven Fabric", Journal of Natural Fibers, IF = 5.323, ISSN 1544-0478, 2020, Investigation on the Sound Absorption Properties of Waste Green Tea Residues Covered by Woven Fabric (tandfonline.com)</p> <p>26. Xiuhai Zhang, Zhiguo Qu and Hui Wang, "Engineering Acoustic Metamaterials for Sound Absorption: From Uniform to Gradient Structures", Elsevier iScience, IF = 5.458, ISSN 2589-0042, vol. 23(5), 101110, 2020, Engineering Acoustic Metamaterials for Sound Absorption: From Uniform to Gradient Structures - ScienceDirect</p> <p>27. Wasan Leelawanachai, Nattapol Dedruktip, Nuchnapa Tangboriboon, "Energy-Absorption Ability of Embedding Whisker Alumina Fiber into Natural Rubber Composite for Insulation Applications", Materials Science Forum, ISSN 0255-5476, vol. 987, pp.47-52, 2020, Energy-Absorption Ability of Embedding Whisker Alumina Fiber into Natural Rubber Scientific.Net</p> <p>28. R. Ružickij, T. Astrauskas, S. Valtere, R. Grubliauskas, "Sound Absorption Properties Evaluation and Analysis of Recycled Tyre Textile Fibre Waste", Environmental and Climate Technologies, ISSN 1691-5208, vol. 24, no. 3, pp.318-328, 2020, Sound Absorption Properties Evaluation and Analysis of Recycled Tyre Textile Fibre Waste (sciendo.com)</p> <p>29. Haradhan Kolya, Chun Won Kang, "High acoustic absorption properties of hackberry compared to nine different hardwood species: A novel finding for acoustical engineers", Applied Acoustics, IF = 2.639, ISSN 0003-682X, vol. 169, 107475, 2020, High acoustic absorption properties of hackberry compared to nine different hardwood - ScienceDirect</p> <p>30. L. Himiniuc, M. Agop, V. Ghizdovat, M.A. Paun, V.A. Paun, C. Baci, V.P. Paun, B. Toma, "A Drug Release Mechanism Controlled by Hydrophobic/ Hydrophilic Balance of the Matrix. Theoretical and Experimental Perspectives", Mater. Plast., IF = 0.593, ISSN 0025-5289, vol. 57 (4), pp.155-165, 2020, Mater Plast Elastomeri Fibre Sint (revmaterialeplastice.ro)</p> <p>31. S.Y. Jung, D.H. Yeom, R.K. Kong, G.G. Shin, K.S. Lee, H.S. Byeon, "Sound absorption property of the leaves of two evergreen broad-leaved tree species, dendropanax morbiferus and fatsia japonica", Journal of the Korean Wood Science and Technology, ISSN 1017-0715, vol. 48 (5), pp.631-640, 2020, Scopus - Document details</p> <p>32. Lu Shen, Haoruo Zhang, Yanzhou Lei, Yang Chen, Mei Liang, Huawei Zou, "Hierarchical pore structure based on cellulose nanofiber/melamine composite foam with enhanced sound absorption performance", Carbohydrate Polymers, IF = 9.381, ISSN 0144-8617, vol. 255, 117405, 2021, Hierarchical pore structure based on cellulose nanofiber/melamine composite foam with enhanced sound absorption performance - ScienceDirect</p> <p>33. M. Agop, S.A. Irimiciuc, A. Ghenadi, L. Bibire, S. Toma, T.C. Petrescu, D. Vaideanu, C.M. Rusu, A. Gavrilut, D. Vasincu, "The Role of Information in Managing Interactions from a Multifractal Perspective", Entropy MDPI, IF = 2.524, ISSN 1099-4300, vol. 23(2), 148, 2021, Entropy Free Full-Text The Role of Information in Managing Interactions (mdpi.com)</p> <p>34. Senthilrajan Sambandamoorthy, Venkateshwaran Narayanan, Lenin Babu Mailan Chinnapandi, Alavudeen Aziz, "Impact of fiber length and surface modification on the acoustic behaviour of jute fiber", Applied Acoustics, IF = 2.639, ISSN 0003-682X, vol. 173, 107677, 2021, Impact of fiber length and surface modification on the acoustic behaviour - ScienceDirect</p> <p>35. D. Ailincăi, M. Agop, I.C. Marinas, A. Zala, S.A. Irimiciuc, L. Dobreci, T.C. Petrescu, C. Volovat, "Theoretical model for</p>		
--	--	--	--

	<p>the diclofenac release from PEGylated chitosan hydrogels", Drug Delivery, IF = 6.419, ISSN 1071-7544, vol. 28(1), pp.261-271, 2021, Full article: Theoretical model for the diclofenac release from PEGylated chitosan hydrogels (tandfonline.com)</p> <p>36. Haradhan Kolya, Chun-Won Kang, "Hygrothermal treated paulownia hardwood reveals enhanced sound absorption coefficient: An effective and facile approach", Applied Acoustics, IF = 2.639, ISSN 0003-682X, vol. 174, 107758, 2021, Hygrothermal treated paulownia hardwood reveals enhanced sound absorption coefficient - ScienceDirect</p> <p>37. Gaojian Wu, Pengcheng Xie, Huaguang Yang, Kaifang Dang, Yuxuan Xu, Mohini Sain, Lih-Sheng Turng & Weimin Yang, "A review of thermoplastic polymer foams for functional applications", Journal of Materials Science, IF = 4.22, ISSN 0022-2461, pp.26, 2021, A review of thermoplastic polymer foams for functional applications SpringerLink</p> <p>38. H.M. Lee, W. Luo, J. Xie, G. Wen & H.P. Lee, "Studies on the sound absorption and transmission loss performances of wood-based, natural and waste materials", Acta Mechanica Sinica, IF = 1.975, ISSN 0567-7718, pp.13, 2021, Studies on the sound absorption and transmission loss performances of wood-based, natural and waste materials SpringerLink</p> <p>39. Ulhas Arun Malawade, Vishvesh V. Malgaonkar, Avinash M. Badadhe, Madhavrao G. Jadhav, "Utilization and Study of Raw Groundnut Shell as a Source of Sound Absorbing Material", Journal of Natural Fibers, IF = 5.323, ISSN 1544-0478, 2021, Utilization and Study of Raw Groundnut Shell as a Source of Sound Absorbing Material (tandfonline.com)</p> <p>40. Lucian Dobreci, Alexandra Saviuc, Tudor-Cristian Petrescu, Maria-Alexandra Paun, Mihail Frasila, Florin Nedeff, Vladimir-Alexandru Paun, Catalin Dumitrascu, Viorel-Puiu Paun, Maricel Agop, "Towards interactions through differentiable-non-differentiable scale transitions in scale relativity theory", U.P.B. Sci. Bull., IF = 0.903, ISSN 1223-7027, Series A, Vol. 83, Iss. 2, pp.239-252, 2021, rez4c8_816960.pdf (upb.ro) Scientific Bulletin-University Politehnica of Bucharest (upb.ro)</p> <p>41. Harpalsinh M. Vaghela, Nikunj V. Rachchh, Dhairat N. Trivedi, "Mechanical Characterization and Acoustic Insulation of Wool-Polyester-Glass Hybrid Composite Material", Vegetable Fiber Composites and their Technological Applications, Composites Science and Technology, Springer, Singapore, 2021, doi.org/10.1007/978-981-16-1854-3_2, Mechanical Characterization and Acoustic Insulation of Wool-Polyester-Glass Hybrid Composite Material SpringerLink</p> <p>42. J. Dessi-Olive, T. Hsu, "A design framework for absorption and diffusion panels with sustainable materials", INTER-NOISE and NOISE-CON Congress and Conference Proceedings, InterNoise21, Washington, D.C., USA, pp.2207-2218, 2021, doi.org/10.3397/IN-2021-2074, A design framework for absorption and diffusion panels with sustainable materials: Ingenta Connect</p> <p>43. Md Abu Shaïd Sujon, Aminul Islam, Venkata Karthik Nadimpalli, "Damping and sound absorption properties of polymer matrix composites: A review", Polymer Testing, IF = 4.282, ISSN 0142-9418, vol. 104, 107388, 2021, Damping and sound absorption properties of polymer matrix composites: A review - ScienceDirect</p> <p>44. Haradhan Kolya, Chun-Won Kang, "Oxidation treatment on wood cell walls affects gas permeability and sound absorption capacity", Carbohydrate Polymers, IF = 9.381, ISSN 0144-8617, 118874, pp.11, 2021, Oxidation treatment on wood cell walls affects gas permeability and sound absorption capacity - ScienceDirect</p> <p>45. E.S. Băcăiță, C.A. Peptu, C.L. Savin (Logigan), M. Lutcanu, M. Agop, "Manifest/Non-Manifest Drug Release Patterns from Polysaccharide Based Hydrogels-Case Study on Cyclodextrin-κ Carrageenan Crosslinked Hydrogels", Polymers MDPI, IF = 4.329, ISSN 2073-4360, vol. 13 (23), 4147, pp.22, 2021, Polymers Free Full-Text Manifest/Non-Manifest Drug Release Patterns from Polysaccharide Based Hydrogels-Case Study on Cyclodextrin-κ Carrageenan Crosslinked Hydrogels</p>		
	<p>A3.3.15 M.S. Bălțatu, P. Vizureanu, M. Benchea, M.G. Minciună, D.C. Achîței, 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, cu citările: 1+1.755=2.755</p> <p>1. S. Lupescu, C. Munteanu, B. Istrate, K. Earar, "The Influence of Zr on Microstructure, Mechanical Properties and Corrosion Resistance in Mg-Y-Zr Biodegradable Alloys", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 12, pp.3382-3385, 2018, The Influence of Zr on Microstructure, Mechanical Properties and Corrosion Resistance in Mg-Y-Zr Biodegradable Alloys (revistadechimie.ro)</p>	C	2.76

		<p>A3.3.16 O. Mocănița, D. Chicet, M. Benchea, B. Istrate, C. Munteanu, "Coating of Liquid Wood Sheets", Materials Science Forum, ISSN 0255-5476, Vol. 907, pp.134-139, 2017, https://www.scientific.net/MSF.907.134, cu citările: 1+1.62=2.62</p> <p>1. D. Nedelcu, A. Marguta, S. Mazurchevici, C. Munteanu and B. Istrate, "Micro-structural and morphological analyses of coated 'liquid wood' samples by ceramic particles", Mater. Res. Express, IF = 1.62, ISSN 2053-1591, vol. 6 (8), 012011, 2019, https://www.webofscience.com/wos/woscc/full-record/WOS:000469826100001</p>	C	2.62
		<p>A3.3.17 C. Stescu, C. Munteanu, D. Luca, B. Istrate, M. Benchea, D. Chicet, B. Oprisan, "Increasing Wear Resistance of Power Steering Pump Cam Using Ni-Cr-Fe and Ni-Cr-Fe-B Coatings", Materials Science Forum, ISSN 0255-5476, Vol. 907, pp.145-150, 2017, https://www.scientific.net/MSF.907.145, cu citările: 1+1.499=2.499</p> <p>1. M. Natesh & M. Manikandan, "Influence of Filler Wires to Suppress the Microsegregation and to Improve Mechanical Properties of Conventional Arc-Welded Nickel-Based Superalloy Incoloy 20", Transactions of the Indian Institute of Metals, IF = 1.499, ISSN 0972-2815, vol. 73, pp.1333-1362, 2020, Influence of Filler Wires to Suppress the Microsegregation and to Improve Mechanical Properties of Conventional Arc-Welded Nickel-Based Superalloy Incoloy 20 SpringerLink</p>	C	2.5
		<p>A3.3.18 Bujoreanu C., Benchea M., "Experimental investigation of noise characteristics for HVAC silencers", MATEC Web Conf., vol. 112, 07001, 2017, Experimental investigation of noise characteristics for HVAC silencers(matec-conferences.org) cu citările: 2+6.456=8.456</p> <p>1. Králíček J., Zmrhal V., Kučera M., Mička L., "Acoustic absorber for the reduction of noise exposure", Vytapeni, Vetrani, Instalace, ISSN 1210-1389, vol. 30 (1), pp.8-16, 2021, Scopus - Document details - Acoustic absorber for the reduction of noise exposure</p> <p>2. Chi Zhang, Angui Li, Jiaxing Li, Haimeng Li, Yue Li, Jing Xiong, Wenchao Lv, Jigang Che, Jinnan Guo, Xiaoya Zhang, "Optimization and analysis of the acoustic and resistance performance of the plenum chamber via sample entropy and large eddy simulation", Build. and Environ., IF = 6.456, ISSN 0360-1323, pp.41, 108545, 2021, Optimization and analysis of the acoustic and resistance performance of the plenum chamber via sample entropy and large eddy simulation - ScienceDirect</p>	C	8.46
		<p>A3.3.19 Bujoreanu C., Benchea M., "Experimental study on HVAC sound parameters", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 147(1), 012051, 2016, http://iopscience.iop.org/article/10.1088/1757-899X/147/1/012051 cu citările: 4+1.755+9.746=15.501</p> <p>1. C.D. Florea, C. Munteanu, N. Cimpoesu, I.G. Sandu, C. Baciuc, C. Bejinariu, "Characterization of Advanced Ceramic Materials Thin Films Deposited on Fe-C Substrate", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 68, nr. 11, pp.2582-2587, 2017, Characterization of Advanced Ceramic Materials Thin Films Deposited on Fe-C (revistadechimie.ro)</p> <p>2. Himanshu Dehra, "Principles of energy conversion and noise characterization in air ventilation ducts exposed to solar radiation", Applied Energy, IF = 9.746, ISSN 0306-2619, vol. 242, pp.1320-1345, 2019, Principles of energy conversion and noise characterization in air ventilation ducts exposed to solar radiation - ScienceDirect</p> <p>3. Suyatno and N B Panggabean, "A silencer design and analysis of the effect of silencer perforation towards resonant frequency and insertion loss in a duct", J. of Phys.: Conf. Ser., ISSN 1742-6596, vol. 1896, 012019, pp.9, 2021, A silencer design and analysis of the effect of silencer perforation towards resonant frequency and insertion loss in a duct - IOPscience</p> <p>4. Haslina Abdullah, Reazul Haq Abdul Haq, Mohd Nasrull Abdol Rahman, Ho Fu Haw, Said Ahmad, Ahmad Mubarak Tajul Ariffin, Mohd Fahrul Hassan, "Simulation of Fluid Structure Interaction Air Duct System Using Finite Element Method Software", Intelligent Manufacturing and Mechatronics, Lecture Notes in Mechanical Engineering, Springer, Singapore, 2021, doi:10.1007/978-981-16-0866-7_112, Simulation of Fluid Structure Interaction Air Duct System Using Finite Element Method Software SpringerLink</p>	C	15.5
		<p>A3.3.20 Istrate B., Munteanu C., Crimu C.I., Strugaru S.I., Benchea M., Earar K., "Morphological and tribological aspects of some ZrO₂ coatings on Mg-Ca biodegradable alloys", Indian J. of Eng. & Mat. Sci., IF =0.881, ISSN 0971-4588, vol.23, pp.418-424, 2016, http://nopr.niscair.res.in/IJEMS%2023%286%29%20418-424.pdf, cu citările: 15+14.1.755=39.57</p>	C	39.57

	<p>1. D. Cerghizan, T. Tirca, I.G. Bumbescu, M.M. Scutariu, A. Caraiane, "Effectiveness of Various Gingival Sulcus Widening Materials", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 1, pp.271-276, 2018, Effectiveness of Various Gingival Sulcus Widening Materials (revistadechimie.ro)</p> <p>2. I. Gradinaru, L. Ignat, C.G. Dascalu, L.V. Soroaga, M.E. Antohe, "Studies Regarding the Architectural Design of Various Composites and Nanofibres Used in Dental Medicine", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 2, pp.328-331, 2018, Studies Regarding the Architectural Design of Various Composites and Nanofibres (revistadechimie.ro)</p> <p>3. H.R.C. Benea, K. Earar, W. Lattanzi, V. Quercia, C. Berce, O. Soritau, M. Saccomanno, G. Milano, G. Tomoaia, D. Cerchizan, A. Mohan, "Collagen Scaffold and Lipoaspirate Fluid-derived Stem Cells for the Treatment of Cartilage Defects in a Rabbit Model", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 2, pp.515-520, 2018, Collagen Scaffold and Lipoaspirate Fluid-derived Stem Cells for the Treatment of Cartilage Defects in a Rabbit Model (revistadechimie.ro)</p> <p>4. G. Raftu, C. N., K. Earar, A. Caraiane, "Socio-environmental Factors Associated with Dental Malocclusion", Rev. de Chi., IF = 1.755, ISSN 0034-7752, vol. 69, nr. 3, pp.707-709, 2018, Socio-environmental Factors Associated (revistadechimie.ro)</p> <p>5. A. Caraiane, G. Raftu, E.C. Sin, S.G. Bustiuc, "The Efficiency of Cream Adhesives for Prosthesis Evaluated by the Wearer of Acrylic Total Prosthesis", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 3, pp.725-727, 2018, The Efficacy of Cream Adhesives for Prosthesis Evaluated by the Wearer of Acrylic Total Prosthesis (revistadechimie.ro)</p> <p>6. S. Baci, C. Berece, A. Florea, A.V. Tonea, O. Lucaci, A.V. Burde, M. Rusnac, M. Manole, A. Saceleanu, A. Mohan, K. Earar, A. Caraiane, "Comparison of Two Evaluating Methods for Establishing the Marginal Fit on Four Heat - Pressed Resin Inlays", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 4, pp.890-893, 2018, Comparison of Two Evaluating Methods for Establishing the Marginal Fit on Four Heat - Pressed Resin Inlays (revistadechimie.ro)</p> <p>7. A. Caraiane, G. Raftu, R. Leata, D. Cerghizan, L.A. Macovei, S.C. Focsaneanu, A.M. Covaci, M.R. Negraia, M. Ilie, A.R. Dimofte, M. Decusara, "Odontal and Protetic Reconstruction in Total Coronar Fractures", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 4, pp.1010-1013, 2018, Odontal and Protetic Reconstruction (revistadechimie.ro)</p> <p>8. M. Decusara, A. Caraiane, L.A. Macovei, M. Ilie, S.C. Focsaneanu, A.M. Covaci, M. Rusu Negraia, G. Raftu, "Chemical Senses- Smell and Olfaction", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 4, pp.1034-1036, 2018, Chemical Senses- Smell and Olfaction (revistadechimie.ro)</p> <p>9. D. Pascalau, M.C. Dudescu, V. Merie, M. Pustan, T.F. Marinca, D.C. Ionel, A.S. Mesaros, "Oxidative Chemical Hybrid Formulations for Internal Bleaching of Endodontically Treated Teeth", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 7, pp.1760-1765, 2018, Oxidative Chemical Hybrid Formulations for Internal Bleaching (revistadechimie.ro)</p> <p>10. C.C. Budacu, N. Ioanid, C. Romanec, M. Balan, L.L. Pavel, M. Pacurar, S. Rosu, "Dental Inclusion of Canine and Wisdom Tooth in Orthodontics Chemical Necroses", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 8, pp.2191-2196, 2018, Dental Inclusion of Canine and Wisdom Tooth in Orthodontics Chemical Necroses (revistadechimie.ro)</p> <p>11. S.I. Morariu, L.D. Duceac, A.C. Luca, F. Popescu, L. Pavel, C.M. Gavrilescu, "Soil Chemical Pollution and Aggressive Pathologies", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 8, pp.2278-2282, 2018, Soil Chemical Pollution and Aggressive Pathologies (revistadechimie.ro)</p> <p>12. A. Caraiane, R. L., V. Toba, D. Vesa, L.A. Macovei, C.I. Dan, L. Pavel, "The Chemical Effect in Medicine Interaction Determining the Form and Speed of Psychical Involution in the Prosthetic Restauration in the Edentulous", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 8, pp.2306-2310, 2018, The Chemical Effect in Medicine Interaction Determining the Form and Speed of Psychical Involution in the Prosthetic Restauration (revistadechimie.ro)</p> <p>13. H. Moldovan, D. Gheorghita, I. Antoniac, D. Gheorghe, F. Fiori, A. Mohan, G. Raftu, C. Ionel, V. Costache, "Bioadhesives Used in Cardiovascular Surgery", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 10, pp.2799-2803, 2018, Bioadhesives Used in Cardiovascular Surgery (revistadechimie.ro)</p> <p>14. Boariu D., Agop Forna D., Iordache C., "The role of clinical stages in making efficient the therapeutic management in</p>		
--	---	--	--

		<p><i>partial edentation</i>", Romanian Journal of Oral Rehabilitation, ISSN 2066-7000, vol. 10, nr. 3, pp.125-132, 2018, The role of clinical stages in making efficient the therapeutic management in partial edentation-Web of Science Core Collection</p> <p>15. G. Topor, A. Nechita, M. Debita, C. Ciupilan, E.R. Axente, "General and Particular Structural Characteristics of Acetylsalicylic Acid - Aspirine Chemical properties", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 70, nr. 1, pp.248-253, 2019, General and Particular Structural Characteristics of Acetylsalicylic Acid (revistadechimie.ro)</p>		
		<p>A3.3.21 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, cu citările: 2+1.88+4.282=8.162</p> <p>1. A. Alirezazadeh, M. Zarrebini, M. Ghane, P. Soltani, "Fiber-on-fiber friction measurement using hanging fiber method", The Journal of The Textile Institute, IF = 1.88, ISSN 0040-5000, vol. 109 (5), pp.636-646, 2018, Fiber-on-fiber friction measurement using hanging fiber method: The Journal of The Textile Institute: Vol 109, No 5 (tandfonline.com)</p> <p>2. D. Ionita, M. Cristea, C. Gaina, "Prediction of polyurethane behaviour via time-temperature superposition: Meanings and limitations", Polymer Testing, IF = 4.282, ISSN 0142-9418, vol. 83, 106340, pp.9, 2020, Prediction of polyurethane behaviour via time-temperature superposition: Meanings and limitations - ScienceDirect</p>	C	8.16
		<p>A3.3.22 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), cu citările: 4+2·0.737+1.316=6.79</p> <p>1. Zhao L., Cheng K., Chen D., Zheng S., Ma Z., "Comparison of different approaches for durability assessment of automotive structures under random variable amplitude loading", Journal of the Balkan Tribological Association, IF = 0.737, ISSN 1310-4772, Vol. 22, No 4-III, pp.4673-4685, 2016, Scopus - Document details</p> <p>2. Pan Z., Cao D., Liu X., Hang Y., "Effect of maximum allowable geometrically necessary dislocation on plastic hardening mechanism of metal-matrix composites", Journal of the Balkan Tribological Association, IF = 0.737, ISSN 1310-4772, Vol. 22, No 4-I, pp.3748-3759, 2016, Scopus - Document details</p> <p>3. S.S. Crețu, N.N. Pop and S.V. Cazan, "Considerations regarding the pressures distribution on leads of spur gears", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 444, 022022, 2018, Considerations regarding the pressures distribution on leads of spur gears - IOPscience</p> <p>4. Li-Hui Zhao, Hong-Chang Cai, Tong Wang, Song-Lin Zheng, "Durability assessment of automotive structures under random variable amplitude loading", Advances in Mechanical Engineering, IF = 1.316, ISSN 1687-8140, vol. 10 (4), pp.1-8, 2018, Durability assessment of automotive structures under random variable amplitude loading (sagepub.com)</p>	C	6.79
		<p>A3.3.23 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), cu citările: 2+0.737+1.316=4.053</p> <p>1. Zhao L., Cheng K., Chen D., Zheng S., Ma Z., "Comparison of different approaches for durability assessment of automotive structures under random variable amplitude loading", Journal of the Balkan Tribological Association, IF = 0.737, ISSN 1310-4772, Vol. 22, No 4-III, pp.4673-4685, 2016, Scopus - Document details</p> <p>2. Li-Hui Zhao, Hong-Chang Cai, Tong Wang, Song-Lin Zheng, "Durability assessment of automotive structures under random variable amplitude loading", Advances in Mechanical Engineering, IF = 1.316, ISSN 1687-8140, vol. 10 (4), pp.1-8, 2018, Durability assessment of automotive structures under random variable amplitude loading (sagepub.com)</p>	C	4.05
		<p>A3.3.24 Știrbu I., Vizureanu P., Cimpoeșu R., Dascălu G., Gurlui S.O., Bernevig M., BENCHEA M., Cimpoeșu N., Postolache P., "Advanced metallic materials response at laser excitation for medical applications", Journal of Optoelectronics and Advanced Materials, IF = 0.587, ISSN 1454-4164, vol. 17, ISS. 7-8, 2015, JOAM :: Articles (inoe.ro) cu citările: 8+2·0.441+2.238+0.593+3·1.755+2.679=19.657</p>	C	19.66

	<p>1. G. Zegan, R. Cimpoeșu, M. Agop, I. Știrbu, D.L. Chicet, B. Istrate, A. Alexandru, B.A. Prisacariu, "Improving the HA deposition process on Ti-based advanced alloy through sandblasting", Optoelectronics and Advanced Materials-Rapid Communications, IF = 0.441, ISSN 1842-6573, vol. 10(3-4), pp.279-284, 2016, OAM-RC :: Articles (inoe.ro)</p> <p>2. G. Cioca, E.S. Bacaita, M. Agop, C. Lupascu Ursulescu, "Anisotropy Influences on the Drug Delivery Mechanisms by Means of Joint Invariant Functions", Computational and Mathematical Methods in Medicine, IF = 1.238, ISSN 1748-670X, vol. 2017, 5748273, pp.8, 2017, Anisotropy Influences on the Drug Delivery Mechanisms by Means of Joint Invariant Functions</p> <p>3. L. Ochiuz, C. Ghiciuc, M. Ignat, M. Popa, C.A. Peptu, A. Vasile, "Development of a Modified - release Drug Delivery System with Bexarotene Loaded in Clinoptilolite", Mater. Plast., IF = 0.593, ISSN 0025-5289, vol. 54 (3), pp.581-585, 2017, Materiale Plastice Mater Plast Elastomeri Fibre Sint (revmaterialeplastice.ro)</p> <p>4. E. Cinteza, A. Ungureanu, M. Balgradean, A. Nicolescu, "Beneficial Effects of Acetaminophen on the Chemical Mediators Involved in the Closure of Patent Ductus Arteriosus", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 6, pp.1537-1540, 2018, Beneficial Effects of Acetaminophen on the Chemical Mediators Involved in the Closure of Patent Ductus Arteriosus (revistadechimie.ro)</p> <p>5. E.S. Bacaita, C.S. Stan, M. Agop, G. Cioca, "Spectral Properties of HEMA/poly(HEMA) as Ligand in Luminescent Europium Based Complexes Through Computational Investigation", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 9, pp.2430-2434, 2018, https://www.revistadechimie.ro/Articles.asp?ID=6547</p> <p>6. C. Bejinariu, C. Munteanu, C.D. Florea, B. Istrate, N. Cimpoesu, A. Alexandru, A.V. Sandu, "Electro-chemical Corrosion of a Cast Iron Protected with a Al₂O₃ Ceramic Layer", Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 69, nr. 12, pp.3586-3589, 2018, Electro-chemical Corrosion of a Cast Iron Protected with a Al2O3 Ceramic Layer (revistadechimie.ro)</p> <p>7. A. Enache, T. Mihaescu, N. Cimpoesu, V. Manole, B.A. Prisecariu, G. Zegan, I. Stratulat, "Programmable belt type device with optoelectronic command to improve the artificial ventilation during sleep", Optoelectronics and Advanced Materials-Rapid Communications, IF = 0.441, ISSN 1842-6573, vol. 12(11-12), pp.700-704, 2018, OAM-RC :: Articles (inoe.ro)</p> <p>8. R. Cimpoeșu, P. Vizureanu, I. Știrbu, A. Sodor, G. Zegan, M. Prelipceanu, N. Cimpoeșu, N. Ioanid, "Corrosion-Resistance Analysis of HA Layer Deposited through Electrophoresis on Ti4Al4Zr Metallic Substrate", Applied Sciences MDPI, IF = 2.679, ISSN 2076-3417, vol. 11(9), 4198, 2021, Applied Sciences Free Full-Text Corrosion-Resistance Analysis of HA Layer Deposited through Electrophoresis on Ti4Al4Zr Metallic Substrate (mdpi.com)</p>		
	<p>A3.3.25 M.R. Balan, A. Tufescu, M. Benchea, D. Olaru, "Influence of the cage on the friction in low loaded thrust ball bearings", Tehnomus Journal, ISSN 1224-029X, vol. 22, pp.549-556, 2015, 98.pdf (usv.ro), cu citările: 3+4.872=7.872</p> <p>1. D. Olaru, M.R. Balan and A. Tufescu, "Influence of the cage on friction torque in low loaded thrust ball bearing operating in dry conditions", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 147(1), 012027, 2016, Influence of the cage on friction torque in low loaded thrust ball bearing operating in dry conditions - IOPscience</p> <p>2. D. Olaru, M.R. Bălan, A. Tufescu, V. Cârlescu, Gh. Prisacaru, "Influence of the cage on the friction torque in low loaded thrust ball bearings operating in lubricated conditions", Tribology International, IF = 4.872, ISSN 0301-679X, vol. 107, pp.294-305, 2017, Influence of the cage on the friction torque in low loaded thrust ball bearings operating - ScienceDirect</p> <p>3. A. Popescu, M.I. Nazare and D. Olaru, "Friction torque in a modified angular contact ball bearing operating at low axial loads", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 444, 022019, 2018, Friction torque in a modified angular contact ball bearing operating at low axial loads - IOPscience</p>	C	7.87
	<p>A3.3.26 Balan Mihaela Rodica, Tufescu Ana, BENCHEA Marcelin, Olaru Dumitru, „Friction Torque in Low Loaded Thrust Ball Bearings”, Proceedings of the Innovative Manufacturing Technology International Conference IManE 2015, May 20-22, Iași, Romania, 2015, http://www.scientific.net/AMM.809-810.676, cu citările: 1=1</p> <p>1. G. Ianuș, A.C. Dumitrașcu, V. Cârlescu and D.N. Olaru, "Friction torque in thrust ball bearings grease lubricated", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 147(1), 012026, 2016, Friction torque in thrust grease lubricated - IOPscience</p>	C	1

		<p>A3.3.27 M.A. Rusu, D. Ioniță, M. BENCHEA, V. Cârlescu, D. 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), cu citările: 1=1</p> <p>1. V. Cârlescu, M.A. Rusu, G. Prisăcaru, E. Miron, J. Machado, D. Olaru, “Behavior of the Elastomers Used in Prehension Systems for Small Cylindrical Objects”, Lecture Notes in Electrical Engineering, vol. 402, Springer, Cham., pp.495-505, 2017, Behavior of the Elastomers Used in Prehension Systems for Small Cylindrical Objects SpringerLink</p>	C	1
		<p>A3.3.28 BENCHEA M., Iovan-Dragomir A., Crețu S., „Misalignment effects in cylindrical roller bearings”, Applied Mechanics and Materials, ISSN 1662-7482, Vol. 658, pp.277-282, Trans Tech Publications, Elveția, 2014, doi:10.4028/http://www.scientific.net/AMM.658.277, cu citările: 4+5.329+2.176=10.505</p> <p>1. Bogdan Warda, Agnieszka Chudzik, “Effect of ring misalignment on the fatigue life of the radial cylindrical roller bearing”, International Journal of Mechanical Sciences, IF = 5.329, ISSN 0020-7403, vol. 111-112, pp.1-11, 2016, Effect of ring misalignment on the fatigue life of the radial cylindrical roller bearing - ScienceDirect</p> <p>2. H. Lv, “Study on fatigue life prediction of the cylindrical roller bearings considering multiple errors”, Boletín Técnico/ Technical Bulletin, ISSN 0020-7403, vol. 55, nr. 18, pp.468-476, 2017, Scopus - Document details</p> <p>3. Agnieszka Chudzik, Bogdan Warda, “Fatigue life prediction of a radial cylindrical roller bearing subjected to a combined load using FEM”, Maintenance and Reliability, IF = 2.176, ISSN 1507-2711, vol. 22 (2), pp.212-220, 2020, Fatigue life prediction of a radial cylindrical roller bearing subjected to a combined load using FEM -Web of Science Core Collection</p> <p>4. Agnieszka Chudzik, Bogdan Warda, “The use of FEM to evaluate the influence of logarithmic correction parameters of roller generators on the axle box bearing life”, Mechanics and Mechanical Engineering, ISSN 2354-0192, vol. 25 (1), pp.53-61, 2021, The use of FEM to evaluate the influence of logarithmic correction parameters of roller generators on the axle box bearing life (sciendo.com)</p>	C	11.51
		<p>A3.3.29 Gavrilă G., Cretu S., BENCHEA M., „Wear Prediction in Wheel-Rail Contact Under Partial Slip Conditions”, Applied Mechanics and Materials, ISSN 1662-7482, Vol. 658, pp.317-322, Trans Tech Publications, Elveția, 2014, doi:10.4028/http://www.scientific.net/AMM.658.317, cu citările: 3+2.2.359=7.718</p> <p>1. Wang P., Wang S., “Numerical Prediction of Wheel Wear Development of Heavy-haul Freight Car Under Complex Operation Conditions”, Journal of Tongji University, ISSN 0253-374X, vol. 47, nr. 1, pp.71-78, 2019, Scopus - Document details</p> <p>2. Wang P., Wang S., Gao L., “Numerical prediction of the development of rail wear on high-speed railways”, Proc. Inst. Mech. Eng. Part F-J. Rail Rapid Transit, IF = 2.359, ISSN 0954-4097, vol. 234, nr. 9, pp.927-944, 2020, Numerical prediction of the development of rail wear on high-speed railways (sagepub.com)</p> <p>3. Wang P., Wang S., Si D., “Numerical prediction of rail wear development in high-speed railway turnouts”, Proc. Inst. Mech. Eng. Part F-J. Rail Rapid Transit, IF = 2.359, ISSN 0954-4097, vol. 234, nr. 10, pp.1299-1318, 2020, Numerical prediction of rail wear development in high-speed railway turnouts (sagepub.com)</p>	C	7.72
		<p>A3.3.30 P. Avram, M.S. Imbrea, B. Istrate, S.I. Strugaru, M. BENCHEA, C. Munteanu, “Properties of Al₂O₃ and NiAlSi coatings obtained by atmospheric plasma spraying on 34CrNiMo6 substrate”, Indian Journal of Engineering & Materials Sciences, ISSN 0971-4588, IF = 0.881, Vol. 21, pp.315-321, 2014, cu citările: 12+1.755+4.158+0.881+0.916=19.71</p> <p>http://nopr.niscair.res.in/IJEMS%2021%283%29%20315-321.pdf</p> <p>1. S.L. Burlea, R. Leata, M. Agop, N. Cimpoesu, “Analyse of Ti-based Alloy for Medical Instruments after Chemical, Mechanical and Physical Processing”, Revista de Chimie, IF = 1.755, ISSN 0034-7752, vol. 67, nr. 2, pp.260-262, 2016, Analyse of Ti-based Alloy for Medical Instruments after Chemical, Mechanical and Physical Processing (revistadechimie.ro)</p> <p>2. D.C. Achîței, P. Vizureanu, M.G. Minciună, N. Cimpoesu, B. Istrate, “Improvement of Structural Characteristics for CuZn Alloy through Heat Treatments”, Key Engineering Materials, ISSN 1013-9826, Vol. 750, pp.3-8, 2017, Improvement of Structural Characteristics for CuZn Alloy through Heat Treatments Scientific.Net</p>	C	19.71

	<p>3. D. Chicet, A. Tufescu, C. Paulin, M. Panțuru and C. Munteanu, "The Simulation of Point Contact Stress State for APS Coatings", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 209(1), 012044, 2017, The Simulation of Point Contact Stress State for APS Coatings - IOPscience</p> <p>4. H. Pakkappa, K. Mahesha, K.B. Sachidananda, "Vibration damping behavior and surface characterization of magneto-mechanical powder coated AISI304 stainless steel", Surface and Coatings Technology, IF = 4.158, ISSN 0257-8972, vol. 324, pp.382-389, 2017, Vibration damping behavior and surface characterization of magneto-mechanical - ScienceDirect</p> <p>5. J. Suwanprateeb, F. Thammarakcharoen, "Influence of surface pretreatment on the coating quantity and properties of nanostructured octacalcium phosphate on commercially pure titanium", Indian Journal of Engineering & Materials Sciences, ISSN 0971-4588, IF = 0.881, Vol. 24(5), pp.351-361, 2017, NOPR: Influence of surface pretreatment on the coating quantity and properties of nanostructured octacalcium phosphate on commercially pure titanium (niscair.res.in)</p> <p>6. Sypchenko V., Kiselyova E., Sigfusson T., Lisichko E., Semkina L., Efremova N., Rudkovskaya V., "Influence of the duration of aging the system Ti/Al₂O₃ in a hydrogen atmosphere on hydrogen sorption, adhesion, tribology, and electrical conductivity of the film", Eastern-European Journal of Enterprise Technologies, ISSN 1729-3774, vol. 5, nr. 12-95, pp.25-30, 2018, Scopus - Document details</p> <p>7. A.M. Cazac, A. Alexandru, C. Baci, A.V. Sandu and C. Bejinariu, "Influence of Nanostructuration on the Sound Velocity in Aluminum Al_{99.50}", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 374, 012038, 2018, Influence of Nanostructuration on the Sound Velocity in Aluminum Al_{99.50} - IOPscience</p> <p>8. L.R. Manea, A. Berte, A. Popa and A.P. Berte, "Melt Electrospinning - Characteristics, Application Areas and Perspectives", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 374, 012063, 2018, Melt Electrospinning - Characteristics, Application Areas and Perspectives - IOPscience</p> <p>9. C. Stescu, D. Chicet, C. Munteanu, C. Croitoru and V. Cârlescu, "Machining of thermal sprayed coatings - a case study for self-fluxing powder", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 572, 012051, 2019, Machining of thermal sprayed coatings - a case study for self-fluxing powder - IOPscience</p> <p>10. O. Mocanita, D. Chicet, B. Istrate, C. Micu and C. Munteanu, "Investigation of thermal coating influence on the fire resistance of a multi-layer material", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 572, 012052, 2019, Investigation of thermal coating influence on the fire resistance of a multi-layer material - IOPscience</p> <p>11. C. Stescu, D. Chicet, A.Tufescu, B. Istrate, C. Munteanu, S.I. Strugaru, "Contact stress simulation problem in case of thermal spray coatings", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 916, 012114, 2020, Contact stress simulation problem in case of thermal spray coatings - IOPscience</p> <p>12. Daniel Lepadatu, Dorina Isopescu, Loredana Judele, Iulian Cucos, Ion Antonescu, Ionel-Ciprian Alecu, "Particularities of synthetic wood - a biomaterial with recycling waste", Environmental Engineering & Management Journal, ISSN 1582-9596, IF = 0.916, Vol. 20(4), pp.585-592, 2021, Microsoft Word - 10_315_Lepadatu_20.docx</p>		
	<p>A3.3.31 Spiridon S. Crețu, Marcelin I. BENCHEA, „An Elastic-Plastic Analysis of Profile Evolution in Cylindrical Roller Bearings”, Proceedings of the ASME 11th Biennial Conference on Engineering Systems Design and Analysis ESDA 2012, ISBN 978-0-7918-4487-8, Volume 4, pp.565-574, Nantes, France, July 2-4, 2012, Scopus - Document details 4+4.62+6.804=15.424</p> <p>cu citările:</p> <p>1. Shah Maulik J., Prof. P.H. Darji, "Fatigue life improvement through reduction of edge pressure in cylindrical roller bearing using FE analysis", Int. J. For Technological Research In Engineering (IJTRE), IF = 4.62, ISSN 2347-4718, Vol. 1(10), pp.1069-1074, 2014, 2014011007.pdf (ijtre.com)</p> <p>2. Vishal S. Jadhao, Prof. J. J. Salunke, "Design and analysis of a proposed cylindrical roller for CRB using FEA", Int. J. of Pure and Applied Research in Eng. and Technology (IJPRET), IF = 6.804, ISSN 2319-507X, Vol. 3(6), pp.99-111, 2015, IJPRET - Issue</p>	C	15.42

		<p>3. Kantha Shoba M., Manikandan M., "Parametric optimization of cylindrical roller bearing and compare with FEA", Int. J. of Innovative Research in Technology, Science & Engineering (IJIRTSE), ISSN 2395-5619, Vol. 2(5), pp.1-8, 2016, International Organization of Innovative Research and Publishers (IOIRP)</p> <p>4. I. Mehmet, G. Dogan, D.F. Chitariu, C. Dumitraş, F. Negoescu, "Research on advances in roller bearing manufacturing", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 1182, 012045, 2021, Research on advances in roller bearing manufacturing - IOPscience</p>		
		<p>A3.3.32 Creţu S., BENCHEA M., Creţu O., „Compressive Residual Stress Effect on Fatigue Life of Ball Bearings”, ASME International Mechanical Engineering Congress and Exposition IMECE2007-paper 43561, November 11-15 2007, Seattle, Washington, USA, 2007, Scopus - Document details, cu citările: 6+0.617+5.186=11.803</p> <p>1. V. Čiuplys, A. Čiuplys, J. Vilyš, V. Kvedaras, "Increasing of Carbon Steel Durability by Surface Hardening", Materials science (Medžiagotyra), IF = 0.617, ISSN 1392-1320, Vol. 16, nr. 1, pp.24-28, 2010, Increasing of Carbon Steel Durability by Surface Hardening-Web of Science Core Collection</p> <p>2. Yi Shen, Sina Mobasher Moghadam, Farshid Sadeghi, Kristin Paulson, Rodney W. Trice, "Effect of retained austenite - Compressive residual stresses on rolling contact fatigue life of carburized AISI 8620 steel", International Journal of Fatigue, IF = 5.186, ISSN 0142-1123, vol. 75, pp.135-144, 2015, Effect of retained austenite – Compressive residual stresses on rolling contact fatigue life of carburized AISI 8620 steel - ScienceDirect</p> <p>3. S.S. Creţu, 2016, "The effect of primary loading on fatigue life of cylindrical roller bearings", IOP Conf. Ser. - Mat. Sci. and Eng., vol. 147(1), 012011, 2016, The effect of primary loading on fatigue life of cylindrical roller bearings - IOPscience</p> <p>4. A.D. Negrea, I.N. Popescu, M.N. Ardeleanu, C. Nicolicescu, C.O. Rusănescu, "Researches and Finite Element Simulations of Radial Loading Deformations Applied to Steel Ball Bearings", Advanced Engineering Forum, vol. 34, pp.109-114, 2019, Researches and Finite Element Simulations of Radial Loading Deformations Applied to Steel Ball Bearings Scientific.Net</p> <p>5. Joshua Simon, Jürgen Gegner, "Finite Element Analysis of Two-step Deep Rolling of Bearing Steel for Expansion and Equalization of Compressive Residual Stress Profiles", Bearing World Journal, ISSN 2513-1753, vol. 5, pp.93-99, 2020, https://www.vdma-verlag.com › download_10793</p> <p>6. G. Dogan, I. Mehmet, D.F. Chitariu, C.G. Dumitraş, V.I. Crîşmaru, "FEA Modelling of the Combined Hard TurningRolling Process Used at Bearing Rings", MATEC Web of Conferences, vol. 343, 02004, 2021, FEA Modelling of the Combined Hard TurningRolling Process Used at Bearing Rings MATEC Web of Conferences (matec-conferences.org)</p>	C	11.8
		Total:	C1 207	SFI 450.48

Data: 20/12/2021
Candidat,
ş.l.dr.ing Marcelin BENCHEA