Anexa nr. 17 – COMISIA INGINERIE MECANICĂ, MECATRONICĂ ŞI ROBOTICĂ

STANDARDE MINIMALE NECESARE SI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂŢĂMÂNTUL SUPERIOR ŞI A GRADELOR PROFESIONALE DE CERCETARE – DEZVOLTARE

Nr. crt.	Domeniul activităţilor	Rezultatele activităţilor	Subcategorii			Indicatori
1	Activitatea didactică şi profesională - DID (A1)	Manuale suport de curs (conform fişei disciplinei de concurs)	A1.1	Format tipărit/electronic[1] (min. 100 pag.)	Coordonator/ prim autor	N1.1 = număr
					Co-autor	N1.2 = număr
				Format electronic disponibil pe platforma universităţii/departamentului (autor)		N1.3 = număr
		Material didactic /Dezvoltare laboratoare, aplicaţii	A1.2	Standuri laborator (construcţie/ modernizări) certificate de directorul de departament		N2.1 = număr
				Îndrumar laborator/carte aplicaţii format tipărit sau electronic (autor, co-autor)		N2.2 = număr
				Aplicaţie informatică educaţională		N2.3 = număr
2.	Activitatea de cercetare ştiinţifică, dezvoltare tehnologică şi inovare - CDI (A2)	Articole şi publicaţii ştiinţifice indexate Web of Science Thomson Reuters (WOS) [2] , unde n = nr.de autori şi FI este factorul de impact [3]	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 şi publicaţii ştiinţifice BDI [4] neincluse la A2.1	A2.2	Autor corespondent/prim autor		N3.1 = număr
				Co-autor		N3.2 = număr
		Brevete de invenţii indexate [5]	A2.3.	Internaţionale indexate în Web of Science – Derwent Innovation		P2.1 = acelaşi calcul cu A2.1 şi FI = 2
				Naţionale indexate OSIM		P2.2 = acelaşi calcul cu A2.1 şi FI = 0,5
		Produse, tehnologii, platforme şi servicii inovative (validate conform procedurilor specifice unităţilor de învăţământ superior sau de cercetare)	A2.4	Coordonator/prim autor		N4.1 = număr
				Co-autor		N4.2 = număr
		Monografii/cărţi de specialitate[2], format tipărit/electronic (min. 100 pag.)	A2.5	Coordonator/prim autor		N4.3 = număr
				Co-autor		N4.4 = număr
3	Recunoaşterea şi impactul activităţii - RIA (A3)	Atragere resurse financiare prin granturi/proiecte/contracte terţi	A3.1	Director sau responsabil partener la grant/proiect câştigat prin competiţie naţională sau internaţională		S1 [6] = sumă echivalentă în mii Euro[9]
				Membru în echipă la grant/proiect câştigat prin competiţie naţională sau internaţională, proiecte/contracte terţi		S2[7]= sumă echivalentă în mii Euro[8]
		Prezentarea/Diseminarea rezultatelor: prezenţă la manifestări ştiinţifice în calitate de autor/co-autor de lucrări, profesor invitat	A3.2	Congrese/conferinţe/workshopuri internaţionale, profesor invitat la universităţi/institute din străinătate		N5 = număr

		Citări în publicaţii BDI [5] (se exclud autocitările)	A3.3.	C1 = numărul de citări S_{FI} = suma factorilor de impact al publicaţiilor WOS în care apar citările	$C = C1 + S_{FI}$

Note:
[1] Publicaţia este înregistrată în fondul de carte al bibliotecii naţionale sau al bibliotecilor universităţilor respective.
[2] Se exclud publicaţiile conferinţelor DAAAM şi WSEAS.
[3] FI este factorul de impact al revistei la data înscrierii la concurs sau la data publicării articolului (cel mai avantajos pentru candidat). Se iau în considerare la această categorie numai revistele cu factor de impact la data publicării articolului. O revistă WOS este echivalentă cu o revistă cotată ISI cf. Ordinului de Ministru (MECTS) Nr. 4478 din 23 iunie 2011, publicat in Monitorul Oficial, Partea I, Nr. 448/27.VI.2011.
[4] Bazele de date BDI acceptate sunt: Web of Science Thomson Reuters (WOS) şi SCOPUS.
[5] Un brevet se poate încadra la o singură categorie.
[6] Suma din grant/proiect încasată de instituţie repartizată echipei din care directorul de grant/responsabil partener face parte (S1 include cheltuieli de: personal, logistică, deplasări, indirecte).
[7] Suma din grant/proiecte câştigate prin concurs naţional/internaţional şi proiecte/contracte terţi încasată de instituţie şi repartizată de director/responsabil persoanei respective (S2 include cheltuieli de: personal, logistică, deplasări, indirecte).
[8] Pentru contractele derulate înainte de 01.01.1999 se va considera echivalarea: 1 EURO = 1 $ USA

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

unde:
P 1 = 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.

Conditii minimale si obligatorii				
Domeniul de activitate		**Indicatori**	**Punctaj**	**Profesor**
Activitatea didactică și profesională - DID (A1)	**A1.1**	**N1**	**2**	**2**
		N1.1	**2**	**1**
		N1.3	**2**	**1**
	A1.2	**N2**	**11**	**4**
		N2.1	**9**	**2**
Activitatea de cercetare științifică, dezvoltare tehnologică și inovare - CDI (A2)	**A2.1 +A2.3**	**P1+P2**	**33.42**	**10**
	A2.2	**P1**	**33.42**	**6**
		N3	**13**	**10**
		N3.1	**8**	**5**
	A2.4 + A2.5	**N4**	**2**	**2**
		N4.3	**1**	**1**
Recunoașterea și impactul activității - RIA (A3)	**A3.1**	**S1 + S2**	**625.38**	**50**
	A3.2	**N5**	**11**	**10**
	A3.3	**C**	**830.661**	**25**

A												
Nr. crt.	**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 (min. 100 pag.)	Coordonator /prim autor	**N1.1**	**2**	anexa A1.1	**N1**	**2**	
					Co-autor	**N1.2**	**0**	anexa A1.1			
				Format electronic disponibil pe platforma universității / departamentului (autor)		**N1.3**	**2**	anexa A1.2			
		Material didactic / Dezvoltare laboratoare, aplicații	**A1.2**	Standuri laborator (construcție/ modernizări) certificate de directorul de departament		**N2.1**	**9**	anexa A1.2	**N2**	**11**	
				Îndrumar laborator/ carte aplicații format tipărit sau electronic (autor, co-autor)		**N2.2**	**2**				
				Aplicație informatică educațională		**N2.3**	**0**				
2	Activitatea de cercetare științifică, dezvoltare tehnologică și inovare - CDI (A2)	Articole și aplicații științice indexate Web of Science Thomson Reuters (WOS), unde n = nr. de autori și FI este factorul de impact	**A2.1**	Autor corespondent / prim autor	n ≤ 3	**P1.1 = 2*(0,2 +FI)**	**8.31**	anexa A2.1	**P1**	**33.42**	
					n ≥ 4	**P1.2 = 2*3*(0,2+FI)/n**	**12.75**				
				Co-autor	n ≤ 3	**P1.3 = 0,2 +FI**	**2.44**				
					n ≥ 4	**P1.4 = 3*(0,2+FI)/n**	**9.91**				
		Articole și aplicații științice BDI neincluse la A2.1	**A2.2**	Autor corespondent / prim autor		**N3.1 = număr**	**8**	anexa A2.2	**N3**	**13**	
				Co-autor		**N3.2 = număr**	**5**				
		Brevete de invenții indexate	**A2.3**	Internaționale indexate în Web of Science - Derwent Innovation		**P2.1 = același calcul cu A2.1 și FI = 2**	**0**		**P2**	**0**	
				Naționale indexate OSIM		**P2.2 = același calcul cu A2.1 și FI = 0,5**	**0**				
		Produse, tehnologii, platforme și servicii inovative	**A2.4**	Coordonator / prim autor		**N4.1 = număr**	**0**		**N4**	**2**	
				Co-autor		**N4.2 = număr**	**1**	anexa A2.4			
		Monografii / cărți de specialitate, format tipărit / electronic (min. 100 pag.)	**A2.5**	Coordonator / prim autor		**N4.3 = număr**	**1**	anexa A2.5			
				Co-autor		**N4.4 = număr**	**0**				
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 = sumă echivalentă în mii Euro**	**216.12**	anexa A3.1	**S1 + S2**	**625.38**	
				Membru în echipă la grant/proiect câștigat prin competiție națională sau internațională,		**S2 = sumă echivalentă în mii Euro**	**409.26**				
		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**	**11**	anexa A3.2	**N5**	**11**	
		Citări în publicații BDI	**A3.3**	CI = numărul de citări; S_{FI} = suma factorilor de impact al publicațiilor WOS în care apar citările		**C = CI + S_{FI}**	**830.66**	anexa A3.3	**C**	**830.661**	

ANEXA A1.1						
Manuale suport de curs (conform fișei disciplinei de concurs)						
Prim autor						
	Autori	**Titlu**	**Editura**	**ISBN**	**Link**	**Scor**
1	**D.A. Șerban**, R. Negru	Analiza structurilor mecanice cu Abaqus/CAE	Politehnica	978-606-35-0127-2	https://edocs.library.upt.ro/cursuri/134619	**1**
2	**D.A. Șerban**, R. Negru	Rezistența materialelor. Volumul I: Solicitări simple	Politehnica	978-606-35-0276-7 978-606-35-0277-4	https://edocs.library.upt.ro/cursuri/134618	**1**
						2
Co-autor						
						0

ANEXA A1.2

Material didactic / Dezvoltare laboratoare, aplicații

Standuri laborator

	Titlu	Anul	Punctaj
1	Stand experimental pentru încercare la oboseală la încovoiere a polimerilor	2017	**1**
2	Incintă termică pentru mașina de încercat la oboseală Instron	2018	**1**
3	Microscop optic inversat Insize ISM-M1000	2019	**1**
4	Modernizarea standului experimental de încercări mecanice prin montarea unui traductor de forţă de tractiune/compresiune 500N	2019	**1**
5	Modernizarea standului experimental de încercări mecanice prin montarea unui raductor de forţă de tractiune/compresiune 1000N	2019	**1**
6	Modernizarea standului experimental de încercări dinamice prin montarea unui raductor piezoelectric compact pentru solicitări dinamice 5kN	2019	**1**
7	Modernizarea standului experimental de încercări mecanice prin montarea unui mini traductor de deplasare, sistem de măsură inductiv, sarcina nomin	2019	**1**
8	Modernizarea standului experimental de încercări dinamice prin montarea unui accelerometru diferențial 100G	2019	**1**
9	Stand experimental pentru încercări multiaxiale/moduri mixte	2020	**1**
			9

Îndrumătoare de laborator

	Autori	Titlul lucrarii	Editura	ISBN	Anul	Punctaj
1	**D.A. Şerban**, R. Negru	Lucrări de laborator la Metoda elemetului finit	POLITEHNICA	978-606-35-0278-1	2019	**1**
2	E. Linul, **D.A. Serban**, M. Hluscu, L.D. Pirvulescu, S.V. Galatanu, M. Sava, I. Sisak	Rezistenta Materialelor. Lucrari de Laborator	POLITEHNICA	978-606-35-0280-4	2019	**1**
						2

ANEXA A2.1											
	Articole și aplicații științice indexate Web of Science Thomson Reuters (WOS)										
			n ≤ 3								
	AUTORI	TITLU	REVISTA	ISSN	ANUL	Vol (Nr)	Pagina	WOS	**n**	**IF**	**punctaj**
1	**D.A. Şerban**, L. Marşavina, V. Silberschmidt	Behaviour of semi-crystalline thermoplastic polymers: Experimental studies and simulations	Computational Materials Science	0927-0256	2012	52(1)	139-146	WOS:000297779700025	3	1.878	4.156
2	**D.A. Şerban**, L. Marşavina, V. Silberschmidt	Response of semi-crystalline thermoplastic polymers to dynamic loading: A finite element study	Computational Materials Science	0927-0256	2012	64	116-121	WOS:000308396200025	3	1.878	4.156
											8.312
			n ≥ 4								
	AUTORI	TITLU	REVISTA	ISSN	ANUL	Vol (Nr)	Pagina	WOS	**n**	**IF**	**punctaj**
3	**D.A. Şerban**, G. Weber, L. Marşavina, V. V. Silberschmidt, and W. Hufenbach	Tensile properties of semi-crystalline thermoplastic polymers: Effects of temperature and strain rates	Polymer Testing	0142-9418	2013	24	515-529	WOS:000316513300032	5	1.816	2.419
4	**D.A. Şerban**, E. Linul, T. Voiconi, L. Marşavina, N. Modler	Numerical evaluation of two-dimensional micromechanical structures of anisotropic cellular materials: case study for polyurethane rigid foams	Iranian Polymer Journal	1026-1265	2015	24 (6)	515-529	WOS:000357519800008	5	1.806	2.407
5	**D.A. Şerban,** L. Marşavina, N. Modler	Low-cycle fatigue behaviour of polyamides	Fatigue and Fracture of Engineering Materials and Structures	1460-2695	2015	38 (11)	1383-1394	WOS:000362693300013	3	1.561	3.522
6	**D.A. Şerban**, T. Voiconi, E. Linul, L. Marşavina, N. Modler	Viscoelastic Properties of PUR Foams: Impact excitation and dynamic mechanical analysis	Materiale Plastice	0025-5289	2015	58 (4)	537-541	WOS:000368971900025	5	0.824	1.229
7	**D.A. Şerban**, O. Weissenborn, S. Geller, L. Marşavina, M. Gude	Evaluation of the mechanical and morphological properties of long fibre reinforced polyurethane rigid foams	Polymer Testing	0142-9418	2016	49	121–127	WOS:000368222200018	5	2.240	2.928
8	**D.A. Şerban**, L. Marşavina, L. Rusu, R. Negru	Numerical study of the behavior of magnesium alloy AM50 in tensile and torsional loadings	Archive of Applied Mechanics	1432-0681	2019	89	911-917	WOS:000466859300012	4	1.578	2.667
9	**D.A. Şerban**, R. Negru, H. Filipescu, L. Marşavina	Investigations on the influence of the triaxial state of stress on the failure of polyurethane rigid foams	Continuum Mechanics and Thermodynamics	1432-0959	2020			WOS:000568726000001	4	2.139	3.509
10	**D.A. Şerban**, G. Furtos, L. Marşavina, C. Şoşdean, R. Negru	Numerical modelling of the mechanical behaviour of wood fibre-reinforced geopolymers	Continuum Mechanics and Thermodynamics	1432-0959	2020			WOS:000579573800001	5	2.139	2.807
			TOTAL								**12.75**
			n ≤ 3								
	AUTORI	TITLU	REVISTA	ISSN	ANUL	Vol (Nr)	Pagina	WOS	**n**	**IF**	**punctaj**

11	E. Linul, **D.A. Şerban**, L. Marşavina	Influence of Cell Topology on Mode I Fracture Toughness of Cellular Structures	Physical Mesomechanics	1029-9599	2018	21	178-186	WOS:000431515700012	2.24	2.244	**2.44**
											2.44
			n ≥ 4								
	AUTORI	TITLU	REVISTA	ISSN	ANUL	Vol (Nr)	Pagina	WOS	**n**	**IF**	**punctaj**
12	R. Negru, **D.A. Şerban**, L. Marşavina, A. Magda	Lifetime prediction in medium-cycle fatigue regime of notched specimens	Theoretical and Applied Fracture Mechanics	0167-8442	2016	84	140-148	WOS:000381535400015	5	2.025	1.335
13	E. Linul, **D.A. Şerban**, L. Marsavina, J. Kovacik	Low-cycle fatigue behaviour of ductile closed-cell aluminium alloy foams	Fatigue and Fracture of Engineering Materials and Structures	1460-2695	2017	40	597-604	WOS:000397876700010	4	2.335	1.901
14	E. Linul, **D.A. Şerba**n, L. Marsavina, T. Sadowski	Assessment of collapse diagrams of rigid polyurethane foams under dynamic loading conditions	Archives of Civil and Mechanical Engineering	1644-9665	2017	17	457 – 466	WOS:000411913700001	4	2.763	2.222
15	L. Marşavina, F. Berto, R. Negru, **D.A. Şerban**, E. Linul	An engineering approach to predict mixed mode fracture of PUR foams based on ASED and micromechanical modelling	Theoretical and Applied Fracture Mechanics	0167-8442	2017	91	148-154	WOS:000413389100019	5	2.659	1.715
16	R. Negru, **D.A. Şerban**, C. Pop, L. Marşavina	Notch effect assessment in a PUR material using a ring shaped specimen	Theoretical and Applied Fracture Mechanics	0167-8442	2018	97	500-506	WOS:000447110000051	4	2.215	1.811
17	D. Buncianu, N. Tessier-Doyen, J. Absi, R. Negru, **D.A. Şerban**, L. Marşavina	Multi-Scale Mechanical Behaviour of a Highly Porous Alumina Based Foam	Metals and Materials International	2005-4149	2020	26	1524-1532	WOS:000572740300008	6	1.647	0.924
TOTAL											**9.91**

Anexa A2.2

Articole și aplicații științice BDI neincluse la A2.1

	AUTORI	TITLU	REVISTA	ISSN	ANUL	Vol (Nr)	Pagina	**punctaj**
1	**D. A. Şerban**, L. Marşavina, L. Culea, V. Silberschmidt	Experimental study of Mullins effect in semi-crystalline thermoplastic materials	Applied Mathematics and Mechanics		2010	53 (2)	317-320	**1**
2	**D.A. Şerban**, L. Marşavina, N. Modler	Finite Element Modelling of the Progressive Damage and Failure of Thermoplastic Polymers in Puncture Impact	Procedia Engineering		2015	109		**1**
3	**D.A. Şerban**, H. Hanson, L. Marşavina, and V. Silberschmidt	Viscoelastic properties of semi-crystalline thermoplastic polymers: dynamic analysis and creep	Solid State Phenomena		2012	188	211-218	**1**
4	**D.A. Şerban**, T. Voiconi, L. Marşavina, V. Silberschmidt	Flexural properties of polyamides: influence of strain rate, friction and moulding-induced anisotropy	Key Engineering Materials		2014	601	29-32	**1**
5	**D.A. Şerban**, S. Sărăndan, R. Negru, G. Belgiu, L. Marşavina	A Parametric Study of the Mechanical Properties of Open-Cell Kelvin Structures	IOP Conference Series: Materials Science and Engineering 416		2018			**1**
6	**D.A. Şerban**, N. Tessier-Doyen, J. Absi, L. Marşavina, R. Negru	Evaluation of the Elastic Properties of Highly Porous Alumina Foams using Finite Element Analysis	IOP Conference Series: Materials Science and Engineering 417		2018			**1**
7	**D.A. Şerban**, E. Linul, S. Sărăndan, L. Marşavina	Development of parametric Kelvin structures will closed cells	Solid State Phenomena 245		2016			**1**
8	**D.A. Şerban**, R. Negru, S. Sărăndan, G. Belgiu, L. Marşavina	Numerical and experimental investigations on the mechanical properties of cellular structures with open Kelvin cells	Mechanics of Advanced Materials and Structures	1537-6532	2019			1
								8

	AUTORI	TITLU	REVISTA	ISSN	ANUL	Vol (Nr)	Pagina	**punctaj**
9	V. Putz, D. Ștef, **D.A. Şerban**	Contributions regarding the optimization of the technological process procedure of draught bars through the development and usage of computational mathematical models that define the manufacturing simulation	Fascicle of Management and Technological Engineering	ISSN 2501-5796	2010	IX (XIX)	3.202-3.207	**1**
10	E. Linul, **D.A. Şerban**, T. Voiconi, L. Marşavina, T. Sadowski	Energy – absorption and efficiency diagrams of rigid PUR foams	Key Engineering Materials	1013-9826	2014	601	246-29	**1**
11	G. Belgiu, C. Cărăușu, **D.A. Şerban**, C. G. Turc	Product management of making large pieces through Rapid Prototyping PolyJet((R)) technology	IOP Conference Series: Materials Science and Engineering	1757-899X	2017	227	12015	**1**
12	L. Marşavina, **D.A. Şerban**, C. Pop, R. Negru	Experimental investigation of failure modes for sandwich beams	Key Engineering Materials 754		2017			**1**
13	C. Cărăușu, R. Negru , **D.A. Şerban**, C. G. Turc, G. Belgiu,	Some aspects of prototyping oversized parts through PolyJet technology	IOP Conference Series: Materials Science and Engineering	1757-899X	2019	591	12005	**1**
								5

ANEXA A2.5				
Produse, tehnologii, platforme și servicii inovative				
	Autori	**Denumirea produsului**	**Certificare**	**Punctaj**
1	P. Ștefan, C.M. Popoiu, N.L. Mocan, I.S. Doboși, **D.A. Șerban**	Instalație mobilă pentru susținerea copilului în timpul radiografiilor pediatrice	Brevet European Patent Office nr. RO20160000021U 20160608	**1**
				1

ANEXA A2.5					
Monografii / cărți de specialitate, format tipărit / electronic (min. 100 pag.)					
	Autori	**Titlul lucrarii**	**Editura**	**ISBN**	**Punctaj**
1	**D.A. Șerban**	Introducere în mecanica solidului continuu	Politehnica	978-606-35-0271-2	**1**
					1

Anexa 3.1							
Atragere resurse financiare prin granturi / proiecte / contracte terți							
	Membri	**Titlul Proiectului**	**Programul**	**Nr. Grant**	**Anul (responsabil de proiect)**	**Valoarea contractului [LEI]**	**Valoarea contractului în mii Euro**
1	**D.A. Șerban**, L. Marșavina, R. Negru, E. Linul, C. Șoșdean, C. Arieșanu, G. Prața, C. Codrescu, C. Enescu	Transfer de cunoaștere în scopul optimizării panourilor de bord şi a Head-Up Display-urilor prin testarea şi modelarea materialelor avansate	PNIII, BRIDGE GRANT – TRANSFER DE CUNOASTERE LA AGENTUL ECONOMIC	93BG/2016	2016	345000	75.00
2	**D.A. Șerban**, L. Marșavina, R. Negru, E. Linul	Development of eco-friendly composite materials based on geopolymer matrix and reinforced with waste fibers	Horizon 2020 - Era NET Latin American and Caribbean Countries	18/2017/ 2017	2017	399150	86.77
3	**D.A. Șerban**, N. Faur	Dezvoltarea de structuri de metamateriale destinate aplicaţiilor în domeniul echipamentelor de protecţie	PNIII 1.1. Proiecte de Cercetare Postdoctorală	13/2018	2018	250000	54.35
							216.12
	Membri	**Titlul Proiectului**	**Programul**	**Nr. Grant**	**Anul (responsabil de proiect)**	**Valoarea contractului [LEI]**	**Valoarea contractului în mii Euro**
4	Marsavina L, Constantinescu DM, Linul E, **Şerban DA**, Apostol D, Nes C, Voiconi T, Stuparu F	Modelarea micro-mecanica a comportarii la rupere si degradare a materialelor celulare	PN II, Programe de cercetare exploratorie	172/2011	2011	1269981	276.08
5	Marsavina L, Faur N, Negru Radu, Cernescu A, Hluscu M, **Serban DA**	HIPEAS - Ridicarea performantelor panourilor usoare cu o noua proiectare optimizata pentru structuri aeronautice avansate	PN II, Programul "Parteneriate în domeniile prioritare", Proiecte Colaborative de Cercetare Aplicativă	206/2012	2012	144339	31.38
6	Marsavina Liviu, Linul E, Şerban Dan-Andrei, Voiconi T, Constantinescu DM, Apostol DA	MICROSTRUCTURE - MECHANICAL PROPERTIES RELATIONSHIP FOR METALLIC FOAMS	PN II, Acord de cooperare bilateral Romania-Slovacia	653/2013	2013	8257	1.80
7	Marsavina Liviu, Negru R, Linul E, Şerban Dan-Andrei, Cernescu A, Rusu L, Falk A, Krausz T, Pepelan R, Galatanu S, Pirvulescu LD	Transfer de cunoastere pentru evaluarea rezistenței la oboseală a armaturilor volanelor	PNIII, BRIDGE GRANT – TRANSFER DE CUNOASTERE LA AGENTUL ECONOMIC	89BG/2016	2016	460000	100.00
TOTAL							**409.26**

Anexa A3.2						
Prezentarea/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat						
	Autori	**Titlul lucrarii**	**Conferinta**		**Anul**	**Punctaj**
1	**D. A. Șerban**, L. Marșavina, L. Culea, V. Silberschmidt	Experimental study of Mullins effect in semi-crystalline thermoplastic materials	The 13th Symposium on Experimental Stress Analysis and Material Testing – ARTENS, Cluj–Napoca	Cluj-Napoca, România	2010	**1**
2	**D. A. Șerban**, L. Marșavina, V. Silberschmidt	Behaviour of semi-crystalline thermoplastic polymers: Experimental studies and simulations	International Workshop on Computational Mechanics of Materials 20	Loughborough, UK	2010	**1**
3	**D. A. Șerban**, L. Marșavina, V. Silberschmidt	Response of semi-crystalline thermoplastic polymers to dynamic loading: A finite element study	International Workshop on Computational Mechanics of Materials 21	Limerick, Irlanda	2011	**1**
4	**D.A. Șerban**, H. Hanson, L. Marșavina, V. Silberschmidt	Viscoelastic properties of semi-crystalline thermoplastic polymers: dynamic analysis and creep	Advanced Materials and Structures 2011	Timișoara, România	2011	**1**
5	**D. A. Șerban**, T. Voiconi, L. Marșavina, V. Silberschmidt	Flexural properties of polyamides: influence of strain rate and moulding-induced anisotropy	14th Symposium on Experimental Stress Analysis and Materials Testing	Timișoara, România	2014	**1**
6	**D. A. Șerban**, L. Marșavina, N. Modler	Finite element modelling of the progressive damage and failure of thermoplastic polymers in puncture impact	XIII Italian Group of Fracture Meeting	Favignana, Italia	2015	**1**
7	**D. A. Șerban**, S. Sărăndan, E. Linul, L. Marșavina	Development of parametric Kelvin structures will closed cells	Advanced Materials and Structures 15	Timișoara, România	2015	**1**
8	L. Marșavina, **D. Șerban**, L. Rusu, R. Negru	An Overview of Mechanical Properties of Magnesium Alloys Used in Automotive Industry	International Conference on Structural Integrity and Durability 2017	Dubrovnik, Croația	2017	**1**
9	**D. A. Șerban**, N. Tossier-Doyen, J. Absi, L. Marșavina, R. Negru	Evaluation of the elastic properties of highly porous alumina foams using finite element analysis	Advanced Materials and Structures 18	Timișoara, România	2018	**1**
10	**D.A. Șreban**, G. Furtos, L. Marșavina, C. Șoșdean, R. Negru	Numerical modelling of wood chip reinforced composites	International Workshop on Computational Mechanics of Materials 29	Dubrovnik, Croația	2019	**1**
11	A. Szabo, R. Negru, A. Coșa, L. Marșavina, **D.A. Șerban**	Multi-scale modelling of woven carbon fibre reinforced epoxy	Advanced Materials and Structures 2020	Timișoara, România	2020	**1**
						11

Anexa 3.3										
Citări în publicații BDI										
Nr. crt	AUTORI	TITLU	REVISTA	ISSN	ANUL	Vol (Nr)	Pagina	Factor de impact ISI	Punctaj	
1	**D. A. SERBAN,** L. MARSAVINA, V. SILBERSCHMIDT	BEHAVIOUR OF SEMI-CRYSTALLINE THERMOPLASTIC POLYMERS: EXPERIMENTAL STUDIES AND SIMULATIONS	COMPUTATIONAL MATERIALS SCIENCE	0927-0256	2012	52(1)	139-146	1.878		31.888
1.1	Soufivand, AA., Abolfathi, N., Hashemi, SA. et al.	Prediction of mechanical behavior of 3D bioprinted tissueengineered scaffolds using finite element method (FEM) analysis	ADDITIVE MANUFACTURING	2214-8604	2020	33	101181	7.002	8.002	
1.2	Nciri, M., Notta-Cuvier, D., Lauro, F. et al.	Viscoelastic-viscoplastic model for short-fiber-reinforced composites with complex fiber orientation	MECHANICS OF ADVANCED MATERIALS AND STRUCTURES	1537-6532	2019	26	842-853	3.517	4.517	
1.3	Rodriguez-Sanchez, AE, Vega-Rios, A, Flores-Gallardo, SG, Zaragoza-Contreras, EA, Mendoza-Duarte, ME	Numerical analysis of wood-high-density polyethylene composites: A hyperelastic approach	JOURNAL OF COMPOSITE MATERIALS	0021-9983	2019	53	6130-6144	1.619	2.619	
1.4	Gui, ZX, Hu, X, Wang, ZJ	An elasto-visco-plastic constitutive model of polypropylene incorporating craze damage behavior and its validation	JOURNAL OF CENTRAL SOUTH UNIVERSITY	2095-2899	2017	24	1263-1268	0.761	1.761	
1.5	Brighenti, R., Carpinteri, A., Artoni, F.	Defect sensitivity to failure of highly deformable polymeric materials	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2017	88	107-116	2.215	3.215	
1.6	Okeke, C. P., Thite, A. N., Durodola, J. F.,Greenrod, M. T.	Hyperelastic polymer material models for robust fatigue performance of automotive LED lamps	2ND INTERNATIONAL CONFERENCE ON STRUCTURAL INTEGRITY, ICSI 2017	978-1-5108-4856-6	2017		600-607	0.000	1.000	
1.7	T. Zarrin-ghalami, A. Fatemi	Fatigue life predictions of rubber components: Applications to an automobile cradle mount	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART D-JOURNAL OF AUTOMOBILE ENGINEERING	0954-4070	2013	227	691-703	0.645	1.645	
1.8	F. Neugebauer, N. Muller, V. Ploshikhin, S. Thiel, J. Ambrosy, G. Witt	Temperature effects on tensile properties of laser sintered polyamide 12	Materialpruefung/Materials Testing	0025-5300	2015	57	7-8	0.266	1.266	
1.9	Z. Wang, W. He, X. Hu, Y. Zhang	Experimental and simulative investigation into the mechanical behaviors of polypropylene with craze damage in different weakening processes	Journal of Applied Polymer Science	0021-8995	2015	132	41475	1.866	2.866	

1.10	C. Zheng, J. Liu, J. Fan, Y Luan, L. Song	Research on deformation behavior of isotactic polypropylene in uniaxial geogrid manufacture	Materials and Design	0264-1275	2016	91	1-10	3.997	4.997	
2	**D. A. ŞERBAN** L. MARŞAVINA V. SILBERSCHMIDT	Response of semi-crystalline thermoplastic polymers to dynamic loading: A finite element study	COMPUTATIONAL MATERIALS SCIENCE	0927-0256	2012	64	116-121	1.897		14.715
1.1	Ionita, D. Cristea, M., Gaina, C.	Prediction of polyurethane behaviour via time-temperature superposition: Meanings and limitations	Polymer Testing	0142-9418	2020	83	106340	3.275	4.275	
1.1	Rodriguez-Sanchez, AE, Vega-Rios, A, Flores-Gallardo, SG, Zaragoza-Contreras, EA, Mendoza-Duarte, ME	Numerical analysis of wood-high-density polyethylene composites: A hyperelastic approach	JOURNAL OF COMPOSITE MATERIALS	0021-9983	2019		6130-6144	1.619	2.619	
2.2	Ashrafizadeh H, McDonald A., Mertiny P.	Development of a finite element model to study the effect of temperature on erosion resistance of polyurethane elastomers	WEAR	0043-1648	2017	390	322-333	2.960	3.960	
2.3	S. Muhammad, P.-Y.B. Jar	Determining stress-strain relationship for necking in polymers based on macro deformation behavior	FINITE ELEMENTS IN ANALYSIS AND DESIGN	0168-874X	2013	70-71	36-43	1.595	2.595	
2.4	F. Neugebauer, N. Muller, V. Ploshikhin, S. Thiel, J. Ambrosy, G. Witt	Temperature effects on tensile properties of laser sintered polyamide 12	Materialpruefung/Materials Testing	0025-5300	2015	57	7-8	0.266	1.266	
3	**D. A. SERBAN,** G. WEBER, L. MARSAVINA, V. SILBERSCHMIDT, W. HUFENBACH	TENSILE PROPERTIES OF SEMI-CRYSTALLINE THERMOPLASTIC POLYMERS: EFFECTS OF TEMPERATURE AND STRAIN RATES	Polymer Testing	0142-9418	2013	32(2)	413-425	1.816		156.830
3.1	M. Wojtaszek, T. Śleboda, A. Czulak, G. Weber, W.A. Hufenbach	Quasi-static and dynamic tensile properties of Ti-6Al-4V alloy	Archives of Metallurgy and Materials	1733-3490	2013	58 (4)	1261-1265	0.763	1.763	
3.2	M. Wojtaszek, T. Śleboda, A. Czulak, G. Weber, W.A. Hufenbach	TENSILE PROPERTIES OF Ti-3Al-8V-6Cr-4Mo-4Zr ALLOY AT DYNAMIC AND QUASI-STATIC CONDITIONS	METAL 2014: 23RD INTERNATIONAL CONFERENCE ON METALLURGY AND MATERIALS	978-80-87294-54-3	2014		1405-1410	0.000	1.000	
3.3	E.M. Rui, J.Q. Yang, X.J. Li, C.M. Liu, F. Tian, F. Gao, X.H. Li, H.B. Geng	Structure Evolution During Uniaxial Tensile Deformation of High Density Polyethylene Before and After Irradiation by 1 MeV Electrons	JOURNAL OF APPLIED POLYMER SCIENCE	0021-8995	2014	131(10)	40269	1.640	2.640	

3.4	A. Tokar, A. Negoitescu, M. Adam, D. Tokar	Research on Mechanical Strength of Technological Fluid Storage Tank Made of Polyester Resin Reinforced with Fiberglass	Materiale Plastice	0025-5290	2014	51(4)	432-434	0.463	1.463	
3.5	E.M. Rui, J.Q. Yang, X.J. Li, C.M. Liu, F. Tian	Effect of 110 keV electrons on the deformation mechanisms of low density polyethylene	POLYMER DEGRADATION AND STABILITY	0141-3910	2014	109	59-70	2.633	3.633	
3.6	A.R. Osta, C.R. Picu, A. King, O. Isele, R. Hamm, A. Dreher	Effect of polypropylene fiber processing conditions on fiber mechanical behavior	POLYMER INTERNATIONAL	0959-8103	2014	63(10)	1816-1823	2.247	3.247	
3.7	F. Neugebauer, N. Muller, V. Ploshikhin, S. Thiel, J. Ambrosy, G. Witt	Temperature effects on tensile properties of laser sintered polyamide 12	Materialpruefung/Materials Testing	0025-5300	2015	57	7-8	0.266	1.266	
3.8	Ayatollahi MR, Heydari-Meybodi M, Dehghany M, Berto, F.	A New Criterion for Rupture Assessment of Rubber-Like Materials under Mode-I Crack Loading: The Effective Stretch Criterion	ADVANCED ENGINEERING MATERIALS	1438-1656	2016	18	1364-1370	2.576	3.576	
3.9	D. Laaber H.-J. Bart	Chemical and pressure stress resistance of polymer films	Polymer Testing	0142-9418	2014	40	280-285	1.816	2.816	
3.10	D. lambeer, H.J. Bart	Chemical Resistance and Mechanical Stability of Polymer Film Heat Exchangers	CHEMIE INGENIEUR TECHNIK	0009-286X	2017	87	306-311	1.100	2.100	
3.11	Schneider C, Kazemahvazi S. Russell B. P., Zenkert D., Deshpande V.S.	Impact response of ductile self-reinforced composite corrugated sandwich beams	COMPOSITES PART B-ENGINEERING	1359-8368	2016	99	121-131	3.850	4.850	
3.12	Z. Wang, W. He, X. Hu, Y. Zhang	Experimental and simulative investigation into the mechanical behaviors of polypropylene with craze damage in different weakening processes	Journal of Applied Polymer Science	0021-8995	2015	132	41475	1.866	2.866	
3.13	S. Duan, X. Yang, Y. Tao	Experimental study on strain-rate-dependent behavior and failure modes of long glass fiber-reinforced polypropylene composite	Journal of Reinforced Plastics and Composites	0731-6844	2015	34	1261-1270	0.901	1.901	
3.14	C. Hopmann, J. Klein	Determination of strain rate dependent material data for FEA crash simulation of polymers using digital image correlation	COMPUTATIONAL MATERIALS SCIENCE	0927-0256	2015	100	181-190	2.086	3.086	
3.15	J. Johnsen, F. Grytten, O.S. Hopperstad, A.H. Clausen	Experimental set-up for determination of the large-strain tensile behaviour of polymers at low temperatures	Polymer Testing	0142-9418	2016	53	305-313	2.350	3.350	

3.16	Z. El-Qoubaa, R. Othman	Strain rate sensitivity of polyetheretherketone's compressive yield stress at low and high temperatures	Mechanics of Materials	0167-6636	2016	95	15-27	2.636	3.636	
3.17	S. Wang, C. Niu, B. Cao	Effect of temperature on mechanical properties and torsional friction behaviors of bogie center plate	Journal of Tribology	0742-4787	2016	138	11104	1.037	2.037	
3.18	Jivanescu A., Mihutescu D.H.,Goguta L.,Pirvulescu L.D.	Comparative In Vitro Study of the Flexural Strength of Resin Provisional Fixed Partial Dentures, With and Without Glass Fiber Reinforcement	Materiale Plastice	0025-5290	2016	53	481-484	0.778	1.778	
3.19	Garcia-Gonzalez D., Zaera R., Arias A	A hyperelastic-thermoviscoplastic constitutive model for semi-crystalline polymers: Application to PEEK under dynamic loading conditions	INTERNATIONAL JOURNAL OF PLASTICITY	0749-6419	2017	88	27-52	5.502	6.502	
3.20	Hopmann C., Klein J., Schongart M.	Tensile Impact Testing on Polymer Materials Considering the Force-Oscillation Phenomenon	PROCEEDINGS OF PPS-32: THE 32ND INTERNATIONAL CONFERENCE OF THE POLYMER PROCESSING SOCIETY	0735-416060	2016	1914		0.000	1.000	
3.21	Brighenti, R., Carpinteri, A., Artoni, F.	Defect sensitivity to failure of highly deformable polymeric materials	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2017	88	107-116	2.215	3.215	
3.22	Mattos, HSD; Reis, JML; de Medeiros, LGMO; Monteiro, AH; Teixeira, SCS; Chaves, EG	Analysis of the cyclic tensile behaviour of an elasto-viscoplastic polyamide	Polymer Testing	0142-9418	2017	58	40-47	2.247	3.247	
3.23	Hopmann, C; Klein, J; Schonfuss, BI; Reisgen, U; Schonberger, J; Schiebahn, A	Analysis and specification of the crash behaviour of plastics/metal-hybrid composites by experimental and numerical methods	PRODUCTION ENGINEERING-RESEARCH AND DEVELOPMENT	0944-6524	2017	11	183-193	0.000	1.000	
3.24	Gui, ZX, Hu, X, Wang, ZJ	An elasto-visco-plastic constitutive model of polypropylene incorporating craze damage behavior and its validation	JOURNAL OF CENTRAL SOUTH UNIVERSITY	2095-2899	2017	24	1263-1268	0.761	1.761	
3.25	Johnsen, J; Grytten, F; Hopperstad, OS; Clausen, AH	Influence of strain rate and temperature on the mechanical behaviour of rubber-modified polypropylene and cross-linked polyethylene	MECHANICS OF MATERIALS	0167-6636	2017	114	40-56	2.697	3.697	
3.26	Crespo M., Gomez-del Rio M.T.,Rodriguez J.	Failure of SLS polyamide 12 notched samples at high loading rates	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2017	92	233-239	2.215	3.215	

3.27	Ricks, TM; Lacy, TE; Bednarcyk, BA; Robens-Radermacher, A; Pineda, EJ; Arnold, SM	Solution of the Nonlinear High-Fidelity Generalized Method of Cells Micromechanics Relations via Order-Reduction Techniques	MATHEMATICAL PROBLEMS IN ENGINEERING	1024-123X	2018		3081078	1.145	2.145	
3.28	Duan, SY; Yang, XJ; Tao, YR; Mo, FH; Xiao, Z; Wei, K	EXPERIMENTAL AND NUMERICAL INVESTIGATION OF LONG GLASS FIBER REINFORCED POLYPROPYLENE COMPOSITE AND APPLICATION IN AUTOMOBILE COMPONENTS	TRANSPORT	1648-4142	2018	33	1135-1143	1.267	2.267	
3.29	Raza, K; Shamir, M; Qureshi, MKA; Shaikh, AS; Zain-ul-abdein, M	On the friction stir welding, tool design optimization, and strain rate-dependent mechanical properties of HDPE-ceramic composite joints	JOURNAL OF THERMOPLASTIC COMPOSITE MATERIALS	0892-7057	2018	31	291-310	0.912	1.912	
3.30	Bird, E; Merrell, J; Rosquist, P; Martineau, A; Bowden, A; Seeley, M; Fullwood, D	Effect of environmental and material factors on the response of nanocomposite foam impact sensors	SMART MATERIALS AND STRUCTURES	0964-1726	2018	27		2.963	3.963	
3.31	Jin, T; Zhou, ZW; Shu, XF; Wang, ZH; Wu, GY; Zhao, LM	Investigation on the yield behaviour and macroscopic phenomenological constitutive law of PA66	Polymer Testing	0142-9418	2018	69	563-582	2.247	3.247	
3.32	Farge, L; Andre, S; Boisse, J	Use of Digital Image Correlation to study the effect of temperature on the development of plastic instabilities in a semi-crystalline polymer	POLYMER	0032-3861	2018	153	295-304	3.483	4.483	
3.33	Jiang, BH; Cao, LB; Zhu, F	Dynamic tensile behavior of polypropylene with temperature effect	COMPOSITES PART B-ENGINEERING	1359-8368	2018	152	300-304	4.920	5.920	
3.34	da Costa Mattos, HS; Brandao, JFS; Amorim, FC; Araujo, PVS; Reis, JML (Reis, J. M. L.)	A unified expression to estimate the stress-strain curve of polyamides at different temperatures	MATERIALS RESEARCH EXPRESS	2053-1591	2019	6	15304	1.151	2.151	
3.35	Kolodziej, S., Weber, G., Czulak, A., et al.	Thermographic analysis of dual-phase steel under quasi-static and dynamic tension	KOVOVE MATERIALY-METALLIC MATERIALS	1338-4252	2019	57	45-54	0.765	1.765	
3.36	Johnsen, J., Clausen, AH., Gryttenb, F. et al.	A thermo-elasto-viscoplastic constitutive model for polymers	JOURNAL OF THE MECHANICS AND PHYSICS OF SOLIDS	0022-5096	2019	124	681-701	5.000	6.000	
3.37	Urrego Y., William; CN., Milena Velasquez, S. et al.	Mechanical and rheometric properties of natural rubber composites filled with untreated and chemically treated leather wastes	JOURNAL OF COMPOSITE MATERIALS	0021-9983	2019	53	1475-1487	1.619	2.619	

3.38	Nciri, M., Notta-Cuvier, D., Lauro, F. et al.	Viscoelastic-viscoplastic model for short-fiber-reinforced composites with complex fiber orientation	Mechanics of Advanced Materials and Structures	1537-6532	2019	26	842-853	3.517	4.517	
3.39	Saadallah, Y., Derfouf, S., Guerira, B.	A viscoelastic-viscoplastic model for a thermoplastic and sensitivity of its rheological parameters to the strain-rate	FRATTURA ED INTEGRITA STRUTTURALE	1971-8993	2019	49	666-675	0.000	1.000	
3.40	Andersen, M., Hopperstad, OS., Clausen, AH.	Volumetric strain measurement of polymeric materials subjected to uniaxial tension	STRAIN	1475-1305	2019	55	e12314	1.313	2.313	
3.41	Lopez, D., Thuillier, S., Grohens, Y.	Prediction of elastic anisotropic thermo-dependent properties of discontinuous fiber-reinforced composites	JOURNAL OF COMPOSITE MATERIALS	0021-9983	2019	54	1913-1923	1.619	2.619	
3.42	Chen, J., Wang, Q., Luan, M. et al.	Polydopamine as reinforcement in the coating of nano-silver on polyurethane surface: Performance and mechanisms	PROGRESS IN ORGANIC COATINGS	0300-9440	2019	137	105288	4.469	5.469	
3.43	Goh, G. D., Yap, Y. L., Tan, H. K. J. et al.	Process-Structure-Properties in Polymer Additive Manufacturing via Material Extrusion: A Review	CRITICAL REVIEWS IN SOLID STATE AND MATERIALS SCIENCES	1547-6561	2020	45	113-133	8.344	9.344	
3.44	Pietrosanto, A., Scarfato, P., Di Maio, L. et al.	Evaluation of the Suitability of Poly(Lactide)/Poly(Butylene-Adipate-co-Terephthalate) Blown Films for Chilled and Frozen Food Packaging Applications	POLYMERS	2073-4360	2020	12	804	3.426	4.426	
3.45	Du, B., Liu, Q., Shi, Y. et al.	The Effect of Fe(3)O(4)Nanoparticle Size on Electrical Properties of Nanofluid Impregnated Paper and Trapping Analysis	MOLECULES	1420-3049	2020	25	3566	3.267	4.267	
3.46	Felder, S., Vu, N. A,; Reese, S. et al.	Modeling the effect of temperature and degree of crystallinity on the mechanical response of Polyamide 6	MECHANICS OF MATERIALS	0167-6636	2020	148	103476	2.993	3.993	
3.47	Yao, S., Hu, D., Xi, Z. et al.	Effect of crystallization on tensile mechanical properties of PET foam: Experiment and model prediction	Polymer Testing	0142-9418	2020	90	106649	3.275	4.275	
3.48	Felder, S., Holthusen, H., Hesseler, S. et al.	Incorporating crystallinity distributions into a thermomechanically coupled constitutive model for semi-crystalline polymers	INTERNATIONAL JOURNAL OF PLASTICITY	0749-6419	2020	135	102751	6.490	7.490	
4	E. Linul, **D.A. Şerban**, T. Voiconi, L. Marşavina, T. Sadowski	Energy – absorption and efficiency diagrams of rigid PUR foams	Key Engineering Materials	1013-9826	2014	601	246-29	0	0	65.003

4.1	Liu, X., Li, W., Feng, M, et al.	Strength and toughness of carbon fibers reinforced rigid polyurethane composites by adsorbing tannic acid and refining Ni grains on carbon fibers surface	POLYMERS FOR ADVANCED TECHNOLOGIES	1099-1581	2020			2.578	3.578	
4.2	Khezrzadeh, O., Mirzaee, O., Emadoddin, E. et al.	Anisotropic Compressive Behavior of Metallic Foams under Extreme Temperature Conditions	MATERIALS	1996-1944	2020	13	2329	3.057	4.057	
4.3	Jiang, L., Yang, B., Xiao, S. et al.	Simulation Study of Adhesive Material for Sandwich Panel under Edgewise Compression Condition	MATERIALS	1996-1944	2020	13	1391	3.057	4.057	
4.4	Linul, E., Marsavina, L., Valean, C. et al.	Static and dynamic mode I fracture toughness of rigid PUR foams under room and cryogenic temperatures	ENGINEERING FRACTURE MECHANICS	0013-7944	2020	225	106274	3.426	4.426	
4.5	Stoia, DI., Marsavina, L., Linul, E.	Correlations between Process Parameters and Outcome Properties of Laser-Sintered Polyamide	POLYMERS	2073-4360	2019	11	1850	3.057	4.057	
4.6	Rodriguez-Sanchez, AE., Plascencia-Mora, H., Ledesma-Orozco, ER. et al.	Numerical analysis of energy absorption in expanded polystyrene foams	JOURNAL OF CELLULAR PLASTICS	1530-7999	2019	56	411-434	1.925	2.925	
4.7	Rajak, DK., Pagar, DD., Menezes, PL. et al.	Fiber-Reinforced Polymer Composites: Manufacturing, Properties, and Applications	POLYMERS	2073-4360	2019	12	1298	3.426	4.426	
4.8	Stoia, DI., Linul, E., Marsavina, L.	Influence of Manufacturing Parameters on Mechanical Properties of Porous Materials by Selective Laser Sintering	MATERIALS	1996-1944	2018	12	871	3.057	4.057	
4.9	Linul, E Valean, C; Linul, PA	Compressive Behavior of Aluminum Microfibers Reinforced Semi-Rigid Polyurethane Foams	POLYMERS	2073-4360	2018	12	1298	2.935	3.935	
4.10	Habib, FN; Iovenitti, P; Masood, SH; Nikzad, M	Fabrication of polymeric lattice structures for optimum energy absorption using Multi Jet Fusion technology	MATERIALS & DESIGN	0264-1275	2018	155	86-98	4.525	5.525	
4.11	Meng, L; Li, WW; Ma, RL; Huang, MM; Wang, JW; Luo, YX; Wang, JH; Xia, KW	Long UHMWPE fibers reinforced rigid polyurethane composites: An investigation in mechanical properties	EUROPEAN POLYMER JOURNAL	0014-3057	2018	105	55-60	3.741	4.741	
4.12	Aliha, MRM; Linul, E; Bahmani, A; Marsavina, L	Experimental and theoretical fracture toughness investigation of PUR foams under mixed mode I plus III loading	Polymer Testing	0142-9418	2018	67	75-83	2.247	3.247	

4.13	Linul, E; Movahedi, N; Marsavina, L	The temperature and anisotropy effect on compressive behavior of cylindrical closed-cell aluminum-alloy foams	JOURNAL OF ALLOYS AND COMPOUNDS	0925-8388	2018	740	1172-1179	3.779	4.779	
4.14	Movahedi, N; Linul, E; Marsavina, L	The Temperature Effect on the Compressive Behavior of Closed-Cell Aluminum-Alloy Foams	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	1059-9495	2018	27	99-108	1.34	2.340	
4.15	Linul, E; Movahedi, N; Marsavina, L	The temperature effect on the axial quasi-static compressive behavior of ex-situ aluminum foam-filled tubes	COMPOSITE STRUCTURES	0263-8223	2017	180	709-722	4.101	5.101	
4.16	Linul, E; Marsavina, L; Kovacik, J; Sadowski, T	DYNAMIC AND QUASI-STATIC COMPRESSION TESTS OF CLOSED-CELL ALUMINIUM ALLOY FOAMS	PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A-MATHEMATICS PHYSICS TECHNICAL SCIENCES INFORMATION SCIENCE	1454-9069	2017	18	361-369	1.752	2.752	
4.17	Linul, E,. Marsavina, L.	Experimental Determination of Mixed-Mode Fracture Toughness for Rigid Polyurethane Foams	FRACTURE AT ALL SCALES	2195-4356	2017		221-237	0.000	1.000	
5	**D.A. Şerban**, L. Marșavina, N. Modler	Finite Element Modelling of the Progressive Damage and Failure of Thermoplastic Polymers in Puncture Impact	Procedia Engineering	1877-7058	2015	109	97-104	0		24.318
5.1	Askarinejad, S; Choshali, HA.; Flavin, C; Rahbar, N	Effects of tablet waviness on the mechanical response of architected multilayered materials: Modeling and experiment	COMPOSITE STRUCTURES	0263-8223	2018	195	118-125	4.101	5.101	
5.2	Gao, WM; Wang, L; Coffey, JK; Daver, F	Understanding the scratch behaviour of polymeric materials with surface texture	MATERIALS & DESIGN	0264-1275	2018	146	38-48	4.525	5.525	
5.3	Gao, WM; Wang, L; Coffey, JK; Daver, F	Finite element simulation of scratch on polypropylene panels	MATERIALS & DESIGN	0264-1275	2018	140	400-408	4.525	5.525	
5.4	Xu, L., Du, Z., Wang, J. et al.	A viscoelastoplastic constitutive model of semi-crystalline polymers under dynamic compressive loading: Application to PE and PA66	MECHANICS OF ADVANCED MATERIALS AND STRUCTURES	1537-6532	2020	27	1331-1341	3.517	4.517	
5.5	Gao, WM; Wang, L; Coffey, JK et al.	An attempt to simulate structure and realistic images of scratches on rough polymeric surfaces	JOURNAL OF POLYMER SCIENCE	2642-4169	2020			2.65	3.650	

6	**D.A. Şerban**, E. Linul, T. Voiconi, L. Marşavina, N. Modler	Numerical evaluation of two-dimensional micromechanical structures of anisotropic cellular materials: case study for polyurethane rigid foams	Iranian Polymer Journal	1026-1265	2015	24 (6)	515-529	1.806		10.45
6.1	Linul, E., Marsavina, L., Valean, C. et al.	Static and dynamic mode I fracture toughness of rigid PUR foams under room and cryogenic temperatures	ENGINEERING FRACTURE MECHANICS	0013-7944	2020	225	106274	3.426	4.426	
6.2	Movahedi, N; Linul, E; Marsavina, L	The Temperature Effect on the Compressive Behavior of Closed-Cell Aluminum-Alloy Foams	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	1059-9495	2018	27	99-108	1.34	2.340	
6.3	Linul, E,. Marsavina, L.	Experimental Determination of Mixed-Mode Fracture Toughness for Rigid Polyurethane Foams	FRACTURE AT ALL SCALES	2195-4356	2017		221-237	0.000	1.000	
6.4	Kausar A.	Physical properties and shape memory behavior of thermoplastic polyurethane/poly(ethylene-alt-maleic anhydride) blends and graphene nanoplatelet composite	Iranian Polymer Journal	1026-1265	2016	25	945-955	1.684	2.684	
7	**D.A. Şerban,** L. Marşavina, N. Modler	Low-cycle fatigue behaviour of polyamides	Fatigue and Fracture of Engineering Materials	1460-2695	2015	38 (11)	1383-1394	1.561		9.613
7.1	de Saint-Aubin, CA; Rosset, S; Schlatter, S; Shea, H	High-cycle electromechanical aging of dielectric elastomer actuators with carbon-based electrodes	SMART MATERIALS AND STRUCTURES	0964-1726	2018	27		2.963	3.963	
7.2	Jigh, BHG., Hosseini-Toudeshky, H., Farsi, MA.	Low cycle fatigue analyses of open-celled aluminum foam under compression-compression loading using experimental and microstructure finite element analysis	JOURNAL OF ALLOYS AND COMPOUNDS	0925-8388	2019	797	231- 236	4.65	5.65	
8	**D.A. Şerban**, T. Voiconi, E. Linul, L. Marşavina, N. Modler	Viscoelastic Properties of PUR Foams: Impact excitation and dynamic mechanical analysis	Materiale Plastice	0025-5289	2015	58 (4)	537-541	0.824		
8.1	Marinescu, M; Butu, L; Borda, C; Arsene, D; Butu, M	The Influence of Composite Polymeric Materials Topology Over the Shearing Modulus Using Virtual Instruments	Materiale Plastice	0025-5289	2018	55	524-530	1.248	2.248	
8.2	Linul, E., Marsavina, L., Valean, C. et al.	Static and dynamic mode I fracture toughness of rigid PUR foams under room and cryogenic temperatures	ENGINEERING FRACTURE MECHANICS	0013-7944	2020	225	106274	3.426	4.426	

9	**D.A. Şerban**, O. Weissenborn, S. Geller, L. Marşavina, M. Gude	Evaluation of the mechanical and morphological properties of long fibre reinforced polyurethane rigid foams	Polymer Testing	0142-9418	2016	49	121–127	2.240		101.617
9.1	Silva, NGS., Cortat, LICO., Orlando, D. et al.	Evaluation of rubber powder waste as reinforcement of the polyurethane derived from castor oil	WASTE MANAGEMENT	0956-053X	2020	116	131-139	5.448	6.448	
9.2	Marsavina, L., Linul, E.	Fracture toughness of rigid polymeric foams: A review	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	1460-2695	2020	43	2483-2514	3.031	4.031	
9.3	Zenker, B., Dannemann, M., Geller, S. et al.	Structure-Integrated Loudspeaker Using Fiber-Reinforced Plastics and Piezoelectric Transducers-Design, Manufacturing and Validation	Applied Sciences	2076-3417	2020	10	3438	2.474	3.474	
9.4	Zhang, Q., Lin, X., Chen, W. et al.	Modification of Rigid Polyurethane Foams with the Addition of Nano-SiO2 or Lignocellulosic Biomass	POLYMERS	2073-4360	2020	107	107	3.426	4.426	
9.5	Agrawal, A., Kaur, R., Walia, RS.	Investigation on flammability of rigid polyurethane foam-mineral fillers composite	FIRE AND MATERIALS	1099-1018	2019	43	917-927	1.925	2.925	
9.6	Song, W., Konstantellos, G., Li, D. et al.	Short carbon fibre-reinforced epoxy foams with isotropic cellular structure and anisotropic mechanical response produced from liquid foam templates	COMPOSITES SCIENCE AND TECHNOLOGY	0266-3538	2019	184	107871	7.094	8.094	
9.7	Maamoun, A. A., Mahmoud, A. A., Nasr, E. A. et al.	Fabrication of novel formulations from rigid polyurethane foams and mortar for potential applications in building industry	JOURNAL OF POLYMER RESEARCH	1572-8935	2019	26	259	2.426	3.426	
9.8	Park, KB., Kim, HT., Her, NY. et al.	Variation of Mechanical Characteristics of Polyurethane Foam: Effect of Test Method	MATERIALS	1996-1944	2019	12	2672	2.467	3.467	
9.9	Lai, N., Tang, L., Jia, N. et al.	Feasibility Study of Applying Modified Nano-SiO2 Hyperbranched Copolymers for Enhanced Oil Recovery in Low-Mid Permeability Reservoirs	POLYMERS	2073-4360	2019	11	1483	3.426	4.426	
9.10	Wang, H., Li, TT., Wu, L. et al.	Spacer fabric/flexible polyurethane foam composite sandwiches: Structural design and quasi-static compressive, bursting and dynamic impact performances	JOURNAL OF SANDWICH STRUCTURES & MATERIALS	1099-6362	2019			5.616	6.616	

9.11	Basit, MM., Cheon, SS.	Time-dependent crashworthiness of polyurethane foam	MECHANICS OF TIME-DEPENDENT MATERIALS	1573-2738	2019	23	207-221	1.574	2.574	
9.12	Hilmi, H., Zainuddin, F., Du Ngoc Uy Lan	Mechanical properties of polytetrafluoroethylene (PTFE) powder reinforced bio-based palm oil polyurethane (POPU) composite foam	MATERIALS TODAY-PROCEEDINGS	2214-7853	2019	16	1708-1714	0.000	1.000	
9.13	Delucis, Rafael de Avila; Amicos, Sandro Campos; Esteves Magalhaes, Washington Luiz; et al.	Construction: Rigid Bio-based Polyurethane Foams for Sandwich Panels	ENCYCLOPEDIA OF POLYMER APPLICATIONS		2019		624-638	0.000	1.000	
9.14	Realinho, V., Arencon, D., Antunes, M. et al.	Effects of a Phosphorus Flame Retardant System on the Mechanical and Fire Behavior of Microcellular ABS	POLYMERS	2073-4360	2019	11	30	3.426	4.426	
9.15	Bernardo, V; Mugica, M); Perez-Tamarit, S); Notario, B; Jimenez, C; Rodriguez-Perez, MA	Nanoclay Intercalation During Foaming of Polymeric Nanocomposites Studied in-Situ by Synchrotron X-Ray Diffraction	MATERIALS	1996-1944	2018	11	2459	2.467	3.467	
9.16	Winkler, A; Modler, N; Drossel, WG ; Mader, T; Korner, C	High-Volume Production-Compatible Technologies for Light Metal and Fiber Composite-Based Components with Integrated Piezoceramic Sensors and Actuators	ADVANCED ENGINEERING MATERIALS	1438-1656	2018	20	1801001	2.576	3.576	
9.17	Wang, HY; Li, TT; Wu, LW; Lou, CW; Lin, JH	Multifunctional, Polyurethane-Based Foam Composites Reinforced by a Fabric Structure: Preparation, Mechanical, Acoustic, and EMI Shielding Properties	MATERIALS	1996-1944	2018	11	2085	2.467	3.467	
9.18	Gama, NV; Ferreira, A; Barros-Timmons, A	Polyurethane Foams: Past, Present, and Future	MATERIALS	1996-1944	2018	11	1841	2.467	3.467	
9.19	Meng, L; Li, WW; Ma, RL; Huang, MM; Wang, JW; Luo, YX; Wang, JH; Xia, KW	Long UHMWPE fibers reinforced rigid polyurethane composites: An investigation in mechanical properties	EUROPEAN POLYMER JOURNAL	0014-3057	2018	105	55-60	3.741	4.741	
9.20	Aliha, MRM; Linul, E; Bahmani, A; Marsavina, L	Experimental and theoretical fracture toughness investigation of PUR foams under mixed mode I plus III loading	Polymer Testing	0142-9418	2018	67	75-83	2.247	3.247	
9.21	Lee, JH; Kim, SK; Park, S; Park, KH; Lee, JM	Unified constitutive model with consideration for effects of porosity and its application to polyurethane foam	COMPOSITES PART B-ENGINEERING	1359-8368	2018	138	87-100	4.920	5.920	

9.22	Agrawal, A; Kaur, R; Walia, RS	PU foam derived from renewable sources: Perspective on properties enhancement: An overview	EUROPEAN POLYMER JOURNAL	0014-3057	2018	95	255-274	3.741	4.741	
9.23	Weissenborn, O; Geller, S; Gude, M	Analysis of Geometrical and Process-Related Parameters on the Impregnation Quality of Advanced Cellular Composites	ADVANCED ENGINEERING MATERIALS	1438-1656	2017	19	1700087	2.576	3.576	
9.24	Serrano, A; Borreguero, AM; Garrido, I; Rodriguez, JF; Carmona, M	The role of microstructure on the mechanical properties of polyurethane foams containing thermoregulating microcapsules	Polymer Testing	0142-9418	2017	60	274-282	2.247	3.247	
9.25	Zieleniewska, M; Leszczynski, MK; Szczepkowski, L; Bryskiewicz, A; Krzyowska, M; Bien, K; Ryszkowska, J	Development and applicational evaluation of the rigid polyurethane foam composites with egg shell waste	POLYMER DEGRADATION AND STABILITY	0141-3910	2016	132	78-86	3.193	4.193	
9.26	Boldis, M; Gasparik, M; Gaff, M; Ruman, D	COMPRESSION SET OF PU FOAM MATTRESSES WITH SELF-CLAMPING JOINTS AND SANDWICH STRUCTURE	WOOD RESEARCH	1336-4561	2016	61	1003-1016	0.642	1.642	
10	R. Negru, **D.A. Şerban**, L. Marşavina, A. Magda	Lifetime prediction in medium-cycle fatigue regime of notched specimens	Theoretical and Applied Fracture Mechanics	0167-8442	2016	84	140-148	2.025		30.071
10.1	Han, Q., Wang, Y., Yin, Y. et al.	Fatigue tests on notched specimens of G20Mn5QT cast steel and life prediction by a new strain-based method	ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING	1644-9665	2020	20	113	3.672	4.672	
10.2	Benedetti, M., Santus, C.	Statistical properties of threshold and notch derived estimations of the critical distance according to the line method of the theory of critical distances	INTERNATIONAL JOURNAL OF FATIGUE	0142-1123	2020	137	105656	4.369	5.369	
10.3	Seifi, R., Mohammadi, MR.	Fatigue life estimation of the overloaded notched components	JOURNAL OF THE BRAZILIAN SOCIETY OF MECHANICAL SCIENCES AND ENGINEERING	1806-3691	2019	42	51	1.755	2.755	
10.4	Viespoli, LM., Johanson, A., Alvaro, A. et al.	Strain controlled medium cycle fatigue of a notched Pb-Sn-Cd lead alloy	ENGINEERING FAILURE ANALYSIS	1350-6307	2019	104	96-104	2.897	3.897	
10.5	Benedetti, M., Santus, C.	Mean stress and plasticity effect prediction on notch fatigue and crack growth threshold, combining the theory of critical distances and multiaxial fatigue criteria	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	1460-2695	2019	42	1228-1246	3.031	4.031	

10.6	Hu, Z ; Berto, F; Susmel, L	The Strain energy density to estimate lifetime of notched components subjected to variable amplitude fatigue loading	FRATTURA ED INTEGRITA STRUTTURALE	1971-8993	2019	47	383-393	0.000	1.000	
10.7	Moghaddam, MR; Ayatollahi, MR; Berto, F	The application of strain energy density criterion to fatigue crack growth behavior of cracked components	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2018	97	440-447	2.215	3.215	
10.8	Santus, C; Taylor, D; Benedetti, M	Experimental determination and sensitivity analysis of the fatigue critical distance obtained with rounded V-notched specimens	INTERNATIONAL JOURNAL OF FATIGUE	0142-1123	2018	113	113-125	3.132	4.132	
10.9	Seriari, FZ; Benachour, M; Benguediab, M	Fatigue crack growth of composite patch repaired Al-alloy plates under variable amplitude loading	FRATTURA ED INTEGRITA STRUTTURALE	1971-8993	2018	47	383-393	0.000	1	
11	E. Linul, **D.A. Şerba**n, L. Marsavina, T. Sadowski	Assessment of collapse diagrams of rigid polyurethane foams under dynamic loading conditions	Archives of Civil and Mechanical Engineering	1644-9665	2017	17	457 – 466	2.763		114.267
11.1	Liu, Y., Rahimidehgolan, F., Altenhof, W.	Anisotropic compressive behavior of rigid PVC foam at strain rates up to 200 s(-1)	Polymer Testing	0142-9418	2020	91	106836	3.275	4.275	
11.2	Abbasi, M., Nia, AA.	High-velocity impact behavior of sandwich structures with AL faces and foam cores-Experimental and numerical study	AEROSPACE SCIENCE AND TECHNOLOGY	1270-9638	2020	105	106039	4.499	5.499	
11.3	Pietras, D., Linul, E., Sadowski, T. et al.	Out-of-plane crushing response of aluminum honeycombs in-situ filled with graphene-reinforced polyurethane foam	COMPOSITE STRUCTURES	0263-8223	2020	249	112548	5.138	6.138	
11.4	Wang, J., Li, X., Fang, H. et al.	Statistical Characteristics of Polymer Grouting Material Microstructure	ADVANCES IN CIVIL ENGINEERING	1687-8094	2020	2020	8847494	1.176	2.176	
11.5	Linul, E., Marsavina, L., Valean, C. et al.	Static and dynamic mode I fracture toughness of rigid PUR foams under room and cryogenic temperatures	ENGINEERING FRACTURE MECHANICS	0013-7944	2020	225	106274	3.426	4.426	
11.6	Fiedler, T., Al-Sahlani, K., Linul, P. A. et al.	Mechanical properties of A356 and ZA27 metallic syntactic foams at cryogenic temperature	JOURNAL OF ALLOYS AND COMPOUNDS	0925-8388	2020	813	152181	4.65	5.650	
11.7	Del Rosso, S., Iannucci, L.	On the Compressive Response of Polymeric Cellular Materials	MATERIALS	1996-1944	2020	13	457	2.467	3.467	

11.8	Qiu, D., He, Y., Yu, Z.	Investigation on Compression Mechanical Properties of Rigid Polyurethane Foam Treated under Random Vibration Condition: An Experimental and Numerical Simulation Study	MATERIALS	1996-1944	2019	12	3385	2.467	3.467	
11.9	Li, TT., Wang, H., Huang, SY. et al.	Bioinspired foam composites resembling pomelo peel: Structural design and compressive, bursting and cushioning properties	COMPOSITES PART B-ENGINEERING	1359-8368	2019	172	290-298	7.635	8.635	
11.10	Wu, J., He, Y., Yu, Z.	Failure mechanism of rigid polyurethane foam under high temperature vibration condition by experimental and finite element method	JOURNAL OF APPLIED POLYMER SCIENCE	1097-4628	2019	137	48343	2.520	3.520	
11.11	Aliha, M. R. M., Mousavi, S. S., Bahmani, A. et al.	Crack initiation angles and propagation paths in polyurethane foams under mixed modes I/II and I/III loading	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2019	101	152-161	3.021	4.021	
11.12	He, Y., Wu, J., Qiu, D. et al.	Experimental and numerical analyses of thermal failure of rigid polyurethane foam	MATERIALS CHEMISTRY AND PHYSICS	0254-0584	2019	233	378-389	3.408	4.408	
11.13	Stoia, DI., Linul, E., Marsavina, L.	Influence of Manufacturing Parameters on Mechanical Properties of Porous Materials by Selective Laser Sintering	MATERIALS	1996-1944	2019	12	871	3.057	4.057	
11.14	Hoang, CN., Pham, CT., Dang, TM. et al.	Novel Oligo-Ester-Ether-Diol Prepared by Waste Poly(ethylene terephthalate) Glycolysis and Its Use in Preparing Thermally Stable and Flame Retardant Polyurethane Foam	POLYMERS	2073-4360	2019	11	236	3.426	4.426	
11.15	Linul, E., Marsavina, L., Linul, PA. et al.	Cryogenic and high temperature compressive properties of Metal Foam Matrix Composites	COMPOSITE STRUCTURES	0263-8223	2019	209	490-498	5.138	6.138	
11.16	Realinho, V., Arencon, D., Antunes, M. et al.	Effects of a Phosphorus Flame Retardant System on the Mechanical and Fire Behavior of Microcellular ABS	POLYMERS	2073-4360	2019	11	30	3.426	4.426	

11.17	Linul, E; Marsavina, L; Linul, PA; Kovacik, J	Cryogenic and high temperature compressive properties of Metal Foam Matrix Composites	COMPOSITE STRUCTURES	0263-8223	2019	219	490-498	4.101	5.101	
11.18	Linul, E Valean, C; Linul, PA	Compressive Behavior of Aluminum Microfibers Reinforced Semi-Rigid Polyurethane Foams	POLYMERS	2073-4360	2018	12	1298	2.935	3.935	
11.19	Wang, HY; Li, TT; Wu, LW; Lou, CW; Lin, JH	Multifunctional, Polyurethane-Based Foam Composites Reinforced by a Fabric Structure: Preparation, Mechanical, Acoustic, and EMI Shielding Properties	MATERIALS	1996-1944	2018	11	2085	2.467	3.467	
11.20	Aliha, MRM; Linul, E; Bahmani, A; Marsavina, L	Experimental and theoretical fracture toughness investigation of PUR foams under mixed mode I plus III loading	Polymer Testing	0142-9418	2018	67	75-83	2.247	3.247	
11.21	Movahedi, N; Linul, E	Mechanical properties of Light Expanded Clay Aggregated (LECA) filled tubes	MATERIALS LETTERS	0167-577X	2018	27	194-197	2.687	3.687	
11.22	Linul, E; Movahedi, N; Marsavina, L	The temperature and anisotropy effect on compressive behavior of cylindrical closed-cell aluminum-alloy foams	JOURNAL OF ALLOYS AND COMPOUNDS	0925-8388	2018	740	1172-1179	3.779	4.779	
11.23	Linul, E; Movahedi, N; Marsavina, L	On the Lateral Compressive Behavior of Empty and Ex-Situ Aluminum Foam-Filled Tubes at High Temperature	MATERIALS	1996-1944	2018	11	554	2.467	3.467	
11.24	Movahedi, N; Linul, E; Marsavina, L	The Temperature Effect on the Compressive Behavior of Closed-Cell Aluminum-Alloy Foams	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	1059-9495	2018	27	99-108	1.34	2.340	
11.25	Linul, E; Movahedi, N; Marsavina, L	The temperature effect on the axial quasi-static compressive behavior of ex-situ aluminum foam-filled tubes	COMPOSITE STRUCTURES	0263-8223	2017	180	709-722	4.101	5.101	
11.26	Linul, E; Marsavina, L; Kovacik, J	Collapse mechanisms of metal foam matrix composites under static and dynamic loading conditions	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	0921-5093	2017	690	214-224	3.414	4.414	
12	E. Linul, **D.A. Şerban**, L. Marşavina	Influence of Cell Topology on Mode I Fracture Toughness of Cellular Structures	Physical Mesomechanics	1029-9599	2018	21	178-186	2.244		59.143
12.1	Pugna, A., Negrea, R., Linul, E. et al.	Is Fracture Toughness of PUR Foams a Material Property? A Statistical Approach	MATERIALS	1996-1944	2020	21	4868	2.467	3.467	

12.2	Oliveira, PR., May, M., Panzera, TH. et al.	Improved sustainable sandwich panels based on bottle caps core	COMPOSITES PART B-ENGINEERING	1359-8368	2020	199	108165	7.635	8.635	
12.3	Li, TT., Dai, W., Huang, SY. et al.	Spring-like sandwich foam composites reinforced by 3D Concave-Convex structured fabric: Manufacturing and low-velocity cushion response	COMPOSITES PART B-ENGINEERING	1359-8368	2020	197	108171	7.635	8.635	
12.4	Marsavina, L., Linul, E.	Fracture toughness of rigid polymeric foams: A review	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	1460-2695	2020	43	2483-2514	3.031	4.031	
12.5	Du, Z., Yao, D., Xia, Y. et al.	The sound absorption properties of highly porous silicon nitride ceramic foams	JOURNAL OF ALLOYS AND COMPOUNDS	0925-8388	2020	820	153067	4.65	5.650	
12.6	Linul, E., Marsavina, L., Stoia, DI.	Mode I and II fracture toughness investigation of Laser-Sintered Polyamide	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2020	106	102497	3.021	4.021	
12.7	Linul, E., Marsavina, L., Valean, C. et al.	Static and dynamic mode I fracture toughness of rigid PUR foams under room and cryogenic temperatures	ENGINEERING FRACTURE MECHANICS	0013-7944	2020	225	106274	3.426	4.426	
12.8	Aliha, M. R. M., Mousavi, S. S., Bahmani, A. et al.	Crack initiation angles and propagation paths in polyurethane foams under mixed modes I/II and I/III loading	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2019	101	152-161	3.021	4.021	
12.9	Gharib, MR., Vaziri, SA., Memarbashi, R.	Experimental and numerical investigation of concrete properties effects on fracture toughness under complex loading	MECHANICS BASED DESIGN OF STRUCTURES AND MACHINES	1539-7734	2019	48	370-382	2.286	3.286	
12.10	Linul, E; Marsavina, L; Linul, PA; Kovacik, J	Cryogenic and high temperature compressive properties of Metal Foam Matrix Composites	COMPOSITE STRUCTURES	0263-8223	2019	219	490-498	4.101	5.101	
12.11	Linul, E Valean, C; Linul, PA	Compressive Behavior of Aluminum Microfibers Reinforced Semi-Rigid Polyurethane Foams	POLYMERS	2073-4360	2018	12	1298	2.935	3.935	
12.12	Wang, ZJ; Yang, Z; Zhang, FQ; Yo	Structural Design and Sound Absorption Properties of Nitrile Butadiene Rubber-Polyurethane Foam Composites with Stratified Structure	POLYMERS	2073-4360	2018	10	946	2.935	3.935	

13	L. Marșavina, F. Berto, R. Negru, **D.A. Șerban**, E. Linul	An engineering approach to predict mixed mode fracture of PUR foams based on ASED and micromechanical modelling	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2017	91	148-154	2.659		86.967
13.1	Pourseifi, M., Rahimi, A. S.	Failure prediction of multi-cracked ductile polymeric specimens under mixed mode I/II loading	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2020	109	102744	3.021	4.021	
13.2	Hua, W., Huang, J., Pan, X. et al.	An extended maximum tangential strain energy density criterion considering T-stress for combined mode I-III brittle fracture	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	1460-2695	2020			3.031	4.031	
13.3	Jelitto, H., Schneider, G. A.	Extended cubic fracture model for porous materials and the dependence of the fracture toughness on the pore size	MATERIALIA	2589-1529	2020	12	100761	0.000	1.000	
13.4	Sun, B.	A continuum damage mechanics method for fracture simulation of quasi-brittle materials	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	1460-2695	2020	43	1837-1850	3.031	4.031	
13.5	Linul, E., Marsavina, L., Stoia, DI.	Mode I and II fracture toughness investigation of Laser-Sintered Polyamide	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2020	106	102497	3.021	4.021	
13.6	Foti, P., Ayatollahi, MR., Berto, F.	Rapid strain energy density evaluation for V-notches under mode I loading conditions	ENGINEERING FAILURE ANALYSIS	1350-6307	2020	110	UNSP 104361	2.897	3.897	
13.7	Linul, E., Marsavina, L., Valean, C. et al.	Static and dynamic mode I fracture toughness of rigid PUR foams under room and cryogenic temperatures	ENGINEERING FRACTURE MECHANICS	0013-7944	2020	225	106274	3.426	4.426	
13.8	Rahimi, A. S., Ayatollahi, M. R., Torabi, A. R.	Elastic-plastic damage prediction in notched epoxy resin specimens under mixed mode I/II loading using two virtual linear elastic failure criteria	INTERNATIONAL JOURNAL OF DAMAGE MECHANICS	1530-7921	2020	29	1100-1116	3.125	4.125	
13.9	Abolghasemzadeh, M., Alizadeh, Y., Mohammadi, H.	Fatigue Strength Reduction Factors Based on Strain Energy Density Applied to Sharp and Blunt Notches under Multiaxial Loading	PHYSICAL MESOMECHANICS	1029-9599	2020	23	66-80	1.368	2.368	

13.10	Salavati, H., Mohammadi, H., Alizadeh, Y. et al.	3D fracture behaviour of graphite specimens weakened by Vnotches with end holes under mixed mode (I plus II) loading	ENGINEERING FAILURE ANALYSIS	1350-6307	2019	104	682-689	2.897	3.897	
13.11	Golewski, GL.	A novel specific requirements for materials used in reinforced concrete composites subjected to dynamic loads	COMPOSITE STRUCTURES	0263-8223	2019	223	110939	4.101	5.101	
13.12	Golewski, GL.	A new principles for implementation and operation of foundations for machines: A review of recent advances	STRUCTURAL ENGINEERING AND MECHANICS	1225-4568	2019	71	317-327	3.02	4.020	
13.13	Heydari-Meybodi, M., Ayatollahi, MR., Berto, F, et al.	Rupture assessment of rubber/clay nanocomposites containing a crack by means of an energy-based fracture criterion	ARCHIVES OF CIVIL AND MECHANICAL ENGINEERING	1644-9665	2019	19	1458-1467	3.672	4.672	
13.14	Al Rifaie, M., Mian, A., Srinivasan, R.	Compression behavior of three-dimensional printed polymer lattice structures	PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS	2041-3076	2019	223	1574-1584	2.104	3.104	
13.15	Aliha, M. R. M., Mousavi, S. S., Bahmani, A. et al.	Crack initiation angles and propagation paths in polyurethane foams under mixed modes I/II and I/III loading	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2019	101	152-161	3.021	4.021	
13.16	Salavati, H., Mohammadi, H.	Ductile Failure Prediction of U-Notched Bainitic Functionally Graded Steel Specimens Using the Equivalent Material Concept Combined with the Averaged Strain Energy Density Criterion	PHYSICAL MESOMECHANICS	1029-9599	2019	22	255-260	1.368	2.368	
13.17	Hou, C., Jin, X., Fan, X. et al.	A generalized maximum energy release rate criterion for mixed mode fracture analysis of brittle and quasi-brittle materials	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2019	100	78-85	3.021	4.021	
13.18	Chen, SH; Isaksson, P	A note on the defect sensitivity of brittle solid foams	ENGINEERING FRACTURE MECHANICS	0013-7944	2019	206	541-550	2.58	3.580	
13.19	Marsavina, L; Pop, IO; Linul, E	Mechanical and fracture properties of particleboard	FRATTURA ED INTEGRITA STRUTTURALE	1971-8993	2019	47	383-393	0.000	1	
13.20	Majidi, HR; Razavi, SMJ; Torabi, AR	Application of EMC-J criterion to fracture prediction of U-notched polymeric specimens with nonlinear behaviour	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	8756-758X	2019	42	352-362	3.031	4.031	

13.21	Pirmohammad, S); Mengharpey, MH	A new mixed mode I/II fracture test specimen: Numerical and experimental studies	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2018	97	204-214	2.215	3.215	
13.22	Saboori, B; Torabi, AR; Mohammadian, SK	Experimental and stress-based theoretical studies on mixed mode I/III fracture of round-tip V-notched Polystyrene specimens	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2018	95	283-305	2.215	3.215	
13.23	Aliha, MRM; Linul, E; Bahmani, A; Marsavina, L	Experimental and theoretical fracture toughness investigation of PUR foams under mixed mode I plus III loading	Polymer Testing	0142-9418	2018	67	75-83	2.247	3.247	
13.24	Movahedi, N; Linul, E; Marsavina, L	The Temperature Effect on the Compressive Behavior of Closed-Cell Aluminum-Alloy Foams	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	1059-9495	2018	27	99-108	1.34	2.340	
13.25	Aliha, MRM; Berto, F; Mousavi, A; Razavi, SMJ	On the applicability of ASED criterion for predicting mixed mode I plus II fracture toughness results of a rock material	THEORETICAL AND APPLIED FRACTURE MECHANICS	0167-8442	2017	92	198-204	2.215	3.215	
14	E. Linul, **D.A. Şerban**, L. Marsavina, J. Kovacik	Low-cycle fatigue behaviour of ductile closed-cell aluminium alloy foams	Fatigue and Fracture of Engineering Materials and Structures	1460-2695	2017	40	597-604	2.335		86.281
14.1	Movahedi, N., Orbulov, IN., Kemeny, Al. et al.	Fatigue characterization of functionally graded ZA27 alloy syntactic foams	MATERIALS SCIENCE AND ENGINEERING A-STRUCTURAL MATERIALS PROPERTIES MICROSTRUCTURE AND PROCESSING	0921-5093	2020	798	140255	4.652	5.652	
14.2	Yang, X., An, T., Wu, Z. et al.	The effect of outer tube on quasi -static compression behavior of aluminum foam -filled tubes	COMPOSITE STRUCTURES	0263-8223	2020	245	112357	4.101	5.101	
14.3	Sun, SS.	A new stress field intensity model and its application in component high cycle fatigue research	PLOS ONE	1932-6203	2020	15	e0235323	2.74	3.740	
14.4	Ulbin, M., Kramberger, J., Glodez, S.	Low-cycle fatigue analysis of closed-cell aluminium foam using a homogenised material model	MECHANICS OF MATERIALS	0167-6636	2020	145	103397	2.993	3.993	
14.5	Linul, E., Marsavina, L., Valean, C. et al.	Static and dynamic mode I fracture toughness of rigid PUR foams under room and cryogenic temperatures	ENGINEERING FRACTURE MECHANICS	0013-7944	2020	225	106274	3.426	4.426	

14.6	Yang, X., Hu, Q., Li, W. et al.	Compression-compression fatigue performance of aluminium matrix composite foams reinforced by carbon nanotubes	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	8756-758X	2020	43	744-756	3.031	4.031	
14.7	Jigh, BHG., Hosseini-Toudeshky, H., Farsi, MA	Low cycle fatigue analyses of open-celled aluminum foam under compression-compression loading using experimental and microstructure finite element analysis	JOURNAL OF ALLOYS AND COMPOUNDS	0925-8388	2019	797	231-236	3.779	4.779	
14.8	Linul, E., Lell, D., Movahedi, N. et al.	Compressive properties of zinc syntactic foams at elevated temperatures	COMPOSITES PART B-ENGINEERING	1359-8368	2019	167	122-134	7.635	8.635	
14.9	Yao, C., Hu, Z., Mo, F. et al.	Fabrication and Fatigue Behavior of Aluminum Foam Sandwich Panel via Liquid Diffusion Welding Method	METALS	2075-4701	2019	9	582	2.117	3.117	
14.10	Yang, X., Hu, Q., Du, J. et al.	Compression fatigue properties of open-cell aluminum foams fabricated by space-holder method	INTERNATIONAL JOURNAL OF FATIGUE	0142-1123	2019	121	272-280	4.369	5.369	
14.11	Necemer, B., Vesenjak, M., Glodez, S.	Fatigue of Cellular Structures - a Review	STROJNISKI VESTNIK-JOURNAL OF MECHANICAL ENGINEERING	2536-2948	2019	65	525-536	1.377	2.377	
14.12	Rajak, DK; Mahajan, NN; Linul, E	Crashworthiness performance and microstructural characteristics of foam-filled thin-walled tubes under diverse strain rate	JOURNAL OF ALLOYS AND COMPOUNDS	0925-8388	2019	775	675-689	3.779	4.779	
14.13	Linul, E; Marsavina, L; Linul, PA; Kovacik, J	Cryogenic and high temperature compressive properties of Metal Foam Matrix Composites	COMPOSITE STRUCTURES	0263-8223	2019	219	490-498	4.101	5.101	
14.14	Kovacik, J; Marsavina, L; Linul, E	Poisson's Ratio of Closed-Cell Aluminium Foams	MATERIALS	1996-1944	2018	11	1904	2.467	3.467	
14.15	Hu, Y; Fang, QZ; Sha, BL; Zhao, MD	Effect of the large cells on the fatigue properties of closed-cell aluminum alloy foam	COMPOSITE STRUCTURES	0263-8223	2018	200	59-68	4.101	5.101	
14.16	Movahedi, N; Linul, E	Mechanical properties of Light Expanded Clay Aggregated (LECA) filled tubes	MATERIALS LETTERS	0167-577X	2018	27	194-197	2.687	3.687	
14.17	Movahedi, N; Linul, E; Marsavina, L	The Temperature Effect on the Compressive Behavior of Closed-Cell Aluminum-Alloy Foams	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	1059-9495	2018	27	99-108	1.34	2.340	

14.18	Linul, E; Movahedi, N; Marsavina, L	On the Lateral Compressive Behavior of Empty and Ex-Situ Aluminum Foam-Filled Tubes at High Temperature	MATERIALS	1996-1944	2018	11	554	2.467	3.467	
14.19	Taherishargh, M; Linul, E; Broxtermann, S; Fiedler, T	The mechanical properties of expanded perlite-aluminium syntactic foam at elevated temperatures	JOURNAL OF ALLOYS AND COMPOUNDS	0925-8388	2018	27	99-108	3.779	4.779	
14.20	Movahedi, N; Linul, E; Marsavina, L	The Temperature Effect on the Compressive Behavior of Closed-Cell Aluminum-Alloy Foams	JOURNAL OF MATERIALS ENGINEERING AND PERFORMANCE	1059-9495	2018	27	99-108	1.34	2.340	
15	R. Negru, **D.A. Şerban**, C. Pop, L. Marşavina	Notch effect assessment in a PUR material using a ring shaped specimen	Theoretical and Applied Fracture Mechanics	0167-8442	2018	97	500-506	2.215		
15.1	Salavati, H., Mohammadi, H., Alizadeh, Y. et al.	3D fracture behaviour of graphite specimens weakened by Vnotches with end holes under mixed mode (I plus II) loading	ENGINEERING FAILURE ANALYSIS	1350-6307	2019	104	682-689	2.897	3.897	
15.2	Majidi, HR., Razavi, SMJ., Torabi, AR.	Application of EMC-J criterion to fracture prediction of U-notched polymeric specimens with nonlinear behaviour	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	8756-758X	2019	42	352-362	3.031	4.031	
16	**D.A. Şerban**, L. Marşavina, L. Rusu, R. Negru	Numerical study of the behavior of magnesium alloy AM50 in tensile and torsional loadings	Archive of Applied Mechanics	1432-0681	2019	89	911-917	1.578		
16.1	Kweon, S., Raja, S.	Investigation of the effects of twinning on the mechanical response of polycrystal magnesium	ARCHIVE OF APPLIED MECHANICS	1432-0681	2020			1.374	2.374	
16.2	Korkmaz, ME., Gunay, M.	Confirmation of Johnson-Cook Model Parameters for Nimonic 80A alloy by Finite Element Method	JOURNAL OF POLYTECHNIC-POLITEKNIK DERGISI	2147-9429	2020	23	625-632	2.100	3.100	
16.3	Peron, M., Bertolini, R., Ghiotti, A. et al.	Enhancement of stress corrosion cracking of AZ31 magnesium alloy in simulated body fluid thanks to cryogenic machining	JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS	1751-6161	2020	101	UNSP 103429	3.372	4.372	
16.4	Marsavina, L., Iacoviello, F., Pirvulescu, LD. et al.	Engineering prediction of fatigue strength for AM50 magnesium alloys	INTERNATIONAL JOURNAL OF FATIGUE	0142-1123	2019	127	10-15	4.369	5.369	
16.5	Korkmaz, ME., Gunay, M., Verleysen, P.	Investigation of tensile Johnson-Cook model parameters for Nimonic 80A superalloy	JOURNAL OF ALLOYS AND COMPOUNDS	0925-8388	2019	801	542-549	4.650	5.650	

16.6	Oskui, AE., Soltani, N.	Experimental and numerical investigation of the effect of temperature on mixed-mode fracture behaviour of AM60 Mg alloy	FATIGUE & FRACTURE OF ENGINEERING MATERIALS & STRUCTURES	8756-758X	2019	42	2354-2371	3.031	4.031	
									830.661	