

FIȘA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE ȘI OBLIGATORII PENTRU CONFERIREA TITLULUI DIDACTIC DE PROFESOR UNIVERSITAR

Comisia CNATDCU nr.17 – Inginerie mecanică, mecatronică și robotică și inginerie genistică și de armament

Candidat: Rotariu Adrian

Postul: Profesor universitar (și șef comisie didactică) (militar), Poziția nr. 4, Departamentul De Inginerie a Sistemelor se Armament și Mecatronică, Facultatea de Mecatronică și Sisteme Integrate de Armament, ACADEMIA TEHNICĂ MILITARĂ Ferdinand I

Nr. crt.	Domeniul activităților	Rezultatele activităților	Subcategorii		Indicatori	Indicatori realizați		
1	Activitate 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= număr	1	
					Co-autor	N1.2= număr	1	
					Format electronic disponibil pe platforma universității/departamentului (autor)		N1.3= număr	2
		Material didactic / Dezvoltare laboratoare, aplicații	A1.2	Standuri laborator (construcție/modernizări) certificate de directorul de departament		N2.1= număr	6	
				Îndrumar de laborator/carte aplicații format tipărit sau electronic (autor, co-autor)		N2.2= număr	1	
		Aplicație informatică educațională		N2.3= număr	0			
2	Activitate de cercetare științifică, dezvoltare tehnologică și inovare CDI (A2)	Articole și publicații științifice indexate Web of Science Thomson Reuters (WOS)	A2.1	Autor corespondent / prim autor	$n \leq 3$	$P1.1 = 2 \cdot (0,2 + FI)$	14,316	
					$n \geq 4$	$P1.2 = 2 \cdot 3 \cdot (0,2 + FI) / n$	4,169	
				Co-autor	$n \leq 3$	$P1.3 = 0,2 + FI$	0	
					$n \geq 4$	$P1.4 = 3 \cdot (0,2 + FI) / n$	10,841	
		Articole și publicații științifice BDI neincluse la A2.1	A2.2	Autor corespondent / prim autor		N3.1= număr	10	
				Co-autor		N3.2= număr	15	
		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	
				Nationale indexate OSIM		P2.2= același calcul cu A2.1 și FI=0,5	1,05	
		Produce, tehnologii, platform și servicii inovative (validate conform procedurilor specific unităților de învățământ superior sau de cercetare)	A2.4	Coordonator/prim autor		N4.1= număr	0	
				Co-autor		N4.2= număr	0	
		Monografii/cărți de specialitate, format tipărit/electronic (min.100 pag.)	A2.5	Coordonator/prim autor		N4.3= număr	2	
				Co-autor		N4.4= număr	1	
3	Recunoașterea și impactul activității RIA (A3)	Atragere resurse financiare prin granturi/proiecte/contracte cu terți	A3.1	Director sau responsabil partener la grant/proiect câștigat prin competiție națională sau internațională	S1= sumă echivalentă în mii Euro	517,11		
				Membri în echipă la grant/proiect câștigat prin competiție națională sau internațională, proiecte/contracte terți	S2= sumă echivalentă în mii Euro	0		
		Prezentare/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	45	
		Citări în publicații BDI (se exclud autocitările)	A3.3	C1= numărul de citări S_{FI} = suma factorilor de impact al publicațiilor WOS în care apar citările	C= C1+S _{FI}	407,021		

Subsemnatul Rotariu Adrian-Nicolae, candidat la concursul pentru ocuparea postului de profesor universitar(și șef comisie didactică) (militar), poziția 4, Departamentul De Inginerie A Sistemelor De Armament Și Mecatronică, Facultatea De Mecatronică Și Sisteme Integrate De Armament, Geniu și Mecatronică, ACADEMIA TEHNICĂ MILITARĂ Ferdinand I, arondat Comisiei de Specialitate CNATDCU Nr. 17, Inginerie Mecanică, Mecatronică Și Robotică și inginerie genistică și de armament, declar pe propria răspundere, cunoscând prevederile art. 326 privind falsul în declarații, din Legea 286/2009 - Codul Penal, că sunt îndeplinite toate Standardele minimale prevăzute de Metodologia ATM pentru înscrierea la concurs si OMECTS 6129/2016, în momentul înscrierii la concurs, și susțin veridicitatea informațiilor prezentate în dosar și în materialul de mai sus. Lucrările considerate a fi incluse in Baza WOS sau în alte Baze de Date Internaționale [BDI] sunt vizibile in aceste baze și pe site-urile jurnalelor, in dreptul numelui candidatului, la această dată.

Data: 29.07.2022

Candidat:

Condiții minimale și obligatorii				Indicatori realizați
Domeniul de activitate		Indicatori		
Activitate didactică și profesională DID (A1)	A1.1	N1	2	4
		N1.1	1	1
		N1.2	0	1
	A1.2	N1.3	1	2
		N2	4	7
		N2.1	2	6
Activitate de cercetare științifică, dezvoltare tehnologică și inovare CDI (A2)	A2.1 + A2.3	P1+P2	10	30,376
		P1	6	29,326
	A2.2	N3	10	27
		N3.1	5	10
	A2.4 + A2.5	N4	2	3
		N4.3	1	2
N4.4	1	1		
Recunoașterea și impactul activității – RIA (A3)	A3.1	S1+S2	50	517,11
	A3.2	N5	10	45
	A3.3	C	25	407,021

unde:

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

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

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

**FIȘA DE CALCUL ȘI DE SUSȚINERE A ÎNDEPLINIRII STANDARDELOR MINIMALE
SPECIFICE DOMENIULUI INGINERIE MECANICĂ, MECATRONICĂ ȘI ROBOTICĂ ȘI
INGINERIE GENISTICĂ ȘI DE ARMAMENT**

Candidat: Rotariu Adrian-Nicolae

Postul: Profesor universitar (și șef comisie didactică) (militar), Poziția nr. 4,
Departamentul De Inginerie a Sistemelor de Armament și Mecatronică,
Facultatea de Sisteme Integrate de Armament, Geniu și Mecatronică,
ACADEMIA TEHNICĂ MILITARĂ Ferdinand I

I. Activitate didactică și profesională DID (A1)

A1.1 Manuale suport de curs

Criteriul N1.1

1. **Rotariu Adrian-Nicolae**, *Balistica Terminală*, Editura Academiei Tehnice Militare , 2017, ISBN 978-973-640-270-8, 230 pag. – punctaj 1

Criteriul N1.2

1. Florina BUCUR, Cristian Emil MOLDOVEANU, **Adrian-Nicolae ROTARIU** *Modelarea și simularea fenomenelor aerodinamice cu aplicații în domeniul sistemelor de armament*, Editura Academiei Tehnice Militare Ferdinand I, 2020, ISBN 978-973-640-324-8, 140 pag. – punctaj 1

Criteriul N1.3

1. **Rotariu Adrian-Nicolae**, *Modelling and simulation for ballistic protection*, 2015, Platforma e-learning a Academiei Tehnice Militare „Ferdinand I”, – punctaj 1
2. **Rotariu Adrian-Nicolae**, *Balistica interioara*, 2022, Platforma e-learning a Academiei Tehnice Militare „Ferdinand I”, – punctaj 1

Punctaj criteriu N1.1 – 1p

Punctaj criteriu N1.2 – 1p

Punctaj criteriu N1.3 – 2p

Punctaj criteriu N1 – 4p

A1.2 Material didactic / Dezvoltare laboratoare, aplicații

Criteriul N2.1

1. **Sistemul de Bare Hopkinson** – Laboratorul de testare în regim dinamic al materialelor – punctaj 1
2. **Sistem pentru măsurarea undelor de soc in aer** – Lab. de testare în regim dinamic al materialelor – pct. 1
3. **Stand pentru efectuarea testului balistic DOP si DOP modificat** – Laboratorul de testare în regim dinamic al materialelor – punctaj 1
4. **Stand pentru măsurarea forței de compresiune la solicitarea in regim dinamic a specimenelor încărcate prin impact** – Laboratorul de testare în regim dinamic al materialelor – punctaj 1
5. **Stand pentru provocarea delaminării controlate a epruvetelor prin impact** - Laboratorul de testare în regim dinamic al materialelor – punctaj 1
6. **Stand pentru testarea căștilor de protecție** – Lab. de testare în regim dinamic al materialelor – punctaj 1

Criteriul N2.2

1. Eugen Trană, **Adrian-Nicolae Rotariu**, Bogdan Pulpea, *Calculul și construcția munițiilor. Îndrumar de laborator*, Editura Academiei Tehnice Militare, 2019, ISBN 978-973-640-302-6 – punctaj 1

Criteriul N2.3 -

Punctaj criteriu N2.1 – 6p

Punctaj criteriu N2 – 7p

I. Activitate de cercetare științifică, dezvoltare tehnologică și inovare CDI (A2)

A2.1 Articole și publicații științifice indexate Web of Science Thomson Reuters

Criteriul P1

<i>Nr. crt.</i>	<i>Autori, denumire articol, revista</i>	<i>Factor de impact / an</i>	<i>Criteriul P1.1</i>	<i>Criteriul P1.2</i>	<i>Criteriul P.1.3</i>	<i>Criteriu l P1.4</i>
1	Rotariu, Adrian-Nicolae , Eugen Trană, and Liviu Matache. "Young's Modulus Calculus Using Split Hopkinson Bar Tests on Long and Thin Material Samples, <i>Materials</i> , 15, no. 9: 3058. (On-line ISSN 1996-1944) 2022.	3,748 / 2021-2022	7,696			
2	Florina BUCUR, Eugen TRANĂ, Adrian ROTARIU^{a,c} , <i>Numerical and experimental study on the locally blast loaded polyurea coated steel plates</i> , <i>Materiale Plastice</i> , ISSN 0025-5289 (On-line ISSN 2668-8220), Vol.56 (3), pp. 492-499, 2019, WOS:000487764000005	1,517 / 2019	3,434	-	-	-
3	Eugen TRANĂ, Florina BUCUR, Adrian N. ROTARIU^{a,c} , <i>On the fragmentation of explosively-driven plastic/steel layered cylinders</i> , <i>Materiale Plastice</i> , ISSN 0025-5289 (On-line ISSN 2668-8220), vol.55 (4), pp 521-523, 2018, WOS:000454987400013	1,393 / 2018	3,186	-	-	-
4	A. Rotariu , Eugen Trana, Liviu Matache, Marius-Valeriu Cirmaci-Matei, Simona Sandu, Cristian-Emil Moldoveanu, Florina Bucur, <i>Experimental Study on the Dynamic Response of Polyurethane/fly Ash Ceramic Foam</i> , <i>Mater. Plast.</i> , 58 (1), 2021, 106-112	0,782 / 2021-2022	-	0,841	-	-
5	Rotariu Adrian , Trană Eugen, Dima Cornel, Enache Constantin, Timplaru Florin, Matache Liviu, <i>Uninstrumented measurement method for granular porous media blast mitigation assessment</i> , <i>Experimental Techniques</i> , ISSN 0732-8818 (Online ISSN: 1747-1567), vol.40, issue 3, pp. 993-1003, 2016, WOS:000384753400009	1,167 / 2021-2022	-	1,367	-	-

Nr. crt.	Autori, denumire articol, revista	Factor de impact / an	Criteriul P1.1	Criteriul P1.2	Criteriul P.1.3	Criteriul P1.4
6	Eugen TRANĂ, Adrian N. ROTARIU ^{a,c} , Traian ROTARIU, Bogdan Gh. PULPEA, Cristian E. MOLDOVEANU , Florina BUCUR , Liviu C. MATAACHE, Michael GOZIN, <i>Experimental study on aluminum foils use in blast enhancement application</i> , Proceedings of the Romanian Academy, Series A, ISSN 1454-9069, vol.20, no.3, pp.275-282, 2019, WOS:000485880200008	1,294 / 2019		1,120		
7	Adrian ROTARIU , Florina BUCUR, Gabriela TOADER, Marin LUPOAE, Alin SAVA, Pamfil ȘOMOIAG, Marius CIRMACI-MATEI, <i>Experimental Study on Polyurea Coating Effects on Deformation of Metallic Plates Subjected to Air Blast Loads</i> , Materiale Plastice, ISSN 0025-5289 (On-line ISSN 2668-8220), vol. 53, no. 4, pp 670-674, 2016, WOS:000395047100020	0,782 / 2021-2022		0,841		
8	Constantin Enache, Eugen Trană, Traian Rotariu, Adrian Rotariu , Viorel Tudor Țigănescu, Teodora Zecheru, <i>Numerical simulation and experimental tests on explosively-induced water jets phenomena</i> , Propellants, Explosives, Pyrotechnics, ISSN 0721-3115 (Online ISSN: 1521-4087), vol.41(6), pp. 1020-1028, 2016, WOS:000390799100009	2,134 / 2021-2022	-	-	-	1,167
9	Mitrica, D.; Badea, I.C.; Olaru, M.T.; Serban, B.A.; Vonica, D.; Burada, M.; Geanta, V.; Rotariu, A.N. ; Stoiciu, F.; Badilita, V.; Licu, L., <i>Modeling and Experimental Results of Selected Lightweight Complex Concentrated Alloys, before and after Heat Treatment</i> , Materials, ISSN: 1996-1944, 2020, vol. 13, 4330, WOS:000587159700001	3,748 / 2021-2022				1,086
10	Gabriela Toader, Edina Rusen, Mircea Teodorescu, Aurel Diacon, Paul O. Stanescu, Celina Damian, Traian Rotariu, Adrian Rotariu , <i>New polyurea MWCNTs nanocomposite films with enhanced mechanical properties</i> , Journal of Applied Polymer Science, ISSN 0021-8995, eISSN: 1097-4628, vol.134, nr. 28, 2017, WOS:000399761500017	3,057 / 2021-2022	-	-	-	1,221

Nr. crt.	Autori, denumire articol, revista	Factor de impact / an	Criteriul P1.1	Criteriul P1.2	Criteriul P.1.3	Criteriul P1.4
11	Gabriela Toader, Edina Rusen, Mircea Teodorescu, Aurel Diacon, Paul O. Stanescu, Traian Rotariu, Adrian Rotariu , <i>Novel polyurea polymers with enhanced mechanical properties</i> , Journal of Applied Polymer Science, Vol.133, nr. 38, octombrie 2016, ISSN 0021-8995, eISSN: 1097-4628 WOS:000380005700022	3,057 / 2021-2022	-	-	-	1,395
12	A. Gavrus , F. Bucur , A. Rotariu , S. Cananau, <i>Mechanical behavior analysis of metallic materials using a Finite Element modeling of the SHPB test, a numerical calibration of the bar's elastic strains and an inverse analysis method</i> , International Journal of Material Forming, ISSN: 1960-6206 (Online ISSN: 1960-6214), 8, pag. 567–579, 2015, WOS:000360829700007	2,378 / 2021-2022	-	-	-	1,933
13	Victor Geantă, Ionelia Voiculescu, Tudor Cherecheș, Teodora Zecheru, Liviu Matache, Adrian Rotariu , <i>Behavior to Dynamic Loads of Multi-layer Composite Structures</i> , Materiale Plastice, ISSN 0025-5289 (On-line ISSN 2668-8220) vol. No. 2, 2019, pp.460-465, WOS:000476641000034	1,517 / 2019	-	-	-	0,858
14	Eugen TRANĂ, Adrian-Nicolae Rotariu , Paul Lixandru, Liviu-Cristian Matache, Constantin Enache, Teodora Zecheru, <i>Experimental and numerical investigation on 6082 0 temper aluminium alloy cartridge tubes drawing</i> , Journal of Materials Processing Technology, ISSN 0924-0136, vol. 216, pp. 59-70, 2015, WOS:000347020800007	6,162 / 2021-2022	-	-	-	3,181
TOTAL CRITERII			14,316	4,169	0	10,841
TOTAL GENERAL			29,326			

Punctaj criteriu P1 – 29,326p

Criteriul P2.1

Nr. crt.	Autori, denumire brevet, nr. brevet	Factor de impact	Criteriul P2.1	Criteriul P2.2
1	Gentă Victor, Voiculescu Ionelia, Rotariu Adrian , Dumitru Mitrică, Aliaje cu entropie înaltă din sistemul multi-element HaMoNiNbTaW destinate fabricării penetratoarelor cu energie cinetică ridicată și procedeu de consolidare, OSIM-134976 A2	0,5	1,05	

Criteriul P2.2

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Punctaj criteriu P2 – 1,05p

Punctaj criteriu P1+P2 – 30,376p

A2.2 Articole și publicații științifice BDI neincluse la A2.1

Criteriul N3.1

Nr. crt.	Autori, Denumire lucrare științifică, revista	Baza de date	Punctaj
1	Rotariu A. , Trană E., Tîmplaru F., Matache L., Badea S., Cherecheș T., <i>On attenuation properties of blast wave through perlite</i> , Book Series: Proceedings of the International Conference ModTech, ISSN 2066-3919, pp 499-502, 2010, WOS 000282604000122	WOS	1
2	Tîmplaru F., Rotariu A. ^{a,c} , Trană E., Matache L., <i>Experimental researches on attenuation properties of blast wave through perlite</i> , Book Series: Knowledge Based Organization International Conference, ISSN 1843-6722, pp 336-340, 2010, WOS 000297596200059	WOS	1
3	Rotariu, A.-N. , Matache, L., Bucur, F., Cirmaci-Matei, M.V., Mărmureanu, M., Trană, E., <i>Implementation of a Gumbel distribution function in interior ballistic calculations for deterred propellants</i> , UPB Scientific Bulletin, Series B: Chemistry and Materials Science, ISSN 1454-2331, Volume 82, Issue 1, pp 167-178, 2020, WOS:000550837300014	WOS	1
4	Liviu-Cristian Matache, T. Cherecheș, P. Lixandru, A. Mazuru, D. Mitrică, P. Șomoiag, E. Trană, A.N. Rotariu ^{a,c} , <i>Determination of a methodology for formulating constituent models of high entropy alloys</i> , IOP Conference Series Materials Science and Engineering 591:012058, 2019, WOS:000562929900058	WOS	1
5	Liviu-Cristian Matache, P. Lixandru, T. Cherecheș, A. Mazuru, D. Cherecheș, V. Geantă, I. Voiculescu, E. Trană, A.N. Rotariu ^{a,c} , <i>Determination of material constants for high strain rate constitutive model of high entropy alloys</i> , IOP Conference Series Materials Science and Engineering 591:012057, 2019, WOS:000562929900057	WOS	1
6	Matache, L., Puică, C., Rotariu, A. ^{a,c} , Trană, E., Bucur, F., <i>Numerical simulation of military ground vehicle's response to mine-blast load</i> , UPB Scientific Bulletin, Series D: Mechanical Engineering, Volume 80, Issue 4, 2018, pp 153-162, Scopus - Document details	SCOPUS	1
7	Rotariu A.N. , Bucur F., Cirmaci-Matei M.V., Matache L.C. and Trana E. ^{a,c} , <i>Development of the analytic relations for the propellant grain geometrical</i>	SCOPUS	1

	<i>characteristics required for a maximum pressure plateau feature</i> , IOP Conference Series Journal of Physics 1507:022025, 2020, doi:10.1088/1742-6596/1507/2/022025, Scopus - Document details		
8	Rotariu. A. , Chereches, T., <i>Dedicated software application for split hopkinson pressure bar and its critical assessment</i> , Annals of DAAAM for 2007 & Proceedings of the 18th International DAAAM Symposium: Intelligent Manufacturing & Automation: Focus on creativity, responsibility, and ethics of engineers, Zadar, Croatia, 2007 (pp 651-652, ISBN 978-3-90150-958-2), WOS:000252067400326	WOS	1
9	Rotariu, A; Marmureanu, M, <i>A Numerical Study on the Effect of Explosive Reactive Armour on a Lightweight Armoured Vehicle's Hull</i> , Proceedings of 1st WSEAS Int Conf on Finite Difference, Finite Elements, Finite Volumes, Boundary Elements, Malta, 2008, WOS:000260248200016	WOS	1
10	Rotariu, A, Cirmaci, MV, Nutu, V, Istode, L, Tiganescu V, <i>A new model of projectile ballistic acceleration process based on closed vessel experimental data</i> , Proceedings of 12th WSEAS International Conference on APPLIED MATHEMATICS, Cairo, Egipt, 2007, WOS:000252771600016	WOS	1
TOTAL			10

Criteria N3.2

Nr. crt.	Autori, Denumire lucrare științifică, revista	Baza de date	Punctaj
1	Bucur F., Rotariu A. , Trană E. ^{a,c} , Ștefan A., <i>Experimental and numerical study on the mitigation capability of some special design structures</i> , International Journal of Modern Manufacturing Technologies, ISSN 2067-3604, Vol. XII, No. 1/2020, pp 7-15, Scopus - Document details	SCOPUS	1
2	Bucur F., Rotariu A. , Matache L., Baciuc F., Jiga G., Trană E. ^{a,c} , <i>Experimental and Numerical Study on the Behavior of HB26 Dyneema Composite in Compression</i> , Materiale Plastice, ISSN 0025-5289 (On-line ISSN 2668-8220), vol.57 (2, pp. 113-122), 2020, WOS:000579451200012	WOS	1
3	Florina Bucur, Eugen Trană, Adrian Rotariu , Adinel Gavruș, Cristian Barbu, Dominique Guines, <i>Experimental and numerical analysis concerning the behaviour of OL50 steel grade specimens coated with polyurea layer under dynamics loadings</i> , The European Physical Journal Conferences, ISSN 2100-014X, vol.94/2015, WOS:000372587700156	WOS	1
4	L.Matache, A.Rotariu , L.Paschia, I.Safta, <i>A dimensional analysis of transducers mounts used in measurements of impulsive loads of structures</i> , Proceedings of 17th International Conference on the Knowledge-Based Organization, pag. 110-114 Sibiu, 2011, ISSN 1843-6722, WOS:000393448400018	WOS	1
5	Voiculescu, I., Geantă, V., Ștefănoiu, R., Adrian N. ROTARIU , Mitrică, D., Crăciun, V., <i>New refractory high entropy alloys</i> , IOP Conference Series: Materials Science and Engineering, 572(1),012024, 2019, DOI: 10.1088/1757-899X/572/1/012024	SCOPUS	1
6	V Geantă, I Voiculescu, R Ștefănoiu, T Chereches, T Zecheru, L Matache, A Rotariu , <i>Dynamic Impact Behaviour of High Entropy Alloys Used in the Military Domain</i> , IOP Conf. Series: Materials Science and Engineering, 374, 012041, 2018, doi:10.1088/1757-899X/374/1/012041, WOS:000446775900041	WOS	1
7	P Turtoi, M D Pascovici, T Cicone, A N Rotariu , C C Puică, M Istrate, <i>Experimental proof of squeeze damping capacity of imbibed soft porous layers subjected to impact</i> , IOP Conf. Series: Materials Science and Engineering, 444, 022010, 2018, doi:10.1088/1757-899X/444/2/022010, WOS:000467443600010	WOS	1
8	Paschia Liviu, Rotariu Adrian , Cîrmaci Marius, Nastasescu Vasile,	WOS	1

Nr. crt.	Autori, Denumire lucrare științifică, revista	Baza de date	Punctaj
	<i>Preliminary evaluation of a new terminal ballistic test setup</i> , Applied Technical Sciences and Advanced Military Technologies, Book Series: Knowledge Based Organization International Conference, pag. 144-149, ISSN 1843 – 6722, 2011, WOS:000393448400024		
9	R M Mircioagă, L C Matache, A Rotariu , M Cîrmaci, P Șomoiag, L Haller, A Rancea, <i>Burning law determination using numerical simulation of propellants burning in the closed vessel</i> , IOP Conference Series Materials Science and Engineering, 916, 012067, 2020, doi:10.1088/1757-899X/916/1/012067	SCOPUS	1
10	Gavrus, A, Bucur, F, Rotariu, A, Cananau, S, <i>Analysis of metallic materials behavior during severe loadings using a FE modeling of the SHPB test based on a numerical calibration of elastic strains with respect to the raw measurements and on the inverse analysis principle</i> , Key Engineering Materials, Volume 554-557, Pag. 1133-1146, 2013, ISSN: 1013-9826, WOS:000322092100128	WOS	1
11	Mihai Bugaru, Tudor Chereches, Eugen Trana, Adrian Rotariu , <i>Non-linear dynamics of geared systems using the asymptotic method. Part 1: Computation of the amplitude</i> , WSEAS Transactions on Mathematics, vol.5, issue 7, pp 943-949, ISSN 1109-2769, 2006, Scopus - Document details	SCOPUS	1
12	Mihai Bugaru, Eugen Trană, Rotariu Adrian , Ichimoaie Gheorghe, Cărtuța Sorin, Bănică Marius, <i>The damping and the dynamic stability of thin plates parametrically excited</i> , WSEAS Transactions on Mathematics, vol.5, issue 4, pp 405-408, ISSN 1109-2769, 2006, Scopus - Document details	SCOPUS	1
13	Marmureanu, M ; Rotariu, A , <i>A Computational Fluid Dynamics Investigation of Rocket Nozzle Flow for Frozen and Shifting Chemical Equilibrium</i> , Proceedings of 1st WSEAS Int Conf on Finite Difference, Finite Elements, Finite Volumes, Boundary Elements, Malta, 2008, WOS:000260248200002	WOS	1
14	Marmureanu, M, Cherechs, T, Rotariu, A , Teodora, Z, <i>Dynamic stability and commands response study method</i> , Proceedings of 12th WSEAS International Conference on APPLIED MATHEMATICS, Cairo, Egipt, 2007, WOS:000252771600009	WOS	1
15	Bugaru, M., Cherecheș, T., Rotariu, A. , Gheorghian, S., Cojocari, V. <i>The effect of geometric imperfections on the amplitude and the phase angle of the non-linear dynamic behavior of thin rectangular plates parametrically excited</i> , WSEAS Transactions on Mathematics, vol.5, issue 4, pp 379-383, ISSN 1109-2769, 2006	SCOPUS	1
16	Voiculescu, I Geanta, V; Chereches, T; Vizureanu, P; Stefanoiu, R; Rotariu, A ; Mitrica, D, <i>IMPACT BEHAVIOR OF THE BALLISTIC TARGETS PACKAGE COMPOSED OF DYNEEMA POLYMER AND HIGH ENTROPY ALLOY STRUCTURES</i> , ARCHIVES OF METALLURGY AND MATERIALS, Volume 67, Issue2, Page 569-576, 2022	WOS	1
17	Toader, G, Diacon, A, Rusen, E, Rizea, F, Teodorescu, M, Stanescu, PO, Damian, C, Rotariu, A , Trana, E, Bucur, F, Ginghina, R, <i>A Facile Synthesis Route of Hybrid Polyurea-Polyurethane-MWCNTs Nanocomposite Coatings for Ballistic Protection and Experimental Testing in Dynamic Regime</i> , POLYMERS, Volume13, Issue10, Article Number1618, DOI10.3390/polym13101618, MAY 2021	WOS	1
TOTAL			17

Punctaj criteriu N3 – 27p

A2.4 Produse, tehnologii, platform și servicii inovative (validate conform procedurilor specifice unităților de învățământ superior sau de cercetare)

Criteriul N4.1

-

Criteriul N4.2

-

A2.5 Monografii/cărți de specialitate, format tipărit/electronic (min.100 pag.)

Criteriul N4.3

1. **Rotariu Adrian-Nicolae**, *Comportamentul materialelor la viteze mari de deformare. Modelare și Testare*, Ed.Univers Științific, 2008, ISBN 978-973-8936-95-9, 159 pag. – punctaj 1
2. **Rotariu Adrian-Nicolae**, Matache Liviu-Cristian, *Metode de calcul în balistica interioară*, Editura Academiei Tehnice Militare, 2017, ISBN 978-973-640-241-8, 162 pag. – punctaj 1

Criteriul N4.4

7. - L.C. Matache, **A.N. Rotariu**, *Simularea numerică a fenomenelor dinamice cu viteze mari de deformare. Aplicații de balistică terminală*, București, Editura Academiei Tehnice Militare, 2021, ISBN 978-973-640-328-6. 138 p. – punctaj 1

Punctaj criteriu N4.3 – 2p

Punctaj criteriu N4.4 – 1p

Punctaj criteriu N4 – 3p

II. Recunoașterea și impactul activității RIA (A3)

A3.1 Atragere resurse financiare prin granturi/proiecte/contracte cu terți

Criteriul S1

Date de identificare contract	Valoare alocata ATM	Echivalent EURO*	Punctaj
Director de proiect SECURITATE 21R/2005, <i>Sistem de lansare autopropulsat multirol: pentru cercetarea, controlul, dezvoltarea si transformarea fenomenelor meteorologice</i>	90.000 RON	18200.57	18.20
Director de proiect PNII 193CI/2013 <i>Solutie neconventionala pentru reducerea riscurilor asociate functionarii accidentale a elementelor de munitie pe durata transportului cu RTEXMUN</i>	50.000 RON	10111.43	10.11
Director de proiect PNII 278/2014 <i>Sistem de protectie antiexplozie pentru echiparea vehiculelor</i>	350.000 RON	70780.00	70.77
Responsabil de proiect PNII 283/2014 <i>Structuri compozite modulare pentru protectia impotriva efectelor complexe ale dispozitivelor explozive improvizate</i>	212.000 RON	42872.45	42.87
Director de proiect A7754/12.09.2019 <i>Studiu numeric privind comportamentul autoturismului de teren blindat 4X4 – DRACON, având la bază un autoșasiu F550, la solicitările produse de inițierea unor încărcături explozive dispuse pe/în sol</i>	15.000 RON	3033.43	3.03
Responsabil de proiect 20 PCCDI/2018 <i>SISTEME DE PROTECTIE INDIVIDUALA SI COLECTIVA PENTRU DOMENIUL MILITAR PE BAZA DE ALIAJE CU ENTROPIE RIDICATA</i>	1.242.954 RON	251360.80	251.36
Director de proiect 402PED/2020 <i>Blindaj suplimentar multistrat cu plăci groase perforate oblic destinat contracarării amenințărilor cinetice de calibru mic</i>	300.000 RON	60668.57	60.66
Responsabil de proiect 44PTE/2020 <i>Casti de protectie echipate cu componente de amortizare din materiale poroase imbibate cu nanofluide</i>	297.250 RON	60112.44	60.11
TOTAL PUNCTAJ			517,11

*Observație: Pentru calculul sumelor echivalente în EURO s-a folosit cursul RON/EURO din data 05.07.2022 – 4,9449 RON/EURO

Criteriul S2

-

Punctaj criteriu S1+S2 – 547,44

A3.2 Prezentare/Diseminarea rezultatelor: prezență la manifestări științifice în calitate de autor/co-autor de lucrări, profesor invitat

Criteriul N5

Nr. crt.	Autori, Denumire comunicare științifică	Conferință, An	Punctaj
1	A. Rotariu , L. Matache, F. Bucur, F. Dirloman, P. Turtoi, C. Enescu, E. Trană ASSESMENT OF THE NON-NEWTONIAN LIQUID FILLED CELL POTENTIAL TO MITIGATE THE IMPACT FORCE	19th International Conference on Experimental Mechanics ICEM 2022, 17 - 21.07.2022, Cracovia, Polonia	1
2	Rotariu Adrian , Matache Liviu, Bucur Florina, Pulpea Bogdan, Dirloman Florin, Trană Eugen, Investigations on the delamination of pre-notched UHMWPE composite plates at the low impact velocity	European Conference on Fracture 2022, 25 iunie – 1 iulie, 2022. Funchal, Madeira, Portugalia	1

Nr. crt.	Autori, Denumire comunicare științifică	Conferință, An	Punctaj
3	Florin M. Dîrloman, Traian Rotariu, Gabriela Toader, Bogdan G. Pulpea, Mihai I. Ungureanu, Neculai D. Zvincu, Adrian N. Rotariu , Liviu C. Matache, Solvent free polyurethanic binders for pyrotechnic compositions	24th seminar „NEW TRENDS IN RESEARCH OF ENERGETIC MATERIALS”, April 6th – 8th, 2022 Pardubice, Republica Cehă	1
4	Rotariu Adrian , Trana Eugen, Bucur Florina, Matache Liviu, Petrica Turtoi <i>Practical aspects of dynamic testing of the shock absorbing materials incorporable into individual combat equipment</i> Rotariu Adrian , Bucur Florina, Constantin Puica, Adrian Malciu, <i>Considerations regarding the potential of add-on armour with perforated plates</i>	Defense Technology Forum 2021, Bulgaria, Shumen, 2021	1
5	A.-N. ROTARIU , L. MATACHE, F. BUCUR, F. DIRLOMAN, <i>Adaptation of the compression shpb test for the young's modulus calculus</i>	5th International Conference on Structural Integrity and Durability, Croația, Dubrovnik, 2021	1
6	Rotariu Adrian- Nicolae , Marius Cirmaci, <i>XIX century – “the golden age” in small caliber ammunition innovation,</i>	Vienna Strategy Conference 2021, Viena, Austria, 2021	1
7	Rotariu Adrian-Nicolae, Matache Liviu-Cristian, Trana Eugen , Bucur Florina, Cirmaci-Matei Marius-Valeriu, Mitrică Dumitru, Geantă Victor, <i>Determination of the compression strength of HEA in high strain rates tests</i>	Defense Technology Forum 2020, Bulgaria, Shumen, 2020	1
8	Rotariu A.N. , Bucur F., Cirmaci-Matei M.V., Matache L.C. and Trana E., <i>Development of the analytic relations for the propellant grain geometrical characteristics required for a maximum pressure plateau feature</i>	2020 International Conference on Defence Technology, China, (on-line)	1
9	A. Rotariu, E. Trana , L. Matache, F Bucur, <i>On determination of strain field in the necking section of a round specimen based on the measurement of the exterior necking profile</i>	4th International Conference on Structural Integrity and Durability, Croația, Dubrovnik, 2020	1
10	Florina Bucur, Adrian Rotariu, Gabriel Jiga, Florin Baci, Eugen Trană , <i>On the experimental testing procedures for ultra-high molecular weight polyethylene (UHMWPE) behaviour evaluation in static and dynamic regime</i>	The 6th International Scientific Conference SEA-CONF 2020, Constanța, România, 2020 (on-line)	1
11	R M Mircioagă, L C Matache, A Rotariu , M Cîrmaci, P Șomoiaș, L Haller, A Rancea, <i>Burning law determination using numerical simulation of propellants burning in the closed vessel</i>	ModTech 2020 International Conference, România (on-line)	1
12	Rotariu Adrian- Nicolae, Matache Liviu, Bucur Florina, Marius Cirmaci, Marmureanu Marius, Trana Eugen , <i>Implementation of a gumbel distribution function in interior ballistic calculations for deterred propellants</i>	31st International Symposium on Ballistics, India, Hyderabad, 2019	1
13	A. Rotariu , L. Matache, F. Bucur, <i>The mechanical characterization of Light weight high entropy alloys,</i>	29th International Workshop on Computational Mechanics of Materials, Dubrovnik, Croatia, 2019	1
14	Liviu-Cristian Matache, P. Lixandru, T. Cherecheș, A.	ModTech 2019 International	1

Nr. crt.	Autori, Denumire comunicare științifică	Conferință, An	Punctaj
	Mazuru, D. Cherecheș, V. Geantă, I. Voiculescu, E. Trană, A.N. Rotariu , <i>Determination of material constants for high strain rate constitutive model of high entropy alloys</i>	Conference, România, Iași, 2019	
15	Voiculescu, I., Geantă, V., Ștefănoiu, R., Adrian N. ROTARIU , Mitrică, D., Crăciun, V., <i>New refractory high entropy alloys</i>	International Conference on Innovative Research - ICIR EUROINVENT, 2019	1
16	V Geantă, I Voiculescu, R Ștefănoiu, T Chereches, T Zecheru, L Matache, A Rotariu , <i>Dynamic Impact Behaviour of High Entropy Alloys Used in the Military Domain</i>	International Conference on Innovative Research - ICIR EUROINVENT, 2018	1
17	Rotariu Adrian , Trana Eugen, Marmureanu Marius, <i>On the implementation of a nonlinear continuous deterred/undeterrred transition profile for an interior ballistic model</i>	Workshop GSEBS 2018, Brest, Franta, 2018	1
18	Adrian Rotariu , Eugen Trană, <i>On the development of an interior ballistic model for small caliber armor piercing ammunition</i>	International Scientific Conference "Defense Technologies", Faculty of Artillery, Air Defense and Communication and Information Systems, Bulgaria, Shumen, 2018	1
19	Dumitru Mitrică, Victor Geantă, Ionelia Voiculescu, Radu Ștefănoiu, Adrian Rotariu , Elena Scutelnicu, Ionel Dănuț Savu, <i>Individual and collective protection systems for the military field based on high entropy alloys</i>	1st International Conference on Emerging Technologies in Materials Engineering EmergeMAT, Bucharest, Romania, 2018	1
20	P Turtoi, M D Pascovici, T Cicone, A N Rotariu , C C Puică, M Istrate, <i>Experimental proof of squeeze damping capacity of imbibed soft porous layers subjected to impact</i>	The 8th International Conference on Advanced Concepts in Mechanical Engineering, Iasi, Romania, 2018	1
21	Tudor V. Țigănescu, Eugen Trană, Adrian Rotariu , Marin Lupoae, Ovidiu G. Iorga, Andreea E. Voicu, <i>Experimental testing setup for study of Ti/steel foam/Ti sandwich plate behavior</i>	New trends in research of energetic materials, Republica Cehă, Pardubice, 2017	1
22	Adrian Rotariu , Eugen TRANĂ, Traian ROTARIU, Florina BUCUR, <i>On the effect of reactive envelopes on blast parameters</i>	International Conference 'Greener and Safer Energetic and Ballistic Systems', România, București, 2016	1
23	Adrian Rotariu , Eugen Trană, Marius Cîrmaci-Matei, Simona Badea, <i>Static and dynamic measurements of polyurethane foam strength and energy absorption capacity</i>	International Conference on Nanoscience, Nanotechnology and Advanced Materials (IC2NAM), UAE, Abu Dhabi, 2016	1
24	Rotariu Adrian , Trană Eugen, Rotariu Traian, Bucur Florina, Matache Liviu, Iorga Ovidiu, Badea Simona, <i>The effect of an annular boric acid layer on the blast wave generated at explosive charge detonation,</i>	New Trends in Research of Energetic Materials 2016, Pardubice, Republica Ceha, 2016	1
25	Gabriela Toader, Edina Rusen, Mircea Teodorescu, Aurel Diacon, Paul O. Stanescu, Traian Rotariu, Adrian Rotariu , <i>New types of polyurea nanocomposites with enhanced mechanical properties,</i>	International Conference of POLYMERS AND ORGANIC CHEMISTRY 2016, Hersonissos, Creta, Grecia,	1

Nr. crt.	Autori, Denumire comunicare științifică	Conferință, An	Punctaj
		2016	
26	A. Rotariu , F. Bucur, E. Trană, M. Cîrmaci-Matei, L. Matache, <i>FEM analysis of material strain rate sensitivity influence on usability of small-scale structures in blast loads analysis</i>	8th International Conference on Finite Differences, Finite Elements, Finite Volumes, Boundary Elements, Italia, Roma, 2015	1
27	Eugen TRANĂ, Adrian Rotariu , Florina BUCUR, <i>Numerical simulation study on the ring</i>	International Conference ‘Greener and Safer Energetic and Ballistic Systems’, Romania, București, 2015	1
28	Florina Bucur, Eugen Trana, Adrian Rotariu , Adinel Gavrus, Cristian Barbu and Dominique Guines, <i>Experimental and numerical analysis concerning the behaviour of OL50 steel grade specimens coated with polyurea layer under dynamics loadings</i>	11th International DYMAT Conference, Lugano, Elveția, 2015	1
29	Matache L., Rotariu A. , Trana E., Paschia L., Timplaru F., Badea S., Safta I., <i>A dimensional analisys of transducer mounts used in measurements of impulsive loads of structures</i>	Proceedings of the 17 th International Scientific Conference Knowledge-Based Organization, România, Sibiu, 2011	1
30	Adrian Rotariu , Eugen TRANĂ, Florin Tîmplaru, Liviu Matache, Simona Badea, Tudor Cherecheș, <i>On attenuation Properties of blast wave through perlite</i>	ModTech 2010 International Conference, România, Iași, 2010	1
31	Matache L., Cherecheș T., Rotariu A. , Sava A., <i>Modeling flow into the barrel – a method of solving the directly problem of the inner ballistics</i>	Construcțiile de mașini și tehnosfera în secolul al XXI-lea – A XVI Conferință cu participare internațională, Sevastopol, Ucraina, 2009	1
32	Rotariu, A ; Marmureanu, M, <i>A Numerical Study on the Effect of Explosive Reactive Armour on a Lightweight Armoured Vehicle's Hull,</i>	1st WSEAS Int Conf on Finite Difference, Finite Elements, Finite Volumes, Boundary Elements, Malta, 2008	1
33	Marmureanu, M, Cherechs, T, Rotariu, A , Teodora, Z, <i>Dynamic stability and commands response study method</i>	12th WSEAS International Conference on APPLIED MATHEMATICS, Cairo, Egipt, 2007	1
34	Rotariu, A. , <i>Software application for characterization of viscoplastic behavior of metals at high strain rates using split hopkinson pressure bar data</i>	11th International Research/Expert Conference “Trends in the Development of Machinery and Associated Technology”, Tunisia, Hammamet, 2007	1
35	Rotariu Adrian , Bugaru Mihai, Chereches Tudor, <i>Finite Elements Method in Split Hopkinson Pressure Bar Developing</i>	6 th WSEAS Int. Conf. on System Science and Simulation in Engineering, Italia, Veneția, 2007	1
36	Rotariu. A. , Chereches, T., <i>Dedicated software application for split hopkinson pressure bar and its critical assessment</i>	Annals of DAAAM for 2007 & Proceedings of the 18th International DAAM Symposium <i>Intelligent manufacturing & automation:</i>	1

<i>Nr. crt.</i>	<i>Autori, Denumire comunicare științifică</i>	<i>Conferință, An</i>	<i>Punctaj</i>
		<i>focus on creativity, responsibility and ethics of engineers, Croatia, Zadar, 2007</i>	
37	Mihai Bugaru, Tudor Chereches, Eugen Trana, Adrian Rotariu , <i>Non-linear dynamics of geared systems using the asymptotic method. Part 1: Computation of the amplitude</i>	9th WSEAS International Conference on Applied Mathematics, Turcia, Istanbul, 2006	1
38	Bugaru, M., Cherecheș, T., Rotariu, A. , Gheorghian, S., Cojocari, V. <i>The effect of geometric imperfections on the amplitude and the phase angle of the non-linear dynamic behavior of thin rectangular plates parametrically excited</i>	IASME/WSEAS International Conference on Continuum Mechanics, Grecia, Chalkida, 2006	1
39	Adrian Rotariu , Marius Cirmaci, Catalin Surdu, Marius Mărmureanu, <i>Caliber recognition of an unknow threat using external ballistic parameters</i>	International Symposium on Defence Technology, National Defence University, Budapest, Hungary, 2006	1
40	Adrian N. Rotariu , E. Trana, T. Chereches, <i>Fast Fourier Transform in Split Hopkinson Pressure Bar tests</i>	The 31 th Internationally Scientific Conference of the Military Technical Academy, București, 2005	1
41	Trană E., Cherecheș T., Rotariu A. , <i>Aspects regarding FEM in Taylor tests</i>	Conferința Tehnologii moderne, calitate, restructurare, Universitatea Tehnică a Moldovei din Chișinău, Moldova, Chișinău, 2005	1
42	Cherecheș T., Trană E., Rotariu A. , Matache L., <i>Mathematic models and computing programs regarding internal ballistics</i>	The XII International Conference „Machine building and technosphere of the XXI century”, Ucraina, Donetsk, 2005	1
43	Cherecheș T., Lixandru P., Trană E., Rotariu A. , <i>Soil influence on stress and strain field of a mortar baseplate during the firing process</i>	The 30 th Internationally Scientific Conference of the Military Technical Academy, România, București, 2003	1
44	Trană E., Balog P., Rotariu A. , Cherecheș T., <i>Considerații privind particularitățile glonțului tunel</i>	Conferința Tehnologii moderne, calitate, restructurare, Universitatea Tehnică a Moldovei din Chișinău, Moldova, Chișinău, 2003	1
45	Trană E. , Barbu C., Rotariu A., <i>Subsonic experimental measurements for tunnel bullet</i>	6 TH Conference on weapon systems, Cehia, Brno, 2003	1
TOTAL			45

Punctaj criteriu N5 – 45p

A3.3 Citări în publicații BDI (se exclud autocitările)

Criteriul C

Nr. crt.	Titlul articol	Citari	IF citari (2021)	Nr. citari
1	Constantin Enache, Eugen Trană , Traian Rotariu, Adrian Rotariu, Viorel Tudor Țigănescu, Teodora Zecheru, <i>Numerical simulation and experimental tests on explosively-induced water jets phenomena</i> , Propellants, Explosives, Pyrotechnics, ISSN 0721-3115 (Online ISSN: 1521-4087), vol.41(6), pp 1020-1028, DOI 10.1002/prep.201500322, WOS:000390799100009	Malciu Adrian, Puică Constantin-Cristinel, Pupăză Cristina, Pintilie Daniela, Iancu Florinel, <i>Research on the mitigation of shaped charge effect</i> , Proceedings of the Romanian Academy, Series A, ISSN 1454-9069, Volume 21, Number 3/2020, pp. 281–290	0,734	1
		Mahto V., Pradhan D., Deodhar R.S., <i>Parametric profiling of water-jet projectiles for eod disruptor using high-speed imaging technique</i> , Proceedings - 31st International Symposium on Ballistics, BALLISTICS 2019 Volume 1, 2019, Pages 878-883, ISBN: 978-160595610-7	0	1
		Florea, A.-M., Iordache, T.-V., Branger, C., Brisset, H., Zaharia, A., Radu, A.-L., Hubca, G., Sârbu, A., <i>One-step preparation of molecularly imprinted hollow beads for pseudohypericin separation from Hypericum perforatum L. extracts</i> , European Polymer Journal, 100, pp. 48-56	5,546	1
		Parate BA, Chandel S, Shekhar H, <i>An experimental and numerical approach - characterisation of power cartridge for water-jet application</i> , Defence Technology (2018), doi: 10.1016/j.dt.2018.04.003.	4,035	1
		Parate, B.A., Chandel, S., Shekhar, H., <i>Cartridge case design and its analysis by bilinear, kinematic hardening model</i> , Advances in Military Technology 14(2), pp. 231-243, 2019, ISSN 1802-2308	0	1
		Lupoae, M., Baci, C., Constantin, D., <i>Metallic doors under explosive charges detonation</i> , ICMT 2017 - 6th International Conference on Military Technologies 7988769, pp. 273-277	0	1
		Ungureanu, MI, Matache, LC, Rotariu, T, Barbu, C, Dirloman, FM, <i>HIGH BLAST EXPLOSIVE COMPOSITION FOR ANNULAR THERMOBARIC AMMUNITIONS</i> U.P.B. Sci. Bull., Series B, Volume 83, Issue 4, Page 263-272, 2021	0	1
2	Florina Bucur, Eugen Trană, Adrian Rotariu , Adinel Gavruș, Cristian Barbu, Dominique Guines, <i>Experimental and numerical analysis concerning the behaviour of OL50 steel grade specimens coated with polyurea layer under dynamics loadings</i> , The European Physical Journal Conferences, ISSN 2100-014X, vol.94/2015, DOI: 10.1051/epjconf/20159404044, WOS:000372587700156	Liviu-Cristian MATACHE, Luminita-Cristina ALIL, Traian ROTARIU, Simona-Maria SANDU, Constantin PUICA, Cristian BARBU, Teodora ZECHERU, <i>Numerical validation of a constitutive model for UHMWPE-based composites at high strain rates</i> , U.P.B. Sci. Bull., Series B, Vol. 80, Iss. 3, pp.229-246, 2018, ISSN 1454-2331	0	1
3	Eugen TRANĂ , Adrian-Nicolae Rotariu, Paul Lixandru, Liviu-Cristian Matache, Constantin	Emre Doruk and Murat Pakdil, <i>Effect of tempering conditions on the fatigue behavior of an AA 6082 aluminum alloy</i> ,	2,528	1

Nr. crt.	Titlul articol	Citari	IF citari (2021)	Nr. citari
	Enache, Teodora Zecheru, <i>Experimental and numerical investigation on 6082 0 temper aluminium alloy cartridge tubes drawing</i> , Journal of Materials Processing Technology, ISSN 0924-0136, vol.216, pp 59-70, 2015, DOI 10.1016/j.jmatprotec.2014.08.32, WOS:000347020800007	Materials Testing, ISSN 0025-5300, vol. 58, no. 6, pp. 542-546, doi 10.3139/120.110888, 2016.		
		Mohd Nor, M.K., Ma'at, N., Ho, C.S., Samad, M.S.A., <i>An anisotropic deformation analysis of orthotropic materials subjected to high velocity impacts</i> , International Journal of Mechanical and Mechatronics Engineering 17(5), pp. 156-172	0	1
		Chen, X., Peng, Y., Peng, S., Yao, S., Chen, C., Xu, P., <i>Flow and fracture behavior of aluminum alloy 6082-T6 at different tensile strain rates and triaxialities</i> , PlosOne, Volume 12, Issue 7, July 2017, Article number e0181983	3,752	1
		Mohd Nor, M.K., Ma'at, N., Ho, C.S., <i>Modeling Dynamic Anisotropic Behaviour and Spall Failure in Commercial Aluminium Alloys AA7010</i> , Journal of Dynamic Behavior of Materials, ISSN 2199-7446, 4(2), pp. 201-209, 2018	0	1
		Liviu-Cristian MATAACHE, Luminita-Cristina ALIL, Traian ROTARIU, Simona-Maria SANDU, Constantin PUICA, Cristian BARBU, Teodora ZECHERU, <i>Numerical validation of a constitutive model for uhmwpe-based composites at high strain rates</i> , U.P.B. Sci. Bull., Series B, Vol. 80, Iss. 3, pp.229-246, 2018, ISSN 1454-2331	0	1
		Dong J., Wang S., Zhou J., Ma C., Wang S., Yang B., <i>An improved model for predicting the shearing process of stainless steel thin-walled tubes in the closed fuel cycle</i> , Thin-Walled Structures, Volume 157, December 2020, Article number 107101	5,881	1
		Parate, BA, Khandagale, SS, Chandel, S, Shekhar, H, <i>Design Analysis of Brass Cartridge Case for Water Disruptor Application</i> , ADVANCES IN SIMULATION, PRODUCT DESIGN AND DEVELOPMENT, Page 759-772, 2020	0	1
4	Rotariu Adrian , Trană Eugen, Dima Cornel, Enache Constantin, Timplaru Florin, Matache Liviu, <i>Uninstrumented measurement method for granular porous media blast mitigation assessment</i> , Experimental Techniques, ISSN 0732-8818 (Online ISSN: 1747-1567), vol.40, issue 3, pp. 993-1003, 2016, DOI 10.1007/s40799-016-0099-4, WOS:000384753400009, 2016	Adrian Malciu, Constantin-Cristinel Puică, Cristina Pupaza, Daniela Pintilie, Florinel Iancu, <i>Research on the mitigation of shaped charge effect</i> , Proceedings of the Romanian Academy - Series A: Mathematics, Physics, Technical Sciences, Information Science 21(3):281-290, 2020	0,734	1
		Waldemar A. Trzcinski, Qi-Long Yan, Stanislaw Cudzilo, Eugen Trană, Liviu Matache, Traian Rotariu, Robert Matyas, Svatoopluk Zeman, Michael Gozin, <i>Thermobaric effects formed by aluminium foils enveloping cylindrical charges</i> , Combustion and Flame, ISSN	5,767	1

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TOTAL			307,021	100