

FIȘĂ DE VERIFICARE
a îndeplinirii standardelor minimale

Comisia CNATDCU nr 3 – Inginerie mecanică, mecatronică și robotică și inginerie genistică și de armament
Lect.univ.dr.ing. MOLDOVAN Elena-Andreea

Nr. crt.	Domeniul activităților	Rezultatele activităților	Subcategoriile		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	2
				Co-autor	N1.2= număr	0	
		Material didactic / Dezvoltare laboratoare, aplicații	A1.2	Format electronic disponibil pe platforma universității/departamentului (autor)	N1.3= număr	1	
				Standuri laborator (construcție/modernizări) certificate de directorul de departament	N2.1= număr	1	
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= $2 \cdot (0,2+FI)$	0
					$n \geq 4$	P1.2= $2 \cdot 3 \cdot (0,2+FI)/n$	6,932
				Co-autor	$n \leq 3$	P1.3= $0,2+FI$	0
					$n \geq 4$	P1.4= $3 \cdot (0,2+FI)/n$	1,040
		Articole și publicații științifice BDI neincluse la A2.1	A2.2	Autor corespondent / prim autor	N3.1= număr	3	
				Co-autor	N3.2= număr	9	
		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	0,890	
		Produse, 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	1	
		Monografii/cărți de specialitate, format tipărit/electronic (min.100 pag.)	A2.5	Coordonator/prim autor	N4.3= număr	0	
				Co-autor	N4.4= număr	0	
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	94	
				Membri în echipă la grant/proiect câștigat prin competiție națională sau internațională, proiecte/contracte terți	S2= sumă echivalentă în mii Euro	-	
		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	21	
		Citări în publicații BDI (se exclud autocitările)	A3.3	$C1 = \text{numărul de citări}$ $S_{FI} = \text{suma factorilor de impact al publicațiilor WOS în care apar citările}$	$C = C1 + S_{FI}$	136,455	

Condiții minime și obligatorii				Indicatori realizați
Domeniul de activitate		Indicatori		
Activitate didactică și profesională DID (A1)	A1.1	N1	2	2
		N1.1	0	2
		N1.2	0	0
	A1.2	N1.3	1	1
		N2	3	3
		N2.1	1	1
Activitate de cercetare științifică, dezvoltare tehnologică și inovare CDI (A2)	A2.1 + A2.3	P1+P2	5	8,862
		P1	3	7,972
	A2.2	N3	12	12
		N3.1	3	3
	A2.4 + A2.5	N4	1	1
		N4.3	0	0
		N4.4	0	0
Recunoașterea și impactul activității – RIA (A3)	A3.1	S1+S2	10	94
	A3.2	N5	5	21
	A3.3	C	10	136,455

Unde:

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

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

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

JUSTIFICAREA INDICATORILOR

I. Activitate didactică și profesională DID (A1)

A1.1 Manuale suport de curs

Criteriul N1.1

1. **Andreea Elena Voicu**, Tudor Viorel Țigănescu, Ovidiu George Iorga – *Materiale energetice pentru sisteme propulsive*, Editura Academiei Tehnice Militare, 180 pg, 2018, ISBN 978-973-640-281-4 – **punctaj 1**
2. **Elena-Andreea Moldovan**, Tudor-Viorel Țigănescu, Elena-Raluca Ginghină, Radu-Cristian Cioflan – *Testarea materialelor energetice*, Editura Academiei Tehnice Militare, 120 pg, 2023, ISBN 978-973-640-344-6 – **punctaj 1**

Criteriul N1.2

1. –

Criteriul N1.3

1. **Elena-Andreea MOLDOVAN**, *Carburanți, lubrifianți și lichide speciale*, 2023, Platforma <https://wiki.mta.ro/a/3/cbrn/cls/curs/06> a Academiei Tehnice Militare „Ferdinand I”, 139 pag.-**punctaj 1**

Punctaj criteriu N1.1 – 2p

Punctaj criteriu N1.2 – 0p

Punctaj criteriu N1.3 – 1p

Punctaj criteriu N1 – 2p

A1.2 Material didactic / Dezvoltare laboratoare, aplicații

Criteriul N2.1

1. *Sistem mobil adaptiv de mixare și dispersie a unor soluții coloidale inovative cu nanoparticule;* – **punctaj 1**

Criteriul N2.2

1. **ELENA-ANDREEA VOICU, GABRIELA TOADER - MATERIALE ENERGETICE. ÎNDRUMAR DE LABORATOR**, Editura Academiei Tehnice Militare, 100 pg, 2018, ISBN 978-973-640-284-5; – **punctaj 1**
2. **MOLDOVAN ANDREEA-ELENA, PULPEA DANIELA, GABRIELA TOADER, PULPEA GHEORGHE BOGDAN ”CHIMIA CARBURANȚILOR ȘI LUBRIFIANȚILOR. ÎNDRUMAR DE LABORATOR”** Editura Academiei Tehnice Militare Ferdinand I, 2021, ISBN 978-973-640-330-9, 140 pag.; – **punctaj 1**

Criteriul N2.3 - 0

Punctaj criteriu N2.1 – 1p

Punctaj criteriu N2.2 – 2p

Punctaj criteriu N2 – 3p

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

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

Criteriul P1

Nr. crt.	Autori, denumire articol, revista	Factor de impact / an	Criteriul P1.1	Criteriul P1.2	Criteriul P.1.3	Criteriul P1.4
1	T. Rotariu*, A. E. Moldovan*, G. Toader, A. Diacon, E. Rusen, R. E. Ginghina, O. Iorga, H. R. Botis and T. Klapoetke - "Green" PBX Formulations Based on High Explosives (RDX and HMX) and Water-Soluble pH-Sensitive Polymeric Binders, Polymers, ISSN 15 (7),p. 15, 2023, WOS:000969870500001.	5 / 2022-2023	-	$2x3x(0,2+Fi)/9=3,466$	-	-
2	G. TOADER, A. E. MOLDOVAN, A. DIACON, F. M. DIRLOMAN, E. RUSEN, A. PODARU, T. ROTARIU, R. E. GINGHINA AND O. E. HOZA - EFFECT OF AROMATIC CHAIN EXTENDERS ON POLYUREA AND POLYURETHANE COATINGS DESIGNED FOR DEFENSE APPLICATIONS, POLYMERS, ISSN 15 (3),P. 16, 2023, WOS:000932568500001.	5 / 2022-2023	-	$2x3x(0,2+Fi)/9=3,466$	-	-
3	G. TOADER, D. PULPEA, T. ROTARIU, A. DIACON, E. RUSEN, A. MOLDOVAN, A. PODARU, R. GINGHINA, F. ALEXE, O. IORGA, S. A. BAJENARU, M. UNGUREANU, F. DIRLOMAN, B. PULPEA AND L. LEONAT - STRIPPABLE POLYMERIC NANOCOMPOSITES COMPRISING "GREEN" CHELATES, FOR THE REMOVAL OF HEAVY METALS AND RADIONUCLIDES, POLYMERS, ISSN 13 (23),P. 22, 2021, WOS:000734573600001.	5 / 2022-2023	-	-	-	$3*(0.2+Fi)/15=1,040$
TOTAL CITERII			-	6,932	-	1,040
TOTAL GENERAL			7,972			

Punctaj criteriu P1 – 7,972 p

A2.3 Brevete de invenții indexate

Criteriaul P2.1 –

-

Criteriaul P2.2

Nr. crt.	Denumire brevet, autori	Baza de date	Criteriaul P2.2
1	<i>Molecular Trinitrotoluene-Imprinted Films, According to Sol-Gel Method, and Process for Prpparing the Same, Sarbu Andrei, Iordache Tanta-Verona, Florea Ana-Mihaela, Apostol Steluta, Sandu Teodor, Lazau Carmen, Bandas Cornelia Elena, Orha Corina Ileana, Rotariu Traian, Voicu Elena-Andreea, Radu Anita Laura, Derwent Primary accession 2017-602266J</i>	OSIM	$3*(0,2+0,5)/11=0,19$
2	<i>Preparation of polimeric binder for environmentally-friendly composite materials, involves reacting mixture of ethyl acrylate, butyl acrylate or 2-ethylhexyl acrylate and acrylic acid, azobisisobutyronitrile initiator, and ethyl acetate, Rotariu T., Moldovan E.A., Toader G., Iordache T.V., Gavrilă A.M., Zaharia A., Sarbu A, Derwent Primary accession 2021-77172B</i>	OSIM	$3*(0,2+0,5)/7=0,3$
3	<i>Preparation of polymeric nanocomposites used for surface decontamination, involves dispersing hydrophilic nano-bentonite and nano-saponite as decontamination agent in aqueous polymeric solution comprising polyvinyl alcohol, sodium alginate and gelatin, adding glycerin, cooling, and storing, Istrate M., Rotariu T., Toader G., Moldovan E.A., Esanu S.R., Pulpea D., Dîrloman F.M., Podaru A.I., Iordache T.V., Gavrilă A, Derwent Primary accession 2023-111355</i>	OSIM	$3*(0,2+0,5)/10=0,21$
4	<i>Hidrogeluri pentru decontaminare biologică imediată conținând nanofibre de carbon decorate cu nanoparticule antimicrobine și procedeu pentru obținerea și utilizarea acestora, Gabriela Toader, Traian ROTARIU, Elena-Andreea MOLDOVAN, Alice PODARU, Florin Marian Dîrloman, Mioara ALEXANDRU, Florina Lucica Zorilă, Edina Anamaria RUSEN, Alexandra MOCANU, Aurel DIACON, Marcel ISTRATE, OSIM 2023, în curs de publicare</i>	OSIM	$3*(0,2+0,5)/11=0,19$
Total P2.2			0,890

Punctaj criteriu P2 – 0,890p

Punctaj criteriu P1+P2 – 8,862 p

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	A. I. Podaru, A. E. Moldovan*, M. Ionita, E. Rusen, A. Diacon, G. Toader, R. E. Ginghina and A. M. Gavrilă - N-VINYLPYRROLIDONE-BASED INTERPENETRATING POLYMERIC NETWORKS INCORPORATING FUNCTIONALIZED CARBON NANOFIBERS, University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science, ISSN 1454-2331,85 (3),p. 31-42, 2023, WOS:001052966300003.	WOS	1
2	R. E. Ginghina, A. E. Bratu, G. Toader, A. E. Moldovan*, T. V. Tigănescu, R. E. Oncioiu, P. Deliu, R. Petre, G. Epure and M. Purica - Reactive Organic Suspensions Comprising ZnO, TiO ₂ , and Zeolite Nanosized Adsorbents: Evaluation of Decontamination Efficiency on Soman and Sulfur Mustard, Toxics, ISSN 9 (12),p. 25, 2021, WOS:000738377700001.	WOS	1
3	A. E. Voicu, T. Rotariu, M. Teodorescu, T. Zecheru, T. V. Tigănescu and O. Orban - <i>H Sensitive Polymeric Binders for Energetic Materials</i> , MATERIALE PLASTICE, ISSN 0025-5289,54 (1),p. 103-110, 2017, WOS:000400629900023.	WOS	1
TOTAL			3

Criteriul N3.2

Nr. crt.	Autori, Denumire lucrare științifică, revista	Baza de date	Punctaj
1	R Gheorghe Bogdan PULPEA, Mihai Alexandru STĂNOIU, Adrian ROTARIU, Ionelia VOICULESCU, Andreea MOLDOVAN , Daniela PULPEA, MECHANICAL BEHAVIOR ANALYSIS OF THE AUTOMOTIVE PARTS JOINTS MADE THROUGH RESISTANCE SPOT WELDING, UPB Sci. Bull., Series D, Vol.85, Iss. 2, 2023, pg. 228-240, Scopus - Document details	SCOPUS	1
2	A. I. Podaru, A. E. Moldovan*, M. Ionita, E. Rusen, A. Diacon, G. Toader, R. E. Ginghina and A. M. Gavrilă - N-VINYLPYRROLIDONE-BASED INTERPENETRATING POLYMERIC NETWORKS INCORPORATING FUNCTIONALIZED CARBON NANOFIBERS, University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science, ISSN 1454-2331,85 (3),p. 31-42, 2023, WOS:001052966300003	WOS	1
3	R. E. Ginghina, A. E. Bratu, G. Toader, A. E. Moldovan*, T. V. Tigănescu, R. E. Oncioiu, P. Deliu, R. Petre, G. Epure and M. Purica - Reactive Organic Suspensions Comprising ZnO, TiO ₂ , and Zeolite Nanosized Adsorbents: Evaluation of Decontamination Efficiency on Soman and Sulfur Mustard, Toxics, ISSN 9 (12),p. 25, 2021, WOS:000738377700001.	WOS	1
4	A. E. Voicu, T. Rotariu, M. Teodorescu, T. Zecheru, T. V. Tigănescu and O. Orban - <i>H Sensitive Polymeric Binders for Energetic Materials</i> , MATERIALE PLASTICE, ISSN 0025-5289,54 (1),p. 103-110, 2017, WOS:000400629900023.	WOS	1
5	G. Toader, T. Rotariu, D. Pulpea, A. Moldovan, A. Podaru, A. M. Gavrilă, M. Alexandru, A. Diacon, R. Ginghina, O. Iorga and C. Sau - POLYMERIC BLENDS DESIGNED FOR SURFACE DECONTAMINATION, University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science, ISSN	WOS	1

<i>Nr. crt.</i>	<i>Autori, Denumire lucrare științifică, revista</i>	<i>Baza de date</i>	<i>Punctaj</i>
	1454-2331,83 (3),p. 73-86, 2021, WOS:000692192600007.		
6	G. Toader, D. Pulpea, A. Diacon, E. Rusen, R. E. Ginghina, T. Rotariu, A. I. Podaru, A. E. Moldovan, M. Gavrilăscu, A. M. Gavrilă and B. Trica - Comparative Study on the Decontamination Efficacy of Peelable Coatings for Heavy Metals Removal, Water, ISSN 15 (5),p. 19, 2023, WOS:000948039900001.	WOS	1
7	G. Toader, A. Diacon, T. Rotariu, M. Alexandru, E. Rusen, R. E. Ginghina, F. Alexe, R. Oncioiu, F. L. Zorila, A. Podaru, A. E. Moldovan, D. Pulpea, A. M. Gavrilă, T. V. Iordache and R. Somoghi - Eco-Friendly Peelable Active Nanocomposite Films Designed for Biological and Chemical Warfare Agents Decontamination, Polymers, ISSN 13 (22),p. 27, 2021, WOS:000723879100001.	WOS	1
8	T. Zecheru, T. Rotariu, L. C. Matache, A. C. Sava, R. M. Lungu, A. Voicu and L. Cosereanu - Synthesis and Applications of 3-nitro-1,2,4-triazol-5-one based Hybrid Energetic Compositions, Revista De Chimie, ISSN 0034-7752,65 (10), p. 1186-1189, 2014, WOS:000344719500014.	WOS	1
9	A. M. Florea, T. V. Iordache, A. Zaharia, B. Georgescu, A. E. Voicu, B. Tsyntarski, G. Hubca and A. Sarbu - Evaluation of Molecularly Imprinted Polymer Pearls for Selective Isolation of Hypericins, MATERIALE PLASTICE, ISSN 0025-5289,54 (3),p. 495-501, 2017, WOS:000426412300019.	WOS	1
TOTAL			9

Punctaj criteriu N3.1 – 3p

Punctaj criteriu N3.2 – 9p

$N3=N3.1+N3.2$

Punctaj criteriu N3 – 12 p

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

Criteriul N4.2 – 1p

- Pelicule detașabile pentru decontaminarea metalelor grele și radionucluzilor- StripCoatHMR (AOO nr.7385/02.09.2022) - **produs omologat**

Punctaj criteriu N4.1 – 0p

Punctaj criteriu N4.2 – 1p

Punctaj criteriu N4.3 – 0p

Punctaj criteriu N4.4 – 0p

Punctaj criteriu N4 – 1p

III. 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
Responsabil proiect - Muniție iritant-lacrimogenă cu toxicitate redusă pentru combaterea dezordinii publice – TearCloud, PN-III-P2-2.1-PTE-2021-0157,PN, ctr. No. 79PTE/2022	170.000 RON	34,191	34,191
Responsabil proiect - Adaptive mobile mixing and dispersing system using nanoparticles into innovative colloidal solutions for chemical, biological and radiological agents' mitigation, PN-III-P2-2.1-PED-2019-4222 ctr. No.427PED/2020	150.000 RON	30,168	30,168
Responsabil proiect - Contingenta Hazardurilor CBRN si Imbunatatirea Mijloacelor de Securitate Nationala-SECURE-NET, contract nr. 70 PCCDI/2018	150.000 RON	30,168	30,168
TOTAL PUNCTAJ			94,527

*Observație: Pentru calculul sumelor echivalente în EURO s-a folosit cursul RON/EURO din data 14.12.2023 – 4,9720 RON/EURO

Criteriul S2

-

Punctaj criteriu S1+S2 – 94,527

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	Smart polymeric binders for energetic materials, Andreea Voicu , Mircea Teodorescu, Traian Rotariu, Tudor Viorel Tigianescu	Greener and Safer Energetic and Ballistic Systems (GSEBS), Bucharest, May 2015, ISSN 2457 – 1695;	1
2	Determination of temperature-pressure phase diagrams: calibration of DTA systems and application to organic materials, Andreea Voicu , Maria del Barrio	Escola tècnica superior d'enginyeria industrial de Barcelona, Programes de Mobilitat Internacional - Programes de mobilitat "incoming" (ETSEIB), june 2012,	1

Nr. crt.	Autori, Denumire comunicare științifică	Conferință, An	Punctaj
		http://hdl.handle.net/2099.1/15857 ;	
3	<i>Advances in the area of greener munitions</i> , Traian Rotariu, Tudor-Viorel Tigănescu, Florina Bucur, Elena-Andreea Voicu	“Defence Technology Forum 2015 – International scientific Conference 2015”, “Vasil Levski” National Military University, Shumen, Bulgaria, October 23-24 2015;	1
4	Ana-Mihaela Florea, Tanta-Verona Iordache, Andrei Sarbu, Steluta Apostol, Traian Rotariu, Gabriela Nita, Carmen Lazau, Teodor Sandu, Anita-Laura Radu, Liliana Sarbu, Andreea-Elena Voicu – New molecularly imprinted polymer membranes for biometric sensors	2nd Asian-European Symposium on Organic Optoelectronics, 27-29 octombrie 2015, Edinburgh, United Kingdom	1
5	<i>2,4,6 – Trinitrotoluene Molecularly Imprinted Membranes for Selective Sensors</i> , Ana-Mihaela Florea, Tanta Verona Iordache, Carmen Lazau, Traian Rotariu, Anita-Laura Radu, Andrei Sarbu, Andreea Voicu , Gabriela Toader, Steluta Apostol, Gheorghe Hubca	Proceedings of the “19th International Seminar – New Trends in Research of Energetic Materials”, Czech Republic, April 2016, ISBN 978 – 80-7395-976-0;	1
6	<i>New eco-friendly binder for explosive materials</i> , Elena-Andreea Voicu , Traian Rotariu, Tudor-Viorel Tigănescu	“Defence Technology Forum 2016 – International scientific Conference 2016”, “Vasil Levski” National Military University, Shumen, Bulgaria, October 06-07 2016; 8	1
7	<i>Numerical simulation of blast loaded Ti/Steel foam/Ti sandwich plate</i> , Tudor V. Tiganescu, Eugen Trana, Marin Lupoae, Florina Bucur, Elena A. Voicu , Gabriela Toader	<i>Proceedings of the “19th International Seminar – New Trends in Research of Energetic Materials”, Czech Republic, april 2016, ISBN 978 – 80-7395-976-0;</i>	1
8	Analysis of material deformation after forensic ballistic tests, Tudor V. Tiganescu, George-Ovidiu Iorga, Eugen Trana, Elena-Andreea Voicu	Proceedings of the “6th International Conference on Materials Science and Technologies – RoMat 2016”, Bucharest, 9-12 November 2016;	1
9	<i>Research, design, development and bench testing of a hybrid reactive propulsion system for space launcher applications</i> , Tudor V. Tigănescu, Ovidiu G. Iorga, E. Andreea Voicu , Ana M. Florea	“Defence Technology Forum 2017 – International scientific Conference”, “Vasil Levski” National Military University,	1

Nr. crt.	Autori, Denumire comunicare științifică	Conferință, An	Punctaj
		Shumen, Bulgaria, October 3-5, 2017;	
10	<i>Assessment of weapon-ammunition systems in forensic ballistics, Tudor V. Tiganescu, Laviniu Octavian Haller, Ovidiu George Iorga, Elena Andreea Voicu, Ana Mihaela Florea</i>	<i>Proceedings of the International Conference „20th International Seminar – New Trends in Research of Energetic Materials”, Czech Republic, April 2017, ISBN 978-80-7560-056-1;</i>	1
11	<i>Experimental testing setup for study of Ti/steel foam/Ti sandwich plate behavior, Tudor V. Tiganescu, Eugen Trană, Adrian Rotariu, Marin Lupoae, Ovidiu George Iorga, Andreea-Elena Voicu</i>	Proceedings of the International Conference „20th International Seminar – New Trends in Research of Energetic Materials”, Czech Republic, April 2017, ISBN 978-80-7560-056-1;	1
12	<i>Eco-friendly polymeric binders for energetic formulations, Andreea Voicu, Gabriela Toader, Mircea Teodorescu, Orban Octavian, Viorel Tigănescu, Traian Rotariu</i>	Proceedings of the International Conference „20th International Seminar – New Trends in Research of Energetic Materials”, Czech Republic, April 2017, ISBN 978-80-7560-056-1;	1
13	<i>Eco-friendly polymeric binders, Andreea Voicu, Gabriela Niță, Traian Rotariu, Viorel Tigănescu,</i>	“Defence Technology Forum 2017 – International scientific Conference”, “Vasil Levski” National Military University, Shumen, Bulgaria, October 3-5, 2017;	1
14	<i>GC/MS/EI and HPLC/PDA studies on monitoring of a solid rocket fuel formulation based on ammonium perchlorate at controlled high temperature, R.E. Ginghină, Nicoleta Grigoriu, T.V. Țigănescu, Ovidiu Iorga, Andreea Moldovan</i>	“International Seminar – New Trends in Research of Energetic Materials”, Czech Republic, 2020;	1
15	<i>Development of eco-friendly solid rocket propellant, F.M. Dîrloman, T.Rotariu, T.V. Țigănescu, E.A. Moldovan, O.G. Iorga, A.E. Coman, T. Zecheru</i>	“New Trends in Research of Energetic Materials”, Czech Republic, 2020;	1
16	<i>G. B. Pulpea, M. Stănoiu, A. Rotariu, I. Voiculescu, D. Pulpea, A. Moldovan, Study regarding real manufacturing automotive parts jointed through resistance spot welding</i>	International Conference on Applied Sciences – (ICAS 2021), 12-14 May, Hunedoara, ROMANIA	1
17	<i>Alice PODARU, Gabriela TOADER, Daniela PULPEA, Traian ROTARIU, Aurel DIACON, Edina RUSEN, Andreea MOLDOVAN, Raluca GINGHINĂ, Florentina ALEXE, Sorina BAJENARU, Ovidiu IORGA, Mihai UNGUREANU, Florin DIRLOMAN, Bogdan PULPEA, Lucia LEONAT,</i>	The International Symposium PRIORities of CHEMistry for a sustainable development, XVIIth Edition, ICECHIM - Bucharest – ROMANIA October 27 - 29, 2021	1

Nr. crt.	Autori, Denumire comunicare științifică	Conferință, An	Punctaj
	<i>Film-forming polymeric blends designed for the removal of heavy metals and radionuclides from contaminated surfaces</i>		
18	Daniela Pulpea, Gabriela Toader, Traian Rotariu, Bogdan Pulpea, Andreea Moldovan , Eugen Trană, <i>A review on water decontamination methods and future research trends</i>	7th International Scientific Conference Sea-Conf 2021, On-line Edition Mai 21 th -22 th , 2021	1
19	Daniela Pulpea, G.Toader, T. Rotariu, A. Moldovan , G.B. Pulpea, A. Podaru, <i>Advances in Radioactive Decontamination via STRIPCOATHMR Research Project</i>	Conference - Nuclear 2021, 26-28 mai, Pitești, România	1
20	Florin Marian DIRLOMAN, Gabriela TOADER*, Edina RUSEN, Aurel DIACON, Andreea MOLDOVAN , Florica RIZEA, Raluca GINGHINA, Traian ROTARIU, Adrian ROTARIU, Poly (urea - urethane) / multiwall carbon nanotubes nanocomposites for defence applications,	ICECHIM Bucharest The International Symposium "PRIORITIES OF CHEMISTRY FOR A SUSTAINABLE DEVELOPMENT" XVIIIth Edition October 26- 28, 2022, Romania.	1
21	D.G. Calinescu, G. Toader*, A.E. Moldovan , R. Ginghina, F. Alexe, A. Podaru, F. Dirloman, M. Alexandru, F. Zorila, <i>Ecological Effervescent Tablets for Decontamination Applications</i>	9th International Conference on Materials Science and Technologies –RoMat 2022 November 24-25, 2022, Bucharest, Romania	1
TOTAL			21

Punctaj criteriu N5 – 21p

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

Criteriul C

Nr. crt.	Titlul articol	Citari	IF citari	Nr. citari
1	G. Toader, D. Pulpea, T. Rotariu, A. Diacon, E. Rusen, A. Moldovan, A. Podaru, R. Ginghina, F. Alexe, O. Iorga, S. A. Bajenaru, M. Ungureanu, F. Dirloman, B. Pulpea and L. Leonat - Strippable Polymeric Nanocomposites Comprising "Green" Chelates, for the Removal of Heavy Metals and Radionuclides, <i>Polymers</i> , ISSN 13 (23),p. 22, 2021, WOS:000734573600001.	G. Toader, A. Diacon, E. Rusen, Mangalagiu, II, M. Alexandru, F. L. Zorila, A. Mocanu, A. Boldeiu, A. M. Gavrilă, B. Trica, D. Pulpea, M. I. Necolau and M. Istrate - <i>Peelable Alginate Films Reinforced by Carbon Nanofibers Decorated with Antimicrobial Nanoparticles for Immediate Biological Decontamination of Surfaces</i> , <i>Nanomaterials</i> , ISSN 13 (20),p. 29, 2023, WOS:001093681500001.	5,3	1
		T. Rotariu, D. Pulpea, G. Toader, E. Rusen, A. Diacon, V. Neculae and J. Liggat - <i>Peelable Nanocomposite Coatings: "Eco-Friendly" Tools for the Safe Removal of Radiopharmaceutical Spills or Accidental Contamination of Surfaces in General-Purpose Radioisotope Laboratories</i> , <i>Pharmaceutics</i> , ISSN 14 (11),p. 16, 2022, WOS:000883569900001.	5,4	1
		E. Matei, A. M. Predescu, M. Răpa, A. A. Turcanu,	5,3	1

<i>Nr. crt.</i>	<i>Titlul articol</i>	<i>Citari</i>	<i>IF citari</i>	<i>Nr. citari</i>
		I. Mates, N. Constantin and C. Predescu - Natural Polymers and Their Nanocomposites Used for Environmental Applications, <i>Nanomaterials</i> , ISSN 12 (10),p. 31, 2022, WOS:000804280700001.		
		S. Y. Liu, Y. Y. He, H. H. Xie, Y. J. Ge, Y. S. Lin, Z. T. Yao, M. Q. Jin, J. Liu, X. Y. Chen, Y. H. Sun and B. H. Wang - A State-of-the-Art Review of Radioactive Decontamination Technologies: Facing the Upcoming Wave of Decommissioning and Dismantling of Nuclear Facilities, <i>Sustainability</i> , ISSN 14 (7),p. 19, 2022, WOS:000781393300001.	3,9	1
2	G. Toader, D. Pulpea, A. Diacon, E. Rusen, R. E. Ginghina, T. Rotariu, A. I. Podaru, A. E. Moldovan, M. Gavrilesu, A. M. Gavrilă and B. Trica - Comparative Study on the Decontamination Efficacy of Peelable Coatings for Heavy Metals Removal, <i>Water</i> , ISSN 15 (5),p. 19, 2023, WOS:000948039900001.	J. C. Liu, J. Hu, J. Li, Y. Zhang and X. J. Li - Preparation of UV-curable strippable coatings based on polyurethane acrylate from CO ₂ -polyol and different isocyanates, <i>Progress in Organic Coatings</i> , ISSN 0300-9440,184 7, 2023, WOS:001065545200001.	4,6	1
		K. Chaudhuri, R. Medhi, Z. L. Zhang, Z. Y. Cai, C. K. Ober and J. T. Pham - Visualizing Penetration of Fluorescent Dye through Polymer Coatings, <i>Macromolecular Rapid Communications</i> , ISSN 1022-1336,9, 2023, WOS:001051653800001	6,6	1
3	G. Toader, A. E. Moldovan, A. Diacon, F. M. Dirloman, E. Rusen, A. Podaru, T. Rotariu, R. E. Ginghina and O. E. Hoza - Effect of Aromatic Chain Extenders on Polyurea and Polyurethane Coatings Designed for Defense Applications, <i>Polymers</i> , ISSN 15 (3),p. 16, 2023, WOS:000932568500001.	A. Mouren and L. Avérous - Aromatic thermoplastic polyurethanes synthesized from different potential sustainable resources, <i>European Polymer Journal</i> , ISSN 0014-3057,197 12, 2023, WOS:001052819200001.	6	1
		C. L. He, Y. Q. Liu, Y. K. Yao and Q. H. Chen - Experimental and Numerical Investigation of Ballistic Resistance of Polyurea-Coated Aluminum Plates under Projectile Impacts, <i>Crystals</i> , ISSN 13 (7),p. 20, 2023, WOS:001035096400001.	2,7	1
4	G. Toader, A. Diacon, T. Rotariu, M. Alexandru, E. Rusen, R. E. Ginghina, F. Alexe, R. Oncioiu, F. L. Zorila, A. Podaru, A. E. Moldovan, D. Pulpea, A. M. Gavrilă, T. V. Iordache and R. Somoghi - Eco-Friendly Peelable Active Nanocomposite Films Designed for Biological and Chemical Warfare Agents Decontamination, <i>Polymers</i> , ISSN 13 (22),p. 27, 2021, WOS:000723879100001.	G. Toader, R. E. Ginghina, A. Diacon, E. Rusen, A. E. Bratu, A. Podaru and T. Rotariu - Design and Application of Photocrosslinkable Hydrogel Films for Fast and Efficient Decontamination of Chemical Warfare Agents, <i>ACS Applied Polymer Materials</i> , ISSN 2637-6105,5 (1),p. 877-891, 2023, WOS:000903750800001.	5	1
		G. Toader, A. Diacon, E. Rusen, Mangalagiu, II, M. Alexandru, F. L. Zorila, A. Mocanu, A. Boldeiu, A. M. Gavrilă, B. Trica, D. Pulpea, M. I. Necolau and M. Istrate - Peelable Alginate Films Reinforced by Carbon Nanofibers Decorated with Antimicrobial Nanoparticles for Immediate Biological Decontamination of Surfaces, <i>Nanomaterials</i> , ISSN 13 (20),p. 29, 2023, WOS:001093681500001.	5,3	1
		R. E. Ginghina, G. Toader, M. Purica, A. E. Bratu, C. Lazaroaie, T. V. Tiganescu, R. E. Oncioiu, G. O. Iorga, F. L. Zorila, M. Constantin, G. Craciun, F. Comanescu and C. Romanitan - Antimicrobial Activity and Degradation Ability Study on Nanoparticle-Enriched Formulations Specially Designed for the Neutralization of Real and Simulated Biological and Chemical Warfare Agents, <i>Pharmaceuticals</i> , ISSN 15 (1),p. 28, 2022, WOS:000747789300001.	4,6	1

<i>Nr. crt.</i>	<i>Titlul articol</i>	<i>Citari</i>	<i>IF citari</i>	<i>Nr. citari</i>
		N. J. Gao, J. W. Li, W. Y. Zhang, S. Ahmed, F. C. Liu and E. H. Han - Analysis of Permeation Behaviors of Dimethyl Methyl Phosphonate Solutions and Influence on Mechanical Properties of Designed Double-Layer Peelable Coating, ACS Applied Polymer Materials, ISSN 2637-6105,4 (10),p. 7330-7339, 2022, WOS:000855531900001.	5	1
		N. J. Gao, S. Ahmed, W. Y. Zhang, J. W. Li and F. C. Liu - Catalytic degradability and anti-permeability of peelable coating based on organophosphate nerve agent simulants, Colloids and Surfaces a-Physicochemical and Engineering Aspects, ISSN 0927-7757,678 10, 2023, WOS:001091691800001.	5,2	1
5	R. E. Ginghina, A. E. Bratu, G. Toader, A. E. Moldovan, T. V. Tiganescu, R. E. Oncioiu, P. Deliu, R. Petre, G. Epure and M. Purica - Reactive Organic Suspensions Comprising ZnO, TiO ₂ , and Zeolite Nanosized Adsorbents: Evaluation of Decontamination Efficiency on Soman and Sulfur Mustard, Toxics, ISSN 9 (12),p. 25, 2021, WOS:000738377700001.	G. Toader, R. E. Ginghina, A. Diacon, E. Rusen, A. E. Bratu, A. Podaru and T. Rotariu - Design and Application of Photocrosslinkable Hydrogel Films for Fast and Efficient Decontamination of Chemical Warfare Agents, ACS Applied Polymer Materials, ISSN 2637-6105,5 (1),p. 877-891, 2023, WOS:000903750800001.	5	1
		O. Soukup and J. Korabecny - Chemical and Biological Threats, Hazard Potential and Countermeasures, Toxics, ISSN 10 (8),p. 3, 2022, WOS:000845176800001.	4,6	1
6	T. Zecheru, T. Rotariu, L. C. Matache, A. C. Sava, R. M. Lungu, A. Voicu and L. Cosoreanu - Synthesis and Applications of 3-nitro-1,2,4-triazol-5-one based Hybrid Energetic Compositions, Revista De Chimie, ISSN 0034-7752,65 (10),p. 1186-1189, 2014, WOS:000344719500014.	Q. L. Yan, M. Gozin, F. Q. Zhao, A. Cohen and S. P. Pang - Highly energetic compositions based on functionalized carbon nanomaterials, Nanoscale, ISSN 2040-3364,8 (9),p. 4799-4851, 2016, WOS:000371479000002.	6,7	1
7	A. E. Voicu, T. Rotariu, M. Teodorescu, T. Zecheru, T. V. Tiganescu and O. Orban - <i>p</i> -H Sensitive Polymeric Binders for Energetic Materials, MATERIALE PLASTICE, ISSN 0025-5289,54 (1),p. 103-110, 2017, WOS:000400629900023.	G. Toader, A. Diacon, E. Rusen, F. Rizea, M. Teodorescu, P. O. Stanescu, C. Damian, A. Rotariu, E. Trana, F. Bucur and R. Ginghina - A Facile Synthesis Route of Hybrid Polyurea-Polyurethane-MWCNTs Nanocomposite Coatings for Ballistic Protection and Experimental Testing in Dynamic Regime, Polymers, ISSN 13 (10),p. 16, 2021, WOS:000655163400001.	5	1
		P. Spiridon, I. C. A. Sandu, L. Nica, V. Vasilache and I. Sandu - Archaeometric and Chemometric Studies Involved in the Authentication of Old Heritage Artefacts I. Contributions of the Iasi school of Conservation Science, Revista De Chimie, ISSN 0034-7752,68 (9),p. 2018-2027, 2017, WOS:000416748800015.	1,755	1
		A. M. Florea, T. V. Iordache, C. Branger, H. Brisset, A. Zaharia, A. L. Radu, G. Hubca and A. Sârbu - One-step preparation of molecularly imprinted hollow beads for pseudohypericin separation from <i>Hypericum perforatum</i> L. extracts, European Polymer Journal, ISSN 0014-3057,100 48-56, 2018, WOS:000429760600006.	6	1
		F. M. Dirloman, G. Toader, T. Rotariu, T. V. Tiganescu, R. E. Ginghina, R. Petre, F. Alexe, M. I.	5	1

<i>Nr. crt.</i>	<i>Titlul articol</i>	<i>Citari</i>	<i>IF citari</i>	<i>Nr. citari</i>
		Ungureanu, E. Rusen, A. Diacon, A. Ghebur, M. Duldner, A. E. Coman and R. Tincu - Novel Polyurethanes Based on Recycled Polyethylene Terephthalate: Synthesis, Characterization, and Formulation of Binders for Environmentally Responsible Rocket Propellants, <i>Polymers</i> , ISSN 13 (21),p. 28, 2021, WOS:000718659500001.		
8	A. M. Florea, T. V. Iordache, A. Zaharia, B. Georgescu, A. E. Voicu, B. Tsyntsarski, G. Hubca and A. Sarbu - Evaluation of Molecularly Imprinted Polymer Pearls for Selective Isolation of Hypericins, <i>MATERIALE PLASTICE</i> , ISSN 0025-5289,54 (3),p. 495-501, 2017, WOS:000426412300019	E. B. Stoica, A. M. Gavrilă, T. V. Iordache, A. Sarbu, H. Iovu, T. Sandu and H. Brisset - MOLECULARLY IMPRINTED MEMBRANES OBTAINED VIA WET PHASE INVERSION FOR EPHEDRINE RETENTION, <i>University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science</i> , ISSN 1454-2331,82 (2),p. 15-26, 2020, WOS:000550842800002.	0,5	1
		E. B. Stoica, C. Branger, T. V. Iordache, A. Sarbu, H. Iovu, O. B. Vitrik, A. V. Dyshlyuk and H. Brisset - Crystal Structure of Tetrakis(2,2'-bithiophene-5-yl)silane, <i>MATERIALE PLASTICE</i> , ISSN 0025-5289,55 (3),p. 255-257, 2018, WOS:000452711500001.	0,8	1
		T. Sandu, M. L. Jecu, I. Raut, M. Calin, E. Alexandrescu, T. V. Iordache, M. V. Dumitru and A. Sarbu - Hybrid Beads Bearing Immobilized Bacteria as Advanced Means for the Removal of Acid Blue 93 Dye, <i>MATERIALE PLASTICE</i> , ISSN 0025-5289,57 (3),p. 125-136, 2020, WOS:000579452900013.	0,8	1
		A. M. Gavrilă, T. V. Iordache, T. Sandu, A. Zaharia, A. L. Radu, C. Branger, H. Brisset, E. B. Stoica, S. Apostol and A. Sarbu - Molecularly Imprinted Polymer Pearls Obtained by Phase Inversion for the Selective Recognition of Hypericin, <i>MATERIALE PLASTICE</i> , ISSN 0025-5289,56 (2),p. 315-320, 2019, WOS:000476641000005.	0,8	1
		A. M. Gavrilă, T. V. Iordache, C. Branger, H. Brisset, K. Laatikainen, A. L. Ciurlica, A. Zaharia, A. L. Radu, A. E. Coman, S. Flor and A. Sarbu - The Effect of Monomers on the Recognition Properties of Molecularly Imprinted Beads for Proto-hypericin and Proto-pseudohypericin, <i>MATERIALE PLASTICE</i> , ISSN 0025-5289,57 (1),p. 100-111, 2020, WOS:000528195000013.	0,8	1
		A. M. Florea, T. V. Iordache, C. Branger, H. Brisset, A. Zaharia, A. L. Radu, G. Hubca and A. Sârbu - One-step preparation of molecularly imprinted hollow beads for pseudohypericin separation from <i>Hypericum perforatum</i> L. extracts, <i>European Polymer Journal</i> , ISSN 0014-3057,100 48-56, 2018, WOS:000429760600006.	6	1
		M. Constantinescu, F. Bucura, E. I. Ionete, D. Ion-Ebrasu, C. Sandru, A. Zaharioiu, F. Marin, M. G. Miricioiu, V. C. Niculescu, S. Oancea and R. E. Ionete - From Plastic to Fuel - New Challenges, <i>MATERIALE PLASTICE</i> , ISSN 0025-5289,56 (4),p. 721-729, 2019, WOS:000509920700009.	0,8	1

<i>Nr. crt.</i>	<i>Titlul articol</i>	<i>Citari</i>	<i>IF citari</i>	<i>Nr. citari</i>
9	G. Toader, T. Rotariu, D. Pulpea, A. Moldovan, A. Podaru, A. M. Gavrilă, M. Alexandru, A. Diacon, R. Gînghină, O. Iorga and C. Sau - POLYMERIC BLENDS DESIGNED FOR SURFACE DECONTAMINATION, University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science, ISSN 1454-2331,83 (3),p. 73-86, 2021, WOS:000692192600007.		0	0
10	T. Rotariu, A. E. Moldovan, G. Toader, A. Diacon, E. Rusen, R. E. Gînghină, O. Iorga, H. R. Botis and T. Klapoetke - "Green" PBX Formulations Based on High Explosives (RDX and HMX) and Water-Soluble pH-Sensitive Polymeric Binders, Polymers, ISSN 15 (7),p. 15, 2023, WOS:000969870500001.		0	0
11	A. I. Podaru, A. E. Moldovan, M. Ionita, E. Rusen, A. Diacon, G. Toader, R. E. Gînghină and A. M. Gavrilă - N-VINYLPYRROLIDONE-BASED INTERPENETRATING POLYMERIC NETWORKS INCORPORATING FUNCTIONALIZED CARBON NANOFIBERS, University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science, ISSN 1454-2331,85 (3),p. 31-42, 2023, WOS:001052966300003.		0	0
TOTAL			109,455	27

Punctaj criteriu C – 136,455

03.01.2024