

FIȘA DE VERIFICARE
a îndeplinirii standardelor minime naționale pentru postul de
profesor universitar

Candidat: **POPESCU VASILICA** / Data nașterii: 26.01.1965 Funcția actuală: Conferențiar doctor inginer, Data numirii în funcția actuală: 16.02.2015 Instituția: Universitatea Tehnică "Gheorghe Asachi" din Iași.

În conformitate cu **ORDIN nr. 6560 din 20 decembrie 2012 privind aprobarea standardelor minime necesare și obligatorii pentru conferirea titlurilor didactice din învățământul superior și a gradelor profesionale de cercetare-dezvoltare**, în **ANEXA nr. 8: COMISIA INGINERIE CHIMICĂ, INGINERIE MEDICALĂ, ȘTIINȚA MATERIALELOR ȘI NANOMATERIALE** sunt prevăzute următoarele standarde:

(1) STANDARDE MINIMALE NECESARE ȘI OBLIGATORII PENTRU CONFERIREA TITLURILOR DIDACTICE DIN ÎNVĂȚĂMÂNTUL SUPERIOR ȘI A GRADELOR PROFESIONALE DE CERCETARE – DEZVOLTARE, valabile pentru domeniile științifice Inginerie chimică în textile și pielărie:
Se definesc:

NTOP = număr total de articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal. Situația revistelor în top 25% se judecă pe cazul cel mai favorabil pentru candidat, fie la momentul publicării, fie la data înscrierii la concurs.

FIC = factor de impact cumulat (suma factorilor de impact ai revistelor la momentul înscrierii la concursul pentru ocuparea unei poziții didactice)

NP = număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență)

NC = număr total de citări (din baza SCOPUS) (se exclud autocitările candidatului)

NCO = număr contracte de cercetare-dezvoltare-inovare obținute prin competiție la nivel național sau internațional ori contracte de cercetare-dezvoltare-inovare cu terți în valoare minimă echivalentă cu 10.000 Euro

Articolele pentru calculul NTOP, FIC, NP, NC se vor lua în considerare numai dacă la data publicării revistei era indexată ISI, iar la data înscrierii la concurs a candidatului articolele sunt vizibile în WOS sau dacă se prezintă ca reprinturi (inclusiv cu pagina revistei)

Standarde minime (cumulative):

a) **NTOP ≥ 4**

b) **NP ≥ 20**

c) **FIC ≥ 30**

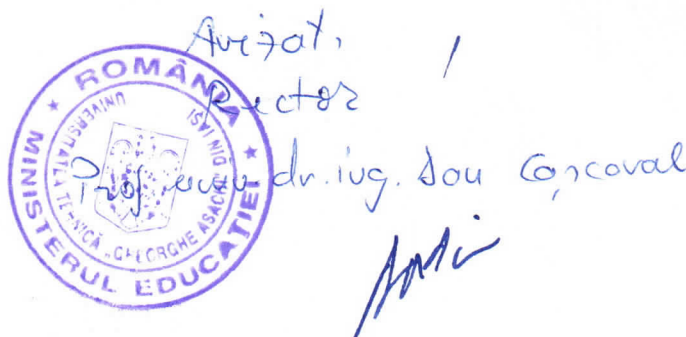
în acest caz în calculul FIC se ține seama de factorul de impact al revistei la care candidatul a publicat un articol ca autor principal și respectiv de factorul de impact împărțit la numărul de autori pentru revistele în care candidatul a publicat un articol în care nu este autor principal

d) **NC ≥ 120**

Brevetele naționale (FI = 1) și internaționale (FI = 3) intra în calculul FIC de la punctul c)

c) **NCO ≥ 1 (în calitate de Director proiect)**

Auzat,
Pector
Prof. dr. ing. Dou Gheorghe
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Calculul standardelor FIC, NTOP, NP, NC și NCO

Calculul standardului FIC

Nr. crt.	Lista articolelor pentru calculul standardului FIC	În anul publicării		În anul 2020/2021	
		Factor Impact în anul publicării	Punctaj autor	Factor Impact în anul 2020/2021	Punctaj autor
1.	Popescu Vasilica * , Petrea Marioara, Popescu Andrei <i>Multifunctional Finishing of Cotton with Compounds Derived from MCT-β-CD and Quantification of Effects Using MLR Statistical Analysis</i> POLYMERS MDPI, 13, 410, (2021) , p.1-23. Accession Number: WOS: 000615458400001 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000615458400001	4.329	4.329	4.329	4.329
2.	Cocean Alexandru, Cocean Iuliana, Cimpoesu Nicanor *, Cocean Georgiana, Cimpoesu Ramona, Postolachi Cristina, Popescu Vasilica , Gurlui Silviu* <i>Laser induced method to produce curcuminoid-silanol thin films for transdermal patches using irradiation of turmeric target</i> APPL. SCI. , 11, 4030, (2021) , p.1-12. Accession Number: WOS: 000649866400001 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000649866400001	2.679	0.334	2.679	0.334
3.	Popescu V , Buciscanu I, Pruneanu M., (...); Cretescu Igor, Chelariu P, Marin M. <i>Sustainable functionalization of PAN to improve tinctorial capacity</i> POLYMERS , 13, no. 21, (2021) . DOI 10.3390/polym13213665 Accession Number: WOS: 000719009600001 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000719009600001	4.329	4.329	4.329	4.329

4.	Popescu V., Blaga AC, Pruneanu M., (...), Cretescu Igor, Cascaval D. <i>Green chemistry in the extraction of natural dyes from colored food waste, for dyeing protein textile materials</i> POLYMERS, 13, no. 22, (2021). DOI 10.3390/polym13223867 Accession Number: WOS: 000724797300001 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000724797300001	4.329	4.329	4.329	4.329
5.	Popescu Vasilica*, Astanei Dragos-George, Burlica Radu, Popescu Andrei, Munteanu Corneliu, Ciolacu Florin, Ursache Mariana, Ciobanu Luminita, Cocean Alexandru <i>Sustainable and cleaner microwave-assisted dyeing process for obtaining eco-friendly and fluorescent acrylic knitted fabrics</i> JOURNAL OF CLEANER PRODUCTION, 232, (2019), p. 451-461. DOI 10.1016/j.jclepro.2019.05.281 Accession Number: WOS: 000477784000042 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000477784000042	7.246	7.246	9.297	9.297
6.	Popescu Vasilica, Sandu Irina Crina Anca, Popescu Gabriel * <i>Study of cotton grafting with hemiacetal - MCT-β-CD derivative using fourier transform infrared spectroscopy and statistical analysis</i> REV.CHIM.(Bucharest), 68, no. 9 (2017), p. 2055-2059. Accession Number: WOS: 000416748800022 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000416748800022	1.412	1.412	0	0
7.	Popescu Vasilica, Popescu Gabriel*, Sandu Irina Crina Anca <i>Highlighting a cotton grafting process using the spectral subtraction method and statistical analysis,</i> REV.CHIM. (Bucharest), 68, no. 8, (2017), p. 1884-1889. Accession Number: WOS: 000410388000043	1.412	1.412	0	0

	https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000410388000043				
8.	Vasilescu Vlad Gabriel, Sandu Ion, Nemtoi Gheorghe, Sandu Andrei Victor, Popescu Vasilica, Vasilache Viorica, Sandu Ioan Gabriel, Vasilescu Elisabeta <i>The reactivity of Ti10Zr alloy in biological and electrochemical systems in the presence of chitosan</i> RSC ADVANCES, 7, no. 33 (2017), p. 20146-20146. Accession Number: WOS: 000396012500033 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000396012500033	2.936	0.367	3.361	0.42
9.	Popescu Vasilica, Sandu Irina Crina Anca, Popescu Gabriel * <i>Study of textile materials behavior at dyeing with colored aqueous extract obtained by boiling peels, arils and seeds of punica granatum: spectroscopic, colorimetric and statistic evaluations</i> REV. CHIM. (Bucharest), 67, no. 12, (2016), p. 2454-2459. Accession Number: WOS: 000393230400016 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000393230400016	1.232	1.232	0	0
10.	Popescu Vasilica, Sandu Irina Crina Anca, Popescu Gabriel * <i>FTIR analysis for studying the possibility of grafting onto cotton of some compounds resulted from interaction of carbonyl compounds with monochlorotriazinyl-β-cyclodextrin</i> REV. CHIM. (Bucharest), 67, no. 11, (2016), p. 2184. Accession Number: WOS: 000388361900011 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000388361900011	1.232	1.232	0	0
11.	Popescu Vasilica * , Sandu Irina Crina Anca,	1.232	1.232	0	0

	Popescu Gabriel <i>FTIR spectroscopic, colorimetric and statistic evaluations of textile materials dyed with crude extract obtained by macerating pomegranate peels</i> REV. CHIM. (Bucharest), 67, no. 10, (2016), p.1994- 2000. Accession Number: WOS: 000388359900021 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000388359900021				
12.	Popescu Vasilica *, Sandu Irina Crina Anca, Popescu Gabriel <i>Influence of parameters of polycondensation stage on ethyl chitosan grafting on cotton</i> REV. CHIM. (Bucharest), 67, no. 4, (2016), p.768- 773. Accession Number: WOS: 000376549200037 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000376549200037	1.232	1.232	0	0
13.	Popescu Vasilica, Muresan Augustin*, Popescu Gabriel, Balan Mihaela, Dobromir Marius <i>Ethyl chitosan synthesis and quantification of the effects acquired after grafting it on a cotton fabric, using ANOVA statistical analysis</i> CARBOHYDRATE POLYMERS, 138, (2016), p. 94–105. Accession Number: WOS: 000368096400012 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000368096400012	4.811	4.811	9.381	9.381
14.	Popescu Vasilica *, Pui Aurel, Sandu Irina Crina Anca, Popescu Gabriel <i>Eco-friendly dyeings of textiles with extract from pomegranate arils with seeds spectroscopic, colorimetric and statistical assessment</i> REV. CHIM. (Bucharest), 67, no.2, (2016), p.270-275. Accession Number: WOS: 000372170700015 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000372170700015	1.232	1.232	0	0

	nformation.ro/wos/woscc/full-record/WOS:000372170700015				
15.	Popescu Vasilica * , Sandu Irina Crina Anca, Popescu Gabriel <i>Colorimetric evaluation of chemical modifications generated by pan functionalization in acid/ basic medium and grafting with chitosan</i> REV. CHIM. (Bucharest) , 67, no. 1, (2016), p.74-80. Accession Number: WOS: 000369524300017 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000369524300017	1.232	1.232	0	0
16.	Popescu Vasilica * , Sandu Irina Crina Anca, Popescu Gabriel <i>Analysis of the behaviour of PAN functionalized with basic compounds, during dyeing process with acid dyes</i> REV. CHIM. (Bucharest) , 66, no. 12, (2015), p.1997- 2004. Accession Number: WOS: 000368437100017 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000368437100017	0.956	0.956	0	0
17.	Popescu Vasilica* , Irina Crina Anca Sandu, Gabriel Popescu, Alexandru Popa, Cezar-Doru Radu <i>Colorimetric Answer of Monochlorotriazinyl-β- cyclodextrin Grafted onto PAN Support Chemical Modified with NaOH and Amines</i> REV. CHIM. (Bucharest) , 66, no. 11, (2015), p. 1765-1771. Accession Number: WOS: 000368213500011 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000368213500011	0.956	0.956	0	0
18.	Popescu Vasilica * , Sandu Irina Crina Anca, Popescu Gabriel, Lisa Gabriela, Popa Alexandru <i>Study of the Effects by Tinctorial Method Obtained at Polyethylene Terephthalate Functionalization with Alcohols</i> REV. CHIM. (Bucharest) , 66, no. 10, (2015),	0.956	0.956	0	0

	p. 1607-1613. Accession Number: WOS: 000368436300014 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000368436300014				
19.	Manea Liliana Rozemarie, Cramariuc Bogdan, Cramariuc Radu, Scarlet Roxana, Sandu Ion *, Popescu Vasilica <i>Equipment for obtaining polimeric nanofibers by electrospinning technology, II. The obtaining polimeric nanofiber</i> MATERIALE PLASTICE, 52, no. 2, (2015), p. 180-185. Accession Number: WOS: 000357767900011 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000357767900011	0.903	0.1505	0.593	0.0988
20.	Popescu Vasilica*, Mureșan Augustin, Constandache Ovidiu, Lisă Gabriela, Mureșan Emil Ioan, Munteanu Corneliu, Sandu Ion <i>Tinctorial response of recycled pet fibers to chemical modifications during saponification and aminolysis reactions</i> INDUSTRIAL ENGINEERING CHEMISTRY RESEARCH, 53, no.43 (2014), p.16652–16663. DOI: 10.1021/ie5028974 Accession Number: WOS: 000344042700007 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000344042700007	2.587	2.587	3.720	3.720
21.	Popescu, Vasilica*, Vasluianu, Ecaterina, Gabriel, Popescu <i>Quantitative analysis of the multifunctional finishing of cotton fabric with non-formaldehyde agents</i> CARBOHYDRATE POLYMERS, 111, (2014), p. 870–882. DOI: 10.1016/j.carbpol.2014.05.052 Accession Number: WOS: 000340302100106 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-	4.074	4.074	9.381	9.381

	record/WOS:000340302100106				
22.	Popescu Vasilica*, Sandu Ioan Gabriel, Vasluianu Ecaterina, Sandu Ion, Manea Liliana Rozemarie, Campagne Cristine <i>Effects of chitosan grafting onto cotton fabric pretreated with a tetrol</i> REVISTA DE CHIMIE, 65, no. 12, (2014), p. 1439-1447. Accession Number: WOS: 000345946400009 https://www.webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000345946400009	0.810	0.810	0	0
23.	Brănișteanu Daciana-Elena, Agafiței Gheorghe, Sandu Ion, Parteni Oana, Popescu Vasilica, Nichifor Marieta, Radu Cezar-Doru* <i>Wearing behaviour of a poliamide matrix to delivering bioactive - Principles in dermatic disorders</i> REVISTA DE CHIMIE, 65, no.11 (2014), p. 1357-1362. Accession Number: WOS: 000345946300021 https://www.webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000345946300021	0.810	0.1157	0	0
24.	Mureșan Emil Ioan*, Popescu Vasilica, Sandu Ion <i>Synthesis and characterization of hierarchical metallosilicate macrospheres catalysts</i> REVISTA DE CHIMIE, 65, no. 9, (2014), p. 1029-1035. Accession Number: WOS: 000343965900008 https://www.webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000343965900008	0.810	0.27	0	0
25.	Bălan Gina, Mureșan Emil Ioan, Popescu Vasilica, Cerempei Angela*, Mureșan Augustin, Sandu Ion <i>Alternative hydrophobic treatments applied on dyed fabrics</i> REVISTA DE CHIMIE, 65, nr. 9, (2014), p.1052-1057. Accession Number: WOS: 000343965900013	0.810	0.135	0	0

	https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000343965900013				
26.	Constandache Tatiana, Cerempei Angela, Mureșan Emil-Ioan, Popescu Vasilica*, Drobotă Mioara, Sandu Ion <i>Modified organic pigments used in polypropylene coloration</i> REVISTA DE CHIMIE, 65, no. 8, (2014), p. 892-896. Accession Number: WOS: 000340867000006 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000340867000006	0.810	0.810	0	0
27.	Popescu Vasilica*, Sandu Ion <i>Multifunctional finishing with tetrol and monochlorotriazinil- β-cyclodextrine</i> REVISTA DE CHIMIE, 65, no. 7, (2014), p. 811-818. Accession Number: WOS:000345545600015 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000345545600015	0.810	0.810	0	0
28.	Popescu Vasilica*, Sandu Ion, Mureșan Emil Ioan, Istrate Bogdan, Lisă Gabriela <i>Effects of the pre-treatment with atmospheric - air plasma followed by conventional finishing</i> REVISTA DE CHIMIE, 65, no. 6, (2014), p. 676-683. Accession Number: WOS:000339140400010 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000339140400010	0.810	0.810	0	0
29.	Bercu E., Diaconescu R*. , Balan A., Sandu I., Popescu V., Cioloca D., Toma V. <i>Interaction of the anionic polyelectrolytes with crystal violet of the dyeing process of Melana fibres statistic modelling and optimization</i> MATERIALE PLASTICE, 51, no. 1, (2014), p. 22-27. Accession Number: WOS: 000333795300005 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000333795300005	0.824	0.1177	0.593	0.0847

30.	Popescu Vasilica*, Vasluianu Ecaterina, Forna Norina-Consuela, Sandu Ion, Bercu Elena <i>Comparative study of the FTIR analysis and the performances of N,N,N-trimethyl chitosan as wrinkle-proofing agent</i> REVISTA DE CHIMIE, 64, no.11, (2013), p. 1284-1294. Accession Number: WOS: 000328441600015 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000328441600015	0.677	0.677	0	0
31.	Vasluianu Ecaterina, Popescu Vasilica*, Grigoriu Aurelia, Forna Norina Consuela, Sandu Ion <i>Comparative study concerning the FTIR analysis and the performances of chitosan-based wrinkle-proofing agents</i> REVISTA DE CHIMIE, 64, no.10, (2013), p. 1104-1115. Accession Number: WOS: 000327577600010 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000327577600010	0.677	0.677	0	0
32.	Popescu Vasilica*, Mureșan Emil Ioan <i>Performances of chitosan grafted onto surface of polyacrylonitrile functionalized through amination reactions</i> INDUSTRIAL ENGINEERING CHEMISTRY RESEARCH, 52, no. 37, (2013), p. 13252-13263. DOI: 10.1021/ie401494a Accession Number: WOS: 000330080100003 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000330080100003	2.235	2.235	3.720	3.720
33.	Mureșan Emil Ioan*, Bălan Gina, Popescu Vasilica <i>Durable hydrophobic treatment of cotton fabrics with glycidyl stearate</i> INDUSTRIAL ENGINEERING CHEMISTRY RESEARCH, 52, no.18, (2013), p. 6270-6276. DOI: 10.1021/ie400235u	2.235	0.745	3.720	1.240

	Accession Number: WOS: 000318838900023 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000318838900023				
34.	Popescu Vasilica*, Manea Liliana Rozemarie, Sandu Ioan Gabriel, Chirculescu Andreea Irina, Sandu Ion <i>Eco-friendly phisico-chemical stimuli and their impact upon the tinctorial capacity of acrylic fibres</i> REVISTA DE CHIMIE, 64, no.3, (2013), p. 281-286. Accession Number: WOS: 000319179300014 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000319179300014	0.677	0.677	0	0
35.	Bercu Elena, Diaconescu Rodica-Mariana*, Radu Cezar-Doru, Popescu Vasilica <i>New maleic copolymers used in the PAN fibres restoration spectral remission measurements</i> EUROPEAN JOURNAL OF SCIENCE AND THEOLOGY, 8, no. 4, (2012), p. 247-258. Accession Number: WOS: 000312968400023 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000312968400023	0.389	0.097	0	0
36.	Popescu Vasilica*, Mureşan Emil Loan, Grigoriu Ana-Maria <i>Monochlorotriazinyl-beta-cyclodextrin grafting onto polyester fabrics and films</i> CARBOHYDRATE POLYMERS, 86, no.2, (2011), p. 600-611. DOI:10.1016/j.carbpol.2011.04.080 Accession Number: WOS: 000294187400027 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000294187400027	3.628	3.628	9.381	9.381
37.	Popescu Vasilica*, Manea Liliana- Rozemarie, Curteza Antonela, Vasluianu Ecaterina <i>Non-conventional method for the levelling dyeing of the acrylic fibers with cationic dyestuffs</i>	0.086	0.086	0	0

	TEKSTIL , vol. 60, no. 7, (2011) , p. 306-312. Accession Number: WOS: 000317085700003 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000317085700003				
38.	Popescu Vasilica* , Radu Cezar Doru, Manea Liliana Rozemarie <i>Efectele modificărilor generate de anumite pretratamente chimice efectuate pe polimeri acrilici (Effects of the changes caused by certain chemical pretreatments performed on acrylic polymers)</i> INDUSTRIA TEXTILĂ , 61, no.1, (2010) , p. 23-30. Accession Number: WOS: 000275256000005 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000275256000005	0.853	0.853	0.784	0.784
39.	Popescu Vasilica* , Manea Liliana Rozemarie, Amariei Nicușor <i>Determination of the factors influencing the flame retardant efficiency of the protection - dyed cellulose materials using the analysis of variances</i> MATERIALE PLASTICE , 46, no. 1, (2009) , p. 95-100, cotată ISI începând cu 2009 dar cu FI în 2009= 0,0. Accession Number: WOS: 000265431100018 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000265431100018	0	0	0.784	0.784
Standardul impus FIC ≥ 30		69.258	Punctaj candidat în anul publicării FIC= 59.193	70.381	Punctaj candidat în anul 2020/2021, FIC= 61.6125
Standard indeplinit					

Calculul standardului NTOP

Nr. crt.	Lista articolelor publicate în reviste tip Q1 (zona roșie) NTOP	Cotare în anul publicării	Cotare în anul 2020/2021
1.	Popescu Vasilica *, Petrea Marioara, Popescu Andrei <i>Multifunctional Finishing of Cotton with Compounds Derived from MCT-β-CD and Quantification of Effects Using MLR Statistical Analysis</i> POLYMERS MDPI, 13, 410, (2021), p.1-23, FI în 2020/2021=4,329; punctaj =4,329. Accession Number: WOS: 000615458400001 https://www-webofscience-com.am.e-information.ro/wos/woscc/full-record/WOS:000615458400001	Q1	Q1
2.	Popescu V, Buciscanu I, Pruneanu M.,(...); Cretescu Igor, Chelariu P, Marin M. <i>Sustainable functionalization of PAN to improve tinctorial capacity</i> POLYMERS, 13, no. 21, (2021), FI în 2020/2021=4,329; punctaj = 4,329. DOI 10.3390/polym13213665 Accession Number: WOS: 000719009600001 https://www-webofscience-com.am.e-information.ro/wos/woscc/full-record/WOS:000719009600001	Q1	Q1
3.	Popescu V., Blaga AC, Pruneanu M., (...); Cretescu Igor, Cascaval D. <i>Green chemistry in the extraction of natural dyes from colored food waste, for dyeing protein textile materials</i>, POLYMERS, 13, no. 22, (2021), FI în 2020/2021=4,329; punctaj = 4,329. DOI 10.3390/polym13223867 Accession Number: WOS: 000724797300001 https://www-webofscience-com.am.e-information.ro/wos/woscc/full-record/WOS:000724797300001	Q1	Q1
4.	Popescu Vasilica*, Astanei Dragos-George, Burlica Radu, Popescu Andrei, Munteanu Corneliu, Ciolacu Florin, Ursache Mariana, Ciobanu Luminita, Cocean Alexandru <i>Sustainable and cleaner microwave-assisted dyeing process for obtaining eco-friendly and fluorescent acrylic knitted fabrics</i> JOURNAL OF CLEANER PRODUCTION, 232, (2019),	Q1	Q1

	p. 451-461, FI în 2019= 7,246; punctaj =7,246. FI în 2020/2021= 9.297; punctaj =9.297. DOI 10.1016/j.jclepro.2019.05.281 Accession Number: WOS: 000477784000042 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000477784000042		
5.	Popescu Vasilica, Muresan Augustin*, Popescu Gabriel, Balan Mihaela, Dobromir Marius <i>Ethyl chitosan synthesis and quantification of the effects acquired after grafting it on a cotton fabric, using ANOVA statistical analysis</i> CARBOHYDRATE POLYMERS, 138, (2016), p. 94–105, FI în 2016= 4,811; punctaj =4,811, FI în 2020/2021= 9.381; punctaj =9.381. Accession Number: WOS: 000368096400012 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000368096400012	Q1	Q1
6.	Popescu, Vasilica*, Vasluianu, Ecaterina, Gabriel, Popescu <i>Quantitative analysis of the multifunctional finishing of cotton fabric with non-formaldehyde agents</i> CARBOHYDRATE POLYMERS, 111, (2014), p. 870–882, FI în 2014= 4,074; punctaj =4,074, FI în 2020/2021= 9.381; punctaj =9.381. DOI: 10.1016/j.carbpol.2014.05.052 Accession Number: WOS: 000340302100106 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000340302100106	Q1	Q1
7.	Popescu Vasilica*, Mureșan Emil Ioan <i>Performances of chitosan grafted onto surface of polyacrylonitrile functionalized through amination reactions</i> INDUSTRIAL ENGINEERING CHEMISTRY RESEARCH, 52, no. 37, (2013), p. 13252-13263, FI în 2013= 2,235; punctaj=2,235, FI în 2020/2021= 3,720; punctaj=3,720. DOI: 10.1021/ie401494a Accession Number: WOS: 000330080100003 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000330080100003	Q1	Q2
8.	Popescu Vasilica*, Mureșan Emil Ioan, Grigoriu Ana-Maria <i>Monochlorotriazinyl-beta-cyclodextrin grafting onto</i>	Q1	Q1

<i>polyester fabrics and films</i> CARBOHYDRATE POLYMERS, 86, no. 2, (2011), p. 600-611, FI în 2011= 3,628; punctaj =3,628, FI în 2020/2021= 9,381; punctaj =9,381. DOI:10.1016/j.carbpol.2011.04.080 Accession Number: WOS: 000294187400027 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000294187400027		
Criteriul impus NTOP ≥ 4	NTOP = 8	NTOP = 7
	Standard ÎNDEPLINIT	

Calculul standardului NP

Nr. crt.	Lista articolelor ISI în calitate de autor principal sau autor de corespondență NP	Calitate de:	
		Autor principal	Autor de corespondență
1.	Popescu Vasilica *, Petrea Marioara, Popescu Andrei <i>Multifunctional Finishing of Cotton with Compounds Derived from MCT-β-CD and Quantification of Effects Using MLR Statistical Analysis</i> POLYMERS MDPI, 13, 410, (2021), p.1-23. Accession Number: WOS: 000615458400001 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000615458400001	Autor principal	-
2.	Popescu V*, Buciscanu I, Pruneanu M., (...); Cretescu Igor, Chelariu P, Marin M. <i>Sustainable functionalization of PAN to improve tinctorial capacity</i> POLYMERS 13 (21) (2021). DOI 10.3390/polym13213665 Accession Number: WOS: 000719009600001 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000719009600001	Autor principal	-
3.	Popescu V., Blaga AC, Pruneanu M., (...); Cretescu Igor, Cascaval D. <i>Green chemistry in the extraction of natural dyes from colored food waste, for dyeing protein textile materials</i> POLYMERS, 13, 22, (2021). DOI 10.3390/polym13223867 Accession Number: WOS: 000724797300001 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000724797300001	Autor principal	-

	nformation.ro/wos/woscc/full-record/WOS:000724797300001		
4.	Popescu Vasilica*, Astanei Dragos-George, Burlica Radu, Popescu Andrei, Munteanu Corneliu, Ciolacu Florin, Ursache Mariana, Ciobanu Luminita, Cocean Alexandru <i>Sustainable and cleaner microwave-assisted dyeing process for obtaining eco-friendly and fluorescent acrylic knitted fabrics</i> JOURNAL OF CLEANER PRODUCTION, 232, (2019), p. 451-461. DOI 10.1016/j.jclepro.2019.05.281 Accession Number: WOS: 000477784000042 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000477784000042	Autor principal	-
5.	Popescu Vasilica, a Sandulrina Crina Anc, Popescu Gabriel * <i>Study of cotton grafting with hemiacetal - MCT-β-CD derivative using fourier transform infrared spectroscopy and statistical analysis</i> REV.CHIM.(Bucharest), 68, no. 9 (2017), p. 2055-2059). Accession Number: WOS: 000416748800022 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000416748800022	Autor principal	-
6.	Popescu Vasilica, Popescu Gabriel *, Sandu Irina Crina Anca <i>Highlighting a cotton grafting process using the spectral subtraction method and statistical analysis</i> REV.CHIM. (Bucharest), 68 , no. 8, (2017), p. 1884-1889. Accession Number: WOS: 000410388000043 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000410388000043	Autor principal	-
7.	Popescu Vasilica, Sandu Irina Crina Anca, Popescu Gabriel * <i>Study of textile materials behavior at dyeing with colored aqueous extract obtained by boiling peels, arils and seeds of punica granatum: spectroscopic, colorimetric and statistic evaluations</i> REV. CHIM. (Bucharest), 67, no.12, (2016), p. 2454-2459. Accession Number: WOS: 000393230400016 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000393230400016	Autor principal	-

	nformation.ro/wos/woscc/full-record/WOS:000393230400016		
8.	Popescu Vasilica, Sandu Irina Crina Anca, Popescu Gabriel * <i>FTIR analysis for studying the possibility of grafting onto cotton of some compounds resulted from interaction of carbonyl compounds with monochlorotriazinyl-β-cyclodextrin</i> REV. CHIM. (Bucharest), 67, no.11, (2016), p. 2184. Accession Number: WOS: 000388361900011 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000388361900011	Autor principal	-
9.	Popescu Vasilica *, Sandu Irina Crina Anca, Popescu Gabriel <i>FTIR spectroscopic, colorimetric and statistic evaluations of textile materials dyed with crude extract obtained by macerating pomegranate peels</i> REV. CHIM. (Bucharest), 67, no. 10, (2016), p.1994-2000. Accession Number: WOS: 000388359900021 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000388359900021	Autor principal	-
10.	Popescu Vasilica *, Sandu Irina Crina Anca, Popescu Gabriel <i>Influence of parameters of polycondensation stage on ethyl chitosan grafting on cotton</i> REV. CHIM. (Bucharest), 67, no. 4, (2016), p.768- 773. Accession Number: WOS: 000376549200037 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000376549200037	Autor principal	-
11.	Popescu Vasilica, Muresan Augustin*, Popescu Gabriel, Balan Mihaela, Dobromir Marius <i>Ethyl chitosan synthesis and quantification of the effects acquired after grafting it on a cotton fabric, using ANOVA statistical analysis</i> CARBOHYDRATE POLYMERS, 138, (2016), p. 94–105. Accession Number: WOS: 000368096400012 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000368096400012	Autor principal	-
12.	Popescu Vasilica *, Pui Aurel, Sandu Irina Crina Anca, Popescu Gabriel	Autor principal	-

	<i>Eco-friendly dyeings of textiles with extract from pomegranate arils with seed spectroscopic, colorimetric and statistical assessment</i> REV. CHIM. (Bucharest), 67, no.2, (2016), p.270-275. Accession Number: WOS: 000372170700015 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000372170700015		
13.	Popescu Vasilica *, Sandu Irina Crina Anca, Popescu Gabriel <i>Colorimetric evaluation of chemical modifications generated by pan functionalization in acid/ basic medium and grafting with chitosan</i> REV. CHIM. (Bucharest), vol. 67, no. 1, (2016), p.74-80. Accession Number: WOS: 000369524300017 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000369524300017	Autor principal	-
14.	Popescu Vasilica *, Sandu Irina Crina Anca, Popescu Gabriel <i>Analysis of the behaviour of PAN functionalized with basic compounds, during dyeing process with acid dyes</i> REV. CHIM. (Bucharest), 66, no. 12, (2015), p.1997-2004. Accession Number: WOS: 000368437100017 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000368437100017	Autor principal	-
15.	Popescu Vasilica *, Irina Crina Anca Sandu, Gabriel Popescu, Alexandru Popa, Cezar-Doru Radu <i>Colorimetric Answer of Monochlorotriazinyl-β-cyclodextrin Grafted onto PAN Support Chemical Modified with NaOH and Amines</i> REV. CHIM. (Bucharest), 66,n. 11, (2015), p. 1765-1771. Accession Number: WOS: 000368213500011 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000368213500011	Autor principal	-
16.	Popescu Vasilica *, Sandu Irina Crina Anca, Popescu Gabriel, Lisa Gabriela, Popa Alexandru <i>Study of the Effects by Tinctorial Method Obtained at Polyethylene Terephtalate Functionalization with Alcohols</i> REV. CHIM. (Bucharest), 66, no. 10 , (2015), p. 1607-1613.	Autor principal	-

	Accession Number: WOS: 000368436300014 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000368436300014		
17.	Popescu Vasilica* , Mureșan Augustin, Constandache Ovidiu, Lisă Gabriela, Mureșan Emil Ioan, Munteanu Corneliu, Sandu Ion <i>Tinctorial response of recycled pet fibers to chemical modifications during saponification and aminolysis reactions</i> INDUSTRIAL ENGINEERING CHEMISTRY RESEARCH , 53, no.43, (2014), p.16652–16663. DOI: 10.1021/ie5028974 Accession Number: WOS: 000344042700007 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000344042700007	Autor principal	-
18.	Popescu, Vasilica* , Vasluianu, Ecaterina, Gabriel, Popescu <i>Quantitative analysis of the multifunctional finishing of cotton fabric with non-formaldehyde agents</i> CARBOHYDRATE POLYMERS , 111,(2014), p. 870–882. Factor impact în anul publicării: 4,074 DOI: 10.1016/j.carbpol.2014.05.052 Accession Number: WOS: 000340302100106 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000340302100106	Autor principal	-
19.	Popescu Vasilica* , Sandu Ioan Gabriel, Vasluianu Ecaterina, Sandu Ion, Manea Liliana Rozemarie, Campagne Cristine <i>Effects of chitosan grafting onto cotton fabric pretreated with a tetrol</i> REVISTA DE CHIMIE , 65, no. 12, (2014), p. 1439-1447 Accession Number: WOS: 000345946400009 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000345946400009	Autor principal	-
20.	Constandache Tatiana, Cerempei Angela, Mureșan Emil-Ioan, Popescu Vasilica* , Drobotă Mioara, Sandu Ion <i>Modified organic pigments used in polypropylene coloration</i> REVISTA DE CHIMIE , 65, no. 8, (2014), p. 892-896. Accession Number: WOS: 000340867000006 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-	-	Autor de corespondență

	record/WOS:000340867000006		
21.	Popescu Vasilica*, Sandu Ion <i>Multifunctional finishing with tetrol and monochlortriazinil - β-cyclodextrine</i> REVISTA DE CHIMIE, 65, no. 7, (2014), p. 811-818. Accession Number: WOS: 000345545600015 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000345545600015	Autor principal	-
22.	Popescu Vasilica*, Sandu Ion, Mureșan Emil Ioan, Istrate Bogdan, Lisă Gabriela <i>Effects of the pre-treatment with atmospheric - air plasma followed by conventional finishing</i> REVISTA DE CHIMIE, 65, no. 6, (2014), p. 676-683. Accession Number: WOS:000339140400010 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000339140400010	Autor principal	-
23.	Popescu Vasilica*, Vasluianu Ecaterina, Forna Norina-Consuela, Sandu Ion, Bercu Elena <i>Comparative study of the FTIR analysis and the performances of N,N,N-trimethyl chitosan as wrinkle-proofing agent</i> REVISTA DE CHIMIE, 64, no.11, (2013), p. 1284-1294. Accession Number: WOS: 000328441600015 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000328441600015	Autor principal	-
24.	Vasluianu Ecaterina, Popescu Vasilica*, Grigoriu Aurelia, Forna Norina Consuela, Sandu Ion <i>Comparative study concerning the FTIR analysis and the performances of chitosan-based wrinkle-proofing agents</i> REVISTA DE CHIMIE, 64, no.10, (2013), p. 1104-1115. Accession Number: WOS: 000327577600010 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000327577600010	-	Autor de corespondență
25.	Popescu Vasilica*, Mureșan Emil Ioan <i>Performances of chitosan grafted onto surface of polyacrylonitrile functionalized through amination reactions</i> INDUSTRIAL ENGINEERING CHEMISTRY RESEARCH, 52, no. 37, (2013), p. 13252-13263. DOI: 10.1021/ie401494a Accession Number: WOS: 000330080100003 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000330080100003	Autor principal	-

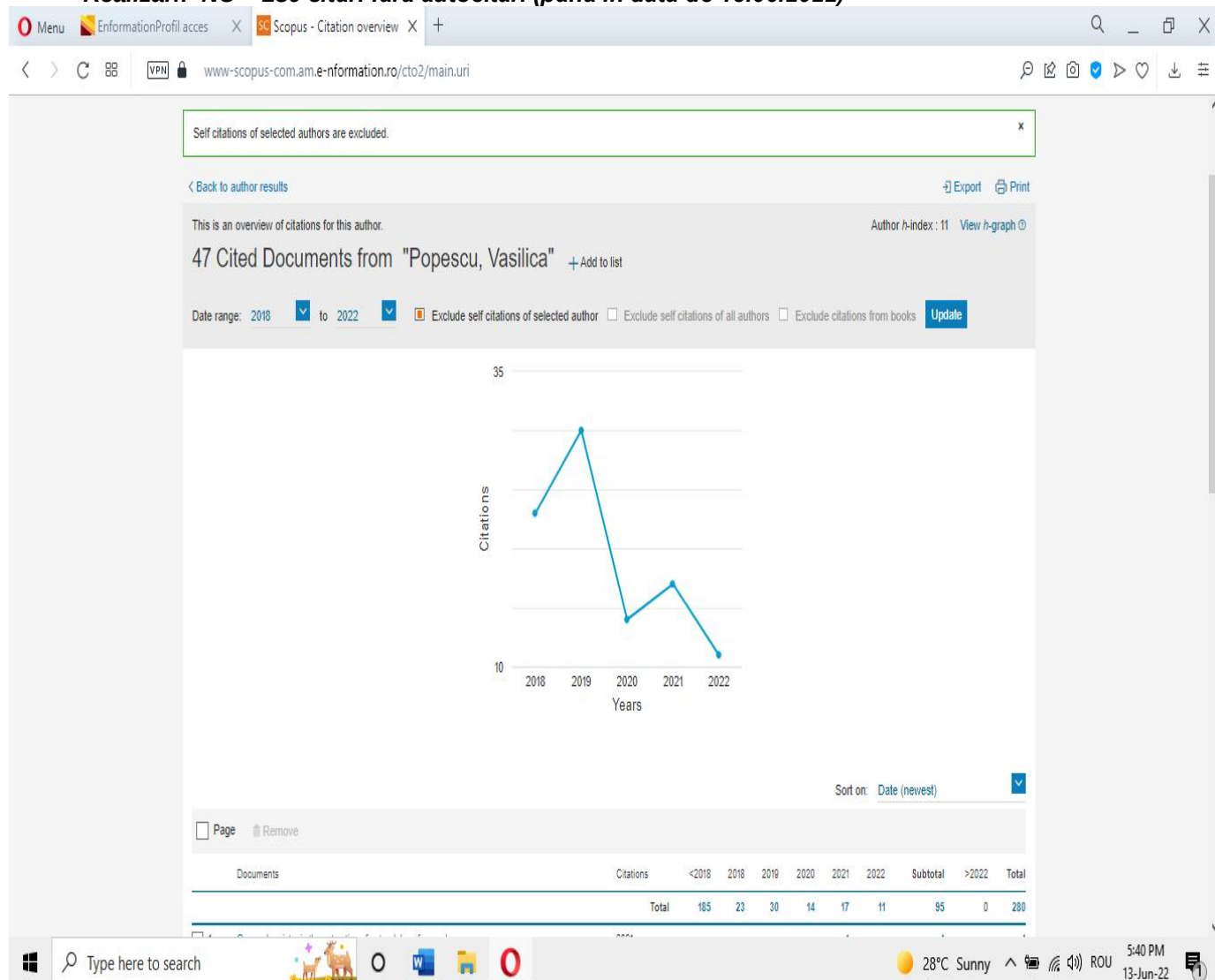
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26.	Popescu Vasilica*, Manea Liliana Rozemarie, Sandu Ioan Gabriel, Chirculescu Andreea Irina, Sandu Ion <i>Eco-friendly phisico-chemical stimuli and their impact upon the tinctorial capacity of acrylic fibres</i> REVISTA DE CHIMIE, 64, no.3, (2013), p. 281-286. Accession Number: WOS: 000319179300014 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000319179300014	Autor principal	-
27.	Popescu Vasilica*, Mureşan Emil Loan, Grigoriu Ana-Maria <i>Monochlorotriazinyl-beta-cyclodextrin grafting onto polyester fabrics and films</i> CARBOHYDRATE POLYMERS, 86, no.2, (2011), p. 600-611. DOI:10.1016/j.carbpol.2011.04.080 Accession Number: WOS: 000294187400027 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000294187400027	Autor principal	-
28.	Popescu Vasilica*, Manea Liliana-Rozemarie, Curteza Antonela, Vasluianu Ecaterina <i>Non-conventional method for the levelling dyeing of the acrylic fibers with cationic dyestuffs</i> TEKSTIL, 60, no. 7, (2011), p. 306-312. Accession Number: WOS: 000317085700003 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000317085700003	Autor principal	-
29.	Popescu Vasilica*, Radu Cezar Doru, Manea Liliana Rozemarie <i>Efectele modificărilor generate de anumite pretratamente chimice efectuate pe polimeri acrilici (Effects of the changes caused by certain chemical pretreatments performed on acrylic polymers)</i> INDUSTRIA TEXTILĂ, 61, no.1, (2010), p. 23-30. Factor impact în anul publicării: 0,853 Accession Number: WOS: 000275256000005 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000275256000005	Autor principal	-
30.	Popescu Vasilica*, Manea Liliana Rozemarie, Amariei Nicuşor <i>Determination of the factors influencing the flame retardant efficiency of the protection - dyed cellulose</i>	Autor principal	-

	<i>materials using the analysis of variances</i> MATERIALE PLASTICE, 46, no. 1, (2009), p. 95-100, cotaată ISI începând cu anul 2009, dar cu FI=0.0. Accession Number: WOS: 000265431100018 https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000265431100018		
Standardul impus $NP \geq 20$		28 articole ca autor principal	2 articole ca autor de correspondență
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Calculul standardului NC

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	Total	185	23	30	14	17	11	95	0	280
☐ 1 Green chemistry in the extraction of natural dyes from color...	2021					1		1		1
☐ 2 Sustainable functionalization of PAN to improve tinctorial c...	2021							0		0
☐ 3 Laser induced method to produce curcuminoid-silanol thin fil...	2021						3	3		3
☐ 4 Multifunctional finishing of cotton with compounds derived f...	2021							0		0
☐ 5 Multifunctionalizations of textile materials highlighted by ...	2020							0		0
☐ 6 Sustainable and cleaner microwave-assisted dyeing process fo...	2019				3	4	2	9		9
☐ 7 Study of cotton grafting with hemiacetal-MCT- β -CD derivative...	2017							0		0
☐ 8 Highlighting a cotton grafting process using the spectral su...	2017							0		0
☐ 9 Correction: The reactivity of TiO ₂ alloy in biological and...	2017							0		0
☐ 10 The reactivity of TiO ₂ alloy in biological and electrochem...	2017	1	2	3		3		8		9
☐ 11 Study of textile materials behavior at dyeing with colored a...	2018		1					1		1
☐ 12 FTIR analysis for studying the possibility of grafting onto ...	2018	1						0		1
☐ 13 Influence of parameters of polycondensation stage on ethyl c...	2018	2						0		2
☐ 14 Ethyl chitosan synthesis and quantification of the effects a...	2018		3	1	1			5		5
☐ 15 Eco-friendly dyeings of textiles with extract from pomegrana...	2018		1					1		1
☐ 16 FTIR spectroscopic, colorimetric and statistic evaluations o...	2018	3	1			1		2		5
☐ 17 Colorimetric evaluation of chemical modifications generated ...	2018	2	1	1				2		4
☐ 18 Colorimetric answer of Monochlorotriazinyl- β -cyclodextrin gr...	2015							0		0
☐ 19 Study of the effects by tinctorial method obtained at polyet...	2015	1						0		1
☐ 20 Equipment for obtaining polymeric nanofibres by electrospinn...	2015	18	3	2	1	1		7		23
☐ 21 Analysis of the behaviour of PAN functionalized with basic c...	2015	1						0		1
☐ 22 Effects of chitosan Grafting onto Cotton fabric subjected to ...	2014	45						0		45

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☐	22	Effects of chitosan Grafting Onto Cotton fabric pretreated w...	2014	15					0	15	
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☐	24	Tintorial response of recycled pet fibers to chemical modif...	2014	3	2	2		2	3	9	12
☐	25	Quantitative analysis of the multifunctional finishing of co...	2014	1	2		2	1		5	6
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☐	27	Alternative hydrophobic treatments applied on dyed fabrics	2014	1						0	1
☐	28	Multifunctional finishing with monochlorotriazine β -cyclodex...	2014	1	1					1	2
☐	29	Modified organic pigments used in polypropylene coloration	2014	3						0	3
☐	30	Effects of the pre-treatment with atmospheric-air plasma fol...	2014	4	1					1	5
☐	31	Interaction of the anionic polyelectrolytes with crystal vio...	2014	2						0	2
☐	32	Performances of chitosan grafted onto surface of polyacrylon...	2013	5		2	2		1	5	10
☐	33	Durable hydrophobic treatment of cotton fabrics with glycid...	2013	5	2	4	3	2		11	16
☐	34	Comparative study of the FTIR analysis and the performances ...	2013	3		7			1	8	11
☐	35	Comparative study concerning the FTIR analysis and the perfo...	2013	5		7		1		8	13
☐	36	Eco-friendly phisico-chemical stimuli and their impact upon ...	2013	21						0	21
☐	37	New maleic copolymers used in the pan fibres restoration spe...	2012	6						0	6
☐	38	Monochlorotriazinyl- β -cyclodextrin grafting onto polyester f...	2011	13	3	1	2	1		7	20
☐	39	[Non-conventional method for the levelling dyeing of the acr...	2011	22						0	22
☐	40	[Effects of the changes caused by certain chemical pretreatm...	2010	18						0	18
☐	41	Determination of the factors influencing the flame retardant...	2009	21				1		1	22
☐	42	[Statistical analysis of the dyeing levelness of acrylic fib...	2002							0	0
☐	43	Dyeing of wool after nonionic surfactant treatment	2001							0	0
☐	44	[The analysis of variance applied in case of tintorial syst...	2001	2						0	2
☐	45	Statistical analysis of acrylic fibres dyeing levelness Part...	2001	2						0	2
☐	46	[Possibility of study the tintorial process by using the an...	2000							0	0
☐	47	The influence of the structural modification over the dyeing...	1998							0	0

1. Statistical analysis of acrylic fibres dyeing levelness Part I: Temperature and dye concentration influence.

Citat de:

2. Fundamentals and practices in colouration of textiles: Second edition, **2014**; Book Author: Chakraborty, J.N (Textile Technology Department, National Institute of Technology, Jalandhar, India); ISBN: **978-085709282-3; 978-938030846-3**, Original language: English
Book
Publisher: Elsevier Inc.

2. The analysis of variance applied in case of tinctorial system acrylic fiber - cationic dye [Folosirea metodei de analiză dispersională în studiul sistemului tinctorial fibre acrilice - coloranți cationici]

By: **Popescu, V.**, Butnaru, R., Popescu, G.

REVISTA ROMANA DE TEXTILE - PIELARIE, Issue 1, 2001, Pages 85-90

Citat de:

1. Fundamentals and practices in colouration of textiles, 2009 (Book Autor: Chakraborty, J.N (Textile Technology Department, National Institute of Technology, Jalandhar, India); ISBN: 978-184569788-4 Original language: English

DOI: 10.1533/9780857092823 Document Type: Book

Publisher: Woodhead Publishing Limited

2. Fundamentals and practices in colouration of textiles: Second edition, 2014; Book Autor: Chakraborty, J.N (Textile Technology Department, National Institute of Technology, Jalandhar, India); ISBN: 978-085709282-3; 978-938030846-3, Original language: English

Book, Publisher: Elsevier Inc.

3. Determination of the Factors Influencing the Flame Retardant Efficiency of the Protection - Dyed Cellulose Materials Using the Analysis of Variances

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MATERIALE PLASTICE Volume: 46 Issue: 1 Pages: 95-100 Published: 2009

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1. Effects of Cellulose Functionalization with Ethylenediamide Tetrakis(Ethoxylate-block-propoxylate) Tetrol

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By: Manea, Liliana Rozemarie; Cramariuc, Bogdan; Caunii, Vasile; et al.

MATERIALE PLASTICE Volume: 52 Issue: 1 Pages: 82-86 Published: MAR 2015

3. Study on Behaviour of Polymer Solutions in Electrospinning Technology

By: Manea, Liliana Rozemarie; Scarlet, Roxana; Amariei, Nicusor; et al.

REVISTA DE CHIMIE Volume: 66 Issue: 4 Pages: 542-546 Published: APR 2015

4. Control of Nanofibers Production Process Through Electrospinning

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By: Minciuna, M. G.; Achitei, D. C.; Vizureanu, P.; et al.
Conference: 19th International Scientific Conference on New Technologies and Achievements in Metallurgy, Material Engineering, Production Engineering and Physics Location: Czestochowa, POLAND Date: JUN 07-08, 2018
Sponsor(s): Czestochowa Univ Technol, Fac Prod Engn & Mat Technol
ACTA PHYSICA POLONICA A Volume: 135 Issue: 2 Pages: 115-118 Published: FEB 2019

7. Assessment of the effects of si addition to a new TiMoZrTa system

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By: Spataru, M.-C., Cojocaru, F.D., Sandu, A.V., (...), Geanta, V., Vizureanu, P.
MATERIALS, 14(24),7610, 2021

8. Electrochemiluminescence at 3D Printed Titanium Electrodes

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By: Douman, S.F., De Eguilaz, M.R., Cumba, L.R., (...), Iwuoha, E.I., Forster, R.J.
FRONTIERS IN CHEMISTRY, 9,662810, 2021

9. Wireless electrochemiluminescence at functionalised gold microparticles using 3D titanium electrode arrays

By: Douman, S.F., Collins, D., Cumba, L.R., (...), Pellegrin, Y., Forster, R.J.
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29. FTIR analysis for studying the possibility of grafting onto cotton of some compounds resulted from the interaction of carbonyl compounds with monochlorotriazinyl- β -cyclodextrin

By: Popescu V., Sandu I.C.A., Popescu G.
REVISTA DE CHIMIE, 2016, (11) 2184-2189, Published 2016

Citat de:

1. Aging study of gold nanoparticles functionalized with chitosan in aqueous solutions

By Lupusoru, R.V., Simion, L., Sandu, I., (...), Chiriac, A., Poroch, V.
REVISTA DE CHIMIE, 2017, 68(10), pp. 2385-2388, Published 2017

30. Influence of parameters of polycondensation stage on ethyl chitosan grafting on cotton

By: Popescu V., Sandu I.C.A., Popescu G.
REVISTA DE CHIMIE, 2016, (4) 768-773, Published 2016

Citat de:

1. Aging study of gold nanoparticles functionalized with chitosan in aqueous solutions

By Lupusoru, R.V., Simion, L., Sandu, I., (...), Chiriac, A., Poroch, V.
REVISTA DE CHIMIE, 2017, 68(10), pp. 2385-2388, Published 2017

2. Study on Performing an Optimal Chitosan Cased Hydrogel for a New System of Controlled Release of Honokiol

By: Parteni, Oana; Sandu, Andrei Victor; Radu, Cezar Doru; et al.
REVISTA DE CHIMIE Volume: 67 Issue: 5 Pages: 911-915 Published: MAY 2016F

31. Study of the effects by tinctorial method obtained at polyethylene terephthalate functionalization with alcohols

By: Popescu V., Sandu I.C.A., Popescu G., Lisa G., Popa A.
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1. Effect of methyl methacrylate/hydroxyethyl methacrylate copolymer on optical and mechanical properties and long-term durability of paper under accelerated ageing

By Hassan, R.R.A., Mohamed, W.S.
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32. Study of Textile Materials Behavior at Dyeing with Colored Aqueous Extract Obtained by Boiling Peels, Arils and Seeds of Punica Granatum Spectroscopic, colorimetric and statistic evaluations

By: Popescu Vasilica; Sandu Irina Crina Anca; Popescu Gabriel
REVISTA DE CHIMIE Volume: 67 Issue: 12 Pages: 2454-2459 Published: DEC 2016

Citat de:

1. Testing Methods of Assessment for the Chemical Resistance of Insulating Materials Against the Effect of Selected Acids

By: Otrisal, Pavel; Melicharik, Zdenek; Svorc, Lubomir; et al.
MATERIALE PLASTICE Volume: 55 Issue: 4 Pages: 545-551 Published: DEC 2018

33. Eco-friendly Dyeings of Textiles with Extract from Pomegranate Arils with Seeds Spectroscopic, colorimetric and statistical assessment

By: Popescu Vasilica; Pui Aurel; Sandu Irina Crina Anca; et al.
REVISTA DE CHIMIE Volume: 67 Issue: 2 Pages: 270-275 Published: FEB 2016

Citat de:

1. Testing Methods of Assessment for the Chemical Resistance of Insulating Materials Against the Effect of Selected Acids

By: Otrisal, Pavel; Melicharik, Zdenek; Svorc, Lubomir; et al.
MATERIALE PLASTICE Volume: 55 Issue: 4 Pages: 545-551 Published: DEC 2018

34. Sustainable and cleaner microwave-assisted dyeing process for obtaining eco-friendly and fluorescent acrylic knitted fabrics

By: Popescu V., Astanei D.-G., Burlica R., Popescu A., Munteanu C., Ciolacu F., Ursache M., (...), Cocean A.

Citat de:

1.Color-changing intensified light-emitting multifunctional textiles: Via digital printing of biobased flavin

Open Access

By: Iyer, S.N., Behary, N., Guan, J., Orhan, M., Nierstrasz, V.

RSC ADVANCES, 10(69), pp. 42512-42528, 2020

2.An overview of subcritical and supercritical water treatment of different biomasses for protein and amino acids production and recovery

By: Di Domenico Ziero, H., Buller, L.S., Mudhoo, A., (...), Mussatto, S.I., Carneiro, T.F.

JOURNAL OF ENVIRONMENTAL CHEMICAL ENGINEERING, 8(5),104406, 2020

3.Development of comfortable and eco-friendly cellulose based textiles with improved sustainability

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By: Novaković, M., Popović, D.M., Mladenović, N., Poparić, G.B., Stanković, S.B.

JOURNAL OF CLEANER PRODUCTION, 267,122154, 2020

4.A systematic literature review for the recycling and reuse of wasted clothing

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By: Xie, X., Hong, Y., Zeng, X., Dai, X., Wagner, M.

SUSTAINABILITY (Switzerland), 13(24),13732, 2021

5.Structural Coloration of Polyester Fabrics with High Colorfastness by Copolymer Photonic Crystals Containing Reactive Epoxy Groups

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By: Liu, X., Yan, P., Fang, Y.

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6.Investigation on the construction, photophysical properties and dyeing mechanism of 1,8-naphthalimide-based fluorescent dyes suitable for dyeing wool fibers in supercritical CO₂

by: Jia, M., Hu, H., Xiong, X., (...), Zhang, S., Hou, J.

DYES AND PIGMENTS, 190,109343, 2021

7.Eco-friendly colorization of textile originating from polydopamine nanofilm structural color with high colorfastness

By: Fang, Y., Liu, X., Zheng, H., Liu, H.

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8.Sustainable application of Cassia obovata-based chrysophanic acid as potential source of yellow natural colorant for textile dyeing

By: Hasan, M., Adeel, S., Batool, F., (...), Amin, N., Khan, S.R.

ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, 29(7), pp. 10740-10753, 2022

9.Fabrication of durable fluorescent and hydrophobic cotton fabrics by multiple surface modifications

By: Liu, H., Yin, Y., Zhou, J., (...), Peng, F., Qi, H.

INDUSTRIAL CROPS AND PRODUCTS, 175,114238, 2022

35. Green chemistry in the extraction of natural dyes from colored food waste, for dyeing protein textile materials

By: Popescu V., Blaga A.C., Pruneanu M., Cristian I.N., Pislaru M., Popescu A., Rotaru V., (...), Cascaval D.

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1. Opportunities of using Spirulina platensis as homemade natural dyes for textiles

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By: Ciptandi, F., Susilowati, T.H., Ramadhan, M.S.

OPEN AGRICULTURE, 6(1), pp. 819-825, 2021

36. Laser induced method to produce curcuminoid-silanol thin films for transdermal patches using irradiation of turmeric target

By: Cocean A., Cocean I., Cimpoesu N., Cocean G., Cimpoesu R., Postolachi C., Popescu V., Gurlui S.

APPLIED SCIENCES (Switzerland), 2021

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1.High-Power Laser Deposition of Chitosan Polymers: Medical and Environmental Applications

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By: Cocean, G., Cocean, A., Postolachi, C., (...), Cocean, I., Gurlui, S.
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2. Saharan Dust Storm Aerosol Characterization of the Event (9 to 13 May 2020) over European AERONET Sites, Open Access

By: Garofalide, S., Postolachi, C., Cocean, A., (...), Gurlui, S., Leontie, L.
ATMOSPHERE, 13(3),493, 2022

3.The Origin and Physico-Chemical Properties of Some Unusual Earth Rock Fragments

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BY: **Popescu V.**, Muresan A., Popescu G., Balan M., Dobromir M.
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1.Introducing statistical process control techniques into a headliner subassembly process

By: Rose, T.G.

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By: Qiang, T., Wang, J., Wolcott, M.P.

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3.Facile Preparation of Cellulose/Poly lactide Composite Materials with Tunable Mechanical Properties

By: Qiang, T., Wang, J., Wolcott, M.P.

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4. Modification of chitosan/chitin and its oligosaccharides (Book Chapter)

By: Liu, X., Jiang, Q.

OLIGOSACCHARIDES OF CHITIN AND CHITOSAN: BIO-MANUFACTURE AND APPLICATIONS, pp. 129-159m. 2019

5.Antimicrobial chitosan conjugates: Current synthetic strategies and potential applications

Open Access

By: Qin, Y., Li, P.

INTERNATIONAL JOURNAL OF MOLECULAR SCIENCES, 21(2),499, 2020

.....
TOTAL citări în SCOPUS (fără autocitări), NC = 280
rezultă STANDARD ÎNDEPLINIT (deoarece NC > 120)

Calculul standardului NCO

Pentru standardul NCO am realizat contractul cu nr. 16717 / 2022, în calitate de director de proiect, cu firma S.C. Plastprod S.R.L. cu sediul în localitatea Holboca, județul Iași, în valoare de 50000 lei (exclusiv TVA); rezultă ca și acest standard este ÎNDEPLINIT deoarece NCO = 1.

Tabel centralizator cu valorile obținute pentru standardele NTOP, NP, FIC, NC și NCO

Standarde minimale la nivel național	Impus	Realizat	Concluzia
NTOP Număr total de articole în reviste ISI situate în top 25% (zona roșie) în calitate de autor principal. Situația revistelor în top 25% se judecă pe cazul cel mai favorabil pentru candidat, fie la momentul publicării, fie la data înscrierii la concurs.	4	8 articole Q1 în anul publicării sau 7 articole Q1 la data înscrierii la concurs	Îndeplinit
NP Număr articole în reviste ISI la care candidatul este autor principal (prim autor sau autor de corespondență)	20	30	Îndeplinit
FIC Factor de impact cumulat (suma factorilor de impact ai revistelor la momentul înscrierii la concursul pentru ocuparea unei poziții didactice) <i>În acest caz în calculul FIC se ține seamă de factorul de impact al revistei la care candidatul a publicat un articol ca autor principal și respectiv de factorul de impact împărțit la numărul de autori pentru revistele în care candidatul a publicat un articol în care nu este autor principal.</i>	30	61.6125 la momentul înscrierii la concurs	Îndeplinit
NC Număr total de citări (din baza SCOPUS) (se exclud autocitățile candidatului)	120	280	Îndeplinit
NCO Număr contracte de cercetare-dezvoltare-inovare obținute prin competiție la nivel național sau internațional ori contracte de cercetare-dezvoltare-inovare cu terții în valoare minimă echivalentă cu 10.000 Euro	1	1	Îndeplinit

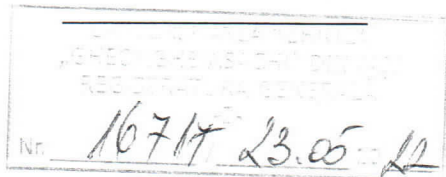
Data:

20.06.2022

Candidat,

Conf. Univ. Dr. Ing. Popescu Vasilica



**CONTRACT DE CERCETARE/**

nr. /

Cap. I. Părțile contractante

UNIVERSITATEA TEHNICĂ "GHEORGHE ASACHI" DIN IAȘI, C.T.T. Polytech, cu sediul în Iași, Bld. Profesor Dimitrie Mangeron nr. 67, cod 700050, telefon/fax 0232 237666, e-mail: uti.polytech@yahoo.com, având cod fiscal nr. RO 13805460 și cont IBAN nr. RO44TREZ406502201X020634, deschis la Trezoreria Iași, reprezentată prin RECTOR - prof. univ. dr.ing. Dan Cașcaval, Director economic - ec. Mariana Crivoi și Director contract conf. univ. dr. ing. Popescu Vasilica, în calitate de **executant** pe de o parte și

SC PLASTPROD SRL, cu sediul în Holboca, str. Firmelor, nr. 8, telefon 0755116677, înregistrată la Registrul Comerțului sub nr. J22/1185/1998, având cod fiscal nr. RO 6782593 și cont bancar nr. RO61 UGBI 0000 5720 0311 1RON, deschis la GARANTI BBVA IASI, reprezentată prin Director dr. ing. Savencu Corneliu Emilian, Contabil Șef Ec. Zaharia Claudia și Director contract dr. ing. Savencu Corneliu Emilian, în calitate de **beneficiar** pe de altă parte, convin de comun acord încheierea prezentului contract după cum urmează:

Cap. II. Obiectul contractului

Executantul se obligă să realizeze lucrarea de *cercetare*¹⁾, cu tema "*Cercetari privind obținerea de materiale superabsorbante*" iar beneficiarul să recepționeze lucrarea.

Cap. III. Durata contractului

Termenul de realizare a lucrării este 10.09.2022 conform temei program – Anexa 1.

Dacă pe parcursul derulării contractului executantul nu poate respecta termenul mai sus menționat, acesta are obligația de a notifica în timp util acest lucru beneficiarului. Modificarea perioadei de derulare a contractului se face, cu acordul părților, prin încheierea unui act adițional la prezentul contract.

Cap. IV. Valoarea contractului. Modalități de plată.

Valoarea contractului este de 50.000 lei exclusiv TVA, conform notei de negociere/ comenzii anexată la contract.

În cazul în care valoarea contractului cuprinde și cheltuieli salariale, se vor evidenția, în Anexa 2, tarife orare corespunzătoare funcțiilor de cercetare utilizate în contract.

Plata contravalorii contractului se face de către beneficiar, după cum urmează:

- a) cu avans de%.... la data semnării contractului, restul de din valoarea contractului urmând a fi achitat în maxim 30 zile de la data emiterii de către executant a facturii.
- b) cu O.P. virament sau cash, în termen de maxim 30 zile de la data emiterii de către executant a facturii.

La semnarea contractului, executantul va menționa expres modalitatea de plată aleasă după cum urmează: pct b, cu virament în 30 zile de la data emiterii de către executant a facturii.

Cap. V. Obligațiile părților contractante**A) Executantul se obligă:**

1. să realizeze lucrarea contractată în condițiile și la termenul prevăzut în contract;
2. să notifice beneficiarului asupra situației apărute ulterior semnării contractului și să solicite acestuia prelungirea perioadei de prestare a serviciilor, cu întocmirea unui Act Adițional în termen;
3. să prezinte beneficiarului rezultatele lucrării, conform temei program, în termen de 3 zile de la finalizarea lucrării, în vederea recepționării acesteia;
4. să remedieze în termen de 7 zile eventualele deficiențe ale lucrării constatate la data întocmirii procesului verbal de recepție, dacă acestea sunt datorate din culpa sa exclusivă. În caz contrar, remediile lucrării se vor face numai contracost, pe cheltuiala beneficiarului, în termenul mai sus menționat. Predarea lucrărilor suplimentare se va face imediat după încasarea valorii acestora în baza facturii ce va fi emisă, în acest sens, de executant;
5. să emită beneficiarului factura cu valoarea contractului/lucrărilor efectuate, în baza procesului verbal de recepție semnat de beneficiar;

B) Beneficiarul se obligă:

1. să pună la dispoziția executantului, toate informațiile pe care acesta le consideră utile realizării lucrării, în termenul solicitat;
2. să verifice modul de prestare a serviciilor pentru a stabili conformitatea lor cu prevederile din propunerea tehnică și din tema program și să notifice în scris de îndată executantului eventualele sale observații;

3. să semneze procesul verbal de recepție a lucrării în baza prezentării rezultatelor în maxim 3 zile de la predarea lucrării și să-l transmită imediat executantului pentru facturare;
4. să achite în termen contractual, contravaloarea contractului, inclusiv contravaloarea remedierilor constatate în condițiile lit.A, pct.4;

Cap. VI. Penalități

În cazul în care, din vina sa exclusivă, executantul nu reușește să își îndeplinească obligațiile asumate prin contract, să suporte ca penalități, o sumă echivalentă cu o cotă procentuală de 0.02 % / zi întârziere din valoarea contractului nerealizat.

În cazul în care beneficiarul nu onorează facturile în termen contractual, acesta are obligația de a plăti ca penalități, o sumă echivalentă cu o cotă procentuală de 0.02 % / zi întârziere din plata neefectuată.

Cap. VII. Confidențialitatea

Părțile vor asigura secretul profesional pe durata contractului, precum și după încetarea acestuia. TUIASI are obligația de a nu comunica, în nici o situație, altor persoane sau entități, informații confidențiale aparținând Beneficiarului cu excepția consimțământului scris, obținut, în prealabil, în acest sens. De asemenea, Beneficiarul nu va face publice informații și rezultate ale serviciilor efectuate, fără consimțământul scris al TUIASI. În plus, părțile au obligația de a nu folosi, în defavoarea Parteneriatului, informațiile primite sau rezultatele studiilor, testelor și cercetărilor efectuate în cursul și în scopul realizării contractului.

Cap. VIII. Drepturi de proprietatea intelectuală

Rezultatele cercetărilor obținute pe baza derulării contractului aparțin părților și/sau angajaților acestora, conform legislației în vigoare referitoare la titlurile de proprietate industrială și drepturile de autor. Rezultatele cercetărilor sunt administrate de proprietarii acestora, cu toate drepturile care decurg din calitatea de proprietar.

Revendicarea proprietății intelectuale rezultate, funcție de natura rezultatelor cercetării, a participantilor la obtinerea acestora, de scopul și obiectivele proiectului, se face prin încheierea unuia din tipurile de Acord de colaborare prezentate, după cum urmează:

Proprietatea intelectuală aparține Beneficiarului, însă prin contract se prevede că TUIASI poate deține dreptul de utilizare în scop necomercial, didactic, etc.

Cap. IX. Rezilierea contractului

Nerespectarea obligațiilor asumate prin prezentul contract de către una din părți, dă dreptul părții lezate de a cere rezilierea contractului de servicii și de a pretinde plata de daune-interese.

Cap. X. Forță majoră

Forța majoră este constatată de o autoritate competentă.

Forța majoră exonerează părțile contractante de îndeplinirea obligațiilor asumate prin prezentul contract, pe toată perioada în care acesta acționează.

Îndeplinirea contractului va fi suspendată în perioada de acțiune a forței majore, dar fără a prejudicia drepturile ce li se cuveneau părților până la apariția acestora.

Partea contractantă care invocă forța majoră are obligația de a notifica celeilalte părți, imediat și în mod complet, producerea acesteia și de a lua orice măsuri care îi stau la dispoziție în vederea limitării consecințelor.

Dacă forța majoră acționează sau se estimează că va acționa o perioadă mai mare de 6 luni, fiecare parte va avea dreptul să notifice celeilalte părți încetarea de plin drept a prezentului contract, fără ca vreuna dintre părți să poată pretinde celeilalte daune-interese.

Cap. XI. Amendamente

Părțile contractante au dreptul, pe durata îndeplinirii contractului, de a conveni modificarea clauzelor contractului prin act adițional numai în cazul apariției unor circumstanțe care lezează interesele legitime ale acestora și care nu au putut fi prevăzute la data încheierii contractului.

Cap. XII. Soluționarea litigiilor

Beneficiarul și executantul vor face toate eforturile pentru a rezolva pe cale amiabilă, prin tratative directe, orice neînțelegere sau dispută care se poate ivi între ei în cadrul sau în legătură cu îndeplinirea contractului.

Dacă după 15 zile de la începerea acestor tratative neoficiale beneficiarul și executantul nu reușesc să rezolve în mod amiabil o divergență contractuală, fiecare poate solicita ca disputa să se soluționeze de către instanțele judecătorești din Iași.

Cap. XIII. Comunicări

1. Orice comunicare între părți, referitoare la derularea prezentului contract, respectiv la schimbarea datelor de contact, a numelor și adreselor de contact, trebuie să fie transmisă în scris. Orice document scris trebuie înregistrat atât în momentul transmiterii, cât și în momentul primirii acestuia.

2. Comunicările între părți se pot face și prin fax sau e-mail, cu condiția confirmării în scris a primirii comunicării.

3. Orice informare sau comunicare necesară a fi stabilită între părți, în cadrul prezentului contract, va fi transmisă următoarelor persoane de contact:

-din partea TUIASI - persoana de contact:

Nume și prenume	Popescu Vasilica
Adresa	Str. Cetățuia nr. 12. Bl. 764, Sc B, etaj 3, ap. 13, Iași
e-mail:	vasilica.popescu@academic.tuiasi.ro
Telefon:	0726371108
Fax:	-

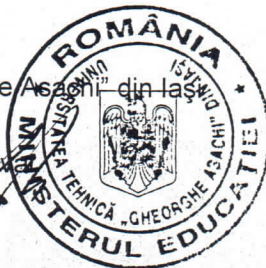
-din partea Beneficiarului - persoana de contact:

Nume și prenume	Savencu Corneliu Emilian
Adresa	str. Oancea nr.34 Bl D2, et.2, Iași
e-mail:	savencu_corneliu@yahoo.com
Telefon:	0755116677
Fax:	-

Alte clauze:

Prezentul contract a fost încheiat în 2 (două) exemplare, pentru fiecare parte câte un exemplar.

EXECUTANT
Universitatea Tehnică "Gheorghe Asachi" din Iași
/Rector,
Prof.dr.ing. Dan Cașcaval

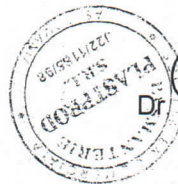


Director economic,
Ec. Mariana Crivoi

Coordonator Centru/Laborator Cercetare,
Conf. univ. dr. ing. Maier Stelian Sergiu

Director contract,
Conf. univ. dr. ing. Popescu Vasilica

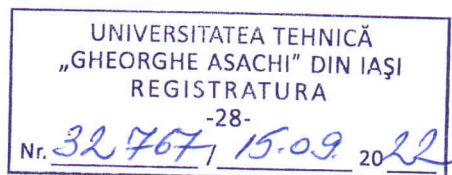
Oficiul Juridic,
Jr. Mirela Troia



BENEFICIAR
Director,
Dr. ing. Savencu Corneliu Emilian

Contabil Șef,
Zaharia Claudia

Director contract,
Dr. ing. Savencu Corneliu Emilian



ADEVERINTA

La solicitarea doamnei Conf.dr.ing. Vasilica Popescu, confirmăm prin prezenta derularea prin D.M.M.P. a contractelor de cercetare prezentate mai jos.

Calitatea	Nr.	Titlul proiectului	Număr contract/tip	Valoare contract (RON)	Perioada/ anul	Director / Responsabil proiect
Director proiect	1	CERCETARI PRIVIND OBTINEREA DE MATERIALE SUPERABSORBANTE	Agent economic 16717/23.05.2022	50000,00 exclusiv TVA	2022	Conf. Vasilica Popescu

În prezent contractul este finalizat complet. DMMP poate oferi detalii suplimentare, la cerere.

1
Rector,
Prof.dr.ing Dan Cașcaval



Director D.M.M.P,
Ing. Nicoleta Cuciureanu

Întocmit,
Ing. Virgil Medvichi

TEMA PROGRAM

Obiectul contractului: cercetare pe tema "Cercetari privind obținerea de materiale superabsorbante".

Etapa I-a, anul 2022, valoare: 50000 lei exclusiv TVA

Faza 1: Căi și metode de obținere a materialelor superabsorbante

Termen predare: 10.06.2022 Termen decontare 10.07.2022

Valoare faza 1: 50000 lei exclusiv TVA

Faza 2: Asistență tehnică

Termen predare: 10.09.2022 Termen decontare -

Valoare faza 2: 0 lei

EXECUTANT

Rector,
Prof. dr. ing. Dan Cașcava
Director Contract,
Conf. univ. dr. ing. Popescu Vasilica



BENEFICIAR

Director,
Dr. ing. Savencu Corneliu Emilian
Director Contract,
Dr. ing. Savencu Corneliu Emilian

Caracterizarea proiectului de cercetare 16717/23.05.22 -valoare 50000 lei (exclusiv TVA)

La solicitarea firmei S.C Plastprod S.R.L am efectuat tema “*Cercetări privind obținerea de materiale superabsorbante*”; a fost posibilă finalizarea și predarea **Raportului final** în data de 10.06.2022 (dar înregistrat la TUIASI prin **Procesul verbal de recepție Nr. 21020/17.06.2022**) datorită faptului că lucrez pe tema creșterii hidrofiliei/absorbantei prin funcționalizarea textilelor, încă din 2014. Am obținut rezultate remarcabile pe care le-am publicat în reviste de prestigiu precum cele indicate mai jos:

1.Popescu, V*, Vasluianu, E., Popescu, G., *Quantitative analysis of the multifunctional finishing of cotton fabric with non-formaldehyde agents*, **CARBOHYDRATE POLYMERS**, 111, (2014), p. 870–882, **FI 2014= 4,074, FI 2021=9,381**.
DOI 10.1016/j.carbpol.2014.05.052
[https://www-webofscience-com.am.e-nformation.ro/wos/woscc/fullrecord/](https://www-webofscience-com.am.e-nformation.ro/wos/woscc/fullrecord/WOS:000340302100106)
[WOS:000340302100106](https://www-webofscience-com.am.e-nformation.ro/wos/woscc/fullrecord/WOS:000340302100106)

2. Popescu, V*, Petrea, M., Popescu, A., *Multifunctional Finishing of Cotton with Compounds Derived from MCT- β -CD and Quantification of Effects Using MLR Statistical Analysis*, **POLYMERS (BASEL)**, 13, no. 410, (2021), p.1-23, **FI 2021=4,967**.
DOI 10.3390/polym13030410
[https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-](https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000615458400001)
[record/WOS:000615458400001](https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000615458400001)

3.Vasilica Popescu*, Ion Sandu
Multifunctional finishing with monochlorotriazinil β -cyclodextrine and tetrol
REV. CHIM. (Bucharest), 65, no. 7, (2014), pp. 811-818, **FI în 2014= 0,810**
[https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-](https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000345545600015)
[record/WOS:000345545600015](https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000345545600015)

4.Vasilica Popescu*, Ion Sandu, Emil Ioan Mureșan, Bogdan Istrate, Gabriela Lisa
Effects of the Pre-treatment with Atmospheric - Air Plasma Followed by Conventional Finishing
REV. CHIM. (Bucharest), 65, no. 6, (2014), pp. 676-683, **FI în 2014= 0,810**
[https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-](https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000339140400010)
[record/WOS:000339140400010](https://www-webofscience-com.am.e-nformation.ro/wos/woscc/full-record/WOS:000339140400010)

Din analiza acestor articole se poate observa ca prin funcționalizarea cu diferiți agenți chimici am reușit să confer o hidrofilie pronunțată materialelor textile, hidrofilie/absorbantă pe care am evidențiat-o prin determinarea timpului de imersie, a unghiurilor de contact și a absorbantei prin capilaritate. Am obținut o absorbantă marită chiar și atunci când materialele textile erau tratate cu agenți chimici care împiedică pătrunderea apei în interiorul lor (agenții de neșifonabilizare, din articolele enumerate), lucru care nu s-a mai obținut pînă acum pe plan mondial.

Munca mea de cercetare pe această temă a continuat și după ce am publicat aceste articole și a condus la rezultate (nepublicate pînă în prezent) pe care doream să le utilizez în depunerea unui proiect de cercetare de tip internațional. Inșă, la solicitarea firmei S.C Plastprod S.R.L,

folosind o parte din rezultatele obținute/nepublicate și mai ales experiența acumulată în toți acești ani de cercetare pe tema absorbției mărite (2014-2022) am reușit să realizez ceea ce mi-a solicitat această firmă, încă din faza 1 a contractului, fază numită *Căi și metode de obținere a materialelor superabsorbante*, cu termen de predare 10.06.2022 (conform actului TEMA PROGRAM încheiat între cele două părți, Universitatea TUIASI în calitate de executat și firma S.C. Plastprod S.R.L, ca beneficiar. Faptul că această firmă a achitat întreaga valoare, ultimul ordin de plată fiind în data de 30.06.2022 (OP 7 din 30.06.2022), confirmă satisfacția clientului și reușita activității de cercetare prestate de mine. Etapa 2 de Asistență tehnică a fost necesară doar pentru a fi remunerată pentru munca prestată.

Acest proiect de cercetare abordează atât metodele de funcționalizare prin reticularea polimerilor din fibrele textile în scopul obținerii superabsorbantei cât și modalitățile de testare ale efectelor obținute.

Metode de funcționalizare folosite:

- tratarea chimică a fibrelor *crude* (non-absorbante) în scopul schimbării structurii inițiale a fibrei polimerice și generării unui nou polimer care să dețină numeroase grupe polare ce manifestă afinitate pentru apă și soluții apoase;

- folosirea unor polimeri sintetizați, bogați în grupe polare, care aplicați pe materialele textile înserează proprietăți absorbante.

Popescu Vasilica

A handwritten signature in blue ink, consisting of a series of loops and a long horizontal stroke extending to the right.

Nr.contr./data 19717/23.05.2022	Director Conf. POPESCU VASILICA	Durata contractului 23.05.2022 - 10.09.2022	1 EUR =
Beneficiar S.C. PLASTPROD SRL	Adresa Holboca, str. Firmelor nr. 8, jud. Iași	RO6782593 J22-1185/1998	Cod 2586

TITLUL: CERCETARI PRIVIND OBTINEREA DE MATERIALE SUPERABSORBANTE

Valoare fara TVA	50000,00	Termen	10.09.2022	Valoare cu TVA	59500,00
ET. 1/22	50000,00	ET. 1/22	10.06.2022	ET. 1/22	59500,00
ET. 2/22	0	ET. 2/22	10.09.2022	ET. 2/22	0,00
					0,00
					0,00
					0,00
					0,00
					0,00
					0,00

Conform act additional nr.

Valoare	0,00	Termen		Tulasi	0,00
					0,00
					0,00
					0,00
					0,00
					0,00
					0,00
					0,00

ETAPA 1

Proces verbal receptie	Nr.	Data	Factura	Nr.	Data
	21020	17.06.2022		860	20.06.2022
Ordin de plata / chitanta	Nr.	Data	Valoare factura	fara TVA	TVA
			50000,00	9500,00	59500,00

ÎNCASAT	12605,04	2394,96	15000,00	OP 4/29.06.22
	12605,04	2394,96	15000,00	OP 5/30.06.22
	12184,87	2315,13	14500,00	OP 6/30.06.22
	12605,04	2394,96	15000,00	OP 7/30.06.22