

Universitatea Transilvania din Braşov

Facultatea: Ştiinţa şi Ingineria Materialelor

Departamentul: Ingineria Materialelor şi Sudură

**FIŞA DE VERIFICARE A ÎNDEPLINIRII STANDARDELOR MINIMALE
PENTRU OCUPAREA POSTULUI DE CONFERENŢIAR UNIVERSITAR
APROBATE PRIN O.M.E.C.T.S.**

Domeniul: **Ingineria Materialelor** (M.O. 890/27.12.2012)

Condiţii	Îndeplinire condiţii	
A. Doctor		
B. Îndeplinirea standardelor minime naţionale, conform O.M.E.C.T.S. 6560/ 20 12. 2012, cu Anexele publicate în M.O. 890 bis/27 decembrie 2012		
Condiţii minime [Punctaj]	Minim prevăzut	Realizat
A1. Activitate didactică/profesională	20	21,36
A2. Activitatea de cercetare	150	531,90
A3. Recunoaşterea şi impactul activităţii	30	517,72
Total (A)	200	1070,98
Condiţii minime obligatorii pe subcategorii [Număr]	Minim prevăzut	Realizat
1.1. Cărţi/capitole în cărţi de specialitate	1	1
1.2.1. Manuale didactice/monografii	1	1
1.2.2. Îndrumare de laborator/aplicaţii	1	1
2.1. Articole în reviste cotate ISI Thomson Reuters şi în volume indexate ISI proceedings, din care:	10	22
Articole în reviste cotate ISI Thomson Reuters	5	17
Articole în reviste cotate ISI Thomson Reuters cu FI minim 0,5	3	17
Articole în reviste cotate ISI Thomson Reuters ca autor principal indiferent de FI	2	10
2.2. Articole în reviste şi în volumele unor manifestări ştiinţifice indexate în alte baze de date internaţionale	2	14
2.4. Granturi câştigate prin competiţie, din care	2	3
Director/responsabil	1	3

A1. Activitatea didactică și profesională (conferențiar-minim 20 puncte)**A 1.1.1.1. Cărți internaționale/capitole ca autor**

1.1 Cărți și capitole in cărți de specialitate			Punctaj indeplinit
1.1.1 Cărți/capitole ca autor (minim 1) 1.1.1.1. Internaționale	1. S. Pațachia; C. Croitoru. Biopolymers for wood preservation. În: Biopolymers and Biotech Admixtures for Eco-Efficient Construction Materials, Editori: F.Pacheco-Torgal, V. Ivanov, N. Karak, H. Jonkers, Woodhead Publishing, Elsevier, 2016, Pag. 305–332 (28 pagini). https://www.scopus.com/record/display.uri?eid=2-s2.0-84967335424&origin=resultslist&sort=plf-f&src=s&st1=croitoru%2c+c&st2=&sid=62294EA064735443C51F98F2A26C148C.y7ESLndDIsN8cE7qwvy6w%3a10&sot=b&sdt=b&sl=24&s=AUTHOR-NAME%28croitoru%2c+c%29&relpos=3&citeCnt=0&searchTerm=	Nr.pag. / 5 x nr.autori	2,80
1.1.1.2. Naționale	1. C. Croitoru ; S. Pațachia. Materiale polimerice impregnate molecular. Editura LuxLibris, Brașov, 2014, ISBN: 978-973-131-276-7 (225 pagini)	Nr.pag. / 10 x nr.autori	11,25
1.2 Material didactic/lucrări didactice			
1.2.1 Manuale didactice/monografii (minim 1)	1. C. Croitoru ; A. Pascu. Știința și ingineria materialelor. Editura Universității Transilvania din Brașov, 2016, ISBN:978-606-19-0777-9 (126 pagini)	Nr.pag. / 20 x nr.autori	3,15
1.2.2 Îndrumătoare de laborator/aplicații (minim 1)	1. C. Croitoru. Lucrări practice de știința și tehnologia materialelor polimerice și compozite. Editura LuxLibris, 2015, ISBN:978-973-131-335-1 (104 pagini)	Nr.pag. / 25 x nr.autori	4,16
			Total criteriu A1: 21,36

A2. Activitate de cercetare (conferențiar-minim 150 puncte)

2.1 Articole in reviste cotate ISI Thomson Reuters si in volume indexate ISI proceedings (Minim 10 articole pentru Conferentiar / CSII din care min. 5 in Reviste cotate ISI Th.R., din care min. 3 cu FI de min.0,5 si min. 2 ca autor principal indiferent de FI)

Formulă de calcul punctaj: $(25+20*FI)/nr.$ Autori

2.1.1. Articole in reviste cotate ISI

Nr. crt.	Articole in reviste ISI Thomson Reuters	FI	Număr de autori	Autor principal	Puntaj
1	C. Croitoru ; S. Patachia; A. Papancea; L. Baltes; M. Tierean. Glass fibres reinforced polyester composites degradation monitoring by surface analysis. <i>Applied Surface Science</i> (2015) 358 B: 518-524 (FI= 3,150 ; SRI= 1,476). WOS:000366220500003	3,150	5	DA	17,60
2	C. Croitoru ; S. Patachia. Long-Chain Alkylimidazolium Ionic Liquid Functionalization of Cellulose Nanofibers and Their Embedding in HDPE Matrix. <i>International Journal of Polymer Science</i> (2016) 2016:1-9 (FI= 1,000; SRI= 1,089). WOS:000379547000001	1,000	2	DA	22,50
3	E. M. Stanciu, A. Pascu, M. H. Tierean, I. Voiculescu, I. C. Roată, C. Croitoru , I. Hulka. Dual Coating Laser Cladding of NiCrBSi and Inconel 718. <i>Materials and Manufacturing Processes</i> (2016) 31: 1556-1564 (FI= 1,630 ; SRI= 0,748). WOS:000381388400003	1,630	7	NU	7,625
4	S. Patachia; C. Croitoru . Increasing the adsorption capacity and selectivity of poly(vinyl alcohol) hydrogels by an alternative imprinting technique. <i>Journal of Applied Polymer Science</i> (2015) 132: 42024-42033 (FI= 1,866; SRI= 1,000). WOS: 000351392700008	1,866	2	DA (autor corespondent)	31,16
5	C. Croitoru , S. Patachia, A. Porzsolt, C. Friedrich. Effect of alkylimidazolium based ionic liquids on the structure of UV-irradiated cellulose. <i>Cellulose</i> (2011) 18:1469–1479 (FI= 3,60; SRI= 5,217). WOS: 000298994200009	3,60	4	DA	24,25
6	C. Croitoru , S. Patachia, N. Cretu, A. Boer, Chr. Friedrich. Influence of ionic liquids on the surface properties of poplar veneers. <i>Applied Surface Science</i> (2011) 257: 6220–6225 (FI=2,103; SRI=1,379). WOS: 000288646900050	2,103	5	DA	13,412

Nr. crt.	Articole in reviste ISI Thomson Reuters	FI	Număr de autori	Autor principal	Puntaj
7	C. Croitoru ; S. Patachia; A. Lunguleasa. New Method of Wood Impregnation with Inorganic Compounds using Ethyl Methylimidazolium chloride as carrier. <i>Journal of Wood Chemistry and Technology</i> (2015) 35: 113-128 (FI= 1,83 ; SRI=2,489) WOS: 000345585100003	1,83	3	DA	20,533
8	C. Croitoru , S. Patachia, A. Lunguleasa. A mild method of wood impregnation with biopolymers and resins using 1-ethyl-3-methylimidazolium chloride as carrier. <i>Chemical Engineering Research and Design</i> (2015) 93: 257-268 (FI=2,525; SRI=1,655). WOS: 000348878600024	2,525	3	DA	25,166
9	C. Croitoru , Silvia Patachia, Florica Doroftei, Elena Paparita, Cornelia Vasile. Ionic liquids influence on the surface properties of electron beam irradiated wood. <i>Applied Surface Science</i> (2014) 314: 956–966 (FI= 2,538; SRI= 1,575). WOS: 000341464100130	2,538	5	DA	15,152
10	S. Patachia, Chr. Friedrich, C. Florea, C. Croitoru . Study of the PVA behaviour in 1-butyl-3-methylimidazolium tetrafluoroborate ionic liquid. <i>eXpress Polymer Letters</i> (2011) 5:197-207 (FI= 1,769; SRI= 1,094). WOS: 000285847000009	1,769	4	NU	15,095
11	Silvia Patachia, C. Croitoru , Christian Friedrich. Effect of UV exposure on the surface chemistry of wood veneers treated with ionic liquids. <i>Applied Surface Science</i> (2012) 258: 6723–6729 (FI= 2,112; SRI= 1,361). WOS: 000304004100002	2,112	3	DA (autor cores-pondent)	22,413
12	S. Patachia, C. Croitoru . Imprinted poly (vinyl alcohol) as a promising tool for xanthine derivatives separation. <i>Journal of Applied Polymer Science</i> (2011) 122: 2081-2089 (FI: 1,289; SRI: 0,990) WOS: 000293849200072	1,289	2	NU	13,412
13	A. Tuduce Trăistaru, M.C. Timar, M. Câmpăan, C. Croitoru , Ion Sandu. Paraloid B72 versus Paraloid B72 with nano-ZnO additive as consolidants for wooden artefacts. <i>Revista Materiale Plastice</i> (2012) 49: (FI= 0,379; SRI= 0). WOS: 000313149100014	0,379	5	NU	6,516

Nr. crt.	Articole in reviste ISI Thomson Reuters	FI	Număr de autori	Autor principal	Puntaj
14	C. Croitoru, S. Patachia, A. Porzsolt, C. Friedrich. Ecologic modification of wood using alkylimidazolium-based ionic liquids. <i>Environmental Engineering and Management Journal</i> (2011) 10: 1149-1154 (FI= 1,004; SRI= 0). WOS: 000296758300022	1,004	4	DA	11,27
15	S. Patachia, C. Croitoru, G. Moise, Molecularly imprinted poly (vinyl alcohol) films for the selective absorption of glycyrrhizinic acid from aqueous solutions, <i>Environmental Engineering and Management Journal</i> (2009) 8: 663-668 (FI= 0,885; SRI= 0). WOS: 000269811500006	0,885	3	NU	14,233
16	S. Patachia, G. Moise, H. Ozkul, O. Ekincioglu, C. Croitoru. Ecological polymer used for Macro Defect Free Cements Production, <i>Environmental Engineering and Management Journal</i> (2009) 8:679-684 (FI= 0,885; SRI= 0). WOS: 000269811500008	0,885	5	NU	8,54
17	S. Patachia; C. Croitoru; I. Scarneciu. Selectivity studies of caffeine molecularly imprinted poly (vinyl alcohol) hydrogels. <i>Environmental Engineering and Management Journal</i> (2011) 10: 175-179 (FI= 1,004; SRI: 0). WOS: 000289827100002	1,004	3	NU	14,233

2.1.2. Articole indexate ISI Proceeding

NR. CRT	ARTICOLE INDEXATE ISI PROCEEDING		Nr.autori	PUNCTAJ
1	S.Patachia; C. Croitoru. Computational study of beta-cyclodextrin-water system revista: MACMESE 2008: Proceedings of the 10th WSEAS International Conference on Mathematical and Computational Methods in Science and Engineering, Pts I and II conferinta:10th WSEAS International Conference on Mathematical and Computational Methods in Science and Engineering. ISSN:17902769 http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=26&SID=Z2TVZfVFCXdW2bMQGIJ&page=5&doc=45	Revista 20 / nr. autori	2	10

NR. CRT	ARTICOLE INDEXATE ISI PROCEEDING		Nr.autori	PUNCTAJ
2	<p>S.Patachia; C. Croitoru; Chr. Friedrich. Computational study of 1-Butyl-3-Methylimidazolium Tetrafluoroborate ionic liquid-water system revista:MACMESE 2008: Proceedings of the 10th WSEAS International Conference on Mathematical and Computational Methods in Science and Engineering, Pts I and II conferinta:10th WSEAS International Conference on Mathematical and Computational Methods in Science and Engineering. ISSN:17902769</p> <p>http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=26&SID=Z2TVZfVFCXdW2bMQGIJ&page=5&doc=45</p>	Revista 20 / nr. autori	3	6,666
3	<p>S. Patachia; C. Croitoru; C. Florea; L. Dumitrescu; I. Scarneciu. Ammonia sensor based on poly (vinyl alcohol) cryogel. Revista: Annals of DAAAM for 2008& Proceedings of the 19th International DAAAM symposium: Intelligent Manufacturing &Automation: Focus on next generation of intelligent systems and solutions. conferinta:19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing ISSN:17269679; 2008</p> <p>http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=35&SID=Z2TVZfVFCXdW2bMQGIJ&page=1&doc=35</p>		5	4,000
4	<p>S. Patachia; C. Croitoru; I. Scarneciu. Ecological method for separation of inulin from phytoextracts using molecularly imprinted poly (vinyl alcohol) films. Revista: Annals of DAAAM for 2008& Proceedings of the 19th International DAAAM symposium: Intelligent Manufacturing &Automation: Focus on next generation of intelligent systems and solutions. conferinta:19th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing ISSN:17269679; 2008</p> <p>http://apps.webofknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=35&SID=Z2TVZfVFCXdW2bMQGIJ&page=1&doc=34</p>		3	6,666

NR. CRT	ARTICOLE INDEXATE ISI PROCEEDING		Nr. autori	PUNCTAJ
5	C. Croitoru ; S. Patachia; G. Moise; A. Porzsolt; C. Scarneciu. Dichromate anion sorption from wastewaters using poly (vinyl alcohol) cryogels. Revista: Annals of DAAAM for 2009& Proceedings of the 20 th International DAAAM symposium: Intelligent Manufacturing & Automation: Focus on next generation of intelligent systems and solutions. conferinta: 20th International Symposium of the Danube-Adria-Association-for-Automation-and-Manufacturing ISSN: 17269679; 2009	Revista 20 / nr. autori	5	4,000
Total criteriu A.2.1. 327,21				

2.2 Articole in reviste si volumele unor manifestari stiintifice indexate in alte baze de date internationale (minim 2 pentru conferențiar)

NR. CRT	ARTICOLE INDEXATE IN BDI		Nr. autori	PUNCTAJ
1	C. Croitoru ; S. Patachia. Biocomposites Obtained from Wood Saw dust using Ionic Liquids. Acta Chemica Iasi BDI: Google Scholar. ISSN: 20672438, 2014. http://www.chem.uaic.ro/files/File/acta-chemica/aci_vol22_no2_2014/6.pdf	Revista 20 / nr. autori	2	10
2	S. Patachia; C. Croitoru ; V. Rusu. Obtaining of ecological composites from wood waste using ionic liquids. Bulletin of the Transilvania University of Brasov. Series 1: Engineering Sciences, 2065-2119. BDI: Google Scholar. ISSN: 20652127, 2013. https://scholar.google.ro/scholar?hl=en&q=OBTAINING+OF+ECOLOGICAL+COMPOSITES+FROM+WOOD+WASTE+USING+IONIC+LIQUIDS&btnG=&as_sdt=1%2C5&as_sdt=5&as_sdt=5		3	6,666

NR. CRT	ARTICOLE INDEXATE IN BDI		Nr.autori	PUNCTAJ
3	M.C. Timar; A. Tuduțe-Traistaru; S. Patachia; C. Croitoru . Investigarea experimentală a unor produse de consolidare în lemn. Partea a 2-a: spectroscopie FTIR. ProLigno. BDI: Google Scholar. ISSN 20697430, 2011. http://www.proligno.ro/en/articles/2011/1/timar_full.pdf	Revista 20 / nr. autori	4	5
4	C. Croitoru ; S. Patachia; A. Porzsolt. Alkylimidazolium ionic liquids as ecologic solvents for wood finishing materials. Bulletin of the Transilvania University of Brasov-Series I: Engineering Sciences. BDI: Google Scholar. ISSN:20652127, 2011. https://scholar.google.ro/scholar?q=ALKYLIMIDAZOLIUM+IONIC+LIQUIDS+AS+E+COLOGIC+SOLVENTS+FOR+WOOD+FINISHING+MATERIALS&btnG=&hl=en&as_sdt=1%2C5&as_vis=1		3	6,666
5	B Vajna, K Palásti, B Bodzay, A Toldy, S Patachia, R Buican, C Croitoru , M Tierean. Complex Analysis of Car Shredder Light Fraction. The Open Waste Management Journal, 2010, 3, 46-55. BDI: Google Scholar. ISSN:18764002, 2010. http://benthamopen.com/towmj/articles/V003/SI0033TOWMJ/46TOWMJ.pdf		8	2,500
6	S. Patachia; G. Moise, H. Ozkul, O. Ekincioglu, C. Croitoru , Influence of the obtaining technology on the Macro Defect Free Cements characteristics, Pollack Periodica, vol. 4, nr. 1, 2009, p. 75-82. (Revista indexata EBSCO Publishing Ltd. Academic Search Complete). ISSN: 17881994, 2009. http://www.scopus.com/record/display.url?eid=2-s2.0-65349104815&origin=resultslist&sort=plf-f&src=s&sid=25BD952AE022300B4F57CDAB7763B494.aXczxbyuHHiXgaIW6Ho7g%3a230&sot=autdocs&sdt=autdocs&sl=18&s=AU-ID%2826532430900%29&relpos=14&relpos=14&citeCnt=0&searchTerm=		5	4

NR. CRT	ARTICOLE INDEXATE IN BDI		Nr.autori	PUNCTAJ
7	<p>C. Croitoru, S. Patachia. Molecularly Imprinted poly (vinyl alcohol) for the selective absorption of gallic acid from the aqueous solutions. Bulletin of the Transilvania University of Braşov, Vol. 2 (51), Series I: Engineering Sciences. BDI: Google Scholar. ISSN:20652127, 2011.</p> <p>https://scholar.google.com/scholar?q=Molecularly+Imprinted+poly%28vinyl+alcohol%29%2Cfor+the+selective+absorption+of+gallic+acid+from+the+aqueous+solutions+&btnG=&hl=en&num=20&as_sdt=2005&sciodt=0%2C5&cites=6814103576969356994&scipsc=</p>	Revista 20 / nr. autori	2	10
8	<p>C. Croitoru; S. Patachia. Molecularly imprinted poly (vinyl alcohol) for the selective absorption of diosgenin from ethanolic solutions. Bulletin of the Transilvania University of Brasov, Vol. 1 (50) 2008. BDI: Google Scholar. ISSN: 20652127, 2011.</p> <p>https://scholar.google.com/scholar?q=Molecularly+imprinted+poly+%28vinyl+alcohol%29+for+the+selective+absorption+of+diosgenin+from+ethanolic+solutions&btnG=&hl=en&num=20&as_sdt=0%2C5</p>		2	10
9	<p>S. Patachia; C. Croitoru. Potential applications of ionic liquids in ecologic wood processing. ProLigno 9 (4) 211-216. BDI: CABI. ISSN:18414734, 2013.</p> <p>http://www.proligno.ro/ro/articles/2013/4/Patachia_final.pdf</p>		2	10
10	<p>S. Patachia; C. Croitoru. Study of Poly (vinyl alcohol)/Cyclodextrin Materials Obtained by Different Techniques. Journal of Hydrogels BDI: Google Scholar. ISSN:23776293, 2015.</p> <p>http://www.ingentaconnect.com/content/asp/joh/2015/00000001/00000001/art00011</p>		2	10

NR. CRT	ARTICOLE INDEXATE IN BDI		Nr.autori	PUNCTAJ
11	C. Croitoru , A. Boer. Didactical Device and Method for Debye’s Law Study. Bulletin of the Transilvania University of Brasov, 12(47) Series B1. BDI:Google Scholar. ISSN:1223 - 964X, 2005. http://scholar.google.ro/citations?view_op=view_citation&hl=en&user=7-K9IF4AAAAJ&cstart=20&citation_for_view=7-K9IF4AAAAJ:hqOjcs7Dif8C	Revista 20 / nr. autori	2	10
12	C. Croitoru , S. Patachia. Structural properties of cellulose regenerated from its ionic liquid solutions. Bulletin of Romanian Chemical Engineering Society 1/2014. http://www.matrixrom.ro/romanian/editura/domenii/cuprins.php?cuprins=KY10 https://scholar.google.com/citations?view_op=view_citation&hl=en&user=7-K9IF4AAAAJ&sortby=pubdate&citation_for_view=7-K9IF4AAAAJ:4DMP91E08xMC		2	10
13	C. Croitoru , A. Giubega; S. Patachia; L. Baltes; A. Pascu; I. Roata; M. Tiorean. State of the Art in Calcite and Polyolefins Recycling. Bulletin of the Transilvania University of Brasov (58)1. BDI: Scopus. ISSN:2065-2127, 2016. http://webbut.unitbv.ro/Bulletin/Series%20I/Contents_I_1_2016.html		7	2,857
14	A.Pascu; I. Hulka; M. Tiorean; C. Croitoru ; E.M. Stanciu; I.C. Roata. Comparison of Flame Coating and Laser Cladding Using Ni Based Powders revista: Solid State Phenomena (Volume 254)/ Advanced Materials and Structures VI BDI: Google Scholar. ISSN:1662-9779, 2016. http://www.scientific.net/Paper/Preview/499337		6	1,666
Total criteriul A.2.2. 99,35				

A 2.3.2. Brevete de invenție naționale

NR. CRT	DESCRIERE BREVET		Nr.autori	PUNCTAJ
1	C. Croitoru ; S. Patachia; A. Lunguleasa. SOLUTIONS FOR WOOD IMPREGNATION, BASED ON NATURAL POLYMERS, METHOD OF PREPARATION AND PROCESS FOR APPLICATION nrB:RO126930 (A0) AnAparitie:2011 http://worldwide.espacenet.com/publicationDetails/biblio?FT=D&date=20111230&DB=worldwide.espacenet.com&locale=en_EP&CC=RO&NR=126930A0&KC=A0&ND=4	20 / nr. autori	3	6,666
2	S. Patachia; C. Croitoru ; A. Lunguleasa. DISPERSIONS FOR WOOD IMPREGNATION BASED ON INORGANIC COMPOUNDS AND IONIC LIQUIDS, METHOD OF PREPARATION AND PROCESS OF APPLICATION nrB:RO126929 (A0) AnAparitie:2011 http://worldwide.espacenet.com/publicationDetails/biblio?DB=worldwide.espacenet.com&II=1&ND=3&adjacent=true&locale=en_EP&FT=D&date=20111230&CC=RO&NR=126929A0&KC=A0		3	6,666
Total criteriul A.2.3.2. 13,332				

2.4 Granturi/proiecte castigate prin competitie

2.4.1 Director/Responsabil

2.4.1.1. Granturi/proiecte internaționale câștigate prin competiție

Nr. Crt.	Proiect internațional	Poziție	Perioada	Nr. Ani	Punctaj
1	Hydrogen storage performance of ionic liquid-impregnated aerogels finantator:H2FC, FP7-INFRASTRUCTURES-2011-1, Grant Agreement No 284522, 2011-2015 nrctr:284522, Valoare grant:7936 Euro.	director	2015	1	20
TOTAL					20

2.4.1.2. Granturi/proiecte naționale câștigate prin competiție

Nr. Crt.	Proiect internațional	Poziție	Perioada	Nr. Ani	Punctaj
1	Studii de imprimare moleculară a polimerilor vinilici aplicabili în procesele de separare controlată a unor principii active Valoaregrant:33147 lei; finantator: CNCSIS-UEFISCDI nrctr:TD161/2007	director	2007-2009	3	30
2	Valorificarea deșeurilor de poliolefine și calcit prin obținere de noi materiale compozite Valoaregrant:549999 lei, finantator: Uefiscdi București nrctr:349/1.10.2015.	director	2015-2017	2	20
TOTAL					50

2.4.2. Membru în echipă

2.4.2.1. Internaționale

Nr. Crt.	Proiect internațional	Poziție	Perioada	Nr. Ani	Punctaj
1	Improving durability resistance of macro defect free (mdf) polymer-cement composites by examining internal structure, Contract Cooperare Bilaterală, Univ. Tehnica din Istanbul, Turcia.	membru	2008-2009	2	8
2	Magnetic sorting and ultrasound sensor technologies for production of high purity secondary polyolefins from waste - W2Plastics.	membru	2009	1	4
TOTAL					12

2.4.2.2 Naționale

Nr. Crt.	Proiect național	Poziție	Perioada	Nr. Ani	Punctaj
1	Identificarea și utilizarea unui software avansat pentru modelare(cu modul chimic), inclusiv pentru poluanții secundari(ozon, compuși organici volatili,etc) perioada:2008 finantator:Ministerul Mediului nrctr:AK 4167/2007	membru	2007	1	2
2	STRUCTURI POLIMERICE IMPRENTATE PENTRU RECUNOASTEREA MOLECULARA A COMPUSILOR BIOACTIVI DIN FITOEXTRACTE finantator:UEFISCDI nrctr:CEEX 148/2006	membru	2006	1	2
3	Studii terapeutice și intervenții inovative.Urmărind dezvoltarea ulterioară a proceselor esențiale pentru succesul terapiilor inovative cu aplicare potențială în tratarea unor boli și tulburari medicale, finantator:CNCSIS nrctr:CEEX 18/2005	membru	2008	1	2
4	ARHITECTURI INOVATIVE DEGRADABILE, BIOCOMPATIBILE SI BIOACTIVE PE BAZA DE POLIMERI NATURALI SI SINTETICI, finantator:CNCSIS nrctr:CEEX 10/2005	membru	2008	1	2
5	Reducerea compusilor organici volatili din atmosfera prin modificarea tehnologiilor de obtinere si aditivare a materialelor polimerică, finantator:UEFISCDI nrctr:IDEI_389/2008	membru	2009	1	2
TOTAL					10

A3 RECUNOAȘTEREA ȘI IMPACTUL ACTIVITĂȚII (minim 30 puncte)

3.1 Citări în reviste ISI și BDI

C. Croitoru, S. Patachia, N. Cretu, A. Boer, Chr. Friedrich. Influence of ionic liquids on the surface properties of poplar veneers. *Applied Surface Science* (2011) 257: 6220–6225 (**FI=2,103**; **SRI=1,379**). **WOS**: 000288646900050

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	Formula	Punctaj
ISI	1	SUPERFICIAL SOLVOTHERMAL TREATMENT OF THE LIGNOCELLULOSIC BIOMASS IN IONIC LIQUIDS - HYGROSCOPICITY, MORPHOLOGY AND MECHANICAL PROPERTIES revista:CANADIAN JOURNAL OF CHEMICAL ENGINEERING issnciteaza:00084034 AnAparitie:2015	15/5	3
	2	Roasting of lignocellulosic biomass in ionic liquids: a comparative analysis spectroscopy surface revista:CANADIAN JOURNAL OF CHEMICAL ENGINEERING issnciteaza:00084034 AnAparitie:2014	15/5	3
	3	Thermoplastic deformation of poplar wood plasticized by ionic liquids measured by a nonisothermal compression technique revista:HOLZFORSCHUNG issnciteaza:00183830 AnAparitie:2014	20/5	4
	4	Antifungal activity of ionic liquid applied to linen fabric revista:INTERNATIONAL BIODETERIORATION & BIODEGRADATION issnciteaza:09648305 AnAparitie:2013	20/5	4
	5	Micellization behavior of ionic liquid surfactants with two hydrophobic tail chains in aqueous solution revista:JOURNAL OF APPLIED POLYMER SCIENCE issnciteaza:00218995 AnAparitie:2013	15/5	3
	6	Determination on Crystallinity of Ionic Liquids Pretreated Biomass revista:BIOTECHNOLOGY, CHEMICAL AND MATERIALS ENGINEERING, PTS 1-3 issnciteaza:10226680 AnAparitie:2012	5/5	1
	7	Pretreatment of oil palm biomass with ionic liquids: a new approach for fabrication of green composite board revista:Journal of Cleaner Production issnciteaza:09596526 AnAparitie:2016	20/5	4

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	Formula	Punctaj
ISI	8	Particulate composites based on ionic liquid-treated oil palm fiber and thermoplastic starch adhesive revista:Clean Technologies and Environmental Policy issnciteaza:1618954X AnAparitie:2016	15/5	3
	9	The influence of short-term thermo-mechanical densification on the surface wettability of wood veneers revista:Maderas. Ciencia y tecnología issnciteaza:0718221X AnAparitie:2016	10/5	2
	10	Traitement solvothermique superficiel de la biomasse lignocellulosique dans les liquides ioniques–hygroscopicité, morphologie et propriétés mécaniques revista:The Canadian Journal of Chemical Engineering issnciteaza:1939019X AnAparitie:2015	15/5	3
	11	Torréfaction de la biomasse lignocellulosique dans les liquides ioniques: Analyse comparative par spectroscopies de surface revista:The Canadian Journal of Chemical Engineering issnciteaza:1939019X AnAparitie:2014	15/5	3
BDI	12	Surface Modification of Wood revista:Reviews of Adhesion and Adhesives issnciteaza:21680973 AnAparitie:2013 Autori:5 BDI: Google Scholar	3/5	0,6
	13	Determination on Crystallinity of Ionic Liquids Pretreated Biomass revista:Advanced Materials Research (Volumes 393-395) issnciteaza:16628985 AnAparitie:2011 Autori:5 BDI: Google Scholar	3/5	0,6
	14	Effect of surface treatment on bondability of birch veneer with PF resin revista:International Wood Products Journal issnciteaza:20426453 AnAparitie:2014 Autori:5 BDI: Google Scholar	3/5	0,6

Silvia Patachia, **C. Croitoru**, Christian Friedrich. Effect of UV exposure on the surface chemistry of wood veneers treated with ionic liquids. *Applied Surface Science* (2012) 258: 6723–6729 (**FI= 2,112; SRI= 1,361**). **WOS**: 000304004100002

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	Formula	Punctaj
ISI	1	Multifunctional wood materials with magnetic, superhydrophobic and anti-ultraviolet properties revista:APPLIED SURFACE SCIENCE issnciteaza:01694332 AnAparitie:2015	20/3	6,666
	2	Thermoplastic deformation of poplar wood plasticized by ionic liquids measured by a nonisothermal compression technique revista:HOLZFORSCHUNG issnciteaza:00183830 AnAparitie:2014	20/3	6,666
	3	Photo-scanning colorimetry of wood and transparent wood coatings revista:EUROPEAN JOURNAL OF WOOD AND WOOD PRODUCTS issnciteaza:00183768 AnAparitie:2014	15/3	5
	4	Synergistic Effect of Nano-TiO ₂ and Nanoclay on the Ultraviolet Degradation and Physical Properties of Wood Polymer Nanocomposites revista:INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH issnciteaza:08885885 AnAparitie:2013	20/3	6,666
	5	Epoxy and succinic anhydride functionalized soybean oil for wood protection against UV light action revista:Journal of Cleaner Production issnciteaza:09596526 AnAparitie:2016	20/3	6,666
	6	Comparative study of photodegradation of six wood species after short-time UV exposure revista:Wood Science and Technology issnciteaza:14325225 AnAparitie:2016	15/3	5
BDI	7	Ultraviolet resistance and other physical properties of softwood polymer nanocomposites reinforced with ZnO nanoparticles and nanoclay revista:Wood Material Science and Engineering issnciteaza:17480280 AnAparitie:2015	3/3	1

S. Patachia, Chr. Friedrich, C. Florea, **C. Croitoru**. Study of the PVA behaviour in 1-butyl-3-methylimidazolium tetrafluoroborate ionic liquid. *eXpress Polymer Letters* (2011) 5:197-207 (**FI= 1,769; SRI= 1,094**). **WOS**: 000285847000009

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	Formula	Punctaj
ISI	1	Influence of poly (vinyl alcohol) on cellulose photochemical stability in cryogels during UV irradiation revista:EXPRESS POLYMER LETTERS issnciteaza:10106030 AnAparitie:2015	20/4	5
	2	Synthesis and characterization of polyvinyl alcohol/cellulose cryogels and their testing as carriers for a bioactive component revista:MATERIALS SCIENCE & ENGINEERING C-MATERIALS FOR BIOLOGICAL APPLICATIONS issnciteaza:09284931	20/4	5
	3	Polymeric ionic liquid modified silica for CO2 adsorption and diffusivity revista:Polymer composites issnciteaza:15480569 AnAparitie:2015	20/4	5
	4	Synergistic Effect of Nano-TiO2 and Nanoclay on the Ultraviolet Degradation and Physical Properties of Wood Polymer Nanocomposites revista:INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH issnciteaza:08885885 AnAparitie:2013	20/3	6,666
	5	Epoxy and succinic anhydride functionalized soybean oil for wood protection against UV light action revista:Journal of Cleaner Production issnciteaza:09596526 AnAparitie:2016	20/3	6,666
	6	Comparative study of photodegradation of six wood species after short-time UV exposure revista:Wood Science and Technology issnciteaza:14325225 AnAparitie:2016	15/3	5

C. Croitoru; S. Patachia; A. Papancea; L. Baltes; M. Tierean. Glass fibres reinforced polyester composites degradation monitoring by surface analysis. *Applied Surface Science* (2015) 358 B: 518-524 (**FI= 3,150 ; SRI= 1,476**). **WOS**:000366220500003

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	Formula	Punctaj
ISI	1	Fabrication of a graphene coated nonwoven textile for industrial applications revista: RSC Advances issnciteaza:20462069 AnAparitie:2016	20/5	4

M.C. Timar; A. Tuduce-Traistaru; S. Patachia; **C. Croitoru**. Investigarea experimentală a unor produse de consolidare în lemn. Partea a 2-a: spectroscopie FTIR. ProLigno. BDI: Google Scholar. ISSN 20697430, 2011.

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	Formula	Punctaj
ISI	1	Digital radiography (DR) and imaging analysis for evaluating the penetration and distribution of organic substances used in wood conservation revista:Wood Science and Technology issnciteaza:14325225 AnAparitie:2015	15/4	3,75
	2	IMPACT OF RF AND DC PLASMA ON WOOD STRUCTURE revista:Romanian Reports in Physics issnciteaza:12211451 AnAparitie:2015	15/4	3,75
	3	Effect of Soil Contact on the Modulus of Elasticity of Beeswax-Impregnated Wood revista:BioResources issnciteaza:19302126 AnAparitie:2015	15/4	3,75
	4	Near infrared spectroscopic studies on coatings of 19th century wooden parquets from manor houses in South-Eastern Poland revista:Journal of Cultural Heritage issnciteaza:12962074	15/4	3,75

C. Croitoru, S. Patachia, A. Lunguleasa. A mild method of wood impregnation with biopolymers and resins using 1-ethyl-3-methylimidazolium chloride as carrier. *Chemical Engineering Research and Design* (2015) 93: 257-268 (**FI=2,525; SRI=1,655**). **WOS:** 000348878600024

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	Formula	Punctaj
ISI	1	Use of ionic liquid based chitosan as sorbent for preconcentration of fluoroquinolones in milk, egg, fish, bovine, and chicken meat samples by solid phase extraction prior to HPLC determination revista:Journal of Liquid Chromatography and Relatedhttps://www.scopus.com/record/display.uri?eid=2-s2.0-84959245283&origin=resultslist&sort=plf-f&cite=2-s2.0-84920756829&src=s&imp=t&sid=086F88F8CD4A73F0E345D0A3B1C367EF.y7ESLndDIIsN8cE7qwvy6w%3a350&sot=cite&sdt=a&sl=0&relpos=1&citeCnt=0&searchTerm=	20/3	6,66

C. Croitoru, S. Patachia, A. Porzsolt, C. Friedrich. Effect of alkylimidazolium based ionic liquids on the structure of UV-irradiated cellulose. *Cellulose* (2011) 18:1469–1479 (**FI= 3,60; SRI= 5,217**). **WOS:** 000298994200009

Revista	Nr. Crt.	ARTICOLUL CARE CITEAZA	Formula	Punctaj
ISI	1	Unusual phase transition mechanism of poly(ethylene oxide) in an ionic liquid: opposite frequency shifts in C-H groups revista:SOFT MATTER issnciteaza:1744683X AnAparitie:2013	20/4	5

A. Tuduce Trăistaru, M.C. Timar, M. Câmpian, **C. Croitoru**, Ion Sandu. Paraloid B72 versus Paraloid B72 with nano-ZnO additive as consolidants for wooden artefacts. *Revista Materiale Plastice* (2012) 49: (**FI= 0,379; SRI= 0**). **WOS:**000313149100014

ISI	1	FTIR Investigation of Paraloid B72 as Consolidant for Old Wooden Artefacts Principle and Methods revista:MATERIALE PLASTICE issnciteaza:00255289 AnAparitie:2014	5/5	1
	2	Assessment of Cleaning Effectiveness for New Ecological Systems on Ancient Tempera Icon by Complementary Microscopy Techniques revista:MICROSCOPY RESEARCH AND TECHNIQUE issnciteaza:1059910X AnAparitie:2014 Autori:5 CoefM:15	15/5	3
	3	Viscometric Study of some Polyzwitterions based on poly(4-vinylpyridine) revista:REVISTA DE CHIMIE issnciteaza:00347752	10/5	2
	4	Water Repellent Effect and Dimension Stability of Beech Wood Impregnated with Nano-Zinc Oxide revista:BIORESOURCES issnciteaza:19302126 AnAparitie:2013	15/5	3

S. Patachia, G. Moise, H. Ozkul, O. Ekincioglu, **C. Croitoru**. Ecological polymer used for Macro Defect Free Cements Production, *Environmental Engineering and Management Journal* (2009) 8:679-684 (**FI= 0,885; SRI= 0**). **WOS:** 000269811500008

BDI	1	Effect of epoxy resin addition on the moisture sensitivity of macro defect free polymer-cement composites revista:Key Engineering Materials issnciteaza:10139826 AnAparitie:2011	3/5	0,6
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S. Patachia, C. Croitoru, G. Moise, Molecularly imprinted poly (vinyl alcohol) films for the selective absorption of glycyrrhizinic acid from aqueous solutions, <i>Environmental Engineering and Management Journal</i> (2009) 8: 663-668 (FI= 0,885; SRI= 0). WOS: 000269811500006				
ISI	1	Molecular imprinting science and technology: a survey of the literature for the years 2004-2011 revista: JOURNAL OF MOLECULAR RECOGNITION issnciteaza:09523499 AnAparitie:2014	20/3	6,666
	2	Poly(Vinyl Alcohol) Physical Hydrogels: New Vista on a Long Serving Biomaterial revista: MACROMOLECULAR BIOSCIENCE issnciteaza:16165187 AnAparitie:2011	20/3	6,666
S. Patachia, C. Croitoru. Imprinted poly (vinyl alcohol) as a promising tool for xanthine derivatives separation. <i>Journal of Applied Polymer Science</i> (2011) 122: 2081-2089 (FI: 1,289; SRI: 0,990) WOS:000293849200072				
ISI	1	Molecular imprinting science and technology: a survey of the literature for the years 2004-2011 revista: JOURNAL OF MOLECULAR RECOGNITION issnciteaza:09523499 AnAparitie:2014	20/2	10
S. Patachia; C. Croitoru; I. Scarneciu. Selectivity studies of caffeine molecularly imprinted poly (vinyl alcohol) hydrogels. <i>Environmental Engineering and Management Journal</i> (2011) 10: 175-179 (FI= 1,004; SRI: 0). WOS: 000289827100002				
ISI	1	Molecular imprinting science and technology: a survey of the literature for the years 2004-2011 revista: JOURNAL OF MOLECULAR RECOGNITION issnciteaza:09523499 AnAparitie:2014	20/3	6,666
Total criteriu A.3.1. 161,728				

3.3 Membru in colectivele de redacție sau comitete științifice al revistelor si manifestărilor științifice, organizator de manifestări științifice / Recenzor pentru reviste si manifestări științifice naționale si internaționale indexate ISI

3.3.1. Membru in colectivele de redactie sau comitete stiintifice al revistelor si manifestarilor stiintifice, organizator de manifestari stiintifice / Recenzor pentru reviste si manifestari stiintifice nationale si internationale indexate ISI	
Journal of Applied Polymer Science; Applied Surface Science; Cellulose; Journal of Wood chemistry and Technology; Wood and Fiber Science; Water Research; Analytical Letters; Trans Tech Publications- Scientific.Net; Current Analytical Chemistry	
Total A.3.3.1. 5x9 = 45	

3.3.2. Membru in colectivele de redacție sau comitete științifice al revistelor si manifestărilor științifice, organizator de manifestări științifice / Recenzor pentru reviste si manifestări științifice naționale și internaționale indexate BDI

NR. CRT	Manifestarea științifică		PUNCTAJ
1	MATHEMATICAL MODELS and METHODS in APPLIED SCIENCES issn:17936314 BDI: Google Scholar http://www.wseas.org/multimedia/books/2012/Iasi/BUBICHE.pdf		3
2	Scientific Committee of the 2nd international conference on food industry, agriculture and applied chemistry issn:22274359 BDI: Google Scholar http://www.naun.org/cms.action?id=3268		8
3	RECENT RESEARCHES in ENVIRONMENTAL and GEOLOGICAL SCIENCES issn:22274359 BDI: Google Scholar http://www.wseas.org/multimedia/books/2012/Kos/WEGECEM.pdf		3
4	Membru comitet stiintific conf international conference on development, energy, environment, economics issn:22274588 BDI: Google Scholar http://www.wseas.us/e-library/conferences/2012/Paris/DEEE/DEEE-00.pdf		8
5	Reviewer World Scientific and Engineering Academy and Society (WSEAS) issn:22274588 BDI: Google Scholar http://www.wseas.org/cms.action?id=5321		3
6	Scientific Committee of 1st WSEAS International Conference on Hydrology and Ecology HYE 13 issn:22274359 BDI: Google Scholar http://www.wseas.org/cms.action?id=4487		8
7	Membru comitet stiintific 7th International Conference on Climate Changes, Global Warming, Biological Problems CGB 15 issn:22231459 BDI: Google Scholar http://wseas.org/cms.action?id=10274		8

NR. CRT	Manifestarea științifică		PUNCTAJ
8	Membru comitet științific 8th International Conference on Waste Management, Water Pollution, Air Pollution, Indoor Climate WWAI 15 issn:22234567 BDI: Google Scholar http://wseas.org/cms.action?id=10302	Editor/ chairman –15; Membru - 8; Recenzor - 3	8
9	Membru comitet științific 14th WSEAS International Conference on Mathematics and Computers in Biology and Chemistry MCBC 13 issn:17905117 BDI: Google Scholar CoefM:8 http://www.wseas.org/cms.action?id=5218#		8
10	Membru comitet științific 1st international conference on architecture and urban design ARUD 13 issn:22274359 BDI: Google Scholar CoefM:8 http://naun.org/cms.action?id=5290		8
11	Membru comitet științific 3rd international conference on integrated systems and management for energy, development, environment and health, malta - ismaedeh 15 issn: BDI: Google Scholar CoefM:8 http://naun.org/cms.action?id=9838		8
12	Membru comitet științific 3rd international conference on food industry, agriculture and applied chemistry michigan - fiaac 15 issn: BDI: Google Scholar CoefM:8 http://naun.org/cms.action?id=9430		8
13	Membru comitet științific 9th International Conference on Waste Management, Water Pollution, Air Pollution, Indoor Climate (WWAI 16) issn: BDI: Google Scholar CoefM:8 http://wseas.org/cms.action?id=11971		8
14	Membru comitet științific 8th International Conference on Climate Changes, Global Warming, Biological Problems (CGB 16) issn: BDI: Google Scholar CoefM:8 http://www.wseas.org/cms.action?id=11940		8
15	Membru comitet științific 4th International Conference on Food Industry, Agriculture and Applied Chemistry (FIAAC 16) issn: BDI: Google Scholar CoefM:8 http://wseas.org/cms.action?id=12853		8

NR. CRT	Manifestarea științifică	PUNCTAJ
16	Membru comitet științific 4th international conference on integrated systems and management for energy, development, environment and health (ismaedeh 16) issn: BDI: Google Scholar	8
17	Membru comitet științific Kos - BIOMEDCH 12 3rd International Conference on BIOCHEMISTRY and MEDICAL CHEMISTRY (BIOMEDCH 12) issn: BDI: Google Scholar http://www.wseas.org/cms.action?id=1828	8
18	Membru comitet științific 3rd international conference on sustainable cities, urban sustainability and transportation scust 14 issn: BDI: Google Scholar CoefM:8 http://naun.org/cms.action?id=8259	8
19	ADVANCES in ENVIRONMENT, ECOSYSTEMS and SUSTAINABLE TOURISM issn:22274359 BDI: Google Scholar CoefM:3 http://www.wseas.us/e-library/conferences/2013/Brasov/STAED/STAED-00.pdf	3
20	LATEST ADVANCES in INFORMATION SCIENCE, CIRCUITS and SYSTEMS issn:17905109 BDI: Google Scholar CoefM:3 http://www.wseas.org/multimedia/books/2012/Iasi/NEFIC.pdf	3
Total criteriu A. 3.3.2.: 135		

3.3.3. Membru in colectivele de redacție sau comitete științifice al revistelor si manifestărilor științifice, organizator de manifestări științifice /Recenzor pentru reviste si manifestări științifice naționale și internaționale neindexate
BraMat2009 http://www2.unitbv.ro/LinkClick.aspx?fileticket=tjuIC1WMsRY%3D&tabid=8330&language=en-US
Total A.3.3.3. 5x1 = 5

3.4.2. Experienta de management - membru
Membru în Consiliul Departamentului Ingineria Materialelor și Sudură din cadrul Facultății de Știința și Ingineria Materialelor, Universitatea Transilvania din Brașov.
Total A.3.4.2. 2x1=2

3.5.2. Premii ASAS,AOSR,academii de ramura si CNCSIS
Premierea rezultatelor cercetării PN-II-RU-PRECISI-2012-6-0727 AnAcordare:2012; PN-II-RUPRECISI-2012- 6-0264 AnAcordare:2012; PN-II-RUPRECISI- 2011-3- 0165 AnAcordare:2011; PN-II-RU-PRECISI-2011-3-0315 AnAcordare:2011; PN-II-RU-PRECISI-2011-3-1525 AnAcordare:2011; Proces evaluare Etapa II_2009 AnAcordare:2009; PN-II-RU-PRECISI- 2015-9-8018, pozitia 621 AnAcordare:2015; PN-II-RU-PRECISI- 2015-9-8024 pozitia 627 AnAcordare:2015; PN-II-RU-PRECISI- 2015-9-8029 pozitia 632 AnAcordare:2015; PN-III-P1-1.1-PRECISI-2016-10875 poziția 97 AnAcordare:2016.
Total A.3.5.2. 15x10=150

3.6.4.1. Membru Asociatii profesionale internationale
1.Asociatia: Danube Adria Association for Automation & Manufacturing http://daaam.info/ 2. Asociatia: Royal Society of Chemistry (RSC) UK http://www.rsc.org/
Total A.3.6.4.1. 5x2=10
3.6.4.2. Membru Asociatii profesionale nationale
Societatea de Chimie din Romania http://www.schr.org.ro/
Total A.3.6.4.2. 3x1=3

3.6.5.2. Membru in organizatii in domeniul educatiei si cercetarii	
1.Organizație: PORTALUL EXPERTILOR CDI DIN ROMANIA	
2. Organizație: European Commision- Research&Innovation Expert area	
Total A.3.6.5.2 3x2=6	

	Condiții conferentiar	Punctaj indeplinit
Activitate didactică/profesională A1	20 puncte	21,36
Activitate de cercetare A2	150 puncte	531,90
Recunoașterea impactului activității A3	30 puncte	517,72
Total	200 puncte	1070,98

Director de Departament,
Prof. Dr. Ing. Mircea Horia Țierean

Candidat,
Șef Lucr. Dr. Chim. Cătălin Croitoru