

# MIHAIL LUCIAN BÎRSĂ

## Fișă de autoevaluare,

alcătuită în conformitate cu prevederile fișei de evaluare generală a standardelor universității

	ACTIVITATEA DE CERCETARE	ACTIVITATEA DIDACTICĂ	TOTAL
2013	0.7*292	0.3*90	231
2012	0.7*824	0.3*110	610
2011	0.7*580	0.3*90	436
2010	0.7*421	0.3*60	312
2009	0.7*266	0.3*240	258
2008	0.7*321	0.3*330	324
2007	0.7*489	0.3*180	396
2006	0.7*158	0.3*180	164
			<b>2731</b>

## AUTOEVALUARE 2013

**CRITERIUL I**  $0.7*292.6 + 0.3* 90 = 231.8$

### I. ACTIVITATEA DE CERCETARE

**TOTAL = 292.6**

1. Articole științifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact:

Neculai Catalin Lungu, Ion Sandu, Paul Chirita, Mihail Lucian Birsa, <i>New Water Soluble 1,3-Dithiolium Salts</i> , Rev. Chim. (Bucharest), <b>64</b> , 697 (2013).	$0.538*60+25/4=$	14.32
Rodica Buhaceanu, Neculai Catalin Lungu, Norina Forna, Iuliean Vasile Asaftei, Paul Chirita, Mihail Lucian Birsa, <i>A New Class of Mesoionic 4-(1,3-Dithiol-2-ylum)phenolates</i> , Rev. Chim. (Bucharest), <b>64</b> , 802 (2013).	$0.538*60+25/6=$	9.54
Rodica Buhaceanu, Neculai Catalin Lungu, Norina Forna, Iuliean Vasile Asaftei, Paul Chirita, Mihail Lucian Birsa, <i>The Influence of Bromine Substituent on Optical Properties of Some 1,3-Dithiolium Derivatives</i> , Rev. Chim. (Bucharest), <b>64</b> , 960 (2013).	$0.538*60+25/6=$	9.54
Lucian Gabriel Bahrin, Neculai Catalin Lungu, Norina Forna, Ion Sandu, Mihail Lucian Birsa, <i>Zwitterionic 3-(1,3-Dithiol-2-ylum)phenolates</i> , Rev. Chim. (Bucharest), <b>64</b> , 1343 (2013).	$0.538*60+25/5=$	11.45
Laura Gabriela Sarbu, Neculai Catalin Lungu, Norina Forna, Mihail Lucian Birsa, <i>Synthesis of 4-(2-Hydroxyphenyl)-2-dialkylamino-1,3-dithiolium Salts and Corresponding Mesoionic Derivatives</i> , Rev. Chim. (Bucharest), <b>64</b> , 1404 (2013).	$0.538*60+25/4=$	14.32
		<b>59.17</b>

2. Articole științifice publicate *in extenso* în reviste indexate fără factor de impact

Paul Chirita, Cristian G. Hrib and Lucian M. Birsa, <i>5-Bromo-4-(3,5-dibromo-2-hydroxyphenyl)-2-(piperidin-1-yl)-1,3-dithiol-2-ylum bromide</i> , Acta Cryst. (2013). <b>E69</b> , o1097.	$20/3=$	6.66
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Laura G. Sarbu, Cristian G. Hrib and Lucian M. Birsa, <i>rac-1-(5-Bromo-2-hydroxyphenyl)-1-oxopropan-2-yl morpholine-4-carbodithioate</i> , Acta Cryst. (2013). <b>E69</b> , o1169.	20/3=	6.66
Lucian G. Bahrin, Cristian G. Hrib and Lucian M. Birsa, <i>4-Bromo-2-[5-methyl-2-(morpholin-4-yl)-1,3-thiazol-4-yl]phenol</i> , Acta Cryst. (2013). <b>E69</b> , o1170.	20/3=	6.66
		<b>20</b>

**9. Contracte de cercetare științifică derulate doar prin Universitate**

Director PN II Parteneriate 51/2012	138750*50 / 500000	13.87
		<b>13.87</b>

**12. Citări și recenzii ale lucrărilor științifice**

1. Seliger, H.; Happ, E.; Cascaval, A.; <b>Birsa, M. L.</b> , "Alkyl-2-hydroxyaryl ketones. XXX.", <i>An. St. Univ. "Al.I. Cuza" Iasi</i> , (1997) <b>V</b> , 111-122.	<b>1.25</b>
C2. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
2. Seliger, H.; Happ, E.; Cascaval, A.; <b>Birsa, M. L.</b> ; Novitschi, G., "Synthesis of some aminated thiazoles", <i>An. St. Univ. "Al.I. Cuza" Iasi</i> , (1997) <b>V</b> , 123-128.	<b>1</b>
C1. Sarbu, L. G., Bicu, E., Belei, D., <i>Rev. Chim. (Bucharest)</i> , <b>65(2)</b> , 000 (2014).	
4. <b>Birsa, M. L.</b> , "Dithiolium derivatives. I.", <i>An. St. Univ. "Al.I. Cuza" Iasi</i> , (1998) <b>VI</b> , 57-64.	<b>5</b>
C2. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
6. <b>Birsa, M. L.</b> , "Dithiolium derivatives. III.", <i>An. Stiint. Univ. "Al.I. Cuza" Iasi</i> , (1999) <b>VII</b> , 349-354.	<b>5</b>
C2. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
7. Seliger, H.; Happ, E.; Cascaval, A.; <b>Birsa, M. L.</b> ; Nicolaescu, T.; Poinescu, I.; Cojocariu, C., "Synthesis and characterization of new photostabilizers from 2,4-dihydroxybenzophenone", <i>Eur. Polym. J.</i> , (1999) <b>35</b> , 827- 833.	<b>5.4</b>

	C9. Oliveira, C.F.P., Cremm, S.R., Cruz, G.H.S., Fachine, G.J.M., <b>Photostabilization of polystyrene/montmorillonite nanocomposite. A factorial experimental design 24</b> , <i>Journal of Applied Polymer Science</i> 2013, 128 (1), pp. 188-198.	
8. <b>Birsa, M. L.</b> , "Dithiolium derivatives. IV.", <i>An. Stiint. Univ. "Al.I. Cuza" Iasi</i> , (2000) <b>VIII</b> , 71-74.		<b>5</b>
	C1. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
10. <b>Birsa, M. L.</b> , "Dithiolium derivatives. V.", <i>An. Stiint. Univ. "Al.I. Cuza" Iasi</i> , (2000) <b>VIII</b> , 329-334.		<b>5</b>
		<b>27.65</b>
	C2. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
12. <b>Birsa, M. L.</b> , "A new approach to preparation of 1,3-dithiolium salts", <i>Synth. Commun.</i> , (2001) <b>31</b> , 1271-1275.		<b>5</b>
	C3. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
13. Braverman, S.; Cherkinsky, M.; <b>Birsa, M. L.</b> ; Tichman, S.; Goldberg, I., "Synthesis and structure of novel sulfur bridged cyclic di- and tetraalkynes", <i>Tetrahedron Lett.</i> , (2001) <b>42</b> , 7485-7488.		<b>1</b>
	C5. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
14. <b>Birsa, M. L.</b> , "Synthesis of some new substituted flavanones and related 4-chromanones by a novel synthetic method", <i>Synth. Commun.</i> , (2002) <b>32</b> , 115-118.		<b>5</b>
	C2. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
15. Braverman, S.; Cherkinsky, M.; <b>Birsa, M. L.</b> ; Zafrani, Y., "Base catalyzed reactivity of sulfur and selenium bridged cyclic alkynes", <i>Eur. J. Org. Chem.</i> , (2002), 3198-3207.		<b>1.25</b>
	C19. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
16. <b>Birsa, M. L.</b> ; Cherkinsky, M.; Braverman, S., "Thermal rearrangements of bis-allenyl thiosulfonates", <i>Tetrahedron Lett.</i> , (2002) <b>43</b> , 9615-9619.		<b>1.66</b>
	C10. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	

17. <b>Birsa, M. L.</b> , Ganju, D., "Synthesis and UV/Vis spectroscopic properties of new [2-( <i>N,N</i> -dialkylamino)-1,3-dithiolium-4-yl]phenolates", <i>J. Phys. Org. Chem.</i> , (2003) <b>16</b> , 207-212.		<b>2.5</b>
	C4. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
18. <b>Birsa, M. L.</b> , "Reaction of 4-(2'-hydroxyaryl)-1,3-dithiolium salts with sodium sulfide. A selective synthesis of 2'-hydroxyacetophenones", <i>Synth. Commun.</i> , (2003) <b>33</b> , 3071-3076.		<b>5</b>
	C2. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	<b>49.06</b>
19. <b>Birsa, M. L.</b> , "Synthesis of some 4-(2'-hydroxyaryl)-5-ethyl-2-( <i>N, N</i> -dialkylamino)-1,3-dithiolium salts", <i>Sulfur Lett.</i> , (2003) <b>26</b> , 155-162.		<b>5</b>
	C2. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
21. Braverman, S.; Cherkinsky, M.; <b>Birsa, M. L.</b> ; Gottlieb, H. E., "Facile synthesis and Diels-Alder reactions of 2,6-divinyl-1,4-dithiin", <i>Synthesis</i> (2003), 849-852.		<b>1.25</b>
	C1. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
23. <b>Birsa, M. L.</b> , Jones, P. G., and Hopf, H., "Transannular Hydride Migration in <i>Pseudo-Geminally</i> Substituted[2.2]Paracyclophanes: A Vinylogous Pinacol Rearrangement", <i>Eur. J. Org. Chem.</i> (2005), 3263-3270.		<b>1.66</b>
	C11. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
24. <b>Birsa, M. L.</b> , Jones, P. G., Braverman, S. and Hopf, H., " <i>Pseudo-Geminally</i> Substituted [2.2]Paracyclophanes as Spacer for Bisallenyl Sulfoxides and Sulfones", <i>Synlett</i> (2005), 640-642.		<b>1.25</b>
	C8. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
26. <b>Birsa, M. L.</b> , Hopf, H., "Synthesis of $\alpha,\beta$ -Unsaturated Pseudogeminal [2.2]Paracyclophane Bisketones", <i>Synlett</i> (2007), 2753-2756.		<b>2.5</b>
	C2. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	

27.	<b>Birsa, M. L.</b> , Asaftei, I. V., "Solvatochromism of mesoionic iodo(1,3-dithiol-2-ylidene-4-yl)phenolates", <i>Monat. Chem.</i> , (2008) <b>139</b> , 1433-1438.	<b>2.5</b>
	C3. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
32.	Asaftei, I. V., Iofcea, Ghe., <b>Bîrsă, M. L.</b> , Bîlbă, N., „Aromatisation of the Technical C <sub>4</sub> /C <sub>4</sub> <sup>-</sup> Fraction Over Zn-MFI Catalysts", <i>Acta Chem. Iasi</i> , (2009) <b>17</b> , 5-34.	<b>2.5</b>
	C1. Aromatization of n-heptane over modified metal-MFI zeolite catalysts, By Asaftei, Iulian V.; Bilba, Nicolae; Sandu, Ion, <i>Revista de Chimie (Bucharest, Romania)</i> (2013), 64(8), 838-843.	
		<b>65.72</b>
34.	<b>Birsa, M. L.</b> , Hopf, H., "A New Way to Generate Functionalized Bridges in [2.2]Cyclophanes", <i>Synlett</i> (2009), 3000-3002.	<b>2.5</b>
	C1. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
36.	Belei, D., Bicu, E., <b>Birsa, M. L.</b> , "1,3-Dipolar Cycloaddition Reactions of <i>N</i> -Acetylazido-2-chlorophenothiazine", <i>Acta Chem. Iasi</i> , (2009) <b>17</b> , 197-207.	<b>10.4</b>
	C1. Synthesis and biological applications of triazole derivatives By Kumar, S. Sathish; Kavitha, Helen P. (2013) <i>Mini-Reviews in Organic Chemistry</i> , 10(1), 40-65.	
37.	Belei, D., Bicu, E., Jones, P. G., <b>Birsa, M. L.</b> , "A New Synthetic Methodology for the Pyrrolidine Ring", <i>Synlett</i> , (2010), 931-933.	<b>1.25</b>
	C1. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013).	
38.	<b>Birsa, M. L.</b> , Hopf, H., "A New Bridge in [2.2]Cyclophanes: The Addition of Se <sub>2</sub> Cl <sub>2</sub> to <i>Pseudo-Geminally</i> Substituted Bispropargylic Alcohols", <i>Heteroatom Chem.</i> (2010) <b>21</b> , 126-130.	<b>2.5</b>
	C1. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013). 2.5	
46.	Belei, D., Bicu, E., Jones, P. G., <b>Birsa, M. L.</b> , "A Selective Synthesis of Enamines vs. Aziridines", <i>J. Heterocycl. Chem.</i> , (2011) 48, 129-134.	<b>31</b>
	C2. Abuhaie, Cristina-Maria; Bicu, Elena; Rigo, Benoit; Gautret, Philippe; Belei, Dalila; Farce, Amaury; Dubois, Joelle; Ghinet, Alina From <i>Bioorganic &amp; Medicinal Chemistry Letters</i> (2013), 23(1), 147-152. 14	

	C3. Ferrini, Serena; Cini, Elena; Taddei, Maurizio From Synlett (2013), 24(4), 491-495. 15.75	
	C4. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013). 1.25	
50.	Gosav, S., Praisler, M., <b>Birsa, M. L.</b> <i>Int. J. Mol. Sci.</i> , “Principal Component Analysis Coupled with Artificial Neural Networks” (2011) <b>12</b> , 6668-6684.	<b>11.8</b>
	C4. Praisler, M., Domnisoru, D., Domnisoru, L., Chemometric method for the automated identification of cucuteni ceramics based on ATR-FTIR spectra, <i>European Journal of Science and Theology</i> 9 (2) (2013) pp. 249-256, Impact factor 0,389. <b>5.92</b>	
	C5. Boldea, Daniela-Afrodita; Praisler, Mirela; Quaranta, Marta; et al., Multi-technique Characterisation of Painted Eneolithic Ceramics Originating from CUCUTENI (ROMANIA), <i>European Journal of Science and Theology</i> 9(4) (2013) 253-262, Impact factor 0,389. . <b>5.92</b>	
51.	Belei, D., Abuhaie, C., Bicu, E., Jones, P. G., Hopf, H., <b>Birsa, M. L.</b> , “ <a href="#">A Direct Synthesis of Octahydropyrrolo[2,1,5-cd]indolizin-6-one Derivatives</a> ”, <i>Synlett</i> , <b>2012</b> , 545-548.	<b>24.5</b>
	C1. Fu, Qin; Yan, Chao-Guo Tetrahedron, Volume: 69, Issue: 29, Pages: 5841-5849 (2013). <b>11</b>	
	C2. Sarbu, L. G., Bahrin, L. G., <i>Acta Chem. Iasi</i> , <b>21</b> , 47-56 (2013). <b>0.83</b>	
	C4. Allgäuer, D.S., Mayr, H. One-pot two-step synthesis of 1-(ethoxycarbonyl)indolizines via pyridinium ylides (2013) <i>European Journal of Organic Chemistry</i> , (28), pp. 6379-6388. <b>12.66</b>	
	<b>TOTAL</b>	<b>149.6</b>

#### 14. Profesor invitat la universități de prestigiu

Braunschweig, 07-08		25
Mobilitate LLLP Erasmus Braunschweig		25
		<b>50</b>

## II. ACTIVITATEA DIDACTICĂ

**TOTAL = 90**

### 3. Materiale suport curs, seminar, lucrări practice și programe analitice detaliate

<b>Master CSI I, Compusi organici cu functiuni CURS</b>		10
<b>Master CSI I, Compusi organici cu functiuni SEMINAR</b>		10
<b>Master CSI I, Compusi organici cu functiuni PROGRAMA ANALITICA</b>		10
Master CBH, Chimie organica avansata CURS		10
Master CBH, <b>Chimie organica avansata SEMINAR</b>		10
Master CBH, Chimie organica avansata PROGRAMA ANALITICA		10
Master CMSA, Capitole speciale de chimie organica CURS		10
Master CMSA, Capitole speciale de chimie organica SEMINAR		10
Master CMSA, Capitole speciale de chimie organica PROGRAMA ANALITICA		10
		<b>90</b>

# AUTOEVALUARE 2012

## CRITERIUL I

$$0.7 \cdot 824.4 + 0.3 \cdot 110 = 610.08$$

### I. ACTIVITATEA DE CERCETARE

**TOTAL = 824.4**

1. Articole științifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact:

Belei, D., Abuhaie, C., Bicu, E., Jones, P. G., Hopf, H., <b>Birsa, M. L.</b> , "A Direct Synthesis of Octahydropyrrolo[2,1,5- <i>cd</i> ]indolizin-6-one Derivatives", <i>Synlett</i> , <b>2012</b> , 545-548.	$2.71 \cdot 60 + 25/6 = 31.26$	31.26

5. Cărți științifice publicate (doar prima ediție)

<b>Birsa, M. L.</b> , <i>Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2010</i> , Knipe, A. C. Ed., John Wiley and Sons, Chichester, 2012, 265-284.		20
<b>Birsa, M. L.</b> , <i>Elimination Reactions in Organic Reaction Mechanisms 2010</i> , Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2012, 285-297.		13
		<b>33</b>

9. Contracte de cercetare științifică derulate doar prin Universitate

Director PN II Parteneriate 51/2012	56250*50 / 500000	
		<b>5.625</b>

11. Brevete

Gulea A., Țapcov V., <b>Birsa, M. L.</b> , Gînju D., Jalbă A., Graur V., Julea F., "Inhibitor al leucemiei mieloidă umane în bază de {bis[2-(3,5-dibromo-2-hidroxifenil)-2-oxoetil-piperidin-1-carbodioato(1- <i>O,O'</i> ]cupru}", Brevet de invenție MD Nr 4190. 2012. Publ BOPI 12/2012. P. 21-22.	100 / 7	14.28
		<b>14.28</b>

12. Citări și recenzii ale lucrărilor științifice

Seliger, H.; Happ, E.; Cascaval, A.; <b>Birsa, M. L.</b> ; Nicolaescu, T.; Poinescu, I.; Cojocariu, C., "Synthesis and characterization of new photostabilizers from 2,4-dihydroxybenzophenone", <i>Eur. Polym. J.</i> , (1999) <b>35</b> , 827- 833.	$2.517 \cdot 20 + 10/7 = 8.62$	8.62
Bahrin, L. G., Jones, P. G., Hopf, H., <i>Beilstein J. Org. Chem.</i> , 8, 1999-2003 (2012).		
<b>Birsa, M. L.</b> , "A new approach to preparation of 1,3-	$2.517 \cdot 20 + 10/1 = 60.34$	60.34

dithiolium salts”, <i>Synth. Commun.</i> , (2001) <b>31</b> , 1271-1275.  Bahrin, L. G., Jones, P. G., Hopf, H., <i>Beilstein J. Org. Chem.</i> , 8, 1999-2003 (2012).		
Braverman, S.; Cherkinsky, M.; <b>Birsa, M. L.</b> ; Zafrani, Y., “Base catalyzed reactivity of sulfur and selenium bridged cyclic alkynes”, <i>Eur. J. Org. Chem.</i> , (2002), 3198-3207.  c1. Applications of the in situ Propargyl-Allenyl Isomerization in Organic Synthesis Xing, Yanpeng; Wei, Yuxiu; Zhou, Hongwei, Source: CURRENT ORGANIC CHEMISTRY 2012, Volume: <b>16</b> Issue: <b>13</b> Pages: <b>1594-1608</b>  c2. Hopf, H., Markopoulos, G., <i>Beilstein J. Org. Chem.</i> , <b>8</b> , 1936-1998 (2012)	3.064*20+10/4= 17,82 2.517*20+10/4= 15,085	32.905
<b>Birsa, M. L.</b> ; Cherkinsky, M.; Braverman, S., “Thermal rearrangements of bis-allenyl thiosulfonates”, <i>Tetrahedron Lett.</i> , (2002) <b>43</b> , 9615-9619.  c1. Hopf, H., Markopoulos, G., <i>Beilstein J. Org. Chem.</i> , <b>8</b> , 1936-1998 (2012)	2.517*20+10/3=20.113	20.113
<b>Birsa, M. L.</b> ; Ganju, D., “Synthesis and UV/Vis spectroscopic properties of new [2-(N,N-dialkylamino)-1,3-dithiolium-4-yl]phenolates”, <i>J. Phys. Org. Chem.</i> , (2003) <b>16</b> , 207-212.  Bahrin, L. G., Jones, P. G., Hopf, H., <i>Beilstein J. Org. Chem.</i> , 8, 1999-2003 (2012).	2.517*20+10/2=30.17	30.17
<b>M. Lucian Birsa</b> , Peter G. Jones, Samuel Braverman and Henning Hopf, “Pseudo-Geminally Substituted [2.2]Paracyclophanes as Spacer for Bisallenyl Sulfoxides and Sulfones”, <i>Synlett</i> (2005), 640-642.  c1. Hopf, H., Markopoulos, G., <i>Beilstein J. Org. Chem.</i> , <b>8</b> , 1936-1998 (2012)	2.517*20+10/4= 15,085	15.085
Birsa, Lucian M.; Asaftei, Luliean V., <b>Solvatochromism of mesoionic iodo(1,3-dithiol-2-ylum-4-yl)phenolates</b> , <i>Monatshefte fuer Chemie</i> (2008), 139(12), 1433-1438.  Bahrin, L. G., Jones, P. G., Hopf, H., <i>Beilstein J. Org. Chem.</i> , 8, 1999-2003 (2012).	2.517*20+10/2=30.17	30.17
Gosav, S., Praisler, M., <b>Birsa, M. L.</b> <i>Int. J. Mol. Sci.</i> , “Principal Component Analysis Coupled with Artificial Neural Networks” (2011) <b>12</b> , 6668-6684.	1.2*20+10/3=11.33 50/3=16.66	27.99



<p>C1. Chepte, C., Dulcescu, M., Dorohoi, D. O., Sunel, V., Digest Journal of nanomaterials and Biostructure, (2012) 287-297.</p> <p>C2. Herbst, J.; Scherer, B.; Ruf, A.; et al. Book Editor(s): Razeghi, M; Tournie, E; Brown, GJ "Hollow fiber based quantum cascade laser spectrometer for fast and sensitive drug identification " QUANTUM SENSING AND NANOPHOTONIC DEVICES IX Book Series: <b>Proceedings of SPIE</b> Volume: <b>8268</b> Article Number: <b>82681Q</b></p>		
<p><b>Birsa, M. L.</b>, "Synthesis of some new substituted flavanones and related 4-chromanones by a novel synthetic method", <i>Synth. Commun.</i>, (2002) <b>32</b>, 115-118.</p> <p>Bahrin, L. G., Jones, P. G., Hopf, H., <i>Beilstein J. Org. Chem.</i>, 8, 1999-2003 (2012).</p>	2.517*20+10/1=60.34	60.34
<p><b>Birsa, M. L.</b>, "Reaction of 4-(2'-hydroxyaryl)-1,3-dithiolium salts with sodium sulfide. A selective synthesis of 2'-hydroxyacetophenones", <i>Synth. Commun.</i>, (2003) <b>33</b>, 3071-3076.</p> <p>Bahrin, L. G., Jones, P. G., Hopf, H., <i>Beilstein J. Org. Chem.</i>, 8, 1999-2003 (2012).</p>	2.517*20+10/1=60.34	60.34
<p>Belei, D., Bicu, E., Jones, P. G., <b>Birsa, M. L.</b>, "A Selective Synthesis of Enamines vs. Aziridines", <i>J. Heterocycl. Chem.</i>, (2011) 48, 129-134.</p> <p>C1. Belei, Dalila; Dumea, Carmen; Samson, Alexandrina; et al. "New farnesyltransferase inhibitors in the phenothiazine series " BIOORGANIC &amp; MEDICINAL CHEMISTRY LETTERS 2012: <b>22</b> Issue: <b>14</b> Pages: <b>4517-4522</b></p>	2.554*20+10/4=15.27	15.27
<p><b>Birsa, M. L.</b>, "Dithiolium derivatives. I.", <i>An. St. Univ. "Al.I. Cuza" Iasi</i>, (1998) <b>VI</b>, 57-64</p> <p>Bahrin, L. G., Jones, P. G., Hopf, H., <i>Beilstein J. Org. Chem.</i>, 8, 1999-2003 (2012).</p>	2.517*20+10/1=60.34	60.34
<p>19. <b>Birsa, M. L.</b>, "Dithiolium derivatives. III.", <i>An. Stiint. Univ. "Al.I. Cuza" Iasi</i>, (1999) <b>VII</b>, 349-354.</p> <p>C1. Bahrin, L. G., Jones, P. G., Hopf, H., <i>Beilstein J. Org. Chem.</i>, 8, 1999-2003 (2012).</p>	2.517*20+10/1=60.34	60.34
<p>20. <b>Birsa, M. L.</b>, "Dithiolium derivatives. V.", <i>An. Stiint. Univ. "Al.I. Cuza" Iasi</i>, (2000) <b>VIII</b>, 329-334.</p> <p>C1. Bahrin, L. G., Jones, P. G., Hopf, H., <i>Beilstein J. Org. Chem.</i>, 8, 1999-2003 (2012).</p>	2.517*20+10/1=60.34	60.34
<p>21. Seliger, H.; Cascaval, A.; <b>Birsa, M. L.</b>, "A facile one-step synthesis of some new bis-Mannich-Werner bases of polysubstituted chroman-4-ones", <i>An. St. Univ. "Al.I. Cuza" Iasi</i>, (1997) <b>V</b>, 129-134.</p> <p>C1. Bahrin, L. G., Jones, P. G., Hopf, H., <i>Beilstein J. Org. Chem.</i>, 8, 1999-2003 (2012).</p>	2.517*20+10/3=20.113	<b>20.113</b>
<p>22. <b>Birsa, M. L.</b>, "Synthesis of some 4-(2'-hydroxyaryl)-5-ethyl-2-(N, N-dialkylamino)-1,3-dithiolium salts", <i>Sulfur Lett.</i>,</p>	2.517*20+10/1=60.34	60.34

(2003) <b>26</b> , 155-162.		
C1. Bahrin, L. G., Jones, P. G., Hopf, H., <i>Beilstein J. Org. Chem.</i> , <b>8</b> , 1999-2003 (2012).		
23. Goanta, M., Ciobanu, A.S., Birsa, A., Asaftei, I.V., and <b>Birsa, M. L.</b> , "Synthesis of 4-(3-Bromo-2-Hydroxy-5-Methylphenyl)-2-Dialkylamino-1,3-Dithiolium Chlorides", <i>Acta Chem. Iasi</i> , (2009) <b>17</b> , 35-48.	2.517*20+10/5=12,068	<b>12,068</b>
C1. Bahrin, L. G., Jones, P. G., Hopf, H., <i>Beilstein J. Org. Chem.</i> , <b>8</b> , 1999-2003 (2012).		
25. <b>Birsa, M. L.</b> , Hopf, H., "Pseudo-Geminal [2.2]-Paracyclophane As Spacer For Bisallenyl Sulfoxides And Sulfones", <i>Phosphorus, Sulfur, and Silicon, and the Related Elements</i> (2005) <b>180</b> , 1453-1454.	2.517*20+10/2=30.17	30.17
C1. Hopf, H., Markopoulos, G., <i>Beilstein J. Org. Chem.</i> , <b>8</b> , 1936-1998 (2012)		
		<b>665,234</b>

#### 14. Profesor invitat la universități de prestigiu

Braunschweig, 07-08		25
Braunschweig, 04		25
		<b>50</b>

#### 15. Editor/Membru în *Editorial Board & Advisory Board*

Editor ACI		<b>10</b>
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#### 19. Participări la manifestări științifice

Simpozion chimie medicala		15
		<b>15</b>

## II. ACTIVITATEA DIDACTICĂ

**TOTAL = 110**

#### 3. Materiale suport curs, seminar, lucrări practice și programe analitice detaliate

Master CSI I, Concepte si teorii noi in chimia organica CURS		10
Master CSI I, Concepte si teorii noi in chimia organica SEMINAR		10
Master CSI I, Concepte si teorii noi in chimia organica PROGRAM ANALITICA		10
Chimie II, Chimia hidrocarburilor CURS		10
Chimie II, Chimia hidrocarburilor PROGRAM ANALITICA		10
Master CPCF + CMSA, Chimie organica avansata CURS		10
Master CPCF + CMSA, Chimie organica avansata SEMINAR		10
Master CPCF + CMSA, Chimie organica avansata PROGRAM ANALITICA		10
Master CSI I, Compusi organici cu functiuni CURS		10
Master CSI I, Compusi organici cu functiuni SEMINAR		10
Master CSI I, Compusi organici cu functiuni PROGRAM ANALITICA		10
		<b>110</b>

# AUTOEVALUARE 2011

**CRITERIUL I** **0.7\*580.53 + 0.3\*90 = 436.65**

## I. ACTIVITATEA DE CERCETARE

**TOTAL = 580.53**

1. Articole științifice publicate *in extenso* în reviste cotate *Web of Science* cu factor de impact:

Belei, D., Bicu, E., Jones, P. G., <b>Birsa, M. L.</b> , "A Selective Synthesis of Enamines vs. Aziridines", <i>J. Heterocycl. Chem.</i> , (2011) 48, 129-134.	(60*0.962+25) / 4	20.68
<b>Birsa, M. L.</b> , Jones, P. G., Hopf, H., "Orthogonal $\pi$ -Bridges in [2.2]Paracyclophanes", <i>Synlett</i> , (2011), 259-261.	(60*2.447+25) / 3	57.27
Sarbu, L. G., Birsa, A., Hopf, H., <b>Birsa, M. L.</b> , "New Bridges In [2.2]Paracyclophanes: The Interaction Of Chalcogenide Halides With Pseudo-Geminal Triple Bonds", <i>Phosphorus, Sulfur, and Silicon, and the Related Elements</i> (2011) <b>186</b> , 1246-1250.	(60*0.621+25) / 4	15.56
Gosav, S., Praisler, M., <b>Birsa, M. L.</b> <i>Int. J. Mol. Sci.</i> , "Principal Component Analysis Coupled with Artificial Neural Networks" (2011) <b>12</b> , 6668-6684.	(60*2.279+25) / 3	53.91
		<b>147.42</b>

3. Articole științifice publicate *in extenso* în reviste indexate BDI

Sarbu, L. G., <b>Birsa, M. L.</b> , "Synthesis of Iodine Containing Mesoionic 2-(1,3- Dithiolium)phenolates", <i>Acta Chem. Iasi</i> , (2011) <b>19</b> , 125-135.	15/2	7.5
Sarbu, L. G., Birsa, A., Hopf, H., Birsa, M. L., "Heteroatom Bridged [2.2]Paracyclophanes As Eneidyne Analogs", <i>Acta Chem. Iasi</i> , (2010) <b>18</b> , 186 (published 2011).	15/4	3.75
Cristina M. Abuhaie, Dalila Belei, Lucian Bîrsă et Elena Bîcu - NOUVEAUX COMPOSES DE TYPE PYRIDINO- ET INDOLIZINO-PHENOTHIAZINES A POTENTIALITÉ PHARMACOLOGIQUE - <i>Acta Chem. Iasi</i> , (2010) <b>18</b> , 129 (published 2011).	15/4	3.75
Steluța Gosav and Mihail Lucian Bîrsă - EXPLORATORY ANALYSIS ON SOME FLAVONOIDS WITH ANTI-INVASIVE ACTIVITY USING MOLECULAR DESCRIPTORS AND PRINCIPAL COMPONENT ANALYSIS - <i>Acta Chem. Iasi</i> , (2010) <b>18</b> , 150-151 (published 2011).	15/2	7.5
		<b>22.5</b>

5. Cărți științifice publicate (doar prima ediție)

<b>Birsa, M. L.</b> , <i>Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2007</i> , Knipe, A. C. Ed., John Wiley and Sons, Chichester, 2011, 239-264.		26
<b>Birsa, M. L.</b> , <i>Elimination Reactions in Organic Reaction Mechanisms 2007</i> , Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2011, 265-274.		9
<b>Birsa, M. L.</b> , <i>Elimination Reactions in Organic Reaction Mechanisms 2008</i> , Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2011, 253-266.		14
<b>Birsa, M. L.</b> , <i>Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2008</i> , Knipe, A. C. Ed., John Wiley and Sons, Chichester, 2011, 225-252.		28
<b>Birsa, M. L.</b> , <i>Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2009</i> , Knipe, A. C. Ed., John Wiley and Sons, Chichester, 2011, 309-332.		24

<b>Birsa, M. L.,</b> <i>Elimination Reactions in Organic Reaction Mechanisms 2009</i> , Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2011, 333-344.		12
		<b>113</b>

9. Contracte de cercetare științifică derulate doar prin Universitate

Director PN II IDEI 2095	181446*50 / 500000	18.14
		<b>18.14</b>

12. Citări și recenzii ale lucrărilor științifice

<p>Levi, M. D.; Gofer, Y.; Cherkinsky, M.; <b>Birsa, M. L.</b>; Aurbach, D.; Berlin, A., "Electroanalytical features of non-uniformly doped conducting poly-3-(3,4,5-trifluorophenyl)thiophene films", <i>Phys. Chem. Chem. Phys.</i> (2003) <b>5</b>, 2886-2893.</p> <p>C13. Chatterjee, Shyambo; Banerjee, Susanta; Banerji, Pallab., <b>Synthesis and characterization of fluorene based <math>\pi</math>-conjugated ter-copolymers.</b>, <i>Synthetic Metals</i> (2011), 161(3-4), 263-270. 1.81651</p> <p>C14. Chatterjee, Shyambo; Banerjee, Susanta; Banerji, Pallab, <b>Synthesis of Fluorene Based New Ter-Copolymers: Electrochemical and Optical Properties</b>, <i>Journal of Macromolecular Science, Part A: Pure and Applied Chemistry</i> (2011), 48(10), 780-788.</p>	<p>1.871*20+10/6=7.9 0.816*20+10/6=4.38</p>	12.28
<p>Braverman, S.; Cherkinsky, M.; <b>Birsa, M. L.</b>, <math>X=C=X</math>, <math>X=O</math>, <math>S</math>, <math>Se</math>, <math>Te</math>, <math>N</math>, <math>P</math>. <math>CO_2</math>, <math>COS</math>, <math>CS_2</math>, <i>Isocyanates, Isothiocyanates, Carbodiimides, Se, Te, P Analogs in Science of Synthesis, Houben-Weyl Methods of Molecular Transformations</i>, Georg Thieme Verlag, Stuttgart, Vol. 18.2; 2005, pp 55-310.</p> <p>C9. Alcarazo, Manuel, <b>On the metallic nature of carbon in allenes and heterocumulenes</b>, <i>Dalton Transactions</i> (2011), 40(9), 1839-1845.</p> <p>C10. Kremer, Christopher; Luetzen, Arne. <b>Synthesis of diisothiocyanato-functionalized 2,2'-bipyridines</b>, <i>Synthesis</i> (2011), (2), 210-212.</p>	<p>3.647*20+10/3=27.64 2.26*20+10/3=18.4</p>	46.04
<p>Birsa, Lucian M.; Asaftei, Luliean V., <b>Solvatochromism of mesoionic iodo(1,3-dithiol-2-ylidene-4-yl)phenolates</b>, <i>Monatshefte fuer Chemie</i> (2008), 139(12), 1433-1438.</p> <p><b>C1. A Stable Acyclic Ligand Equivalent of an Unstable 1,3-Dithiol-5-ylidene</b> By Ung, Gael; Mendoza-Espinosa, Daniel; Bouffard, Jean; Bertrand, Guy</p>	<p>12.73*20+10/2= 132.3</p>	132.3

From Angewandte Chemie, International Edition (2011), 50(18), 4215-4218.		
<b>Birsa, M. L.</b> ,* Jones, P. G., Hopf, H. "[2.2]Paracyclophanes with New Bridges", <i>Synfacts</i> , <b>2011</b> , 387.	50/3=16.66	16.66
Gosav, S., Praisler, M., <b>Birsa, M. L.</b> <i>Int. J. Mol. Sci.</i> , "Principal Component Analysis Coupled with Artificial Neural Networks" (2011) <b>12</b> , 6668-6684.	2.079*20+10/3=17.19	<b>17.19</b>
<b>C1.</b> Cheptea, C., Dulcescu, M., Dorohoi, D. O., Sunel, V., Desbrieres, J. <i>Dig. J. Nanomater. Bio.</i> , (2011) <b>12</b> , 287-297		
		<b>224.47</b>

**14. Profesor invitat la universități de prestigiu**

Braunschweig, 07-08		<b>25</b>
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**15. Editor/Membru în Editorial Board & Advisory Board**

Editor ACI		<b>15</b>
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**19. Participări la manifestări științifice**

ESOC2011		15
		<b>15</b>

**II. ACTIVITATEA DIDACTICĂ**

**TOTAL = 90**

**2. Proiecte didactice (înființare dotare cu dovezi demonstrabile laboratoare licență, ...)**

Amenajare sala seminar ch. org.		40
		<b>40</b>

**3. Materiale suport curs, seminar, lucrări practice și programe analitice detaliate**

Master CSI I, Concepte si teorii noi in chimia organica CURS		10
Master CSI I, Concepte si teorii noi in chimia organica SEMINAR		10
Master CSI I, Concepte si teorii noi in chimia organica PROGRAMAMA ANALITICA		10
Master DCH I, Capitole speciale de chimie organica CURS		10
Master DCH I, Capitole speciale de chimie organica PROGRAMAMA ANALITICA		10
		<b>50</b>

**AUTOEVALUARE 2010**

**I. Evaluarea contribuțiilor profesionale și de cercetare științifică**

**TOTAL = 0.7\*421.13 + 0.3\*60 = 312.79**

**1. Articole științifice publicate in extenso în reviste cotate Web of Science cu factor de impact:**

Belei, D., Bicu, E., Jones, P. G., <b>Birsa, M. L.</b> , "A New Synthetic Methodology for the Pyrrolidine Ring", <i>Synlett</i> , (2010), 931-933.	(60*2.659+25) / 4	46.13
<b>Birsa, M. L.</b> , Hopf, H., "A New Bridge in [2.2]Cyclophanes: The Addition of Se <sub>2</sub> Cl <sub>2</sub> to Pseudo-Geminally Substituted Bispropargylic Alcohols", <i>Heteroatom Chem.</i> (2010) <b>21</b> , 126-130.	(60*1.155+25) / 2	47.15
		<b>93.28</b>

3. Articole științifice publicate *in extenso* în reviste clasificate CNCSIS B+ și BDI

Sarbu, L., Birsa, A., Ignat, L., Hopf, H., <b>Birsa, M. L.</b> , "[2.2]Paracyclophanes: The Interaction of Pseudo-Geminal Bisacetylene with Electrophiles", <i>Acta Chem. Iasi</i> , (2010) <b>18</b> , 69-76.	20 / 5	4
		<b>4</b>

6. Cărți științifice de autor publicate în edituri (doar prima ediție)

<b>Birsa, M. L.</b> , <i>Carbanions and Electrophilic Aliphatic Substitution in Organic Reaction Mechanisms 2007</i> , Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2010, pp. 239-264.	26 / 1	26
<b>Birsa, M. L.</b> , <i>Elimination Reactions in Organic Reaction Mechanisms 2007</i> , Knipe, A. C. Ed., John Wiley & Sons, Chichester, 2010, pp. 265-274.	10 / 1	10
		<b>36</b>

9. Contracte de cercetare științifică derulate doar prin Universitate

Director PN II IDEI 2095	175000 / 2000	87.5
		<b>87.5</b>

11. Citări și recenzii ale creației de autor (exclus autocitări)

Braverman, S.; Cherkinsky, M.; <b>Birsa, M. L.</b> ; Zafrani, Y., "Base catalyzed reactivity of sulfur and selenium bridged cyclic alkynes", <i>Eur. J. Org. Chem.</i> , (2002), 3198-3207.  C11. Back, Thomas G.; Clary, Kristen N.; Gao, Detian. <b>Cycloadditions and Cyclizations of Acetylenic, Allenic, and Conjugated Dienyl Sulfones.</b> Chemical Reviews (Washington, DC, United States) (2010), 110(8), 4498-4553 C12. Sommen, Geoffroy L.; Thomae, David. <b>Utility of hydrogen selenide and its related salts for the synthesis of selenium-containing heterocycles.</b> Current Organic Synthesis (2010), 7(1), 44-61.	23.592*20+10/4=120.46 2.61*20+10/4=15.55	136.01
Braverman, S.; Cherkinsky, M.; <b>Birsa, M. L.</b> ; Tichman, S.; Goldberg, I., "Synthesis and structure of novel sulfur bridged cyclic di- and tetraalkynes", <i>Tetrahedron Lett.</i> , (2001) <b>42</b> , 7485-7488.  C3. Braverman, Samuel; Cherkinsky, Marina; Meridor, David; Sprecher, Milon. <b>Synthesis and reactivity of dipropargylic disulfides: tandem rearrangements, cyclization, and oxidative dimerization.</b> Tetrahedron (2010), 66(10), 1925-1930.	2.538*20+10/5=12.152	12.152
Seliger, H.; Happ, E.; Cascaval, A.; <b>Birsa, M. L.</b> ; Nicolaescu, T.; Poinescu, I.; Cojocariu, C., "Synthesis and characterization of new photostabilizers from 2,4-dihydroxybenzophenone", <i>Eur. Polym. J.</i> , (1999) <b>35</b> , 827- 833.	2.017*20+10/7= 7.19	7.19

C7. Zou, Jiangpeng; Jiang, Long; Nguyen, Thien Phap; Dan, Yi. <b>Studies on UV-stability of poly(MMA-co-M12-co-BPMA)/TiO<sub>2</sub> composite particles prepared by ultrasonically initiated emulsion polymerization.</b> Polymers for Advanced Technologies (2010), 21(8), 598-605.		
		<b>155.35</b>

**15. Profesor invitat la universități de prestigiu**

Braunschweig, 07-08		25
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**19. Referent cărți și publicații științifice**

SYNLETT		20
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**III. Evaluarea gradului de îndeplinire a obligațiilor didactice 3 x 20 = 60**

**2.3. Materiale suport curs, seminar, lucrări practice și programe analitice detaliate**

Master DCH, STRATEGII ÎN SINTEZA ORGANICA CURS		10
Master DCH, STRATEGII ÎN SINTEZA ORGANICA CURS – PROGRAMĂ ANALITICĂ		10
		<b>20</b>