

**Grila de evaluare  
în vederea aprecierii activității cadrelor didactice  
între anii 2006-2010**

**Cadrul didactic: VLADOIU RODICA**

**Gradul didactic: Conf Univ Dr**

Tipul activitatii	Autoevaluare	Evaluare sef catedra
<b>I. ACTIVITATEA ȘTIINȚIFICĂ</b>	<b>1792.63</b>	
<b>1. Situația doctoratului</b>		
1.1 Fiecare examen		
1.2 Fiecare referat		
1.3 Teza de doctorat confirmată de CNATDCU		
<b>2. Articole științifice in extenso în</b>	<b>984.54</b>	
Reviste acreditate CNCSIS:		
Categoria B+		
Categoria B		
Reviste cotate ISI	1168.10	
Volume la sesiuni de comunicări internaționale neindexate	9.9	
Volume la sesiuni de comunicări internaționale indexate ISI	9.1	
<b>3. Citari (exclusiv autocitari)</b>	<b>37.08</b>	
Reviste cotate ISI	37.08	
<b>4. Comunicări științifice</b>	<b>103.6</b>	
4.1 Orale sau poster cu rezumate publicate la Conferințe, simpozioane, congrese și sesiuni științifice internaționale	39.46	
4.2 Invitate la Conferințe, simpozioane, congrese și sesiuni științifice internaționale	64.14	
<b>5. Monografii științifice</b>	<b>1</b>	
In țară, în edituri recunoscute CNCSIS		
In străinătate, în edituri de prestigiu	1	
<b>6. Granturi și contracte:</b>	<b>558.32</b>	
6.1 Proiect de grant propus la nivel național:		
- director de proiect	5	
- membru	1	
6.2 Proiect de grant propus la nivel internațional:		
- director de proiect	24	
- membru		
6.3 Granturi/ proiecte naționale aprobate		
-director de proiect	30	
- membru	0.5	
6.4 Proiect de grant aprobate la nivel internațional:		
- director de proiect		
- membru	1	
6.5 Contracte de cercetare (fara recenzare)		
-director de contract		
- membru		
6.6 Granturi/proiecte incasate	496.8	
<b>7. Alte rezultate științifice:</b>	<b>29.09</b>	
7.1 Brevet de invenție		
- internațional		
- național	29.09	

7.2 Tehnologii omologate		
7.3 Brevet de inovatie		
<b>8. Comisii / comitete / societati stiintifice / referent stiintific</b>	<b>69</b>	
8.1 Membru în comisia de susținere teză de doctorat		
- international		
- national	5x2	
8.2 Membru în comisia de admitere/ examen/referat doctorat		
8.3 Membru în comitetele științifice ale manifestărilor științifice	2	
8.4 Membru in comitetul stiintific al revistelor de specialitate		
- reviste acreditate CNCSIS		
- reviste cotate ISI		
8.5 Referent stiintific la reviste de specialitate		
8.5.1 Reviste acreditate CNCSIS		
8.5.2 Reviste cotate ISI		
- factor de impact < 1	1x5	
- factor de impact ≥ 1	3x7	
8.6 Referent cărți sau cursuri universitare		
- nationale		
- internationale		
8.7 Referent lucrari de laborator, îndrumare de proiectare, culegeri de probleme		
8.8 Evaluator granturi cercetare		
- nationale	25	
- internationale		
8.9 Moderator la conferinte		
- internationale	1	
- internationale organizate de societati de prestigiu		
8.10 Membru in societati stiintifice		
- nationale	3	
- internationale	2	
8.11 Membru de onoare al societatiilor stiintifice		
<b>9. Premii/distincții cu caracter stiintific</b>	<b>10</b>	
9.1 Premii ale Academiei Romane, CNCSIS		
9.2 Premii pentru lucrari stiintifice la conferinte/ simpozioane		
- internationale		
- internationale organizate de societati de prestigiu		
9.3 Premii internationale pentru activitatea stiintifica si prestigiul profesional		
9.4 Specializari/burse/ cursuri in domeniul postului	10	
<b>II. ACTIVITATEA DIDACTICĂ</b>	<b>395.57</b>	
Curs universitar, la apariție		
Curs universitar, anual dacă este în uz (10 ani de la aparitie)	256.37	
Îndrumare de laborator/proiect, culegere de probleme la apariție	53.2	
Îndrumare de laborator/proiect, culegere de probleme, anual dacă este în uz		
Amenajari lucrari de laborator didactic pe directii noi	20	
Concepere si redactare curs pe directii noi	15	
Îndrumarea cercetării științifice studențești		
- pentru fiecare lucrare prezentată local		
- pentru fiecare lucrare prezentată la nivel national		
- pentru fiecare lucrare premiata		
Îndrumarea de lucrări de licenta	32	
Îndrumarea de lucrări de dizertatie	16	
Membru / secretar in comisia de licenta / dizertatie	5	
Invatamantul preuniversitar		
Activități de predare, examinare – definitivat		
Activități de, predare, examinare – gradul II		
Îndrumarea elaborării lucrării pt. obținerea gradului didactic I		
Membru in comisiile olimpiadelor/concursurilor scolare (elaborare		

subiecte, corectura)		
<b>III. RESPONSABILITĂȚI ORGANIZATORICE</b>	<b>21</b>	
Participarea ca membru în comitetele de organizare ale manifestărilor științifice și în interesul învățământului	11	
Întocmirea dosarelor de evaluare academică		
Întocmirea dosarelor de înființare de noi specializări		
Întocmirea dosarelor de înființare de noi forme de învățământ		
Întocmirea planurilor de învățământ		
Întocmirea orarului (pt. un semestru)		
Secretar catedra		
Sef laborator	5	
Responsabil cu protecția muncii și substanțe toxice		
Responsabil cu prevenirea și stingerea incendiilor		
Responsabil cu protecția împotriva radiațiilor		
Responsabil cu primul ajutor		
Responsabil cu calitatea procesului didactic		
Responsabil cu programul LLL		
Coordonator de program de studii	5	
Indrumator de an		
Editor anale		
Secretar redacție anale		
Întocmire de materiale publicitare,		
Administrator web facultate		
Administrator web catedra		
Responsabil UMS		
<b>TOTAL</b>	<b>2209.20</b>	

**Decan,**

**Cadru didactic,**

**Sef catedra,**

## Liste și punctaj

## Criteriul 2 - Activitatea de cercetare

Nr. crt.	Lucrarea	Factor impact (IF)	Punctaj 100xFI/Nr.Aut.	Punctaj 100x FI+0.333/ Nr.Aut.
1	„Thermoionic vacuum arc (TVA) deposited tungsten thin film characterization”, <u>R. Vlădoiu</u> , V. Ciupina, C. P. Lungu, V. Bursikova, G. Musa, <b>J Optoelectron Adv M</b> , vol .8, no 1 (2006) 71-74	1,106	22,120	28,780
2	“Unstressed carbon-metal films deposited by thermionic vacuum arc method”, C. P. Lungu, I. Mustata, G. Musa, A. M. Lungu, O. Brinza, C. Moldovan, C. Rotaru, R. Iosub, F. Sava, M. Popescu, <u>R. Vlădoiu</u> , V. Ciupina, G. Prodan, N. Apetroaei, <b>J Optoelectron Adv M</b> , vol. 8, no1 (2006) 74-78	1,106	7,90	10,279
3	“Characteristics of boron thin films obtained by TVA technology”, G. Musa, <u>R.Vlădoiu</u> , V. Ciupina, C. P. Lungu, I. Mustata, S. Pat, T. Akan, N. Ekem, <b>J Optoelectron Adv M</b> , vol 8, no2 (2006) 617-621	1,106	13,820	17,988
4	“Raman spectra of carbon thin films”, G. Musa, <u>R. Vlădoiu</u> , V. Ciupina, J. Janik, <b>J Optoelectron Adv M</b> , vol 8, no 2 (2006) 621-624	1,106	27,650	35,975
5	“Boron thin film deposition by using thermionic vacuum arc (TVA) technology”, T. Akan, N. Ekem, S. Pat, U.G. Issever, M.Z. Balbag, M.I. Cenik, <u>R. Vlădoiu</u> , G. Musa, <b>Mater Lett</b> , vol. 61, Issue 1 (2007) 23-26, Ed Elsevier, ISSN: 0167-577X	1,353	16,910	21,075
6	„The synthesis of DLC using a novel cathodic arc technique: Gas-TVA”, C. Surdu-Bob, G.Musa, <u>R.Vlădoiu</u> , C.P. Lungu, <b>J Optoelectron Adv M</b> , vol. 9, no 8 (2007) 2660-2662	0,827	20,670	29,000
7	“Properties of the carbon thin films deposited by Thermionic Vacuum Arc”, <u>R. Vlădoiu</u> , V.Ciupină, C. Surdu-Bob, C.P. Lungu, J. Janik, J.D. Skalny, V. Bursikova, J. Bursik, G. Musa, <b>J Optoelectron Adv M</b> , vol. 9, no 4 (2007) 862-866	0,827	9,18	12,889
8	„Gaseous Thermionic Vacuum Arc (G-TVA)- an extension of TVA (Thermionic Vacuum Arc) input materials from solid samples to gases and liquids for carbon thin film deposition”, G. Musa, C. Surdu-Bob, C.P. Lungu, <u>R. Vlădoiu</u> , <b>J Optoelectron Adv M</b> , vol. 9, no 4 (2007) 867-870	0,827	20,670	29,000
9	„Carbon Synthesis in methane plasma”, G. Musa, N. Ekem, S. Pat, M.Z. Balbag, M.I.Cenik, T. Akan, V. Ciupină, <u>R. Vlădoiu</u> , M. Tanisli, O. Ozen, <b>J Optoelectron Adv M</b> , vol. 9, no 4 (2007) 871-874	0,827	8,27	11,600
10	„Argon emission spectra change at molecular gas addition”, G. Musa, <u>R. Vlădoiu</u> , N. Ekem, M.I. Cenik, S. Pat, M.Z. Balbag, <b>J Optoelectron Adv M</b> , vol. 9, no 4 (2007) 894-896	0,827	13,780	19,333

11	„ <i>Characterization by nanoindentation and Scanning Electron Microscopy of the spin valves structures prepared by Thermionic Vacuum Arc (TVA) method</i> ”, <b>R. Vlădoiu</b> , C. P. Lungu, I. Mustață, V. Bursikova, J. Bursik, <b>J Optoelectron Adv M</b> , vol. 9, no 4 (2007) 1087-1090	0,827	<b>16,540</b>	<b>23,200</b>
12	„ <i>A study of the Physical and Chemical processes Active in Ozone Generation by Carbon Dioxide Fed Corona discharges</i> ”, J. D Skalny, S Matejcik, J, Orszagh, R. Vlădoiu, N. J. Mason, <b>Ozone: Science &amp;Engineering</b> , Vol 29, Issue 5, September, 2007, pages 399-404, Ed Taylor & Francis, ISSN: 1547-6545 (electronic) 0191-9512 (paper)	0,784	<b>15,680</b>	<b>22,340</b>
13	„ <i>A double monochromatization effect in low temperature plasmas</i> ”, G. Musa, C. Surdu-Bob, <b>R. Vlădoiu</b> , <b>J Optoelectron Adv M</b> , vol. 9, no 8 (2007) 2653-2656	0,827	<b>27,560</b>	<b>38,667</b>
14	“ <i>Exchange Bias and spin valve systems with Fe-Mn antiferromagnetic priming layers, obtained by TVA method</i> ”, V. Kuncser, M. Valeanu, G. Scanteie, G. Filoti, I. Mustata, C. P. Lungu, A. Anghel, H. Chiriac, <b>R. Vlădoiu</b> , J. Bartolomeu, <b>J. Magnetism and Magnetic Materials</b> 320(2008) 226-230, Ed Elsevier, ISSN: 0304-8853	1,283	<b>12,830</b>	<b>16,160</b>
15	“ <i>The DC corona discharges in flowing dry and humid carbon dioxide</i> , J. D Skalny, J. Orszagh, G. Horvath, N. J. Mason, <b>R. Vlădoiu</b> , <b>J Optoelectron Adv M</b> , vol. 10, no 1 (2008) 117-123	0,577	<b>11,540</b>	<b>18,200</b>
16	“ <i>M-effect generating of two-spectral lines</i> ”, S. Pat, N. Ekem, M.Z. Balbag M.I. Cenik, <b>R. Vlădoiu</b> , G. Musa, <b>J Optoelectron Adv M</b> , vol. 10, no 1 (2008) 229-231	0,577	<b>9,61</b>	<b>15,167</b>
17	“ <i>Titanium oxidation by pulsed oxygen plasma</i> ” M. Z. Balbag, S. Pat, I. Cenik, N. Ekem, T. Akan, B. Baksana, <b>R. Vlădoiu</b> , G. Musa, <b>J Optoelectron Adv M</b> , vol. 10, no 3 (2008) 680-682	0,577	<b>7,21</b>	<b>11,375</b>
18	“ <i>Carbon thin film deposition by Thermionic Vacuum Arc(TVA)</i> ” N. Ekem, S. Pat, G. Musa, M. Z. Balbag, I. Cenik, <b>R. Vlădoiu</b> , <b>J Optoelectron Adv M</b> , vol. 10, no 3 (2008) 672-674	0,577	<b>9,61</b>	<b>15,167</b>
19	“ <i>Carbon deposition on the stainless steels substrates using pulsed plasma</i> ”, S. Pat, M. Z. Balbag I. Cenik, N. Ekem, S. Okur, <b>R. Vlădoiu</b> , G. Musa, <b>J Optoelectron Adv M</b> , vol. 10, no 3 (2008) 663-664	0,577	<b>8,24</b>	<b>13,000</b>
20	“ <i>Preliminary results on comparative study of three methods for nanocarbon films deposition: thermionic vacuum arc, magnetron sputtering and cathodic arc</i> ” <b>R. Vlădoiu</b> , V. Ciupina, A. Mandes, V. Dinca, M. Contulov, G. Prodan, G. Musa, <b>J Optoelectron Adv M</b> , vol. 10, no 3 (2008) 732-726	0,577	<b>8,24</b>	<b>13,000</b>
21	„ <i>A study of the Physical and Chemical processes Active in corona discharges Fed by Carbon Dioxide</i> ”, J. D Skalny, S Matejcik, J, Orszagh, <b>R. Vlădoiu</b> , N. J. Mason, <b>Ozone: Science &amp;Engineering</b> , Vol 30, Issue 2, March (2008), pages 145-151, Ed Taylor & Francis, ISSN: 1547-6545 (electronic) 0191-9512 (paper)	0,981	<b>19,620</b>	<b>26,280</b>
22	„ <i>Control over the sp<sup>2</sup>/sp<sup>3</sup> ratio by tuning plasma parameters of the thermionic Vacuum Arc</i> ”, C. Surdu Bob, <b>R. Vlădoiu</b> , M. Badulescu, G. Musa, <b>Diamond and Related Materials</b> , Volume 17, Issues 7-10, (2008), 1625-	2,092	<b>52,300</b>	<b>48,500</b>

	1628 Ed. Elsevier, ISSN 0925-9635			
23	"Positive and negative corona discharges in flowing carbon dioxide" J D Skalny, A Stoica, J Orszagh, <b>R. Vladoiu</b> , N J Mason, <b>J. Phys. D: Appl. Phys.</b> <b>41</b> (2008) 175211	2,104	<b>42,080</b>	<b>48,740</b>
24	"Characterization of nano-structured carbon-metal bilayers deposited by thermionic vacuum ARC (TVA) technology" <b>R. Vladoiu</b> , V.Ciupina,C. P. Lungu, O. I. Pompilian,P. Chiru, A. M. Lungu,G. Prodan, A. Mandes,G. Musa, <b>Chemicke Listy 102, (2008)</b> , s1482-s1485	0,593	<b>6,58</b>	<b>10,289</b>
25	Influence of the operational parameters on the wettability of the DLC films deposited by TVA method <b>R. Vladoiu</b> , V. Ciupina, V. Dinca, G. Musa <b>Chemicke Listy 102, (2008)</b> , s1463-s 1466	0,593	14,820	<b>23,150</b>
26	Double monochrome signal (double m-effect) in pulsed Ne-Ar-H2 mixture discharges, <b>R. Vladoiu</b> , M. Contulov, G. Musa, <b>Chemicke Listy 102, (2008)</b> , s1352-s 1355	0,593	<b>19,760</b>	<b>30,867</b>
27	„TEM investigation of the C-Me multilayer nanocomposites deposited by Thermionic Vacuum Arc (TVA) method" V. Ciupina, <b>R. Vladoiu</b> , A.Mandes, G. Musa,C. P. Lungu, <b>J Optoelectron Adv M</b> , Vol. 10, No. 11, (2008) 2958	0,577	11,540	<b>18,200</b>
28	ZnO thin film preparation using RF sputtering at various oxygen contents, N. Ekem, Ş. Kormaz, S. Pat, M. Z. Balbag, N. E. Çetin, M. Özmumcu, <b>R. Vladoiu</b> , G. Musa, <b>J Optoelectron Adv M</b> , Vol. 10, No. 12, (2008) , p. 3279 - 3282	0,577	<b>7,21</b>	<b>11,375</b>
29	"Selective emission of a two spectral lines in a.c. plasmas (M-effect)",G. Musa, C. Surdu-Bob, <b>R. Vlădoiu</b> , <b>J Optoelectron Adv M- Rapid Communication</b> , vol. 1, no 6 (2007) 305-306	0,224	<b>7,47</b>	<b>18,567</b>
30	"The M-effect, a synergetic result of three body collisional metastable/resonance radiation trapping" G. Musa, <b>R. Vlădoiu</b> , C. Surdu-Bob, A. Mandes, <b>J Optoelectron Adv. M- Rapid Communication</b> , vol. 2, no 3 (2008) 176-177	0,224	<b>5,60</b>	<b>13,925</b>
31	"Reports on the M-effect - General character and explanation of the elementary processes involved" G. Musa, <b>R.Vladoiu</b> , , M.Contulov, , V. Dinca, , <b>Romanian Reports on Physics</b> 60 (3), pp. 627-634 (2008)	0,200	<b>5,00</b>	<b>13,325</b>
32	"Spin configurations and interfacial diffusion in exchange bias and spin valve systems with Ir-Mn antiferromagnetic pinning layers", V. Kuncser, G. Schinteie, P. Palade, I. Mustata ,C. P. Lungu, N. Stefan, H. Chiriac, <b>R. Vladoiu</b> , G. Filoti, <b>Hyperfine Interact</b> , Volume 191, Issue 1-3, June 2009 p 135-141	0,209	<b>2,32</b>	<b>6,022</b>
33	"Surface energy evaluation of unhydrogenated DLC thin film deposited by thermionic vacuum arc (TVA) method" <b>R. Vladoiu</b> , V. Dinca, G. Musa <b>European Physics Journal :D</b> , vol 54, no (2009), p 433-437	1,420	<b>47,330</b>	<b>58,433</b>
34	"The double m-effect induced by noble gases activated with negative ions" <b>R. Vladoiu</b> , M. Contulov, A. Mandes, G. Musa <b>European Physics Journal :D</b> vol 54, no (2009), p 287-291	1,420	<b>35,500</b>	<b>43,825</b>
35	"Corona discharge experiments in admixtures of N <sub>2</sub> and CH <sub>4</sub> : a laboratory simulation of Titan's atmosphere" G Horvath, J D Skalny, N J Mason, M Klas, M Zahoran, <b>R Vladoiu</b> and M Manole <b>Plasma Sources Sci. Technol.</b> <b>18</b>	2,384	<b>34,050</b>	<b>38,814</b>

	034016 (7pp)no3 2009			
36	“Influence of the Outer Electrode Material on Ozone Generation in Corona Discharges” G. Horvath J. D. Skalny J. Orszagh <b>R. Vlădoiu</b> N. J. Mason <b>Plasma Chem Plasma Process</b> (2010) 30: p 43–53	2,039	<b>40,780</b>	<b>47,440</b>
37	“Multiple M-Effect Signal in Noble Gases and Hydrogen Mixture Discharge” <b>R. Vlădoiu</b> , M. Contulov, V. Ciupina, G. Musa, <b>Contrib. Plasma Phys.</b> 50, No. 2, 177 – 181 (2010)	1,529	<b>38,220</b>	<b>46,550</b>
38	“Structure and tribological properties of carbon based nanocomposites grown by TVA method“ <b>R. Vlădoiu</b> , V. Ciupina, M. Contulov, A Mandes, V. Dinca, G. Prodan, C. P. Lungu, <b>J Optoelectron Adv M</b> , Vol.12, No. 3, (2010) , p. 553-556	0,433	<b>6,18</b>	<b>10,943</b>
39	“Thermionic Vacuum Arc” – a new method of thin film deposition”, <b>R. Vlădoiu</b> , G. Musa, I Mustata, <b>J Optoelectron Adv M</b> , vol. 5, No.1,( 2003) 325-330	0,996	33,200	<b>44,300</b>
40	„Nanostructured carbon thin films deposition using Thermionic Vacuum Arc (TVA) technology”, G. Musa, I. Mustata, M. Blideran, V.Ciupina, <b>R. Vlădoiu</b> , G. Prodan, E. Vasile, <b>J Optoelectron Adv M</b> , vol. 5, No.1,( 2003) 667-673	0,996	14,229	<b>18,986</b>
41	„Diamond like nanostructured carbon film deposition using Thermionic Vacuum Arc”G. Musa, I. Mustata, V. Ciupina, <b>R. Vlădoiu</b> , G. Prodan, E. Vasile, H.Ehrich, <b>Diamond and Related Materials</b> , vol.13 (2004) 1398-1401, Ed Elsevier, ISSN 0925-9635	1,867	26,671	<b>31,429</b>
42	„Negative corona discharge in flowing N <sub>2</sub> O and its mixtures with N <sub>2</sub> and O <sub>2</sub> ” D. Galusca, D. Manole, <b>R. Vlădoiu</b> , S. Matejcek, J. D. Skalny, <b>J Optoelectron Adv M</b> , Vol 7, No 5, (2005) 2371-2378	1,138	22,760	<b>29,420</b>
43	„Thermionic Vacuum Arc (TVA) new technique for high purity carbon thin film deposition”, G. Musa, I . Mustata, M. Blideran V. Ciupina, <b>R. Vlădoiu</b> , G. Prodan, E. Vasile, H Ehrich, <b>Acta Physica Slovaca</b> ,vol 55, no 4,(2005) 417-421, ISSN 1336-040X (online) ISSN 0323-0465 (printed), Ed. Institute of Physics, Slovak Academy of Sciences	0,513	6,413	<b>10,575</b>
44	“Thermionic Vacuum Arc (TVA)- Carbon thin film deposition”,G. Musa, I. Mustata, V, Ciupina, <b>R. Vlădoiu</b> , G. Prodan, C.P. Lungu, H. Ehrich, <b>J Optoelectron Adv M</b> , vol 7, no 5 (2005) 2485-2487	1,138	16,257	<b>21,014</b>
45	“Studies on the Thermionic Vacuum Arc discharges in the vapors of Cu-Ag and Cu-Sn alloys”, T. Akan, N. Ekem, S. Pat, R. Vlădoiu, G. Musa, <b>J Optoelectron Adv M</b> , vol 7, No 5, (2005) 2489-2494	1,138	22,760	<b>29,420</b>
46	“Study on Thermionic Vacuum Arc- a novel and advanced Technology for Surface Coating“, S. Pat , N. Ekem, T. Akan, O. Kusmus, S Demirkol, <b>R. Vlădoiu</b> , C. P. Lungu, G. Musa, <b>J Optoelectron Adv M</b> , vol 7, no 5, (2005) 2495-2499	1,138	14,225	<b>18,388</b>
	“Growth and characteristics of tantalum oxide thin films deposited using thermionic vacuum arc technology” <b>R. Vlădoiu</b> , V. Ciupina, A. Mandes, V. Dinca, M. Prodan, , G. Musa <b>J. of Applied Physics</b> , <b>108</b> , (2010) p 093301 ISSN 0021-8979	2.072	41.44	<b>48.10</b>
	<b>TOTAL</b>	44,211	871.986	<b>1168.10</b>

**Lista 2 Granturi de cercetare**

<b>Nr. crt.</b>	<b>Proiecte nationale</b>	<b>Functia</b>	<b>Perioada</b>	<b>Valoarea (lei)</b>	<b>Punctaj 1p/4000 R</b>
1	Proiect CNCSIS 230/2007 Titlu „Nanostructuri pe bază de carbon obținute prin tehnologiile: Arc Termionic în Vid (TVA) și Arc Termionic în Vid in Flux de Gaz (G-TVA) – studiu calitativ comparativ” GCARBTVA	Director de proiect	2007- 2010	990.000	247.5
2	Proiect CEEEX-CERES 62/2006 Titlu: “Studiul comparativ al calitatii straturilor nanostructurate de carbon depuse prin metodele: arc termoionic in vid, arc catodic si pulverizare magnetron”	Director de proiect	2006-2008	575 000	143.75
3	Proiect MATNANTECH-CEEEX 35/10.2005 Titlu: „Structuri de spin în magnetoelectronică” SPINCOMEL	Responsabil de proiect	2005-2008	80 000	20
4	Proiect RELANSIN- CEEEX 237/2006 Titlu: “Tehnologii avansate pentru dezvoltarea straturilor antifricțiune ecologice de tip metal-carbon” TEHMEH	Responsabil de proiect	2006-2008	105.000	26.25
5	Proiect MATNANTEH- CEEEX 93/2006 Titlu: „Materiale feroelectrice micro și nanostructurate pentru memorii nevolatile” MATFEROMEM	Responsabil de proiect	2005-2008	82.000	20.5
6	Proiect CNMP 72-223/2008 Titlu: „Cercetari avansate pentru producerea acoperirilor combinatoriale de interes pentru fuziune” CAPACIF	Responsabil de proiect	2008-2010	27307	6.82
7	Proiect MATNANTECH CEEEX 106/2006 Titlu: Nanostructuri complexe generate în plasma: obtinere si caracterizare Director de proiect: Victor Ciupina, Universitatea Ovidius	Cercetator	2006-2008	690.000	-
					<b>464.8</b>

<b>Nr. crt.</b>	<b>Proiecte internationale</b>	<b>Functia</b>	<b>Perioada</b>	<b>Valoarea (Euro)</b>	<b>Punctaj 1p/1000E</b>
1	GRANT HUMBOLDT V-Fokoop – RUM/1019528 ”Synthesis of Hard Carbon Thin Films with Diamond Nanometric Structure Using the Thermionic Vacuum Arc Method ”	Cercetator	2004-2008	32 000	32

2	<b>Propunere:</b> “Control of the nanometer- sized crystalline grains embedded in amorphous carbon based matrix deposited by an original method: Thermionic Vacuum Arc (TVA)”	Director de proiect	2008-2010		
3	<b>Propunere:</b> ”Synthesis and characterization of the nanometer-sized silicon carbide thin films deposited by the original method: Thermionic Vacuum Arc (TVA)”	Director de proiect	2010-2013		
4	<b>Propunere:</b> Drinking water pollution prevention by activation of polyethylene terephthalate (PET) surface properties using low and atmospheric pressure plasma treatment	Director de proiect	2010-2013		
<b>TOTAL</b>					<b>32</b>

## Criteriul II - Activitatea didactică

### Lista 1(d) Manuale

Nr. crt.	Lucrarea	Punctajul <b>0.8p*Nr.Pag/Nr.Aut</b>
1	<i>Tehnologii cu plasma</i> <b>R. Vlădoiu</b> Ovidius University Press, Constanța, ISBN 978-973-614-390-8 (2007) 317 pagini	184.87
2.	<i>Nanostructuri de carbon generate in plasma</i> <b>R. Vlădoiu, M. Braic</b> Ovidius University Press, Constanța, ISBN 978-973-614-458-5 (2008) 221 pagini	71.6
<b>Total</b>		<b>256.47</b>

### Lista 1(e) Cursuri/seminarii/laboratoare nou introduse

Nr. crt.	Lucrarea	Punctajul <b>0.4*nr pag/Nr.Aut</b>
1.	<i>Fizica plasmei si aplicatii</i> Lucrari de laborator <b>R. Vlădoiu</b> Ovidius University Press ISBN 978-973-614-536-0 (2010 )133 pag	53.1
<b>Total</b>		<b>53.1</b>

**Lista 3(b) Cărți, monografii, capitole, etc.**

Nr. crt.	Lucrarea	Punctajul 1*Nr.Pag/(*Nr.Aut)
1	<i>“Investigation of DLC and Multilayer Coatings Hydrophobic Character for Biomedical Applications” cap 29 (7pp) , in cartea <b>Industrial Plasma Technology</b> Applications from Environmental to Energy Technologies Ed.Willey (2009) ISBN-13: 978-3-527-32544-3 - Wiley-VCH, Weinheim</i>	1x7/7=1
		1

**Lista 3(c1) Lecții invitate**

Nr. crt.	Lucrarea	Punctajul 10/Nr Aut
<b>Lucrări invitate la conferințe internaționale</b>		
1	<i>„Comments on the thin film characteristics obtained using TVA”, <b>R. Vlădoiu</b>, AvH – Workshop, 10 – 13 Dec 2006, Essen, Germania (2006)</i>	10
2	<i>“Tribological properties and characterization of the nanostructured carbon thin films deposited by Thermionic Vacuum Arc technology ”, <b>R. Vlădoiu</b>, V. Ciupina, G. Prodan, C. Surdu Bob, C.P. Lungu, J. D. Skalny, V. Bursikova, J. Bursik, G.Musa – 16-th Symposium on Applications of Plasma Processes (SAPP XV), Podbanske, 20 – 25 Ianuarie, Slovacia, (2007)</i>	1.11
3	<i>„Study of Mechanical of Metallic Surface Layers on Silicon Substrates” Jiří Dušek, Vilma Buršíková, Jaroslav Sobota, Jiří Buršík, Olga Bláhová, Petr Klapetek, <u>Rodica Vlădoiu</u>, Vladislav Navrátil, October 8 - 10, 2007 International conference Nano 07’ Brno, University of Technology, Cehia</i>	1.25
4	<i>"Structure and physical properties of nanostructured carbon deposited by Thermionic vacuum arc (TVA) method"<b>R. Vlădoiu</b> 3<sup>rd</sup> Workshop on Synthesis and Analysis of Hard Carbon Coatings using the Thermionic Vacuum Arc, 20 - 22 Iulie 2008, Trento, Italia</i>	10
5	<i>“Investigation of the carbon-based nanocomposites’ properties synthesized by Thermionic Vacuum Arc Technology” <u>R. Vlădoiu</u> 17<sup>th</sup> Symposium on Application of Plasma Processes SAPP XVII” in Liptovský Ján – Slovacia 17.– 22.01.2009</i>	10
6	<i>“Investigation of the carbon based nanocomposites obtained by two guns configuration of Thermionic Vacuum Arc (TVA) method”, <b>R. Vlădoiu</b>, V. Ciupina, M. Contulov, V. Dinca, A. Mandes, C. P. Lungu, ROCAM 2009, Brasov, Romania, August 25-28<sup>th</sup>, (2009)</i>	1.67
7	<i>“Substrate’s influence on the interface properties of the nanocarbon films deposited by Thermionic Vacuum Arc (TVA) method” <b>R. Vlădoiu</b>, V. Ciupina, M. Contulov, V. Dinca, A. Mandes G. Musa, <i>IBWAP 10</i>– Constanta, Romania, July 6-8 (2009)</i>	1.67
8	<i>“Carbon Based Nanostructures: Synthesis And Characterization” V. Ciupina, I.Morjan, R.Alexandrescu, F.Dumitrache, G.Prodan, C.P.Lungu, <b>R.Vlădoiu</b>, I.Mustata, V.Zarovschi, J.Sullivan, S Saied, E.Vasile, I.M. Oancea-Stanescu, M.Prodan, D. Manole, A. Mandes, V. Dinca, M. Contulov <i>IBWAP 10</i>– Constanta, Romania, July 6-8 (2009)</i>	0.55
9	<i>“Atmosferic pressure discharges for ozone generation and other</i>	10

	<i>applications</i> ”, <b>R. Vladoiu</b> , 3rd Workshop Physics and chemistry of the atmosphere: from laboratory experiments to field campaigns (ECOLATMO) Constanta, Romania, 10 - 16 July 2008	
10	“Complex characterization of the DLC films deposited by TVA method” <b>R. Vladoiu</b> , V. Ciupina, V. Dinca, G. Musa, <i>IBWAP9</i> –Constanta, Romania, July 7-9 (2008)	2.5
11	“Multiple Body Collisional Resonance Radiation of Electronegative-Electropositive Gas Mixtures”, G. Musa, M. Contulov, A. Mandes, <b>R. Vladoiu</b> , <i>IBWAP 9</i> – Constanta, Romania, July 7-9 (2008)	2.5
12	“General view on the physico-mechanical properties of nanostructured thin films deposited by TVA method”, <b>R. Vladoiu</b> , 2 <sup>nd</sup> Workshop on Synthesis and Analysis of Hard Carbon Coatings using the Thermionic Vacuum Arc, 8 - 9 Iulie 2007, Constanța, România	10
13	„Extension of Thermionic Vacuum Arc (TVA) Technology from Metals Processing to Gaseous Plasmas”, G. Musa, C. Surdu Bob, C.P. Lungu, V. Ciupină, <b>R. Vlădoiu</b> - The 5 <sup>th</sup> International Conference on Global Research and Education. (Inter-Academia 2006), Iași, 25-28 Sept, Romania (2006)	2
14	“Properties of the carbon thin film deposited by thermionic vacuum arc”, <b>R. Vladoiu</b> , V. Ciupina, G. Prodan, C. Surdu-Bob, C.P. Lungu, I. Mustata, J. Janik, J.D. Skalny, V. Bursikova, J. Bursik, G. Musa- <i>IBWAP</i> (2006)	0.90
	<b>TOTAL</b>	<b>64.15</b>

#### Lista 3(c2) Studii publicate in extenso în volumele unor manifestări științifice

Nr. crt.	Lucrarea	Punctajul 26/Nr.Aut.
<b>Volume ale conferințelor din străinătate indexate ISI</b>		
	<b>American Institute of Physics</b>	
1	<i>Investigation of the carbon produced by methane pulsed discharge</i> , G. Musa, N. Ekem, T. Akan, S. Pat, M.Z. Balbag, M.I. Cenik, V. Ciupina, <b>R. Vladoiu</b> , M Tanisli, O. Ozen American Institute of Physics, Volume 899, 2007, p 692	26/10 =2.6
2	<i>Emission spectra of two interacting plasmas</i> , G. Musa, C.C. Surdu-Bob, <b>R. Vladoiu</b> , N. Ekem, M.I. Cenik, S. Pat, M.Z. Balbag, T. Akan, American Institute of Physics, Volume 899, 2007, p 693	26/8 = 3.25
3	<i>Investigation of properties of boron thin film deposited by thermionic vacuum arc technology</i> N.Ekem, T. Akan, S. Pat, M.Z. Balbag, M.I. Cenik, E. Karakas, <b>R. Vladoiu</b> , G. Musa, American Institute of Physics, Volume 899, 2007, p 699	26/8 = 3.25
		<b>9.1</b>
<b>Volume ale conferințelor din străinătate neindexate</b>		
1.	”Surface charge influence on the breakdown voltage in He”, T. Akan, V. Ciupină, <b>R. Vlădoiu</b> , G. Musa, <i>Journal of Engineering and Natural Sciences</i> , vol 2, (2006) 45-49, Istanbul,ed Sigma, ISSN 1304-7191	12/4=3
2	“Investigation of carbon produced by methane pulsed discharge”, G. Musa, N. Ekem, T. Akan, M. Z Balbag, M. I. Cenik, <b>R. Vladoiu</b> , M. Ianisli, O Ozer, <i>Physica Status Solidi C</i> , Vol 4, Issue 2, Febr. 2007, 521-523, Ed Willey, Print ISSN: 1610-1634, 1862-6351	12/8=1.5
3	<b>Investigation of surface polarisation charges in He gas discharges</b> , T. Akan, V. Ciupină, <b>R. Vlădoiu</b> , G. Musa, <i>Journal of Science</i> , Afyon Kocatepe University, Vol. 7, number 1,(2007) p.81- 89, ISSN 1302-3187	12/4=3
4	„Characterization of Carbon thin film deposited by Thermionic Vacuum Arc	12/5=2.4

	(TVA) method”, <b>R. Vlădoiu</b> , V. Ciupină, I. Mustăță, C.P. Lungu, G. Musa, Romanian Journal of Physics, vol. 51, no 1-2 (2006) 197-200, ISSN 1221-146X	
		<b>9.9</b>
<b>Total</b>		<b>19</b>

**Comunicari științifice - Orale sau poster cu rezumate publicate la Conferințe, simpozioane congrese și sesiuni științifice internaționale**

<b>Nr. crt.</b>	<b>Lucrarea</b>	<b>Punctajul 5/Nr.Aut.</b>
<b>1</b>		
<b>2</b>	<i>The influence of substrate materials on the mechanical properties of the amorphous carbon thin film deposited using thermionic vacuum arc</i> , <b>R. Vlădoiu</b> , V. Ciupina, V. Bursikova, J. Bursik, G. Musa, The 5 <sup>th</sup> International Conference on Global Research and Education, Abs.II 53, 25-28 September 2006, Iasi, Romania	<b>1</b>
<b>3</b>	<i>Hydrophilic transformation of carbon films prepared by thermionic vacuum arc method</i> ”, A. M. Lungu, P. Chiru, O. Pompilian, E.Dutu, C. P. Lungu, F. Craciunoiu, M. Simion, I. Kleps, G. Prodan, <b>R. Vlădoiu</b> , V. Ciupina and G. Musa - Proceed 18th International Symposium on Plasma Chemistry (ISPC 18), Kyoto, 27-31 August, Japan, (2007)	<b>0.45</b>
<b>4</b>	<i>Tribological properties and characterization of the nanostructured carbon thin films deposited by Thermionic Vacuum Arc technology</i> ”, <b>R. Vlădoiu</b> , V. Ciupina, G. Prodan, C. Surdu Bob, C.P. Lungu, J. D. Skalny, V. Bursikova, J. Bursik, G.Musa – 16-th Symposium on Applications of Plasma Processes (SAPP XV), Podbanske, 20 – 25 Ianuarie, Slovacia, (2007)	<b>0.55</b>
<b>5</b>	<i>Influence of the geometrical parameters on the thickness of carbon thin films deposited by thermionic vacuum arc (TVA) technology</i> ”, G. Musa, <b>R.Vlădoiu</b> , A. Mandes, V. Dinca, S. Pat, N. Ekem - Proceed. of the XXVIII-th Int. Conf. on Phenomena in Ionized Gases- ICPIG XXVIII, Prague, (2007)	<b>0.83</b>
<b>6</b>	<i>Preliminary Results on Comparative Study of Three Methods for Nanocarbon Films Deposition: Thermionic Vacuum Arc, Magnetron Sputtering and Cathodic Arc</i> ”, <b>R.Vlădoiu</b> , M.Braic, A.Ioachim, C.Ducu, V.Ciupina, A.Mandes, V.Dinca, G.Pirpiliu, G.Prodan, G.Musa - 8th International Balkan Workshop on Applied Physics, 5-7.07.2007, Ovidius University, Constanta, Romania lt, Belgium, February 28 – March 2, 2007	<b>0.5</b>
<b>7</b>	<i>Preparation and Characterization of Nanostructured Carbon Based Thin Films Deposited by Cathodic Vacuum Arc Method</i> ”, Catalin Nicolae ZOITA , Viorel BRAIC, Adrian KISS, Mihai BALACEANU, Mariana BRAIC, Ileana Cristina VASILIU, <b>Rodica Vlădoiu</b> , Geavit MUSA - 8th International Balkan Workshop on Applied Physics, 5-7.07.2007, Ovidius University, Constanta, Romania	<b>0.625</b>
<b>8</b>	<i>“Deposition of nanocrystalline diamond films from gas precursors using a novel arc plasma method”</i> , C. Surdu-Bob, C.P. Lungu, <b>R. Vlădoiu</b> , L. Calliari - Hasselt Diamond Workshop 2007 – SBDD XII Diepenbeek – Hasse	<b>1.25</b>
<b>9</b>	<i>Control over the <math>sp^2/sp^3</math> ratio by tuning plasma parameters of the Thermionic Vacuum Arc</i> ”, C.Surdu-Bob, <b>R.Vlădoiu</b> , M.Badulescu, G.Musa - Diamond 2007, Berlin, 9-14 Septembrie, Austria, (2007)	<b>1.25</b>
<b>10</b>	<i>Influence of the geometrical parameters for carbon thin film quality in three methods: TVA, Magnetron Sputtering and Cathodic Arc ~ comparative view ~“</i> , <b>R. Vlădoiu</b> , M. Braic, V. Ciupină, A. Mandes, V. Dincă, M. Conțulov, G. Musa - 2 <sup>nd</sup> Workshop on Synthesis and Analysis of Hard Carbon Coatings using the Thermionic Vacuum Arc, 8 - 9 Iulie 2007, Constanta, România	<b>0.71</b>
<b>11</b>	<i>Characteristics of the carbon thin films obtained by TVA</i> ”, M.Z. Balbag, S. Pat, I.Cenik, N. Ekem, R.Vlădoiu, G. Musa - 2 <sup>nd</sup> Workshop on Synthesis and	<b>0.83</b>

	Analysis of Hard Carbon Coatings using the Thermionic Vacuum Arc, 8 - 9 Iulie 2007, Constanța, România	
12	<i>Transmission Electron Microscopy Analysis of the DLC obtained by TVA method</i> ", G. Musa, <b>R. Vladoiu</b> , V. Ciupina, G. Prodan, A. Stoica, G. Pirpiliu, I. M.Oancea, V. Bursikova - 2 <sup>nd</sup> Workshop on Synthesis and Analysis of Hard Carbon Coatings using the Thermionic Vacuum Arc, 8 - 9 Iulie 2007, Constanța, România	0.625
13	<i>Structure and properties of carbon thin films deposited using Thermionic Vacuum Arc (TVA) method</i> ", <b>R. Vladoiu</b> , G. Musa, V. Ciupina, V. Buršíková - Proceed 18th International Symposium on Plasma Chemistry (ISPC 18), Kyoto, 27-31 August, Japan, (2007)	1.25
14	<i>The Double M-effect Induced by Noble Gases Activated with Negative Ions</i> , <b>R. Vladoiu</b> , M. Contulov, A. Mandes, G. Musa - 23 <sup>rd</sup> Symposium on Plasma Physics and Technology Praga, Cehia June 16 – 19, 2008	1.25
15	<i>Surface modification of different materials by plasma treatment in DBD at atmospheric pressure</i> , <b>R. Vladoiu</b> , V. Dinca, R. Leonte, G. Musa – Physics and chemistry of the atmosphere: from laboratory experiments to field campaigns, ECOLATMO, Constanta, Romania, 10.07-16.07.2008	1.25
16	<i>Determination of the surface free energy of the dlc deposited by thermionic vacuum arc (tva) method</i> ", G. Musa, <b>R. Vladoiu</b> , V. Dinca, V. Ciupina - International Conference on Fundamental and Applied Research in Physics–FARPhys- Iași - 25-27 Octombrie (2007)	1.25
17	<i>Raman spectroscopy of the dlc nanostructured films deposited by tva method on different substrates</i> ", <b>R. Vladoiu</b> , A. Mandes, A. Costache, J. Janik, G. Musa - International Conference on Fundamental and Applied Research in Physics–FARPhys- Iași - 25-27 Octombrie (2007)	1
18	<i>"Nanostructured carbon-metal film deposition by thermionic vacuum arc method</i> ", C.P. Lungu, O. Brinza, I. Mustata, A.M. Lungu, C. Surdu-Bob, V. Zaroschi, <b>R. Vladoiu</b> , V. Ciupina, G. Prodan, C. Logofatu, C. Negrila, M. Lazarescu - Hasselt Diamond Workshop 2007 – SBDD XII Diepenbeek – Hasselt, Belgium, February 28 – March2, 2007	0.41
19	<i>Surface Energy Evaluation of Unhydrogenated DLC Thin Film Deposited by Thermionic Vacuum Arc (TVA) Method</i> , <b>R. Vladoiu</b> , V. Dinca, G. Musa - 23 <sup>rd</sup> Symposium on Plasma Physics and Technology Praga, Cehia June 16 – 19, 2008	1.66
20	<i>Comparative study of DLC films deposited by Thermoionic Vacuum Arc and Magnetron Sputtering methods</i> , R. Vladoiu, A. Mandes, V. Dinca, M. Contulov, G.Musa, C.E.A. Grigorescu, V.Braic, I.C. Vasiliu, M.Braic – EMRS – Strassburg, May 26-30,2008	0.55
21	<i>Influence of the operational parameters on the wettability of the DLC films deposited by TVA method</i> , <b>R. Vladoiu</b> , V. Ciupina, V. Dinca, G. Musa - II CESPC, August 31 - September 4, 2008, Brno, Czech Republic	1.25
22	<i>Double monochrome signal (double M-Effect) in pulsed Ne-Ar-H<sub>2</sub> mixture discharges</i> , <b>R. Vladoiu</b> , M. Contulov, G. Musa - II CESPC, August 31 - September 4, 2008, Brno, Czech Republic	1.66
23	<i>TEM investigation of the C-Me multilayer nanocomposites deposited by thermionic vacuum arc (TVA) method</i> , V. Ciupina, <b>R. Vladoiu</b> , A. Mandes, G. Musa, C. P. Lungu – IBWAP 2008, Constanta, Romania, July 7-9 2008	1
24	<i>Investigation of DLC hydrofobic character for biomedical applications</i> , <b>R. Vladoiu</b> , A. Mandes, V. Ciupina, G. Musa – The 3 <sup>rd</sup> international school of advanced plasma technology, Varenna, Italy, 27.07-31.07.2008	1
25	<i>Surface characterization of the carbon thin films deposited by two different methods: TVA amd magnetron sputtering</i> , <b>R. Vladoiu</b> , M. Braic, V. Braic, V. Dinca, M. Contulov, M. Muresan, S.B. Rusu, A. Nastuta, G. Musa - IBWAP 2008, Constanta, Romania, July 7-9 2008	0.55
26	<i>ZnO thin film production using RF Sputter at the various oxygen contents</i> , N.	0.71

	Ekem, S. Pat, Z. Balbag, E. Cetin, M. Ozmumcu, <b>R. Vladoiu</b> , G. Musa - IBWAP 2008, Constanta, Romania, July 7-9 2008	
27	<i>ZrO<sub>2</sub> Thin film production using Thermionic Vacuum Arc (TVA) for ophthalmic glass coatings</i> , N. Ekem, S. Korkmaz, S. Pat, Z. Balbag, <b>R. Vladoiu</b> , G. Musa - IBWAP 2008, Constanta, Romania, July 7-9 2008	<b>0.83</b>
28	<i>M-effect as a tool for leak – detection</i> , R. Vladoiu, M. Contulov, A. Mandes, G. Musa– Physics and chemistry of the atmosphere: from laboratory experiments to field campaigns, ECOLATMO, Constanta, Romania, 10.07-16.07.2008	<b>1.25</b>
29	<i>Influence of the operational parameters on the M-effect in different types of mixtures</i> ”, <b>Rodica Vlădoiu</b> , Mirela Conțulov, Virginia Dincă, Geavit Musa, CNF 2008, 10 -13.09.2008, Magurele, Bucuresti.	<b>1.25</b>
30	<i>“Spectroscopic analysis on the carbon nanostructured thin films deposited by Thermionic Vacuum Arc (TVA) method”</i> , <b>R. Vladoiu</b> , V. Ciupina, A. Mandes, C. Surdu-Bob, S. Saied, J. Sullivan, G. Musa, CNF 2008, 10 - 13.09.2008, Magurele, Bucuresti.	<b>0.83</b>
31	<i>Multiple M-effect signal in noble gases and hydrogen mixture discharge</i> , <b>R. Vladoiu</b> , M. Contulov, V. Ciupina and G. Musa - The 3 <sup>rd</sup> international school of advanced plasma technology, Varenna, Italy, 27.07-31.07.2008	<b>1.25</b>
32	<i>Surface properties of the multilayer coatings based on carbon deposited by TVA method</i> , <b>R. Vladoiu</b> , C.P. Lungu, V. Dinca, G. Musa - The 3 <sup>rd</sup> international school of advanced plasma technology, Varenna, Italy, 27.07-31.07.2008	<b>1.25</b>
33	<i>Study on M-effect in two noble gases mixtures at the addition of one electronegative gas (H<sub>2</sub>)</i> , M. Contulov, <b>R. Vladoiu</b> , G. Musa - BPU 2 <sup>nd</sup> international physics projects competition for university students, Bodrum, Turkey, 18-20.08.2008	<b>1.66</b>
34	<i>Wetability analyses of materials treated by diffuse coplanar surface barrier discharge (DCSDBD)</i> , V. Dinca, <b>R. Vladoiu</b> , V. Ciupina - BPU 2 <sup>nd</sup> international physics projects competition for university students, Bodrum, Turkey, 18-20.08.2008	<b>1.66</b>
35	<i>Characterization of nanostructured carbon-metal bilayers deposited by Thermionic Vacuum Arc (TVA) technology</i> , <b>R. Vladoiu</b> , V. Ciupina, C. P. Lungu, O.I. Pompilian, P. Chiru, A. M. Lungu, G. Prodan, A. Mandes, G. Musa - II CESPC, August 31 - September 4, 2008, Brno, Czech Republic	<b>0.5</b>
36	<i>„Investigation of the Carbon-Based Nanocomposites’ Properties Synthesized by Thermionic Vacuum Arc Technology”</i> , R. Vladoiu – 17 <sup>th</sup> Symposium on Application of Plasma Processes (SAPP), 17 – 22 January 2009, Liptovsky Jan, Slovakia	<b>1</b>
37	<i>„Substrate’s influence on the interface properties of the nanocarbon films deposited by Thermionic Vacuum Arc (TVA) method”</i> , R. Vladoiu, V. Ciupina, M. Contulov, V. Dinca, A. Mandes, G. Musa – 10 <sup>th</sup> International balkan workshop on applied physics, July 6 - 8 2009, Constanta, Romania	<b>0.83</b>
38	<i>„Investigation of the carbon based nanocomposites obtained by two guns configuration of Thermionic Vacuum Arc (TVA) method”</i> , R. Vladoiu, V. Ciupina, M. Contulov, V. Dinca, A. Mandes, C.P. Lungu – Romanian Conference on Advanced Materials: ROCAM 2009, Brasov, Romania, 25 - 28 August 2009	<b>0.83</b>
39	<i>„Morphological and Structural Characterization of the C-W Nanocomposites”</i> , R. Vladoiu, V. Ciupina, A. Mandes, M. Contulov, V. Dinca, C. Porsnicu, C. P. Lungu, 17th Symposium on Application of Plasma Processes - SAPP, 17 - 22.01.2009, Liptovsky Jan, Slovakia	<b>0.71</b>
40	<i>„Characterization of nanocomposites carbon based obtained by two guns configuration of Thermionic Vacuum Arc method (TVA)”</i> , R. Vladoiu, V. Ciupina, M. Contulov, C. P. Lungu, G. Musa, Nanotech Insight 2009, Barcelona, Spain, 29 March - 2 April 2009	<b>1</b>

41	„TEM characterization of carbon-tungsten thin films deposited by Thermionic Vacuum Arc (TVA) technology”, V. Ciupina, R. Vladoiu, G. Prodan, A. Mandes, C. P. Lungu, Nanotech Insight 2009, Barcelona, Spain, 29 March - 2 April 2009	1
42	„Structure and tribological properties of carbon based nanocomposites grown by TVA method”, R. Vladoiu, V. Ciupina, M. Contulov, A. Mandes, V. Dinca, G. Prodan, C. P. Lungu, EMRS Strassburg, June 8 - 12, 2009	0.71
43	„Control of the nanometer – sized crystalline grains embedded in amorphous carbon based matrix as thin films obtained by Thermionic Vacuum Arc (TVA)”, R. Vladoiu, V. Ciupina, A. Mandes EMRS – Strassburg, June 8 - 12, 2009	1.66
	<b>TOTAL</b>	<b>39.46</b>

#### Brevete de invenție: 29.09

1. *Dispozitiv de obtinere a unei densități stationare de vapori din materiale cu punct de topire ridicat*, R. Vladoiu, V. Ciupina, G. musa, C.P. Lungu, V. Zaroschi A 00648 / 20.08.2009 100p/5 =20 p
2. *Metoda pentru producerea filmelor compozite din carbon-wolfram cu arc termoionice in vid* C. P. Lungu, C. Porosnicu, I. Jepu, C. Ticos, A. Marcu, I. Mustata, V. Zaroschi, V. Tiron, G. Popa, R. Vladoiu, V. Ciupina A/00912 din 28.09.2010 100p/11 =9.09

#### Criteriul 4 – Prestigiul personal

- Citări: Cele 46 articole ISI sunt citate de 103 ori. Numărul de citări fără autocitări este de 45.
- Indicele Hirsch: 6.
- **Afilierea la structuri profesional-științifice**
  - membru CNCSIS din decembrie 2006;
  - Membră a Consiliului National CEEPUS II numita prin OMEdC nr.3803 din 5 04. 2005 pe o perioada de un an
- **Afilierea la organizații profesionale**
  - Societatea Română de Fizică - din 01/2008
  - Societatea Europeană de Fizică - EPS - din 01/2002
- **Calitatea de referent**
  - Referent pentru Surface and Coating Materials in 2008, 2009
  - Referent pentru Chemical Engineering Science in 2008
  - Referent pentru J Optoelectronics and Advanced Materials în 2006
  - Guest editor pentru Plasma Sources and Science Technology 2005
- **Calitatea de evaluator**
  - Evaluator pentru CNCSIS din anul 2008 (15 proiecte evaluate in 2009 si 10 in 2010)
  - Evaluator pentru Czech Science Foundation in 2009
  - Evaluator al programului CEEPUS II anul 2005
- **Membră în Comitetul științific la conferința internațională**
  - II CESPC Central European Symposium on Plasma Chemistry 2008, Brno, Czech Republic, August 31 – September 4, 2008
- **Membră în Comitetul de organizare la :**
  - 17- *European Scientific Conference on Atomic & Molecular Physics of Ionized Gases (ESCAMPIG 17)*, Constanta, 1-5 Septembrie, Romania, 2004
  - *3rd Workshop ECOLATMO "Physics and chemistry of the atmosphere: from laboratory experiments to field campaigns"* in Constanta, Romania, 10 -16 Iulie 2008.
  - A IX-a Conferință de Fizica Plasmei și Aplicații “*The IX –th Conf. On Plasma Phys. and Appl.*”, Bucharest –Constanța, 27-30 Iunie, 16 (1996)

- Școala de primăvară de Fizica plasmelor “Spring School on Plasma Laser Spectroscopy”, 7 – 9 aprilie 2000 Ovidius University Constanta, Partial financial support prin PHARE-TTQM program Contract numar RO 9602-02-02-L008
  - A XI-a Conferință de Fizica Plasmei și Aplicații - *The XI –th Conf. On Plasma Phys. and Appl.* , Constanța, 6-8 sept., 1 (2001)
  - *International Balkan Workshop on Applied Physics*
    - 4-TH IBWAP 2003 – Constanta, 25-27 Septembrie, Romania, 2003
    - 5-TH IBWAP 2004, Constanta, 5-7 Iulie , Romania 2004
    - 6-TH IBWAP 2005 – Constanta, 5-7 iulie , Romania, 2005
    - 7-TH IBWAP 2006 – Constanta, 5-7 iulie , Romania, 2006
    - 8-TH IBWAP 2007 – Constanta, 5-7 iulie , Romania, 2007
    - 9-TH IBWAP 2008 – Constanta, 7-9 iulie , Romania, 2008
    - 10-TH IBWAP 2009 – Constanta, 6-8 iulie , Romania, 2009
    - 11-TH IBWAP 2008 – Constanta, 7-9 iulie , Romania, 2010
- **STAGII de specializare 2x 5 p = 10 p**
- Univ “Ionenphysics” Innsbruck, Austria, 2009 (1 luna),
  - Comenius University, Bratislava, Slovacia, 2009 (1 luna),
  - Universitatea “Masharyk” Brno, Cehia 2006 (1 luna)
  - Universitatea “Charles” Praga, Cehia 2007 (1 luna)
  - Universitatea “Aston”, Birmingham, Anglia 2008 (1 luna)
- **Colaborări (pot da referințe):**
- Professor Roman Schittwiesser, Univ “Ionenphysics”, Innsbruck, Austria
  - Professor Milan Tichy , Universitatea “Charles” Praga, Cehia
  - Professor Styefan Matejcek, Comenius University, Bratislava, Slovacia
  - Professor Mirko Cernak, Universitatea “Masharyk” Brno, Cehia
  - Professor Volker Buck, Universitatea Dortmund, Germania
  - Cercetator Principal Lucia Calliari, ITC- Institut, Trento-Italia

**Lista 4(c). Lista cu lucrari citate (45 citari) 5p/nr autori TOTAL 25.04**

**I. Lucrarea:**

**V. Kuncser, M. Valeanu, G. Scanteie, G. Filoti, I. Mustata, C. P. Lungu, A. Anghel, H. Chiriac, R. Vladoiu, J. Bartolomeu** Exchange bias and spin valve systems with Fe-Mn antiferromagnetic pinning layers, obtained by the thermo-ionic vacuum arc method *Journal of Magnetism and Magnetic Materials* 320, (2008) p14 e 226 este citata în

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. si anul.	q <sub>i</sub> =
1.	<b>Xu MH, Zhong W, Yu JY et al</b> , Exchange-Bias-like Behavior from Disordered Surface Spins in Li4Mn5O12 Nanosticks <i>JOURNAL OF PHYSICAL CHEMISTRY C</i> , Vol: 114, No.39 pp:16143-16147 (2010)	4.224
2.	<b>Hu, Y., Du, A.</b> “Cooling-field dependence of exchange bias and asymmetric reversal modes in a nanoparticles system with ferromagnetic core and antiferromagnetic matrix morphology” <i>Physica Status Solidi (B) Basic Research</i> Volume 246, Issue 10, October, Pages 2384-2391 (2009)	1.170
3.	<b>V. Kuncser, W. Keunea, U. Von hörstena, G. Schinteie</b> Interlayer magnetic coupling in exchange bias and spin valve structures with Fe-Mn and Ir-Mn antiferromagnetic layers, <i>Journal of Optoelectronics and Advanced Materials</i> Vol. 12, No. 6, (2010), p. 1385 - 1393	0.433
4.	<b>V. Kuncser, W. Keune, U. von Hörsten, G. Schinteie, N. Stefan, P. Palade G. Filoti</b> Interfacial atomic diffusion in AF/Fe/Cu/Fe (AF = Fe50Mn 50 and Ir50Mn50) multilayer systems, <i>Thin Solid Films</i> 518 (21), pp. 5981-5985 (2010)	1.727
<b>TOTAL</b>		<b>4x 5p/10=2</b>

**II. Lucrarea:**

N. Ekem, Ş. Kormaz, S. Pat, M. Z. Balbag, N. E. Çetin, M. Özmumcu, **R. Vladoiu**, G. Musa ZnO thin film preparation using RF sputtering at various oxygen contents, , J Optoelectron Adv M, Vol. 10, No. 12, (2008) , p. 3279 - 3282 *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei în care se citeaza, vol., nr., pag. si anul.	$q_i$ = factorul de impact al revistei în care se citeaza
1.	Ekem, N., Korkmaz, S., Pat, S. Balbag, M. Z., Cetin, E. N., Ozmumcu M “Some physical properties of ZnO thin films prepared by RF sputtering technique” <b>International Journal of hydrogen energy</b> 34 (12) p 5218-5222 (2009)	3.452
<b>TOTAL</b>		1x5/8=0.625

### III. Lucrarea:

J D Skalny, A Stoica, J Orszagh, **R Vladoiu** , N J Mason ”Positive and negative corona discharges inflowing carbon dioxide” *J. Phys. D: Appl. Phys.* 41 175211(2008) *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei în care se citeaza, vol., nr., pag. si anul.	$q_i$ = factorul de impact al revistei în care se citeaza
1.	Yanallah, K, Pontiga, F., Fernandez-Rueda, A., Castellanos, A. “Experimental investigation and numerical modelling of positive corona discharge: Ozone generation” <b>Journal of Physics D: Applied Physics</b> 42 (6), art. no. 065202 (2009)	2.200
<b>TOTAL</b>		1x5/5=1

### IV. Lucrarea:

C. Surdu Bob, **R. Vladoiu**, M. Badulescu, G. Musa „Control over the  $sp^2/sp^3$  ratio by tuning plasma parameters of the thermionic Vacuum Arc”, , Diamond and Related Materials, Volume 17, Issues 7-10, 1625-1628 (2008), *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei în care se citeaza, vol., nr., pag. si anul.	$q_i$ = factorul de impact al revistei în care se citeaza
1.	Surdu Bob, C.C., Lungu, C.P., Mustata, I., Frunza, L. “Re-Cr-Ni high-temperature resistant coatings on Cu substrates prepared by thermionic vacuum arc (TVA) method” <b>Journal of Physics D: Applied Physics</b> 41 (13), art. no. 132001(2008)	2.200
2.	B. Segura-Giraldo, E. Restrepo-Parra P.J. Arango-Arango “On the influence of a TiN interlayer on DLC coatings produced by pulsed vacuum arc discharge: Compositional and morphological study” <i>Applied Surface Science</i> 256 (1), pp. 136-141	1.576
3.	Pang, X., Shi, L., Wang, P., Xia, Y., Liua, W. “Influence of methane flow on the microstructure and properties of TiAl-doped a-C :H films deposited by middle frequency reactive magnetron sputtering” <i>Surface and Interface Analysis</i> Volume 41, Issue 12-13, December 2009, Pages 924-930	1,272
4.	C.C. Surdu-Bob, M. Badulescu, C. Iacob, C. Porosnicu, C.P. Lungu, Ion energy distribution analysis of the TVA plasma ignited in carbon vapours using RFA <i>Journal of Physics: Conference Series</i> Volume 207, 2010, Article number 012018	0.200
5.	M Badulescu, I Gruia, V Micheli, et al. Diamond film nano-abrasives obtained by anodic arc <i>Optoelectronics And Advanced Materials-Rapid Communications</i> Volume: 3 Issue: 11 (2009) Pages: 1207-1209	0.451

6.	<b>M Badulescu, I Gruia, C Surdu-Bob, et al</b> Retarding field ion energy analysis of an anodic arc carbon plasma <i>Optoelectronics And Advanced Materials-Rapid Communications</i> Volume: 3 Issue: 12 (2009) Pages: 1269-1272	0.451
	<b>TOTAL</b>	6x5/4=6.5

#### V. Lucrarea:

J. D Skalny, S Matejcik, J, Orszagh, R. Vlădoiu, N. J. Mason „A study of the Physical and Chemical processes Active in Ozone Generation by Carbon Dioxide Fed Corona discharges”, , Ozone: Science &Engineering, Vol 29, Issue 5, September, 2007,pages 399-404 (2007), *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. si anul.	$q_i$ = factorul de impact al revistei in care se citeaza
1.	<b>Skalny, J.D., Orszagh, J., Matejcik, S., Mason, N.J, Rees, J.A., Aranda-Gonzalvo, Y., Whitmore, T.D.</b> “A mass spectrometric study of ions extracted from point to plane DC corona discharge fed by carbon dioxide at atmospheric pressure” <i>International Journal of Mass Spectrometry</i> 277 (1-3), pp. 210-214 (2008)	2.411
	<b>TOTAL</b>	1x5/5= 1

#### VI. Lucrarea:

T. Akan, N. Ekem, S. Pat, U.G. Issever, M.Z. Balbag, M.I. Cenik, R. Vlădoiu, G. Musa, “Boron thin film deposition by using thermionic vacuum arc (TVA) technology”, Mater Lett, vol. 61, Issue 1 23-26 (2007), *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. si anul.	$q_i$ = factorul de impact al revistei in care se citeaza
1.	<b>Okur, S., Kalkanci, M., Pat, S., Ekem, N., Akan, T., Balbag, Z., Musa, G., Tanoglu, M.</b> “MgB2 superconducting thin films sequentially fabricated using DC magnetron sputtering and thermionic vacuum arc method ” <i>Physica C: Superconductivity and its Applications</i> 466 (1-2), pp. 205-208 (2007)	1.079
2.	<b>M. Z. Balbag, S. Pat, M. Ozkan, N. Ekem, G. Musa</b> “Thermionic vacuum arc (TVA) technique for magnesium thin film deposition” <i>Physica B: Condensed Matter</i> 405, Issue 16, pp. 3276-3278 (2010)	1,056
	<b>TOTAL</b>	2x5/8= 1.25

#### VII. Lucrarea:

**G. Musa, R. Vlădoiu, V. Ciupina, J. Janik** “Raman spectra of carbon thin films”, J Optoelectron Adv M, vol 8, no 2 621-624 (2006) *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. si anul.	$q_i$ =
1.	<b>Surdu-Bob, C., Mustata, I, Iacob, C..</b> “General characteristics of the Thermoionic Vacuum Arc plasma” <i>Journal of Optoelectronics and Advanced Materials</i> 9 (9), pp. 2932-2934 (2007)	0.827
2.	<b>Sivanesan, A., S.A John.</b> Adsorption thermodynamics and kinetics study for the self-assembly of 1,8,15,22-tetraaminophthalocyanatocobalt(II) on glassy carbon surface <i>Electrochimica Acta</i> Volume 54, Issue 28, pp7458-7463 (2009)	3.078

3.	<b>Akhtar, S. M. J, Ilyas, B.,Ashraf, M., Mahmood, Waris M</b> ”Pulsed laser deposition and characterization of diamond like carbon (DLC) films on germanium, silicon and glass substrates” <b>Optoelectronics and Advanced Materials - Rapid Communications 3 (3) pp 276-281 (2009)</b>	0,224
	<b>TOTAL</b>	<b>3x5/4=3.75</b>

**VIII. Lucrarea:**

**G. Musa, R.Vlădoiu, V. Ciupina, C. P. Lungu, I. Mustata, S. Pat, T. Akan, N. Ekem** “*Characteristics of boron thin films obtained by TVA technology*”, **J Optoelectron Adv M** , vol 8, no2, 617-621 (2006) *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. si anul.	$q_i$ = factorul de impact al revistei in care se citeaza
1.	<b>Surdu-Bob, C., Mustata, I, Iacob, C..</b> “General characteristics of the Thermoionic Vacuum Arc plasma” <i>Journal of Optoelectronics and Advanced Materials 9 (9), pp. 2932-2934 (2007)</i>	0.827
2.	<b>Akan, T., Demirkol, S., Ekem, N., Pat, S., Musa, G.”</b> Study of metal and ceramic thermionic vacuum arc discharges” <i>Plasma Science and Technology 9 (3), pp. 280-283 (2007)</i>	0.317
3.	<b>Balbag, M.Z., Pat, S., Cenik, M.I., Akan, T., Ekem, N., Musa, G.</b> Boron evaporation and related difficulties” <i>Journal of Optoelectronics and Advanced Materials 9 (4), pp. 858-861 (2007)</i>	0.827
	<b>TOTAL</b>	<b>3x5/8=1.875</b>

**IX. Lucrarea:**

**R. Vlădoiu, V. Ciupina, C. P. Lungu, V. Bursikova, G. Musa .** “*Thermoionic vacuum arc (TVA) deposited tungsten thin film characterization*”, **J Optoelectron Adv M** , vol 8, no 1, 71-74 (2006), *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. si anul.	$q_i$ = factorul de impact al revistei in care se citeaza
1.	<b>Surdu-Bob, C., Mustata, I, Iacob, C..</b> “General characteristics of the Thermoionic Vacuum Arc plasma” <i>Journal of Optoelectronics and Advanced Materials 9 (9), pp. 2932-2934 (2007)</i>	0.827
2.	<b>Oancea-Stanescu IM, Ciupina V, Prodan G, Prodan M, Caraiane A, Dulgheru N, Jepu I, Lungu C.P.</b> “Transmission electron microscopy analysis and electrical measurements of carbon thin films” <i>Journal of Optoelectronics and Advanced Materials 12 (4), pp. 824-828 (2010)</i>	0.433
	<b>TOTAL</b>	<b>2x5/5=2</b>

**X. Lucrarea:**

**C. P. Lungu, I. Mustata, G. Musa, A. M. Lungu, O. Brinza, C. Moldovan, C. Rotaru, R. Iosub, F. Sava, M. Popescu, R. Vlădoiu, V. Ciupina, G. Prodan, N. Apetroaei** “*Unstressed carbon-metal films deposited by thermionic vacuum arc method*” **J Optoelectron Adv M** , vol 8, no 1, 74-78 (2006) *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. si anul.	$q_i$ = factorul de impact al revistei in care se citeaza

1.	<b>Surdu-Bob, C., Mustata, I, Iacob, C..</b> “General characteristics of the Thermoionic Vacuum Arc plasma” <i>Journal of Optoelectronics and Advanced Materials</i> 9 (9), pp. 2932-2934 (2007)	0.827
2.	<b>Ionescu V., Lungu, C. P., Osiac, M., Ciupina V</b> “Silver containing carbon amorphous nanocomposite films deposited by Termionic Vacuum Arc technique” <i>Romanian Journal of Physics</i> 55 (1-2) pp. 119-126 (2010)	0.200
<b>TOTAL</b>		2x5/14= <b>0.71</b>

**XI. Lucrarea:**

T. Akan, N. Ekem, S. Pat, R. Vlădoiu, G. Musa “*Studies on the Thermionic Vacuum Arc discharges in the vapors of Cu-Ag and Cu-Sn alloys*”, , J Optoelectron Adv M, vol 7, No 5, 2489-2494 (2005) *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. si anul.	$q_i$ = factorul de impact al revistei in care se citeaza
1.	<b>Surdu-Bob, C., Mustata, I, Iacob, C..</b> “General characteristics of the Thermoionic Vacuum Arc plasma” <i>Journal of Optoelectronics and Advanced Materials</i> 9 (9), pp. 2932-2934 (2007)	0.827
2.	<b>Akan, T., Demirkol, S., Ekem, N., Pat, S., Musa, G.</b> ” Study of metal and ceramic thermionic vacuum arc discharges” <i>Plasma Science and Technology</i> 9 (3), pp. 280-283 (2007)	0.317
<b>TOTAL</b>		2x5/5=2

**XII. Lucrarea:**

S. Pat , N. Ekem, T. Akan, O. Kusmus, S Demirkol, **R. Vlădoiu**, C. P. Lungu, G. Musa “*Study on Thermionic Vacuum Arc- a novel and advanced Technology for Surface Coating*”, , J Optoelectron Adv M, vol 7, no 5, 2495-2499 (2005) *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. Si anul.	$Q_i$ = factorul de impact al revistei in care se citeaza
1.	<b>Surdu-Bob, C., Mustata, I, Iacob, C..</b> “General characteristics of the Thermoionic Vacuum Arc plasma” <i>Journal of Optoelectronics and Advanced Materials</i> 9 (9), pp. 2932-2934 (2007)	0.827
2.	<b>Akan, T., Demirkol, S., Ekem, N., Pat, S., Musa, G.</b> ” Study of metal and ceramic thermionic vacuum arc discharges” <i>Plasma Science and Technology</i> 9 (3), pp. 280-283 (2007)	0.317
<b>TOTAL</b>		2x5/8=1.25

**XIII. Lucrarea:**

G. Musa, I. Mustata, V. Ciupina, **R. Vlădoiu**, G. Prodan, E. Vasile, H.Ehrich „*Diamond like nanostructured carbon film deposition using Thermionic Vacuum Arc*”, Diamond and Related Materials, vol.13 1398-1401, (2004) *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. Si anul.	$Q_i$ = factorul de impact al revistei in care se citeaza
1.	<b>Rashid, A., Landström, L., Ottosson, M., Piglmayer, K</b> “Photothermal CVD of carbon thin films using CH <sub>2</sub> i <sub>2</sub> as the precursor” <i>Chemical Vapor Deposition</i> 14 (9-10), pp. 279-285 (2008)	1.936

2.	<b>Cavalcanti, A., Shirinzadeh, B., Kretly, L.C.</b> Medical nanorobotics for diabetes control <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> 4 (2), pp. 127-138, 2008	2.818
3.	<b>Surdu-Bob, C., Mustata, I, Iacob, C..</b> “General characteristics of the Thermoionic Vacuum Arc plasma ” <i>Journal of Optoelectronics and Advanced Materials</i> 9 (9), pp. 2932-2934 (2007)	0.827
4.	<b>Akan, T., Demirkol, S., Ekem, N., Pat, S., Musa, G.”</b> Study of metal and ceramic thermionic vacuum arc discharges” <i>Plasma Science and Technology</i> 9 (3), pp. 280-283 (2007)	0.317
5.	<b>Balbag, M.Z., Pat, S., Cenik, M.I., Akan, T., Ekem, N., Musa, G.</b> Boron evaporation and related difficulties” <i>Journal of Optoelectronics and Advanced Materials</i> 9 (4), pp. 858-861 (2007)	0.827
6.	<b>M Prodan I Stanescu , V Ciupina , D Gheorghiu , , C Stanca , Eugeniu V , G Prodan</b> “ Nanostructured thin films for prosthetic dentistry applications” ROMANIAN BIOTECHNOLOGICAL LETTERS <b>Volume: 15 Issue: 3</b> Special Issue: Sp. Iss. SI Suppl. S Pp: 109-116 (2010)	0,152
7.	<b>M. Z. Balbag, S. Pat, M. Ozkan, N. Ekem, G. Musa</b> “Thermionic vacuum arc (TVA) technique for magnesium thin film deposition” <i>Physica B: Condensed Matter</i> 405, Issue 16, pp. 3276-3278 (2010)	1,056
	<b>TOTAL</b>	7x5/7=5

**XIV. Lucrarea:**

**R. Vlădoiu, G. Musa, I Mustata,**” *Thermionic Vacuum Arc*” – a new method of thin film deposition”, J Optoelectron Adv M, vol. 5, No.1325-330 ,( 2003) *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. si anul.	$q_i$ = factorul de impact al revistei in care se citeaza
1.	<b>Balbag, M.Z., Pat, S., Cenik, M.I., Akan, T., Ekem, N., Musa, G.</b> Boron evaporation and related difficulties” <i>Journal of Optoelectronics and Advanced Materials</i> 9 (4), pp. 858-861 (2007)	0.827
	<b>TOTAL</b>	1x5/3=1.66

**XV. Lucrarea:**

G Musa, C Surdu-Bob, **R Vlădoiu,** “*Selective emission of a two-spectral lines in a.c. plasmas (M-effect)*” J Optoelectron Adv M, vol.1, No.6 305-306 ,( 2007) *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. si anul.	$q_i$ = factorul de impact al revistei in care se citeaza
1.	<b>Surdu-Bob C.C., Musa G.</b> The kinetics of monochromatization of plasma light emission” <i>Journal of Physics D: Applied Physics</i> 41 (17), art. no. 172004 (2008)	2.200
	<b>TOTAL</b>	1x5/3=1.67

**XV. Lucrarea:**

G. Musa, N. Ekem, T. Akan, M. Z Balbag, M. I. Cenik, **R. Vlădoiu,** M. Ianisli, O Ozer, “*Investigation of carbon produced by methane pulsed discharge*”, *Physica Status Solidi C* , Vol 4, Issue 2, Febr. 2007, 521-523, Ed Willey, Print ISSN: 1610-1634, 1862-6351 *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. si anul.	$q_i$ = factorul de impact al revistei in care se citeaza
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1.	<b>Baines, K.H., Delitsky, M.L., Momary, T.W., Brown, R.H., Buratti, B.J., Clark, R.N., Nicholson, P.D.</b> “Storm clouds on Saturn: Lightning-induced chemistry and associated materials consistent with Cassini/VIMS spectra” <i>Planetary and Space Science Volume 57, Issue 14-15, (2009), 1650-1658</i>	2.506
<b>TOTAL</b>		1x5/8= <b>0.4</b>

**XVI. Lucrarea:**

G. Musa, I. Mustata, V, Ciupina, **R. Vlădoiu**, G. Prodan, C.P. Lungu, H. Ehrich “Thermionic Vacuum Arc (TVA)- Carbon thin film deposition”, , J Optoelectron Adv M , vol 7, no 5 (2005) 2485-2487 *este citata în*

Nr. Crt.	Autorul, titlul lucrării, denumirea revistei in care se citeaza, vol., nr., pag. si anul.	$q_i$ = factorul de impact al revistei in care se citeaza
1.	<b>Surdu-Bob, C., Mustata, I, Iacob, C..</b> “General characteristics of the Thermoionic Vacuum Arc plasma” <i>Journal of Optoelectronics and Advanced Materials 9 (9), pp. 2932-2934 (2007)</i>	0.827
2.	<b>Minaev VS, Terashkevich M, Timoshenkov SP, Kalugin VV, Novikov SN,</b> “Polymeric-nanoheteromorphous structure of noncrystalline carbon” <i>Journal of Optoelectronics and Advanced Materials 9 (10), pp. 3253-3264 (2007)</i>	0.317
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**XVIII. Lucrarea:**

N. Ekem, S. Pat, G. Musa, M. Z. Balbag, , I. Cenik, **R. Vlădoiu**, “Carbon thin film deposition by Thermionic Vacuum Arc(TVA)” J Optoelectron Adv M, vol. 10, no 3 (2008) 672-674 *este citata în*

1.	<b>M. Z. Balbag, S. Pat, M. Ozkan, N. Ekem, G. Musa</b> “Thermionic vacuum arc (TVA) technique for magnesium thin film deposition” <i>Physica B: Condensed Matter 405, Issue 16, pp. 3276-3278 (2010)</i>	1,056
<b>TOTAL</b>		1x5/6= <b>0.83</b>

**XIX. Lucrarea:**

G Horvath, J D Skalny, N J Mason, M Klas, M Zahoran, **R Vlădoiu** and M Manole “Corona discharge experiments in admixtures of N<sub>2</sub> and CH<sub>4</sub>: a laboratory simulation of Titan's atmosphere” *Plasma Sources Sci. Technol. 18 034016 (7pp) no3 2009 este citata în*

1.	<b>Et Es-Sebbar, M. C-Gazeau, Y Benilan, , A Jolly, C. D Pintassilgo</b> “Absolute ground-state nitrogen atom density in a N-2/CH4 late afterglow: TALIF experiments and modelling studies” <i>Journal Of Physics D-Applied Physics Vol: 43 no 33 pp (2010)</i>	2.083
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2.	<b>G. Horvath, N. J Mason, ,L.Polachova, M.Zahoran, L.Moravsky, S.Matejcik</b> , “Packed Bed DBD Discharge Experiments in Admixtures of N-2 and CH4” <b>Plasma Chemistry And Plasma Processing, Vol: 30 Issue: 5, 565-577 pp (2010)</b>	2.039
	<b>TOTAL</b>	<b>2x5/7=1.43</b>

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**Conf dr Rodica Vladoiu**