



MINISTERUL EDUCAȚIEI
UNIVERSITATEA OVIDIUS DIN CONSTANȚA

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FACULTATEA DE ȘTIINȚE APLICATE ȘI INGINERIE
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Nr. 838/12-10-2023

Anexa 1

Formular depunere candidatură
*pentru alegerile în funcția de membru al Consiliului
departamentului*

Subsemnata Vlădoiu Rodica, cadru didactic, cu grad didactic profesor universitar, titular al Universității „Ovidius” din Constanța, la Facultatea de Științe Aplicate și Inginerie, Departamentul Fizică și Electronică, având în vedere Legea Învățământului Superior nr. 199/2023, cu modificările și completările ulterioare, precum și *Metodologia pentru alegerea directorilor de departament și a membrilor în consiliile departamentelor*, îmi depun prezenta candidatură la alegerile pentru ocuparea funcției/locului vacant de:

	Director de departament	
x	Membru în Consiliul departamentului	

**Se vor bifa cu X și se vor semna variantele corespunzătoare*

Cunoscând prevederile art. 326 din Codul penal cu privire la falsul în declarații, declar că:

x	Nu am fost sancționat disciplinar	
x	Nu am fost sancționat pentru încălcarea normelor etice	
	Am fost sancționat disciplinar/pentru încălcarea normelor etice și am beneficiat de ridicarea/radierea sancțiunii.	
	Am fost condamnat penal și a intervenit reabilitarea	

**Se vor bifa cu X și se vor semna variantele corespunzătoare*

Anexez prezentei candidaturi următoarele documente:

x	Curriculum vitae	
x	Certificat de cazier judiciar	

**Se vor bifa cu X și se vor semna variantele corespunzătoare*



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Motivația pentru care candidez:

Consider că, prin calitățile mele, pot aduce un plus de valoare analizei problemelor curente ale departamentului de Fizică și Electronică, operativității luării deciziilor privind gestionarea strategiilor legate funcționarea programelor de învățământ, planificării și desfășurării activității de cercetare din cadrul departamentului.

În sprijinul acestei motivații aduc următoarele precizări

1. Sunt cadru didactic titular al Universității Ovidius din Constanța, Facultatea de Științe Aplicate și Inginerie, departamentul de Fizică și Electronică;
2. Am funcția didactică de profesor universitar și detin titlul de doctor în domeniul fizică;
3. Dispun de experiență dovedită în activitățile didactice și de cercetare;
4. Cunosc foarte bine legislația în vigoare referitoare la sistemul de învățământ din România și sistemul european;
5. Cunosc foarte bine legislația în vigoare referitoare la reglementarea cercetării științifice din România și sistemul european;
6. Am competențe de comunicare în limba engleză;

Data,
12.10.2023

Semnătura



Curriculum vitae Europass



Informații personale

Nume / Prenume **VLADOIU RODICA**

Adresă(e) S [REDACTED]

Telefon(oane) [REDACTED]

Fax(uri) [REDACTED]

E-mail(uri) [REDACTED]

Naționalitate Romana

Data nașterii [REDACTED]

Sex feminin

Locul de muncă / **Universitatea Ovidius Constanta**

Experiența profesională

Profesor universitar din 2016

Competențe și abilități sociale

- capacitatea de a lucra în echipă, câștigată prin colaborări internaționale transdisciplinare;
- capacitatea de adaptare în medii multiculturale obținută prin stagii internaționale;
- abilități de comunicare ca urmare a predării unor cursuri universitare, a prezentării rezultatelor activității de cercetare la conferințe și prin consilierea studenților în calitate de **coordonator local al rețelei CEEPUS III**

Competențe și aptitudini tehnice

- competente in domeniul nanostructurilor de carbon precum si al materialelor avansate obtinute prin diferite tehnologii de depuneri
- capacitatea de a folosi instrumente științifice performante pentru diverse măsurători fizice (electrice, optice, spectroscopice, topografice)
- experiență în folosirea de echipamente de realizarea și măsurare a vidului;
- experienta in caracterizarea straturilor subtiri prin diferite metode utilizand diferite tehnologii;
- experienta in tratarea si activarea suprafetelor cu plasma la presiune atmosferica

Experiența în conducere

- **Director de proiect Educational ROSE AG258/27.11.2019 (2019-2022)**
- **Secretar științific** al Facultății 2010-2012
- **Coordinator local** al rețelei CEEPUS din 2000 până în prezent
- **Sef de catedra** perioada 2004 – 2006
- **Membru în Consiliul National de Cercetare Științifică și Invățământ Superior – CNCSIS** în 2006
- **Membru în Comisia de specialitate nr 5 Eco-nanotehnologii și Materiale avansate** din cadrul CCCDI din 2017



- Societății române de fizică (SRF) din 2009,
- European Physical Society (EPS) din 2006
- IACSIT Applied Physics Society (APS) - din 2013

Experiență în conducerea de proiecte și echipe de cercetare câștigată în contracte de cercetare naționale și internaționale;

1. **Director de Grant academic ROSE 2019-2022 AG258/29.11.2019 ACCES**
2. Proiect național IDEI UEFISCDI 70/2017 **Director de proiect** 2017- 2019 INOVATECH
3. Proiect internațional L'Agentie de Francofonie: Bulgaria (Sofia) - Franța (Paris) România (Constanța) – **Responsabil de proiect partea română** (2017-2019)
4. Proiect național IDEI UEFISCDI 78/2013 **Director de proiect** 2013- 2016 LTVA
5. Proiect național parteneriate PCCA UEFISCDI 160/2012 **Director de proiect** 2012-2016 CREATIF
6. Proiect național IDEI CNCSIS 230/2007 **Director de proiect** 2007- 2010-GCARBTVA
7. Proiect național CEEX-CERES 62/2006 **Director de proiect** 2006-2008 CARBOCOMP
8. Proiect național MATNANTECH-CEEX 35/10.2005 **Responsabil de proiect** 2005 - 2008
9. Proiect național RELANSIN- CEEX 237/2006 **Responsabil de proiect** 2006-2008
10. Proiect național MATNANTEH-CEEX 93/2006 **Responsabil de proiect** 2006-2008
11. Proiect național parteneriate CAPACIF 72-723 **Responsabil de proiect** 2008-2011
12. Proiect parteneriate MATNANTECH-CEEX 106/2006 **Cercetător** 2006-2008
13. **GRANT Internațional HUMBOLDT V-Fokoop – RUM/1019528 Cercetător** 2004-2008
14. **Responsabil Proiecte internaționale nr. 47/ 48 JINR Order No. 34/23.01.2015 DUBNA**
15. **Responsabil Proiecte internaționale nr 33, 83, 84 /JINR order no 96/15.02.2016 DUBNA**
16. **Responsabil Proiecte internaționale nr 49, 50 /JINR order no 220/15.04.2017**
17. **Responsabil Proiecte internaționale nr 55, 56,69 /JINR order no 321/21.05.2018**
18. **Responsabil Proiecte internaționale nr 49 /JINR order no 397/27.05.2019 DUBNA**
19. **Responsabil Proiecte internaționale nr 13 /JINR order no 269/20.05.2020 DUBNA**
20. **Responsabil Proiecte internaționale nr 49 /JINR order no 365/11.05.2021 DUBNA**

Alte competențe și aptitudini

Calitatea de referent

- **Referent** pentru PSST, Vacuum, Journal of Plastic films, Scanning Journal of Physics and Chemistry of Solids, Surface and Coating Materials, Ozone: Science & Engineering, Chemical Engineering Science 2008, J Optoelect. and Adv. Mater.,
- **Guest Editor** pentru Plasma Sources Science Technology 2005, Physica Scripta 2019, Materials 2020, Coatings 2020, 2022, Nanomaterials 2022

Calitatea de evaluator

- **Evaluator** pentru UEFISCDI din anul 2012- prezent, program Nucleu din 2018, 2019, comisia de evaluare pentru INFLPR în vederea acreditării - membru suplimentar 2020, CNCSIS din anul 2008, Czech Science Foundation în 2009, CEEPUS II anul 2005, PNRAS 2022, 2023

Membră în Comitetul științific la conferințe internaționale

- II **CESPC** Central European Symposium on Plasma Chemistry 2008, Brno, Czech Republic, August 31 – September 4, 2008
- 27 **SPPT** (Symposium on Plasma Physics and Technology), 20-23 iunie 2016, Praga, Cehia

Stagii de profesor/cercetător invitat

- Univ "Ionophysics" Innsbruck, Austria: 2023, 2022, 2019, 2018, 2017, 2016, 2015, 2014, 2012, 2009, 2003 (cate 1 luna), 2001 (2 luni), Comenius University, Bratislava, Slovacia, 2019, 2009 (1 luna), 2004 (1 luna), 2002 (2 luni), Universitatea "Masharyk" Brno, Cehia, 2006 (2 Sapt), Universitatea "Charles", Praga, Cehia, 2016 (2 Sapt), 2015 (2 Sapt), 2014 (2 Sapt) 2012 (1 luna), 2006 (2 Sapt) Universitatea "Aston", Birmingham, Anglia, 2009 (2 sapt)

Factorul Hirsch: H=16

Lista de lucrări cuprinde:

- **98 articole cotate ISI** în reviste de renume național și internațional și proceedingsuri conferințe
- **720 citări** total din care 395 citări (fără autocitări)/
- **2 brevete de invenție (OSIM)** – publicate pe ISI Web of knowledge
- **3 capitole de carte** în Editura Wiley, Nova Publishers, respectiv InTech
- **51 lucrări invitate** sau prezentate oral la conferințe internaționale
- **21 seminarii** susținute la universități din Europa

Lista lucrărilor publicate
Prof. univ. Dr. Rodica VLADOIU

A - TEZA DE DOCTORAT

A1. Anul 2004, conducator stiintific Dr MUSA GEAVIT, Universiatea din Bucuresti, Facultatea de Fizica, Titlu:”Contributii la folosirea metodei TVA (Thermionic Vacuum Arc) pentru depuneri de straturi subtiri de carbon”.

B. CĂRȚI PUBLICATE

B1. R. Vladoiu,”Tehnologii cu plasma”, Ovidius University Press 2007, 317 pagini, ISBN 978-973-614-390-8

B2. R. Vladoiu, M. Braic “Nanostructuri de carbon generate in plasma”, Ovidius University Press, 2008, 221 pagini. ISBN 978-973-614

C. CAPITOLE PUBLICATE ÎN CĂRȚI

C1. R. Vlădoiu, A. Mandeș, V. Dincă, M. Coțulov, V. Ciupină, C. P. Lungu, G. Musa “Investigation of DLC and multilayer coatings hydrophobic character for biomedical applications” Capitolul in “New Industrial Plasma Technology” – Ed. Wiley -VCH, - 7 pagini, 2009

C2. R. Vlădoiu, V. Ciupină, M.Coțulov, V. Dincă, A. Mandeș, M. Prodan Capitolul 6 „DLC Thin Films Growth in Thermionic Vacuum Arc Technologies: TVA and GTVA” capitol in cartea “Diamond-Like Carbon Films”, Ed NOVA Science Publishers 9 pagini, (2012). pag 141-150, ISBN 978-1-61324-791-4.

C3 R. Vladoiu, C. Porosnicu, A. Mandes, I. Jepu, V. Dinca, A. Marcu, M. Lungu, G. Prodan, L. Avotina – “DLC Thin Films and Carbon Nanocomposite Growth by Thermionic Vacuum Arc (TVA) Technology” Chapter in "Diamond and Carbon Composites and Nanocomposites" Ed. INTECH, 22 pagini ,Chapter 5, pag 107-129 (2016) ISBN 978-953-51-2453-5

D. LUCRARI DE LABORATOR

D1. R. Vladoiu, ”Fizica plamei si aplicatii” *Ovidius University Press*, 132 pagini , (2010), ISBN 978-973-614-536-0;

D2. R. Vladoiu A. Mandes “Spectroscopie si laseri”, *Ovidius University Press*, 127 pagini (2016), ISBN 978-973-614-900-9

E. VOLUME PUBLICATE CA EDITOR

EIVOL: 17th European Conference on Atomic and Molecular Physics of Ionized Gases in PLASMA SOURCES SCIENCE & TECHNOLOGY Vol: 14, Issue: 2, Published: MAY 2004

E2 GUEST EDITOR of Special Issue "Carbon-Refractory Metals Nanostructures: Synthesis, Characterization and Applications" in MATERIALS (IF =3.057), 2020 ISSN 1996-1944)



E3 GUEST EDITOR of Special Issue "Thin Film Coatings for Multifunctional Applications" in COATINGS (IF =2.436), 2020, ISSN 2079-6412

E4 GUEST EDITOR of Special Issue "Applied Physics and Nanomaterials" in Nanomaterials - R. Vladoiu, S. Polosan and M. Tichy (IF =5.719), 2022, ISSN 2079-4991

F – ARTICOLE IN REVISTE COTATE ISI CU FACTOR DE IMPACT

F.1 DINCA, V MANDES, A. VLADOIU, R, G. PRODAN, CIUPINA, V POLOSAN, S
Microstructural and morphological characterization of the cobalt-nickel thin films deposited by the Laser-induced Thermionic Vacuum Arc method **COATINGS**, 2023, Vol. 13 issue 6 DOI 10.3390/coatings13060984

F.2 VLADOIU, R.; MANDES, A.; DINCA, V.; MATEI, E.; POLOSAN, S., *Synthesis of cobalt-nickel aluminate spinels by LTVA method and thermal annealing processes*, **NANOMATERIALS**, 2022, 2022, 12(21), 3895; DOI: 10.3390/nano12213895

F.3 Vladoiu, R., Mandes, A.; Dinca, V.; Ciupina, V.; Matei, E.; Polosan, S. *The Synergistic Effect of the Laser Beam on the Thermionic Vacuum Arc Method for Titanium-Doped Chromium Thin Film Deposition*, **COATINGS**, 2022, Vol. 12 issue 4 DOI 10.3390/coatings12040470

F.4 Polosan, S, Ciobotaru, CC, Ciobotaru, IC, Enculescu, M, Iosub, D, Mandes, A, Vladoiu, R *Electron Irradiation of Titanium-Doped Chromium Nanostructured Thin Films for Higher Conductive Electrodes*, **IEEE TRANSACTIONS ON NANOTECHNOLOGY**, Vol.21, Page 823 829, DOI10.1109/TNANO.2022.3227366

F.5 V. Ciupina, C. P. Lungu, R. Vladoiu, G Prodan C. Porosnicu, E Vasile, M Prodan V. Nicolescu, V. Dinca, O. Cupsa, A. Velea R. Manu *Synthesis and characterization of some C-Ti based multilayer and composite nanostructures*, **JOURNAL OF OVONIC RESEARCHES**, 2022, Vol.: 18, Issue: 2, pag 177-186 DOI:10.15251/JOR.2022.182.177

F.6 Vladoiu, R.; Mandes, A; Dinca, V.; Kudrna, P.; Tichý, M.; Polosan, S. *Magnesium-silver cathodes for efficient charge-injection into Organic Light Emitting Diodes deposited by LTVA method*. **J. ALLOYS & COMP.** 2021 869 159364, <https://doi.org/10.1016/j.jallcom.2021.159364>

F.7 R. VLADOIU, M. Tichy, A. MANDES, V. DINCA, P. Kudna, *Thermionic Vacuum Arc (TVA), a versatile technology for thin film deposition and its applications*, 2020, **COATINGS**, Volume: 10 Issue: 3 Article Number: 211, DOI: 10.3390/coatings10030211 IF 2.436

F.8 R. VLADOIU, A. MANDES, V. DINCA, B. Maria Soloviov D., Turchenko Vitaly, *Synthesis and characterization of the complex nanostructured thin films based on titanium for industrial applications* **MATERIALS**, 2020, Volume: 13, Issue: 2, 399 DOI: 10.3390/ma13020399 IF 3.057

F.9 S. Cozma, R. Vladoiu, A Mandes, VD Balan, G Prodan, V. Bursikova *Characterization of Platinum-Based Thin Films Deposited by Thermionic Vacuum Arc (TVA) Method*, **MATERIALS** 2020, Vol: 13 Issue: 7, Article Number: 1796, DOI: 10.3390/ma13071796 IF 3.057



- F.10** V. Ciupina, C. P. Lungu, **R. Vladoiu**, C. Porosnicu, E Vasile, V. Nicolescu, A. Mandes, V. Dinca, O. Cupsa, *Carbon-Titanium Nanostructures: Synthesis and Characterization*, **PHYSICA SCRIPTA**, 2020 Vol.: 95, Issue: 4, Article Number: 044012 DOI: 10.1088/1402-4896/ab6d45 IF 1.985
- F.11** R. Vladoiu, A. Mandes, V. Dinca, G. Prodan, P. Kudna, M. Tichy, *Plasma diagnostics and characterization of the Mg and Mg-Zn thin films deposited by TVA method*, **VACUUM**, 2019, vol 167, p 129-135, DOI: 10.1016/j.vacuum.2019.06.002 **IF 2.906**
- F.12** **R. Vladoiu**, A. Mandes, V. Dinca-Balan, V. Bursikova, *Structural and Mechanical Properties of Nanostructured C-Ag Thin Films Synthesized by Thermionic Vacuum Arc Method* **JOURNAL OF NANOMATERIALS**, 2018, Volume 2018, Article ID 9632041, 10 pages, ISSN: 1687-4110
- F.13** A. Mandes, **R. Vladoiu**, G. Prodan V., Dinca, , Porosnicu, C, Dinca, P, *The Properties of Binary and Ternary Ti Based Coatings Produced by Thermionic Vacuum Arc (TVA) Technology*, **COATINGS**, 2018, Volume: 8 Issue: 3 Article Number: 114 ISSN: 2079-6412 **IF 2.436**
- F.14** Kichanov, S, Pantelica, A, Pantelica, D, Stolyar, S, Iskhakov, R Aranghel, D. Ionescu, **R. Vladoiu** M. Balasoii, *Structural and compositional specifications on biogenic ferrihydrite nanoparticles production by klebsiella oxytoca*, **ROMANIAN REPORTS IN PHYSICS**, 2018, Volume: 70 Issue: 4 Article Number: 511, ISSN:1221-1451 **IF 2.147**
- F.15** **R. Vladoiu**, A Mandes, VD Balan, V. Bursikova, *Structural and Mechanical Properties of Nanostructured C-Ag Thin Films Synthesized by Thermionic Vacuum Arc Method*, **JOURNAL OF NANOMATERIALS**, 2018, Article Number: 9632041, ISSN: 1687-4110 **IF 1.980**
- F.16** Dinca-Balan, V, **Vladoiu**, R Mandes, A, Prodan, G , *Correlation study of nanocrystalline carbon doped thin films prepared by a thermionic vacuum arc deposition technique*, **JOURNAL OF PHYSICS D-APPLIED PHYSICS** 2017, Volume: 50 Issue: 43 Article Number: 435305, ISSN: 0022-3727 **IF 3.169**
- F.17** R. Perekrestov, P Kudrna, S. Danis, M. Tichy, I Bieloshapka, **R Vladoiu**, *Application of microcracked columnar TiO₂ thin films deposited by DC hollow cathode plasma jet in dye-sensitized solar cells*, **JOURNAL OF VACUUM SCIENCE & TECHNOLOGY A**, 2017 Volume: 35 Issue: 6 Article Number: 061307, ISSN: 0734-2101 **IF 2.166**
- F.18** **R. Vladoiu**, A Mandes, VD Balan, G. Prodan, V Ciupina, *Synthesis of reinforced magnesium embedded in carbon matrix by using Thermionic Vacuum Arc (TVA) technology*, **ROMANIAN REPORTS IN PHYSICS**, 2016, Volume: 68 Issue: 3 Pages: 1076-1084, ISSN: 1221-1451 **IF 2.147**
- F.19** R. Perekrestov, P. Kudrna, M. Tichy, I. Khalakhan, S. Danis, G. Prodan, **R. Vladoiu** *Crystalline structure and morphology of TiO₂ thin films deposited by means of hollow cathode plasma jet with supporting anode*, **SURFACE & COATINGS TECHNOLOGY**, 2016, Vol: 271, Pag: 123-129, ISSN: 0257-8972, **IF 3,784**
- F.20** **R. Vladoiu**, A Mandes, VD Balan, G. Prodan, P Kudrna, M. Tichy, *Magnesium plasma diagnostics by heated probe and characterization of the Mg thin films deposited by*

thermionic vacuum arc technology **PLASMA SOURCES SCIENCE & TECHNOLOGY**
2015, Vol: 24, Issue: 3, P: 35008-35008, ISSN: 0963-0252, **IF 3.591**

- F.21** L. Petrasescu, V. Ciupina, S. G. Tutun, **R. Vladoiu**, G. Prodan, C. Porosnicu, E. Vasile, I. Prioteasa, R. Manu, *Carbon - platinum nanostructured catalysts for hydrogen fuel cells*, **J. OF OPTOEL. AND ADV. MATER** (2015) Vol 17, Issue 9-10, Pag.1464-1470, ISSN: 1454-4164, **IF 0.429**
- F.22** SG. Tutun, L. Petrasescu, **R. Vladoiu**, G Prodan, CP Porosnicu, E. Vasile, I Prioteasa, R Manu, V Ciupina, *Application of some carbon-aluminium based nanostructures obtained by TVA method in divertors coating from fusion reactor* , **J. OF OPTOEL. AND ADV. MATER** (2015) Vol: 17, Issue: 7-8, P: 1064-1069, **IF 0.429**
- F.23** A. Mandes, **R. Vladoiu**, V. Dinca, G. Prodan, *Binary C-Ag Plasma Breakdown and Structural Characterization of the Deposited Thin Films by Thermionic Vacuum Arc Method* **IEEE TRANSACTIONS ON PLASMA SCIENCE** (2014), Vol:42 , Issue: 10, 2806 – 2807, ISSN: 0093-3813, **IF 1.101**
- F.24** C. Porosnicu, C. P. Lungu, I. Jepu, O.G. Pompilian , P. Dinca, C. Luculescu, G. Prodan, A. Marin, A. Vladescu, **R. Vladoiu** *Characterization of ternary C-Si-Al nanocomposite thin films obtained by TVA method* **DIGEST JOURNAL OF NANOMATERIALS AND BIOSTRUCTURES** (2014), Vol. 9, No. 2, p. 765 – 775 ISSN: 1842-3582, **IF 0.945**
- F.25** V. Ciupina, C.P. Lungu, **R Vladoiu**, G Prodan, C Porosnicu, M Belc, IM Stanescu, E. Vasile, R. Rughinis *Silicon carbide multilayer protective coating on carbon obtained by Thermionic Vacuum Arc method*, **JOURNAL OF NANOPHOTONICS**, 2014 Vol: 8, Article Number: 083996 DOI: 10.1117/1.JNP.8.083996, ISSN: 1934-2608, **IF 1.686**
- F.26** V Ciupina, I Morjan, **R. Vladoiu**, CP. Lungu, C Porosnicu, I. Jepu, G Prodan, I.M. Stanescu, A. Mandes, M. Contulov, V. Dinca, M. Prodan, V. Nicolescu *Application of carbon-tungsten, carbon-beryllium and carbon-aluminium nanostructures in divertors coatings from fusion reactor* , **J. OF OPTOEL. AND ADV. MATER**, 2013, Vol: 15, Issue: 11-12, Pages: 1450-1456, ISSN: 1454-4164, **IF 0.563**
- F.27** V. Ciupina, **R. Vladoiu**, C.P. Lungu, V. Dinca, M. Contulov, A. Mandes, P. Popov and G. Prodan, *Investigation of the SiC thin films synthesized by Thermionic Vacuum Arc method (TVA)*, **EUROPEAN PHYSICAL JOURNAL D**, 2012, Vol. 66, No. 4 p 89, ISSN: 1434-6060 , **IF 1.513**
- F.28** **R. Vladoiu**, V. Ciupina , M. Contulov, V. Dinca, A. Mandes ,V. Bursikova, *Synthesis and Characterization of Nanostructured α -C:H Thin Films by Gaseous Thermionic Vacuum Arc (G-TVA) Deposition Technique*, **PLASMA CHEMISTRY PLASMA PROCESS**,2012 Vol 32, 2, pag. 219-229, ISSN: 0272-4324, **IF 1,728**
- F.29** **R Vladoiu**, V. Ciupina, M Contulov, A Mandes, V. Dinca, M. Prodan, *HRTEM Images of α -C:H Thin Films Deposited by G-TVA Technique* **IEEE TRANSACTIONS ON PLASMA SCIENCE** (2011), vol 39 issue 11, pag 2802–2803, ISSN: 0093-3813, **IF 1.174**
- F.30** V Ciupina, J Sullivan, S Saied, **R Vladoiu**, G Prodan, I.M. Oancea-Stanescu, A Mandes, M Contulov, V Dinca, M Prodan, D. Manole “*Synthesis and Characterization of*

- Some Carbon Based Nano-structures*” **CONTRIBUTIONS TO PLASMA PHYSICS** (2011), Vol: 51 Issue: 6 Pages: 546-553, ISSN: 0863-1042, IF 1.108
- F.31** A. Stoica, **R. Vladoiu**, G. Musa, V. Ciupina, M. Contulov, V. Bursikova, O .Blahova, *Mechanical properties of thin films deposited by TVA and G-TVA methods* **CHEMICKE LISTY** (2011) Vol:105 Special Issue: SI Supplement: 2 Pages: S132-S135 , ISSN: 0009-2770, IF 0.529
- F.32** **R. Vladoiu**, V. Ciupina, A. Mandes, M. Contulov, V. Dinca, P. Popov, C. P. Lungu, *Tribological properties of carbon-tungsten nanocomposites synthesized by Thermionic Vacuum Arc (TVA) method* **ROMANIAN REPORTS OF PHYSICS** (2011), Vol: 63, Issue: 4 P: 1053-1060, ISSN: 1221-1451, IF 0.500
- F.33** **R. Vladoiu**, V. Ciupina, A. Mandes, V. Dinca, M. Prodan, G. Musa *Growth and characteristics of tantalum oxide thin films deposited using thermionic vacuum arc technology* **JOURNAL OF APPLIED PHYSICS**, (2010) vol 108, Article number 093301 ISSN 0021-8979, IF 2.079
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I - LUCRĂRI PUBLICATE ÎN REVISTE ȘI VOLUME DE CONFERINȚE CU REFERENȚI (NEINDEXATE)

- I1** V. Ciupina, **R. Vladoiu**, P. Popov, V. Dinca, M. Contulov, A. Mandes, C. P. Lungu, *Characterization of Nanostructured TiC Thin Films Synthesized by TVA (Thermionic Vacuum Arc) Method*, **JOURNAL OF MATERIALS SCIENCE ENGINEERING A** Vol. 2, No. 1, Jan. 2012, p 16-21
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- I3** V. Dinca, **R. Vladoiu**, A. Mandes “*Thermionic Vacuum Arc Nanotechnology Used for SiC Thin Films Deposition*” - - **NanotechItaly2012** Promoting responsible innovation, pp 258-259
- I4** M. Contulov, **R. Vladoiu**, V. Dinca, V. Bursikova - Mandes “*Mechanical characterization of hydrogenated DLC (a-C:H) films synthesized using Magnetically Gaseous Thermionic Vacuum Arc (MGTVA) Technology*” - - **NanotechItaly2012** Promoting responsible innovation, pp 278-279
- I5** T. Akan, V. Ciupină, **R. Vlădoiu**, G. Musa, “*Surface charge influence on the breakdown voltage in He*”, **Journal of Engineering and Natural Sciences**, vol 2, (2006) 45-49, Istanbul,ed Sigma, ISSN 1304-7191
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- I7** D. Mondescu, **R. Vlădoiu**, M. Ganciu, C.P. Lungu, I. Borcoman, E Finanțu, G. Musa, “*Barium titanate barrier discharge as mercury light emission source*”, **Romanian Reports in Physics**, vol. 49 3-4 (1997), ISSN 1221-1451
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- I9** **R. Vlădoiu**, G. Chelan, M. Barligea, G. Musa “*Influence of the dielectric surfaces polarization on the breakdown voltages of gazeous discharge devices*”,– **Romanian Journal of Physics**, vol. 48, 1-4, (2003) 385-389, ISSN 1221-146X

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- I11** G. Musa, I. Mustată, V. Ciupină, **R. Vlădoiu**, G. Prodan, E. Vasile, H. Ehrich,, “*Carbon thin film deposition using thermionic vacuum arc*”, **Romanian Journal of Physics**, vol. 49, no 5-6, (2004) 445-454, ISSN 1221-146X
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- I13** **R. Vlădoiu**, V. Ciupină, G. Musa, „*Possible generation of negative ions at the collision of electronegative particle with negative charged glass wall*”, **Romanian Journal of Physics**, vol. 50, no 9-10 (2005) 1103-1105, ISSN 1221-146X
- I14** **R. Vlădoiu**, V. Ciupină, I. Mustată, C.P. Lungu, G. Musa, “*Characterization of Carbon thin film deposited by Thermionic Vacuum Arc (TVA) method*”, **Romanian Journal of Physics**, vol. 51, no 1-2 (2006) 197-200, ISSN 1221-146X
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- I17** **R. Vlădoiu**, G. Musa “*Thin films deposition using Thermionic Vacuum Arc technology*”, – “**Ovidius University Annals of Physics**“, Vol.2, 2001
- I18** **R. Vlădoiu**, V. Ciupina ,G.Prodan, E Vasile, I. Mustata, M. Blideran, G. Musa , H. Ehrich „*Thermionic Vacuum Arc (TVA) deposition of nanostructured carbon thin films* - “**Ovidius University Annals of Physics**“, Vol.3 , 2002
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- I20** M. Contulov, **R. Vlădoiu**, A. Mandes, V. Ciupina, V. Bursikova, “*Surface Engineering of the Hydrogenated DLC (a-C:H) Coatings with Optimized Mechanical Performance*”, **Advanced Materials Research** Vols. 816-817 (2013) pp 33-37
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- I23** V. Dinca, **R. Vlădoiu**, M. Contulov, M. Cernak, “*Surface Activation of the Polycarbonate in Atmospheric Pressure Plasma Generated in Air and Helium by Surface Dielectric*

J- BREVETE ACORDATE ÎN ÎNTREAGA ACTIVITATE

J1. C P LUNGU, C C POROSNICU, I JEPU, C TICOS, M AUREL, V N ZAROSCHI, V TIRON, G POPA, **R VLADOIU**, V CIUPINA, Method for producing carbon-tungsten composite films with Thermionic Vacuum Arc, **Patent Number(s):** RO129461-A2 (OSIM)

J2 P CHIRU, V CIUPINA, I JEPU, A M LUNGU, P C LUNGU, C C POROSNICU, V TIRON, **R VLADOIU**, V N ZAROSCHI, Nanostructured Beryllium-carbon and beryllium-wolfram alloys and method for preparing the same, **Patent Number(s):** RO127300-A0 ; RO127300-A8 (OSIM)

K. Granturi/ proiecte de cercetare castigate prin competitive nationale

Director de Grant Academic ROSE pentru universități, AG 258/29.11.2019, 2019-2022, acronym ACCES, grant derulat prin Ministerul EDUCATIEI si finantat de Banca Mondială

Nr. crt.	Proiecte nationale	Cod/autoritate contractanta	Perioada	Valoarea (lei)	Functia
1	Obtinerea materialelor avansate prin implementarea unui nou concept al tehnologiei Plasma-Laser	Proiect 70/2017 INOVATECH/UEFISCDI	2017-2019	Titular unic UOC: 850.000	Director de proiect
2	“Nanocompozite complexe pe baza de carbon si titan pentru aplicatii industriale (CREATIF) ”PCCA-tip 2, 160/2012 2. “” (2013-2015)	Proiect 160/2012 CREATIF/UEFISCDI	2012-2016	3 000 000 din care UOC 1 100 000	Director de proiect
3	“Cresterea si controlul granulelor cristaline dintr-o matrice de carbon printr-un concept nou al metodei TVA LTVA”	Proiect 78/2013 LTVA /UEFISCDI	2012-2016	Titular unic UOC: 1 125 000	Director de proiect
4	Titlu; „Nanostructuri pe bază de carbon obținute prin tehnologiile: Arc Termionic în Vid (TVA) și Arc Termionic în Vid în Flux de Gaz (G-TVA) – studiu calitativ comparativ”	Proiect 230/2007 G-CARB-TVA CNCSIS - IDEI	2007- 2010	Titular unic UOC 759 532.5	Director de proiect
5	Titlu: “Studiul	Proiect 62/2006 CARBOCOMP	2006-2008	UOC:	Director

	comparativ al calitatii straturilor nanostructurate de carbon depuse prin metodele: arc termoionic in vid, arc catodic si pulverizare magnetron	/CERES -CEEX 2		575 000	de proiect
6	Titlu: „Structuri de spin în magnetoelectronică”	Proiect 35/10.2005 SPINCOMEL MATNANTECH-CEEX 2	2005-2008	UOC 78 870	Responsabil proiect
7	Titlu: “Tehnologii avansate pentru dezvoltarea straturilor antifricțiune ecologice de tip metal-carbon”	Proiect 237/2006 TEHMEH /RELANSIN- CEEX	2006-2008	UOC 105.000	Responsabil proiect
8	Titlu: „Materiale feroelectrice micro și nanostructurate pentru memorii nevolatile”	Proiect93/2006MATFEROMEM/ MATNANTEH- CEEX	2005-2008	UOC; 82.000	Responsabil de proiect
9	Titlu: “Cercetari avansate pentru producerea acoperirilor combinatoriale de interes pentru fuziune”	Proiect CAPACIF 72-223 ANCS /2008	2008-2011	UOC 42 794	Responsabil de proiect
10	Titlu: Titlu: Nanostructuri complexe generate în plasma: obtinere si caracterizare	Proiect 108/2006 NANOSTRUPL/ MATNANTEH- CEEX	2006-2008	UOC 105.000	Membru in echipa de cercetare

L Granturi/ proiecte de cercetare INTERNATIONALE ca RESPONSABIL DE PROIECT

L1 L'Agence Universitaire de Francophonie AUF-FRS **Bulgarie/France/ Romania**

"Modèles thermocinétiques pour la croissance de Graphène et de Nanotubes de carbone par dépôt chimique en phase vapeur assisté par plasma", 2017-2018,

L2 GRANT International HUMBOLDT V - Fokoop – RUM/1019528, 2004-2008

L3 Proiecte **internationale** nr. 47, 48/ IUCN Ordin No. 34/23.01.2015 DUBNA 2015

L4 Proiecte **internationale** nr 33, 83, 84/ IUCN Ordin no 96/15.02.2016 DUBNA 2016

L5 Proiecte **internationale** nr 49, 50/ IUCN Ordin no 220 din 10.04.2017 -DUBNA 2017

L6 Proiecte **internationale** nr 55, 56 / IUCN Ordin no 322/21.05.2018 - DUBNA 2018

L7 Proiect **international** nr 49/ IUCN Ordin no 397/27.05.2019 - DUBNA 2019

L8 Proiect **international** nr 45/ IUCN Ordinul nr. 269/20.05.2020- DUBNA 2020

12.10.2023

Semnătura,
Prof dr Rodica Vladoiu

