

Lista lucrărilor publicate
Prof. univ. Dr. Rodica VLADOIU

A - TEZA DE DOCTORAT

A1. Anul 2004, conducator stiintific Dr MUSA GEAVIT, Universitatea 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. Conțulov, 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. Conțulov, 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 plasmei 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

E1VOL: 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 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.2 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.3 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.4 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.5 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.6 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.7 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.8 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.9 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.10** 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.11** **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.12** 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.13** Kichanov, S, Pantelica, A, Pantelica, D, Stolyar, S, Iskhakov, R Aranghel, D. Ionescu, **R. Vladoiu** M. Balasoiu, *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.14** **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.15** 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.16** 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.17** **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.18** 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.19** **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.20** 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.**

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- F.21** 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.22** 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.23** 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.24** 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**, 2014Vol: 8, Article Number: 083996 DOI: 10.1117/1.JNP.8.083996, ISSN: 1934-2608, **IF 1.686**
- F.25** 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.26** 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.27** **R. Vladoiu**, V. Ciupina , M. Contulov, V. Dinca, A. Mandes ,V. Bursikova, *Synthesis and Characterization of Nanostructured a-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.28** **R Vladoiu**, V. Ciupina, M Contulov, A Mandes, V. Dinca, M. Prodan, *HRTEM Images of a-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.29** 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.30** 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**

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ISSN: 0009-2770, IF 0.529

- F.31 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.32 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
- F.33 R. Vladoiu**, M. Contulov, V. Ciupina, G. Musa “*Multiple M-Effect Signal in Noble Gases and Hydrogen Mixture Discharge*”, **CONTRIBUTIONS TO PLASMA PHYSICS** (2010), Vol.50, Issue 2, pag.177 – 181 ISSN: 0863-1042, IF 1.006
- F.34 R.Vladoiu**, V. Ciupina, M.Contulov, A.Mandes, V. Dinca, G. Prodan, C. P Lungu, *Structure and tribological properties of carbon based nanocomposites grown by TVA method*, , **J. OF OPTOEL. AND ADV. MATER** 2010, Vol. 12 , no. 3,P 553-556 , ISSN: 1454-4164, IF 0.412
- F.35 G. Horvath J. D. Skalny J. Orszagh R. Vladoiu N. J. Mason** “*Influence of the Outer Electrode Material on Ozone Generation in Corona Discharges*”, **PLASMA CHEMISTRY AND PLASMA PROCESSING** (2010) Vol 30, issue 1: pag 43–53, ISSN: 0272-4324, IF1.798
- F.36 R. Vladoiu**, M. Contulov, A. Mandes, G. Musa “*The double m-effect induced by noble gases activated with negative ions*” **EUROPEAN PHYSICAL JOURNAL D** (2009), vol 54, no 2, p 287-291, ISSN: 1434-6060, IF1.420
- F.37 R. Vladoiu**, V. Dinca, G. Musa “*Surface energy evaluation of unhydrogenated DLC thin film deposited by thermionic vacuum arc (TVA) method*” **EUROPEAN PHYSICAL JOURNAL D**, (2009),, vol 54, no2, p 433–437, ISSN: 1434-6060,IF 1,420
- F.38 G Horvath, J D Skalny, N J Mason, M Klas, M Zahoran, R Vladoiu and M Manole** “*Corona discharge experiments in admixtures of N₂ and CH₄: a laboratory simulation of Titan's atmosphere*” **PLASMA SOURCES SCIENCE & TECHNOLOGY** 2009, vol. 18, no3,article number 034016, ISSN: 0963-0252, IF 2,384
- F.39 N. Ekem, S.Korkmaz, S.Pat, M. Z. Balbag, N. E. Cetin, M. Ozmumcu, R. Vladoiu, G.Musa**, *ZnO thin film preparation using RF sputtering at various oxygen contents*, , **J. OF OPTOEL. AND ADV. MATER** 2008, Vol.10, Issue: 12, P3279-3282, ISSN: 1454-4164, IF 0.577
- F.40 V. Ciupina, R. Vladoiu, A. Mandes, G. Musa, C. P. Lungu**,*TEM investigation of the C-Me multilayer nanocomposites deposited by Thermionic Vacuum Arc (TVA) method*, , **J. OF OPTOEL. AND ADV. MATER** 2008, Vol.10, Issue: 11, P 2958-2962, ISSN: 1454-4164, IF 0.577

- F.41** J D Skalny, A Stoica, J Orszagh, **R Vladoiu**, N J Mason "Positive and negative corona discharges in flowing carbon dioxide", **JOURNAL OF PHYSICS D-APPLIED PHYSICS** (2008) , Vol 41 , Issue 17, article number 175211, ISSN: 0022-3727, IF 2.104
- F.42** C. Surdu Bob, **R. Vladoiu**, M. Badulescu, G. Musa „Control over the sp²/sp³ ratio by tuning plasma parameters of the thermionic Vacuum Arc”, **DIAMOND AND RELATED MATERIALS** 2008 , Vol 17, Issues 7-10, 1625-1628, ISSN: 0925-9635, IF 2.092
- F.43** 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 priming layers, obtained by TVA method", **JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS** (2008), Vol 320, Issue 14, P 226-230, ISSN: 0304-8853, IF 1.283
- F.44** S. Pat, Z. Balbag, I. Cenik, N.Ekem, S. Okur, **R. Vladoiu**, G. Musa Carbon deposition on the stainless steels substrates using pulsed plasma, , **J. OF OPTOEL. AND ADV. MATER**, 2008, Vol.10, Issue: 3, P 663-664, ISSN: 1454-4164, IF 0.577
- F.45** N. Ekem, G.Musa, S. Pat, Z. Balbag, I. Cenik, **R. Vladoiu**, Carbon thin film deposition by Thermionic Vacuum Arc (TVA), , **J. OF OPTOEL. AND ADV. MATER** 2008 Vol. 10, Issue: 3, P 672-674, ISSN: 1454-4164, IF 0.577
- F.46** M. Z. Balbag, S.Pat, I. Cenik, N. Ekem, T. Akan, B. Baksan, **R. Vladoiu**, G. Musa, Titanium oxidation by pulsed oxygen plasma, , **J. OF OPTOEL. AND ADV. MATER** 2008Vol.10, Issue: 3, P 680-682, ISSN: 1454-4164, IF 0.577
- F.47** **R. Vladoiu**, V. Ciupina, A. Mandes, V. Dinca, M. Contulov, G. Prodan, G.Musa, Preliminary results on comparative study of three methods for nanocarbon films deposition: thermionic vacuum arc, magnetron sputtering and cathodic arc, , **J. OF OPTOEL. AND ADV. MATER**, 2008 Vol. 10, Issue: 3, P 723-726, ISSN: 1454-4164, IF 0.577
- F.48** G. Musa, **R. Vladoiu**, C. Surdu Bob, A. Mandes The M-effect, a synergetic result of three body collisions and metastable/resonance radiation trapping, **OPTOELECTRONICS AND ADVANCED MATERIALS-RAPID COMMUNICATIONS** (2008)Vol: 2, Issue: 3P: 176-177 , ISSN: 1842-6573, IF0.224
- F.49** J. D Skalny, S Matejcik, J, Orszagh, **R. Vladoiu**, N. J. Mason, A study of the physical and chemical processes active in corona discharges fed by carbon dioxide, **OZONE-SCIENCE & ENGINEERING** (2008), Vol: 30, Issue: 2, P: 145-151, ISSN: 0191-9512, IF 0,981
- F.50** **R. Vladoiu** V. Ciupina, C.P. Lungu, OI Pompilian,; P Chiru, AM Lungu, G. Prodan, A Mandes,; G. Musa, Characterization Of Nanostructured Carbon-Metal Bilayers Deposited By Thermionic Vacuum Arc (TVA) Technology **CHEMICKE LISTY** 2008,, Vol 102 Special Issue: SI 4 Pages: S1482-S1485, ISSN: 0009-2770, IF 0.593
- F.51** **R. Vladoiu** V. Ciupina, V. Dinca, G. Musa, Influence of the operational parameters on the wettability of the DLC films deposited by TVA method **CHEMICKE LISTY** 2008,Vol 102 Special Issue: SI 4 Pages: S1463-S1466 , IF 0.593

- F.52 R. Vladoiu**, M. Contulov, G. Musa Double Monochrome Signal (Double M-Effect) In Pulsed Ne-Ar-H₂ Mixture Discharges **CHEMICKE LISTY**, (2008), Vol 102 Special Issue: SI 4 Pages: S1452-S1455, IF 0.593
- F.53 J. D.Skalny**, J.Orszagh, G. Horvath, N. J. Mason, **R. Vladoiu** *The DC corona discharges in flowing dry and humid carbon dioxide* , **J. OF OPTOEL. AND ADV. MATER**, 2008,, Vol. 10, Issue: 1, P 117-123, ISSN: 1454-4164, IF 0.577
- F.54 S.Pat**, N.Ekem, Z. Balbag, M. Cenik, **R. Vladoiu**, G. Musa, *M-effect generating of two-spectral lines* , **J. OF OPTOEL. AND ADV. MATER** 2008,Vol.10, Issue: 1, P 229-231, IF 0.577
- F.55 G. Musa**, **R. Vladoiu**, M. Contulov, V. Dinca *Reports on the M-effect - General character and explanation of the involved elementary processes*, **ROMANIAN REPORTS IN PHYSICS** (2008),Vol: 60,Issue: 3, P: 627-634 , ISSN: 1221-1451, IF0.458
- F.56 G.Musa**, C.Surdu-Bob, **R.Vladoiu**, *A double monochromatization effect in low temperature plasmas* , **J. OF OPTOEL. AND ADV. MATER** 2007, Vol. 9, Issue: 8, P 2653-2656, ISSN: 1454-4164, IF0.827
- F.57 C. Surdu-Bob**, G.Musa, **R. Vladoiu**, C. P.Lungu, *The synthesis of DLC using a novel cathodic arc technique: Gas-TVA* , **J. OF OPTOEL. AND ADV. MATER**, 2007, Vol. 9, Issue: 8, P 2660-2662, ISSN: 1454-4164, IF0.827
- F.58 R.Vladoiu**, V.Ciupina, C. Surdu-Bob, C. P. Lungu, J. Janik, J. D. Skalny, V. Bursikova, J. Bursik, G.Musa *Properties of the carbon thin films deposited by thermionic vacuum arc* , **J. OF OPTOEL. AND ADV. MATER** 2007Vol. 9, Issue: 4, P 862-866, ISSN: 1454-4164, IF0.827
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- F.60 G.Musa**, N.Ekem, S. Pat, M. Z. Balbag, M. I. Cenik, T. Akan, V. Ciupina, **R. Vladoiu**, M. Tanisli, O.Ozen, *Carbon synthesis in methane plasma* , **J. OF OPTOEL. AND ADV. MATER** 2007,Vol. 9, Issue: 4, P 871-874, ISSN: 1454-4164, IF0.827
- F.61 G.Musa**, **R.Vladoiu**, N.Ekem, M. I. Cenik, S.Pat, M. Z.Balbag *Argon emission spectra change at molecular gas addition* , **J. OF OPTOEL. AND ADV. MATER** , 2007, Vol. 9, Issue: 4, P 894-896, ISSN: 1454-4164, IF0.827
- F.62 R.Vladoiu**, C. P. Lungu, I. Mustata, V.Bursikova, J.Bursik, *Characterization by nanoindentation and Scanning Electron Microscopy of the spin valves structures prepared by Thermionic Vacuum Arc (TVA) method*, **JOURNAL OF OPTOELECTRONICS AND ADVANCED MATERIALS** , 2007,Vol. 9, Issue: 4, P 1087-1090, ISSN: 1454-4164, IF0.827
- F.63 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"*, **MATERIALS LETTERS**, (2007) , vol. 61, Issue 1 pag. 23-26, ISSN: 0167-577X, IF 1,625

- F.64** G.Musa, Surdu-Bob, C, **R. Vladoiu**, *Selective emission of a two-spectral lines in a.c. plasmas (M-effect)* **OPTOELECTRONICS AND ADVANCED MATERIALS – RAPID COMUNICATION** (2007), Vol: 1 Issue: 6 P: 305-306 ISSN: 1842-6573, IF0.224
- F.65** J. D Skalny, S Matejcik, J, Orszagh, **R. Vladoiu**, N. J. Mason, *A study of the Physical and Chemical processes Active in Ozone Generation by Carbon Dioxide Fed Corona discharges*”, **OZONE-SCIENCE & ENGINEERING** 2007, Vol 29, Issue 5, p 399-404, ISSN: 0191-9512, IF1.515
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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 in 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 comparativ al calitatii straturilor nanostructurate de carbon depuse prin metodele: arc termoionic in vid, arc catodic si	Proiect 62/2006 CARBOCOMP /CERES -CEEX 2	2006-2008	UOC: 575 000	Director de proiect

	pulverizare magnetron”				
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: 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

12.02.2023

Semnătura,
Prof dr Rodica Vladiu

