

LISTA DE LUCRĂRI – Profesor dr. ing. IONITA Valentin

A – Teza de doctorat

Difuzia campului electromagnetic in medii cu histerezis, prof.dr.doc.ing. C.I. Mocanu, Univ. Politehnica Bucuresti, 1994

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3. C.Covaliu, I.Jitaru, G.Paraschiv, E.Vasile, S.Biris, L.Diamandescu, V.Ionita, H.Iovu – Core-shell hybrid nanomaterials based on CoFe₂O₄ particles coated with

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D – Lucrari publicate in reviste si volume de conferinte cu referenti (neindexate)

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E – Brevete

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F – Contracte

1. Membru - *Nature-inspired micro-fluidic manipulation using artificial cilia* (director Daniel Ioan), contract FP6, coord. Philips Electronics (Eindhoven-Olanda), no. NMP4-CT-2006-033274, 2006-2010
2. Membru - *Nanostructured and amorphous magnetic alloys for high-frequency applications* (director Horia Gavrilă), Executive Prog. of Scientific and Technological Cooperation between Italy and Romania, contract nr.4, 2005-2007
3. Membru - *MAGNAT- Cercetari fundamentale in domeniul modelarii fizice si matematice, al calculului si realizarii unor dispozitive magnetice* (director Horia Gavrilă), grant major de cercetare CNCSIS 3/2C, contract nr. 39731/1998 (MEN) sau 9265/1998 (UPB), 1999-2001;
4. Membru - *PU-MAGNAT- Program de pregatire postuniversitara - studii aprofundate si doctorat, in domeniul magnetismului aplicat si tehnic* (director Horia Gavrilă), grant CNCSIS 76/4D, contract 40625, 2000-2001.
5. Responsabil UPB - *Modelări și simulări privind comportarea în regim dinamic a materialelor magnetice cu proprietăți controlate*, grant CNCSIS tip A-Consortiu, contract 6GR/2006, 2006-2008;
6. Responsabil UPB - *Dezvoltarea unor modele experimentale si numerice de caracterizare a materialelor magnetice cu histerezis*, contract CEEX 78/2006, 2006-2008;
7. Responsabil UPB - *Materiale magnetice cu performanțe superioare utilizate în construcția mașinilor electrice*, contract CEEX 215/2006, 2006-2008;
8. Director - *Studiul prin microscopie magneto-optica a proceselor de micro-si nano-magnetizare din materialele magnetice*, grant CNCSIS, A-362, 2005-2007;
9. Responsabil UPB - *Metoda experimentală pentru studiul materialelor cu proprietati magnetice prin efect magneto-optic Kerr*, contract CEEX 33/2005, 2005-2008;
10. Director - *Analiza configuratiilor statice si dinamice de magnetizatie in materialele magnetice prin efect magneto-optic Kerr*, contract PNCDI – proiect CERES nr. 4-135/2004, 2004-2006;

11. Responsabil UPB - *Instalatie de conversie energetica neconventionala de mica putere, bazata pe integrarea unor materiale avansate si solutii tehnologice noi*, contract PNCDI – RELANSIN nr. 1804/2003, 2003-2005;
12. Director - *Caracterizarea vectoriala a materialelor magnetice in calculul de inalta performanta al campului electromagnetic*, grant CNCSIS, A-480, 2002-2004;
13. Director - *Metode avansate de caracterizare a materialelor magnetice cu histerezis*, grant CNCSIS (Consiliul National al Cercetarii Stiintifice din Invatamantul Superior), contracte 37124/2000 (AT-201) si 34967/2001 (AT-10), 2000-2001;
14. Director - *Biblioteca informatica de materiale magnetice cu histerezis pentru calculul de inalta performanta a dispozitivelor electromagnetice*, grant ANSTI/MEC, contract nr.6111/2000, tema B-38 / A-36, 2000-2001;
15. Expert termen scurt - *Dezvoltarea unui sistem operational al calificărilor din învățământul superior din România*, coordonator: Agenția Națională pentru Calificările din Învățământul Superior și Parteneriat cu Mediul Economic și Social (ACPART), proiect POSDRU nr. 2/1.2/S/2, 2009 – 2010,
16. Expert termen lung – *Program strategic pentru promovarea inovarii in servicii prin educatie deschisa, continua – INSEED*, coordonator: Universitatea Politehnica din Bucuresti (prof. T. Borangiu), proiect POSDRU nr. 86/1.2/S/57748, 2010 – 2013,
17. Membru - *Sistem micro-electro-mecanic cu aplicații în reconstrucția microchirurgicală a nervilor periferici (RECONNECT)* (director Horia Gavrilă), contract PC 72-160/1.10.2008, 2008-2011.
18. Membru - *Biochip microfluidic pentru caracterizarea reologică a fluidelor biologice ne-newtoniene cu aplicații în diagnoză și tratament medical (MELANOCHIP)* (director Horia Gavrilă), contract PC 12-094/1.10.2008, 2008-2011
19. Membru - *Sistem microfluidic integrat pentru analiza în vitro a fluidelor biologice cu aplicații în diagnoză și tratament medical* (director Horia Gavrilă), contract CEEEX 27/2005, 2005–2008
20. Membru - *Aprofundarea cunoștințelor de spintronică prin dezvoltarea fizicii compușilor Heusler ajustabili* (director Horia Gavrilă), contract CEEEX 69/2005, 2005–2008
21. Membru - *Cercetări fundamentale și aplicative în domeniul materialelor multi-funcționale nanostructurate* (director Horia Gavrilă), grant CNCSIS tip A-Consoțiu, tema 1, cod CNCSIS 97, 2005-2007
22. Membru - *Sistem de servicii pentru documentare, informare si transfer al informatiilor tehnice, economice, juridice, armonizate UE, in sectorul industrial* (director Horia Gavrilă), contract PNCDI – proiect RELANSIN nr.1053/2004, 2004-2006;
23. Membru - *Mijloace de protectie complexa la interferenta electromagnetica, pe nave militare* (director Horia Gavrilă), contract PNCDI – proiect CERES nr.4-134/2004, 2004-2006;

24. Membru - *Reducerea amprentei magnetice a navei militare in scopul protectiei impotriva campurilor de mine marine* (director Horia Gavrilă), contract PNCDI – proiect CERES nr.3-101/2003, 2003-2005;
25. Membru - *Soluții de creștere a densității de înregistrare în sistemele de disc magnetic dur pentru înregistrarea magnetică a informației* (director Horia Gavrilă), grant CNCSIS, A-15, 2003-2005;
26. Membru - *Solutii noi de optimizare a ecranelor de protectie pentru radiatii electromagnetice neionizante in gama extinsa de frecventa 500 kHz-10 GHz* (director Horia Gavrilă), contract PNCDI – proiect CERES nr. 64/2002, 2002-2004;
27. Membru - *Contributii la studiul mediilor particulare de inregistrare magnetica a informatiei* (director Horia Gavrilă), grant ANSTI/CNCSIS, contract 6111/2000 (B-11), act ad.I/2001 (A-8) si 33784/2002 (A-184), 2000-2002;
28. Membru - *Metode avansate de calcul numeric al campului magnetic in medii neliniare si cu histerezis* (director Horia Gavrilă), grant CNCSU, A-764, 1998-1999;
29. Membru - *Studiul unor metode de prevenire a posibilitatilor de inregistrare eronata, voita sau accidentala, a cartelelor magnetice de acces la metrou* (director Horia Gavrilă), contract MCT nr. 836/1996 (B-71), act aditional 712/III/1997 (A-117) si act aditional 631/I/1998 (A-119), 1996-1998;
30. Membru - *Studii de fundamentare teoretica a proceselor de magnetizare in mediile de inregistrare magnetica a informatiei*(director Horia Gavrilă) , grant CNCSU (Consiliul National al Cercetarii Stiintifice Universitare), contracte 4001/1995 (B-75), 5001/1996 (B-277), 1995-1996;
31. Membru - *Studiul teoretic si realizarea practica a unor dispozitive de determinare a caracteristicilor magnetice ale materialelor, cu integrarea unor metode si tehnici moderne de proiectare* (director Horia Gavrilă), contract MCT (Min. Cercetarii si Tehnologiei) nr. 510-B/1995 (B-30), 836/1996 (A-45) si 836/1997 (A-53) 1995-1997;