

Lista lucrarilor publicate:

Cărți:

1. I.G. Deac, „Elemente de criogenie” Ed. NapocaStar, 2010, ISBN 978-973-647-715-7, 243p
2. I.G. Deac, "Temperaturi ultrajoase în fizica experimentală a solidului", Ed. NapocaStar, 2003, ISBN 973-647-125-x, 222p

1. Articole publicate in reviste de specialitate cotate ISI (SUA, Web of Science).

1. A. Bezerghheanu, G. Scutaru, IG Deac, CB Cizmas, Structural, magnetic and magnetocaloric properties of $R_{2/3}Ba_{1/3}MnO_3$ ($R = La, Pr$) manganites, *J. Optoelectron. Adv. M.* 17 (2015) 1128-1133.
2. A. Varvescu, *IG Deac*, Critical magnetic behavior and large magnetocaloric effect in $Pr_{0.67}Ba_{0.33}MnO_3$ perovskite manganite, *Physica B*, 470 (2015) 96-101
3. Dudric, R, Vladescu, A, Rednic V., Neuman, M., *Deac, I.G.*, Tetean, R. XPS study on $La_{0.67}Ca_{0.33}Mn_{1-x}Co_xO_3$ compounds *J. Mol. Struct.* 1073 (2014) 66-70.
4. *I.G. Deac*, A. Vladescu, Magnetic and magnetocaloric properties of $Pr_{1-x}Sr_xCoO_3$ cobaltites, *Magn. Magn. Mater.* 365, (2014) 1-7.
5. *I.G. Deac*, I Balasz, Electroresistance, magnetocapacitance and magnetotransport properties of $La_{0.55}Ca_{0.45}MnO_3/BaTiO_3$ composite, *Materials Chemistry and Physics*, 136 (2012) 850-857.
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7. Mihalache, V., *Deac, I.G.*, Pop, A.V., Miu, L. The pinning force density in polycrystalline $Bi_{1.8}Pb_{0.4}Sr_{2-x}Y_xCu_3O_y$ multiphase systems, *Current Applied Physics* 11(2011) 1010-1014.

8. Rednic, L., Coldea, M., *Deac, I.G.*, Rednic, V., Aldea, N. Magnetic clusters development in oxidized CeNi₅ powder, *Modern Physics Letters B*, 25 (2011) 11-20
9. *Deac, I.G.*, Vlădescu, A., Balasz, I., Tunyagi, A., Tetean, R., Low temperature magnetic properties of Pr_{0.7}(Ca,Sr)_{0.3}CoO₃ oxides, *Acta Physica Polonica A* 120, (2011) 306-310.
10. Grasin, R., Vinteler, E., Bezerghianu, A., Rusu, C., Pacurariu, R., *Deac, I.G.*, Tetean, R., *Acta Physica Polonica A* 118, (2010) 648-651.
11. *I G. Deac*, A. Vladescu, I. Balasz, A. R. Tunyagi, R. Tetean, Electrical and magnetic properties of transition metal oxides Ln_(1-x)A_(x)MO₍₃₎ (Ln = Pr, Nd; A = Ca, Sr; M = Mn, Co), *J. Optoelectron. Adv. M.* 12(2010) 1818.
12. *I G. Deac*, I. Balasz, A. Vladescu, A. R. Tunyagi, R. Tetean, Electrical and magnetic behavior of transition metal oxides Ln_(0.7)A_(0.3)TMO₍₃₎ Ln = La, Pr; A = Ca, Sr and TM = Mn, Co, *Int. J. Mod. Phys.* 24 (2010).
13. *I.G. Deac*, R. Tetean, I. Balasz, E. Burzo, Low-temperature magnetic ordering in the perovskites Pr_(1-x)A_(x)CoO₍₃₎ (A = Ca, Sr), *J. Magn. Magn. Mater.* 322 (2010) 1185.
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15. E. Burzo, I. Balasz, *I.G. Deac*, Romulus Tetean, Magnetic properties and magnetocaloric effects in ferrimagnetic compounds, *J. Magn. Magn. Mater.* 322 (2009) 1109.
16. Y.A. Ying, K.A. Nelson, *I.G. Deac*, P. Schiffer, P. Khalifah, R.J. Cava, Y. Liu, Possible observation of quantum ferromagnetic fluctuations in La₄Ru₆O₁₉, *Physical Review B* 80 (2009) 024303.
17. R. Tetean, *I.G. Deac*, E. Burzo, A. Bezerghianu, Magnetocaloric and magnetoresistance properties of La_{2/3}Sr_{1/3}Mn_{1-x}Co_xO₃ compounds, *J. Magn. Magn. Mater.* 320 (2008) E179.
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22. R. Tetean, L. Chincel, E. Burzo, N. Bucur, A. Bezerghianu, *I.G. Deac*, The effect of lanthanide impurities on the physical properties of half-metallic ferromagnet Co₂MnSi, *Applied Surface Science* 255 (2008) 685.

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25. R. Tetean, E. Burzo and *I.G. Deac*, Magnetic properties of cobalt in $\text{TbCo}_{3-x}\text{Cu}_x$ intermetallic compounds, *J. Alloys Compd.* 442 (2007) 206.
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29. *I.G. Deac*, R.V. Tetean , M. Miron and E. Burzo , Dynamic response of magnetic ions in the colossal magnetoresistance manganites $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$, *Physica Status Solidi B* **243**, 120, (2006).
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32. C. Sbârciog, R.T. Redac, *I. G. Deac*, I. Pop, Intergranular Properties of Zr-Substituted Y123 Compounds, *Modern Physics Letters B* 20 (2006) 1191-1198.
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58. *I.G. Deac*, Design and Performance Test of Miniature Stirling Cryocooler, *Cryogenics*, **34** , (1994) 19.

2. Articole in reviste de specialitate ale Academiei Romane.

1. M.Miron, C. Vaju, V.Pop, R. Tetean, *I.G. Deac*, E.Burzo Physical properties of $(\text{Y}_{1-x}\text{Ca}_x)\text{Ba}_2\text{Cu}_{3-y}\text{Cr}_y\text{O}_{7-\delta}$ superconducting compounds, *Romanian Reports in Physics*, **53** (2001) 555.
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3. Articole publicate in reviste cu referenți ale universitatilor (BDI)

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3. O. Florea, I. Balasz, I.G. Deac, Enhanced extrinsic magnetoresistance in $\text{La}_{0.8}\text{Pb}_{0.2}\text{MnO}_3/\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3$ ceramic composites, *Studia Univ.Babes-Bolyai, Physica* , LIV (2010) 59-67.
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4. Articole publicate in reviste de specialitate din străinătate necotate ISI si unele reviste de specialitate din țară cu referenți.

1. Markina, M.M. , Zakharov, K.V., Vasil'ev, A.N., Balasz, I., **Deac, I.**, Burzo, E. Thermal and Magnetic Properties of $\text{La}_{1-x}\text{Pb}_x\text{MnO}_3$, *Bulletin of the Russian Academy of Sciences: Physics* 75 (2011) 190-192.
2. **Deac, I.G.**; Balasz, I., Andreica, D., Dudric R., Vladescu, A., Tunyagi, A.R., Burzo E., Magnetic transitions in the perovskites $\text{Pr}_{1-x}\text{Sr}_x\text{CoO}_3$, *Journal of Physics: Conference Series*, 200 (2010) 052003_1-4.
3. **I G Deac**, A. Deac "Dependenta, susceptibilitatii magnetice ac a filmelor subtiri supraconductoare de intensitatea campului magnetic ac aplicat",*Analele Universitatii din Oradea, Fizica-B, Tom X* (2000)56.

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5. Lucrari apărute în proceedings-uri ale unor conferințe științifice internaționale.

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2. **Deac I.Gr.**, 'Miniature Split-Stirling Cycle Cryocooler for Infrared Detectors', *Proc.of the 2nd International Conference-Cryogenics, '92"* Brno (1992).p.60
3. **Deac I.Gr.**, Iorga G., Vasinca I., Sicoe, "Joule-Thomson minirefrigerator for electronic devices" *Proc.of the 1st International Conference Cryogenics '90*, Kosice, (1990) p.249
4. C. Dobrota, E. Harsan, A. Balogh, M. Yamasahita, R. Tetean, **I. Deac** "Utilisation of inorganic substrata and production of organic substrates by non-differentiated plant tissue cultures cultivated in low magnetic field", *Proc. of the Second European Workshop on Exo/Astrobiology* September 16 - 20, 2002, Graz, Austria

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