

## Conf. dr. Iosif G. Deac

### 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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9. *Deac, I.G.*, Vladescu, A., Balasz, I., Tunyagi, A., Tetean, R., Low temperature magnetic properties of  $Pr_{0.7}(Ca, Sr)_{0.3}CoO_3$  oxides, *Acta Physica Polonica A* 120, (2011) 306-310.

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13. I.G. Deac, R. Tetean, I. Balasz, E. Burzo, Low-temperature magnetic ordering in the perovskites  $\text{Pr}_{(1-x)}\text{A}_{(x)}\text{CoO}_{(3)}$  ( $\text{A} = \text{Ca, Sr}$ ), *J. Magn. Magn. Mater.* 322 (2010)1185.
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17. R. Tetean, I.G. Deac, E.Burzo, A. Bezerghianu, Magnetocaloric and magnetoresistance properties of  $\text{La}_{2/3}\text{Sr}_{1/3}\text{Mn}_{1-x}\text{Co}_x\text{O}_3$  compounds, *J. Magn. Magn. Mater.* 320 (2008) E179.
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## **2. Lucrari publicate în documentele unor conferințe – indexate Web of Knowledge-având cel puțin 4 pagini per lucrare:**

1. I.G. Deac, "Stirling cooler for for non-CFC applications, *RESEARCH, DESIGN AND CONSTRUCTION OF REFRIGERATION AND AIR CONDITIONING EQUIPMENTS IN EASTERN EUROPEAN COUNTRIES* **Book Series: REFRIGERATION SCIENCE AND TECHNOLOGY, Pages: 221-225, Published: 1996, Publisher: INT INST REFRIGERATION, 177 BLVD MALESHERBES, F-75017 PARIS, FRANCE ISSN: 0151-1637** (5 pagini)
2. I.G. Deac, D. Iuga, R. Zapotinschi, "Measurements of the thermal properties of some common cryostat materials, at low temperatures *RESEARCH, DESIGN AND CONSTRUCTION OF REFRIGERATION AND AIR CONDITIONING EQUIPMENTS IN EASTERN EUROPEAN*

*COUNTRIES*, **Book Series: REFRIGERATION SCIENCE AND TECHNOLOGY**, **Pages:** 248-251, **Published: 1996, Publisher:** INT INST REFRIGERATION, 177 BLVD MALESHERBES, F-75017 PARIS, FRANCE **ISSN: 0151-1637**(4 pagini).

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4. I.G. Deac, R. Tetean, E. Burzo , Phase separation in transition metal oxides  $\text{Ln}_{(2/3)}\text{A}_{(1/3)}\text{MO}_3$ ,  $\text{Ln} = \text{La, Pr}$ ;  $\text{A} = \text{Ca, Sr}$  and  $\text{M} = \text{Mn, Co}$ , *5th International Conference on New Research Trends in Materials Science* **Location:** Sibiu, ROMANIA **Date:** SEP, 2007 *J. Optoelectron. Adv. M.* **Volume:** 10 **Issue:** 4 **Pages:** 853-856 **Published:** APR 2008, **ISSN:** 1454-4164 (4 pagini).
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### **3. Lucrari publicate în documentele unor conferințe - neindexate în Web of Knowledge sau Scopus- având cel puțin 4 pagini per lucrare:**

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#### 4. 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  $(Y_{1-x}Ca_x)Ba_2Cu_{3-y}Cr_yO_{7-\delta}$  superconducting compounds, Romanian Reports in Physics, 53 (2001) 555.
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#### 5. Articole publicate in reviste cu referenți ale universitatilor (BDI)

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5. **Deac I.Gr.**, Iorga G., Miron Z.,"Sisteme criogenice miniaturale", *Constructia de masini*, (in Romanian) vol.40 ,(1988) 208.
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## 7. Lucrari apărute în proceedings-uri ale unor conferințe științifice internaționale.

1. **Deac I.Gr.**, 'Miniature Stirling Cycle Cryocooler for Cryogenic Sensors', *Proc.of the 6th International Stirling Engines Conference*, Eindhoven, (1993), p.173
2. **Deac I.Gr.**, 'Miniature Split-Stirling Cycle Cryocooler for Infrared Detectors', *Proc.of the 2nd International Conference-Cryogenics, '92'* Brno (1992).p.60
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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

## 8 Material didactic/Lucrări didactice:

### 8.1 Manuale didactice (în format electronic) :

<http://www.phys.ubbcluj.ro/~iosif.deac/courses.html>

1. Fizica corpului solid
2. Tehnologii criogenice
3. Fenomene de transport in solid (Transport phenomena in solids)
4. Complementary de fizica solidului (Advanced solid state physics)
5. Oscilatii si unde

### 8.2 Indrumatoare de laborator/ material didactic :

<http://www.phys.ubbcluj.ro/~iosif.deac/courses.html>

1. I. G. Deac, Ghid de laborator pentru cursul de "Tehnologii criogenice", UBB 2016.
2. I. G. Deac, Modele de proiecte și probleme rezolvate pentru cursul de "Tehnologii criogenice" UBB 2016.

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Iosif-Grigore Deac