

Dr. Ing. Hirian Răzvan, listă publicații

1. **R. Hirian**, S. Mican, O. Isnard, L. Barbu-Tudoran, V. Pop, "Influence of microstructure on the interphase exchange coupling of $\text{Nd}_2\text{Fe}_{14}\text{B}+10\text{wt}\%\alpha\text{-Fe}$ nanocomposites obtained at different milling energies", *J. Alloy. Compnd.* **697** (2017) 19-24, [\(Q1\)](#)
2. **R. Hirian**, O. Isnard, V. Pop, D. Benea, „Investigations on the magnetic properties of the $\text{Fe}_{5-x}\text{Co}_x\text{SiB}_2$ alloys by experimental and band structure calculation methods”, *J. Magn. Magn. Mater.* **505** (2020) 166748 [\(Q2\)](#)
3. J. Kaštil, **R. Hirian**, O. Isnard, „Effect of pressure on the magnetic and structural properties of Fe_5SiB_2 compound”, *Intermetallics* **110** (2019) 106484 [\(Q1\)](#)
4. R. Gavrea, **R. Hirian**, S. Mican, D. Benea, O. Isnard, M. Coldea, V. Pop, „Structural, electronic and magnetic properties of the $\text{Mn}_{54-x}\text{Al}_{46}\text{Ti}_x$ (x 1/4 2; 4) alloys” *Intermetallics*, **82** (2017) 101, [\(Q1\)](#)
5. **R. Hirian**, R. Dudric, O. Isnard, L. Barbu-Tudoran, V. Pop, „Influence of heat treatment, near the temperature region of Fe α - γ transformation, on the interphase exchange coupling of $\text{Nd}_2\text{Fe}_{14}\text{B}+\text{Fe}$ nanocomposites” *J. Magn. Magn. Mater.* **520** (2021) 166960 [\(Q2\)](#)
6. **R. Hirian**, R. Dudric, O. Isnard, K. Kuepper, M. Coldea, L. Barbu-Tudoran, V. Pop, D. Benea, „Effects of the C interstitial doping on the magnetic properties of LTP MnBi”, *J. Magn. Magn. Mater.* **532** (2021) 167997 [\(Q2\)](#)
7. **R. Hirian**, A. Bolinger, O. Isnard, V. Pop, „Influence of high anisotropy phase on the properties of hard–soft magnetic nanocomposite powders obtained by mechanical milling” *Powder. Metal.* **61** (2018) 389 [\(Q2\)](#)
8. A. Chakraborty, **R. Hirian**, G. Kapun, V. Pop, „Magnetic Properties of $\text{SmCo}_5 + 10\text{wt}\% \text{Fe}$ Exchange-Coupled Nanocomposites Produced from Recycled SmCo_5 ” *Nanomaterials* **10** (2020) 1308 [\(Q2\)](#)
9. **R. Hirian**, B. V. Neamțu, A. Ferenczi , O. Isnard, I. Chicinaș, V. Pop „Effect of Spark Plasma Sintering on The Interphase Exchange Coupling in $\text{SmCo}_5+20\%\text{Fe}$ Hard/Soft Nanocomposites”, *Rom. J. Phys*, **65** (2020) 603, [\(Q3\)](#)
10. S. Mican, D. Benea, **R. Hirian**, R. Gavrea, O. Isnard, V. Pop, M. Coldea, „Structural, electronic and magnetic properties of the $\text{Mn}_{50}\text{Al}_{46}\text{Ni}_4$ alloy” *J. Magn. Magn. Mater.* **401** (2016) 841 [\(Q2\)](#)