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1. Research activity:

- **□ Fundamental research**
- **□ Applicative research**
- **□ Development of the human resources for research**

2. Research - main domains:

- **□ nanosciences, nanotechnologies, materials & new production technologies**
- **□ health**

- **environment**
- **information & communication technologies**
- **energy**
- **transport**

3. Research - thematic areas:

- **new advanced materials for special purposes**
- **new advanced processing technologies**
- **industrial engineering and management**

- **biomedical engineering**
- **environment engineering for sustainable development**
- **inland shipping**
- **logistics**

4. Research - performance indicators for 2006 -2011 period:

- **ISI articles and ISI proceedings papers: 70**

□□□□ - **materials engineering: 26**

□□□□ - **industrial engineering: 24**

□□□□ - **environment engineering: 12**

□□□□ - engineering and management: 8

- **BDI articles: 39**

□□□□ - materials engineering: 18

□□□□ - industrial engineering: 12

□□□□ - environment engineering: 4

□□□□ - engineering and management: 5

- **Books and education materials: 31**

□□□□ - materials engineering: 8

□□□□ - industrial engineering: 12

□□□□ - environment engineering: 4

□□□□ - others: 7

- Patents: 9

□□□□ - materials engineering: 7

□□□□ - industrial engineering: 2

- Medals: 2

□□□□ - materials engineering: 2

- PhD coordinator: 1

□□□□ - materials engineering: 1 - Prof. Mihail Mangra

- PhD theses: 12

□□□□ - materials engineering: 9

□□□□ - industrial engineering: 3

5. Medals:

- Bronze medal, Biocomposite material and processing for obtaining the same, O.S.I.M., Bucuresti, Romania, no.A/00318/2010, Gingu, O., Pascu. C.I., Lupu, N., Benga G.C., International Trade Fair “Ideas – Inventions – New Products” iENA 2012, Nuremberg, Germany, 1-4 Nov. 2012.
- Silver medal, Biocomposite material and processing for obtaining the same, O.S.I.M., Bucuresti, Romania, no.A/00318/2010, Gingu, O., Pascu. C.I., Lupu, N., Benga G.C., International Trade Fair of reseach, Innovation and Invention PROINVENT 2012, Cluj-Napoca, Romania, 27-30 March 2012.

□ 6. Patents:

- Materials engineering:

- Biocomposite material and processing for obtaining the same, O.S.I.M., Bucuresti, Romania, no.A/00318/2010, Gingu, O., Pascu. C.I., Lupu, N., Benga G.C.

- **Biocomposite material and processing for obtaining the same, O.S.I.M., Bucuresti, Romania, no.A/00317/2010, Pascu, C.I., Gingu, O., Ciupitu, I., Rotaru, P.**
- **Plate of metallic foam-rubber composite material mechanically attached to the table tennis bat and process for making the same , O.S.I.M., Bucuresti, Romania, no. A/00117/2010, Mangra, G.I., Gingu, O.**
- **Elaboration method of sintered carbon steels and sintered carbon steel obtained by that, O.S.I.M., Bucuresti, Romania, no. 122678, A/2007 00534, Mangra, M., Ghermec, C.V., Popescu, T.V., Deliu, Gh.**
- **Alloyed sintered steel and method of elaboration, O.S.I.M., Bucuresti, Romania, no. 121969, A/2005 00856, Popescu, T.V.**
- **Method of elaboration of sintered pieces based on Fe, having hardened surface, O.S.I.M., Bucuresti, Romania, no. 121962, A/2005 00857, Popescu, T.V.**

- Carbon steel sintered plate and method of elaboration, O.S.I.M., Bucuresti, Romania, no. 119183, A/2001 01373, Popescu, T.V., Mangra, M., Vida-Simiti, I.

- Industrial engineering:

- System for viewing and guiding of endoscopy processes, O.S.I.M., Bucuresti, Romania, no. A/01433-22-12-2011, L. Gruionu, A. Saftoiu, G. Gruionu, A.-M. Ioncica, D. Burtea

- Roto-translation hydraulic motor, O.S.I.M., Bucuresti, Romania, no. 117123/2001, 98-01368/1998, Mutu, Gh.D., Popescu, T.V.

7. Contact person:

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