**Dissemniation of the scientific results**

**2012**

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- E. Popovici, C. Luculescu, *R. Alexandrescu*, C. Fleaca, F. Dumitrache, R. Barjega, M. Scarisoreanu, E. Duta, A. Barbut, I. Morjan , **Development of systems for the laser synthesis of nanoparticles starting from liquid precursors**, Applied Surface Science (Elsevier) Volume 258, Issue 23, 15 September 2012, Pages 9326–9332,

- M. Scarisoreanu, *R. Alexandrescu*, I. Morjan, R. Birjega, C. Luculescu, E. Popovici, E. Dutu, E. Vasile, V. Danciu, N. Herlin-Boime, **Structural evolution and optical properties of C-doped TiO2 nanoparticles prepared by laser pyrolysis,** Applied Surface Science (Elsevier) , 2012, in press

- *R. Alexandrescu,* I. Morjan, F. Dumitrache, M. Scarisoreanu, C. T. Fleaca, I. P. Morjan, A. D. Barbut, R. Birjega,G. Prodan, **Development of TiO2 and TiO2/Fe-based polymeric nanocomposites by single-step laser pyrolysis**, Applied Surface Science (Elsevier) 278 (2013) 305-312

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-M. Scarisoreanu, *R. Alexandrescu*, I. Morjan, R. Birjega, C. Luculescu, E. Popovici, E. Dutu, E. Vasile, V. Danciu, N. Herlin-Boime, **Structural evolution and optical properties of C -doped TiO2 nanoparticles prepared by laser pyrolysis** E-MRS 2012 Spring Meeting, Strasbourg, May 14-18, 2012

-*R. Alexandrescu*, I. Morjan, F. Dumitrache, M. Scarisoreanu, C. T. Fleaca, I. P. Morjan, A. D. Barbut, R. Birjega,G. Prodan, **Development of TiO2 and Ti/Fe-based polymeric nanocomposites by single-step laser pyrolysis**, E-MRS 2012 Spring Meeting, Strasbourg, May 14-18, 2012

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***C.T. Fleaca*** , ***M. Scarisoreanu*** , I. Morjan, *R. Alexandrescu*, F. Dumitrache, C. Luculescu, I.P. Morjan, R. Birjega, A.-M. Niculescu, G. Filoti, V. Kuncser, E. Vasile, V. Danciu and M. Popa, **Recent progress in the synthesis of magnetic titania/iron-based composite nanoparticles manufactured by laser pyrolysis,** Applied Surface Science. 302 (2014) 198-204

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**2014**

***Articles published in ISI –quoted journals - 2014:***

- C.T. Fleaca, M. Scarisoreanu, I. Morjan, C. Luculescu, A.-M. Niculescu, A. Badoi, E. Vasile, G. Kovacs “**Laser oxidative pyrolysis synthesis and annealing of TiO2 nanoparticles embedded in carbon-silica shells/matrix**” *-* Applied Surface Science, accepted 2014

- M. Scarisoreanu, C.-T. Fleaca, , I. Morjan., I.P. Morjan, A-M..Niculescu, E. Dutu, A.Badoi, R. Birjega, C. Luculescu, E. Vasile, V. Danciu, G. Filoti “**Synthesis and photocatalytic properties of novel multifunctional TiO2-based magnetic nanocomposite** – Applied Surface Science , under revision

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- C. Fleaca***,*** M. Scarisoreanu, I. Morjan, C. Luculescu, A.-M. Niculescu, F. Dumitrache, .E. Vasile, V. Danciu, M. Popa “**One-step laser pyrolysis synthesis of TiO2**

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- M. Scarisoreanu, I. Morjan., C.-T. Fleaca, I.P. Morjan, A-M..Niculescu, E. Dutu, A.Badoi, R. Birjega, C. Luculescu, E. Vasile, V. Danciu, G. Filoti “**Synthesis and photocatalytic properties of novel multifunctional TiO2-based magnetic nanocomposite**’’ E-MRS Spring Meeting, Lille, France, May 26-30, 2014

**2015**

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**2016**

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**1*.*** C. Fleaca, M. Scarisorean, I. Morjan, C. Luculescu, A.-M. Niculescu, E. Dutu, G. Filoti, E. Vasile “**Structural, magnetic and optical properties of Fe-doped titania-silica nanoparticles synthesized by laser pyrolysis in oxygen-deficient environments from vapor-phase precurs**” E-MRS Spring Meeting, Lille, France, May 2-6, 2016

**2**. M. Scarisoreanu, C. Fleaca, I. Morjan, A.-M. Niculescu, C. Luculescu, I. Morjan, E. Dutu, A. Ilie, E. Vasile, I. Fort “**High photocatalytic performances of TiO2/SnO2 nanocomposites prepared by laser pyrolysis**” E-MRS Spring Meeting, Lille, France, May 2-6, 2016

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