

Irina Mihaela Pelin

Researcher

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Research topics: organic/inorganic composites, calcium orthophosphates (hydroxyapatite), modification of polysaccharides, biomaterials.

Researcher ID: B-6030-2012

Scientific research: 25 ISI articles, 1 book chapter, 144 citing articles (131 without self-citations), more than 40 participations at national/international conferences, director of a young PhD Student project and of a Postdoctoral research project, member in 14 national and 2 bilateral projects, and beneficiary of a postdoctoral fellowship at INSA Lyon- France (2009-2010).

Relevant articles:

- 1) M. Socka, A. Michalski, I.M.Pelin, A.Pawlak, F.Tanasa, T.Biela, M.Basko
Preparation of biomimetic composites of hydroxyapatite and star-shaped poly(2,2-dimethyl trimethylene carbonate)s terminated with carboxyl end-groups
Polymer 186, 122078, **2020**
DOI: 10.1016/j.polymer.2019.122078
- 2) I.M. Pelin, V. Maier, D.M. Suflet, I. Popescu, R.N. Darie-Nita, M. Aflori, M. Butnaru
Formation and characterization of calcium orthophosphates in the presence of two different acidic macromolecules
J. Cryst. Growth 475, 266 – 273, **2017**
DOI: 10.1016/j.jcrysgro.2017.07.002
- 3) I.M. Pelin, T. Buruiana, V. Melinte, S. Descartes, A-M. Trunfio-Sfarghiu, P. Farge
A novel light-cured dental material based on maleic copolymer functionalized with urethane derivative for dental applications
Int. J. Polymer Mater. Polymer. Biomater. 64, 551 – 562, **2015**
DOI: 10.1080/00914037.2014.996704
- 4) I.M. Pelin, I. Popescu, D.M. Suflet, M. Aflori, V. Bulacovschi
Influence of maleic acid copolymers on calcium orthophosphates crystallization at low temperature
J. Crystal Growth 377, 127 – 135, **2013**
DOI: 10.1016/j.jcrysgro.2013.04.032
- 5) I.M. Pelin, A-M. Trunfio-Sfarghiu, P. Farge, A. Piednoir, C. Pirat, S.M.M. Ramos
Multiscale characterization of partially demineralized superficial and deep dentin surfaces
Eur. J. Oral Sci. 121, 341 – 348, **2013**
DOI: 10.1111/eos.12058