



## Dr. Mirela TEODORESCU

Researcher

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### RESEARCH TOPICS

- Preparation and characterization of simple and multicomponent polymeric systems in the form of solutions/thin films/nanofibres/hydrogels, by different methods (spin-coating, solution casting, electrospinning, cryogelation, chemical crosslinking), based on synthetic/natural polymers and inorganic compounds (carbon nanotubes, clays, etc.)
- Obtaining biomaterials with various external stimuli responses/delivery of active principles, for potential medical/pharmaceutical/cosmetic applications, or for various other applications in food, textile fields, etc.

### SCIENTIFIC ACTIVITY

- **45** scientific papers, of which: 16 (9 as main author) in ISI journals (cumulative IF = 54.507), 3 (2 as main author) in other journals, 20 (7 as main author) papers in proceedings of conferences (some of them ISI), over **40** participations at international/national scientific events, 1 book (single author), 5 (1 as main author) book chapters. Sum of times cited: **396**, without self-citations: **371**, H-index **9** (cf. ISI Web of Knowledge).
- International awards and diplomas: ***Diploma and Gold Medal Award*** (International Salon of Inventions and New Technologies „New Time”, Sevastopol, Ukraine, September 2012); ***Diploma and Medal „Inventica”*** (The XVI-th International Exhibition of Research, Innovation and Technological Transfer „Inventica 2012”, Iasi, Romania, June 2012); ***Diploma of Honour in recognition of high scientific contribution*** (The XVI-th International Conference „Inventica 2012”, Iasi, Romania, June 2012); ***Diploma of Excellence for Innovative Research*** (EUROINVENT - European Exhibition of Creativity and Innovation – Iasi, Romania, May 2012)

### RELEVANT PUBLICATIONS

- Mirela Teodorescu. *An overview of a year with COVID-19: What we know?*, Electronic Journal of General Medicine, Volume 18, em286 (2021)
- Mirela Teodorescu, Maria Bercea, Simona Morariu. *Biomaterials of PVA and PVP in medical and pharmaceutical applications: Perspectives and challenges*, Biotechnology Advances, Volume 37, Pages 109-131 (2019)
- Mirela Teodorescu, Maria Bercea, Simona Morariu. *Biomaterials of poly(vinyl alcohol) and natural polymers*, Polymer Reviews, Volume 58, Pages 247-287 (2018)
- Mirela Teodorescu, Simona Morariu, Maria Bercea, Liviu Sacarescu. *Viscoelastic and structural properties of poly(vinyl alcohol)/poly(vinylpyrrolidone) hydrogels*, RSC Advances, Volume 6, Pages 39718-39727 (2016)
- Mirela Teodorescu, Maria Bercea. *Poly(vinylpyrrolidone)-a versatile polymer for biomedical and beyond medical applications*, Polymer-Plastics Technology and Engineering, Volume 54, Pages 923-943 (2015)