

**Dr. Marius SOROCEANU**  
(UEFISCDI ID (UEF-ID): U-1700-031V-9923)  
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**Brainmap codes:** U-1700-031V-9923

**Specialist** in conjugated polymers with semiconducting properties suitable for electronic and optoelectronic applications: thin polymer films based on polysilanes, film surface topography, conductivity, polymer-metal adhesivity, plasma treatment, photophysical properties (including the optical bandgap or Urbach energy calculation). I have experience in materials characterization using methods such as: infrared spectroscopy, proton and carbon nuclear magnetic resonance, thermogravimetric measurements, surface tension measurements, scanning electron microscopy, atomic force microscopy, differential scanning calorimetry etc.

**Scientific activity:**

**11 scientific referred articles** published in ISI journals

**4 oral presentations** and **18 posters** at national and international conferences

**Scientific visibility:** H-index: 3 (according to ISI Web of Science, Scopus, Google Scholar); Sum of the times cited: 57 (according to ISI Web of Science). Member in **3 projects:** Bilateral Romanian-Moldavian project PN-II-CT-RO-MD-2012-1-687, theme: “*Nanocomposite materials composed of interpenetrate layers of semiconducting polymers designed for sensors and luminescent diodes*”; PN-II-PT-PCCA-2013-4-0656, theme “*Monitoring the structural integrity and self-healing of the wind turbine blades and other devices made of smart composite*”; PN-III-P1-1.2-PCCDI-2017-0194, theme “*Hydrogen cells: on the way from research to manufacturing by reduced technological barriers*” .

**SELECTED SCIENTIFIC ARTICLES**

1. **M. Soroceanu**, A. I. Barzic, I. Stoica, L. Sacarescu, V. Harabagiu, The influence of polysilane chemical structure on optical properties, rubbed film morphology and LC alignment, *eXPRESS Polymer Letters* (2015), 9(5), 456–468. I.F.= 2.875, SRI=2,239.
2. **M. Soroceanu**, L. Sacarescu, E. G. Hitruc, C. Ursu, V. Harabagiu “Morphological investigation of poly[methyl(H)silane-co-diphenylsilane] irradiated by XeCl excimer laser”, *International Journal of Polymer Analysis and Characterization* (2014), 19(6), 482-488. I.F.=1,426, SRI=0,781.
3. **M. Soroceanu**, A. I. Barzic, I. Stoica, L. Sacarescu, E. G. Ioanid, V. Harabagiu, Plasma effect on polyhydrosilane/metal interfacial adhesion/cohesion interactions, *International Journal of Adhesion and Adhesives* (2017), 74, 131-136. F.I.=2,501, SRI=1.302.
4. L. Sacarescu, M. Fortuna, **M. Soroceanu**, C. Cojocaru, G. Sacarescu, M. Simionescu, V. Harabagiu, Computational study of the electronic absorption spectra of polyhydrosilanes, *Silicon* (2014), 7(4), 343-349. F.I. = 1,21, SRI=0,503.
5. L. Sacarescu, C. Cojocaru, G. Sacarescu, M. Simionescu, **M. Soroceanu**, V. Harabagiu, Thermodegradability of soluble polydiphenylsilane copolymers, *Polymer Degradation and Stability* (2014), 107, 82. F.I. = 3,78, SRI= 2.229.