

m. Dissemination of the obtained results):

Book chapter:

Andrei Sarbu, Tanta-Verona Iordache and Ana-Mihaela Florea, Chapter: **Trends in the Molecular Imprinting of Small Molecules: Organic and Hybrid Polymers**, in the Book: **Molecularly Imprinted Polymers (MIPs): Challenges, Uses and Prospects**, Nova Science Publishers, Inc. New York, USA, 2016

Articles:

1. Anton V. Dyshlyuk, Eugeniy V. Mitsai, Artem B. Cherepakhin, Oleg B. Vitrik, Yuri N. Kulchin, Catherine Branger, Hugues Brisset, Andrei Sarbu, Tanta-Verona Iordache, **Numerical and Experimental Investigation of Surface Plasmon Resonance Excitation Using Whispering Gallery Modes in Bent Metal-Clad Single-Mode Optical Fibre**, Journal of Lightwave Technology, Volume: PP, Issue: 99, 2017, DOI: [10.1109/JLT.2017.2772299](https://doi.org/10.1109/JLT.2017.2772299) FI: 3,671
2. Ana-Mihaela Florea, Tanța-Verona Iordache, Catherine Branger, Hugues Brisset, Anamaria Zaharia, Anita-Laura Radu, Gheorghe Hubca, Andrei Sârbu **One-step preparation of molecularly imprinted hollow beads for pseudohypericin separation from *Hypericum perforatum* L. extracts**, European Polymer Journal, 100: 48-56, 2018, FI: 3,531
3. Elena Ionescu, Tanta-Verona Iordache, Carmen Elena Tebrencu, Ruxandra Mihaela Cretu, Ana-Mihaela Florea, Anita-Laura Radu, Anamaria Zaharia, Andrei Sarbu, **Development of single-step protocols for the separation of naphthodianthrones from St. John's Wort extracts**, Revista de chimie, accepted for publication in vol. 69, nr.8, 2018, FI: 1,232

Comunications:

- 1) Molecular Imprinting Of Gallic Acid: From Conventional To New Approaches Tanta-Verona Iordache¹, Ana-Mihaela Florea¹, Andrei Sarbu^{1*}, Hugues Brisset² (Poster) *9-th International Conference on Molecular Imprinting (MIP2016)*, 26- 30 iunie 2016 Lund, Suedia.
- 2) New Insights On The Obtaining Of Molecularly Imprinted Pearls By Phase Inversion Method Using Pure Hypericin Vs. "Phyto-Template", Ana-Mihaela Florea^a, Andrei Sârbu^{a*}, Tanța-Verona Iordache^a, Anita-Laura Radu^a, Anamaria Zaharia^a, Sandu Teodor^a, Bianca Georgescu^{a,B},

Steluta Apostol^a, Gheorghe Hubca^b, Catherine Branger^c (Poster) *9-th International Conference on Molecular Imprinting (MIP2016), 26- 30 iunie 2016 Lund, Suedia.*

3) A Bisphenol-A Sensor Based On A Ferrocenyl Electrochemical Molecularly Imprinted Polymer Vitalys Mba Ekomo, Hugues Brusset, Georges Istamboulie, Carole Calas- Blanchard, Thierry Noguer, Ana- Mihaela Florea, Andrei Sarbu, Raphael Bikanga, Catherine Branger (prezentare orală) *9-th International Conference on Molecular Imprinting (MIP2016), 26- 30 iunie 2016 Lund, Suedia.*

4) Sensitive polymer layers for biosensors, Andrei Sarbu¹, Tanta Verona Iordache¹, Sandu Teodor¹, Florea Ana Mihaela¹, Sorina Alexandra Garea², Sorin Avramescu³, Corina Bradu³, Carmen Lazau⁴, Catherine Branger⁵, Hugues Brisset⁵, Maruntelu Nicolae⁶, Sorin Pasat⁶, Bianca Georgescu¹ (prezentare orală), *XIIth French-Romanian Polymer Meeting*”, 4-8 Septembrie 2016, *Sophia Antipolis- Franta*

5) „Drug selective nano-layers for surface plasmon resonance-based sensors” Tanta-Verona Iordache, Tanta-Verona Iordache¹, Ana-Mihaela Florea¹, Bianca Georgescu¹, Hugues Brisset², Anita-Laura Radu, Violeta Purcar¹, Raluca Ianchis¹, Stela Iancu¹, Monica Duldner¹, Nicolae Maruntelu³, Andrei Sarbu¹ poster *XIIth French-Romanian Polymer Meeting*”, 4-8 Septembrie 2016, *Sophia Antipolis- Franta*

6) „Synthesis and characterization of novel [N-(2-aminoethyl)-3-aminopropyl trimethoxy silane]-based molecularly imprinted films for bisphenol A recognition” Ana-Mihaela Florea¹, Tanța-Verona Iordache¹, Steluta Apostol¹, Bianca Georgescu¹, Violeta Purcar¹, Cătălin Spătaru¹, Gheorghe Hubca², Catherine Branger³, Monica Duldner¹, Nicolae Maruntelu⁴, Andrei Sârbu¹- poster *XIIth French-Romanian Polymer Meeting*”, 4-8 Septembrie 2016, *Sophia Antipolis- Franta*

7) “Obtaining of molecularly imprinted films via electropolymerization based on [tetrakis(2,2'-bithiophene-5-yl)silane] monomer”, Elena-Bianca Georgescu, Hugues Brisset, Catherine Branger, Ana-Mihaela Florea, Tanța-Verona Iordache, Anita-Laura Radu, Catalina-Paula Spătărelu, Nicolae Maruntelu, Andrei Sârbu 2th *Symposium SICHEM, 08-09.09.2016, Bucuresti, Romania* (prezentare orală).

8) “Preparation of molecularly imprinted sensitive films using a novel monomer for the selective recognition of Bisphenol A”, Elena-Bianca Georgescu^{1,2}, Hugues Brisset², Catherine Branger², Ana-Mihaela Florea¹, Tanța-Verona Iordache¹, Anita-Laura Radu¹, Catalina-Paula Spătărelu¹,

Teodor Sandu¹, Andrei Sârbu¹ *Young Chem-International Congress of Young Chemists*” 05-09 octombrie 2016, Czesłochowa, Polonia

9) "Innovative polymer membranes with active carbon content", T. Sandu, B. Tsyntsarski, A. L. Radu, A. Sarbu, T. Budinova, B. Petrova, N. Petrov, A. M. Florea, T.V. Iordache, S. Apostol, N. Maruntelu, S. Pasat, *17 International Multidisciplinary Scientific GeoConference SGEM 2017, 27 June - 6 July, 2017, Albena, Bulgaria*

10) "Nano- versus Micron-sized molecularly imprinted films for ephedrine recognition", Verona T. Iordache , Ana-Mihaela Florea , Hermine Stroescu , Violeta Purcar , Anita L. Radu , Anamaria Zaharia, Oleg B. Vitrik, Anton V. Dyshlyuk, Bogdan Cursaru, Bianca E. Georgescu, Andrei Sarbu *9th International conference on advanced materials: ROCAM 2017, 11 July - 14 July 2017, Bucharest, Romania*

11) "How molecular imprints affect the morphology and optics of thin films", Tanta-Verona Iordache, Ana-Mihaela Florea, Andrei Sarbu *Bioinspired Materials 2017 conference, 31 July- 01 August 2017, Manchester, United Kingdom*, (prezentare orală)

12) "Polymères et Environnement: des nouvelles perspectives", Andrei Sarbu *Séminaire Franco-Roumain sur la Chimie de l'Eau, 9 noiembrie 2017, Besancon, Franta* (conferința invitată)

13) "Recognition properties of Molecularly imprinted films for Bisphenol A" Tanta Verona Iordache, Anamaria Zaharia, Anita Laura Radu, Hermine Stroescu, Mihai Anastasescu, Teodor Sandu, Steluta Apostol, Monica Duldner, Andrei Sarbu, Nicolae Maruntelu, Ana- Mihaela Florea, *Eupoc 2018, 20-24 May, Como, Italy*.

Patents

1. "Polymer films molecularly imprinted with drugs and procedure for their obtaining" Patent application A 00920/2017 Authors: Sarbu Andrei, Iordache Tanta Verona, Florea Ana- Mihaela, Georgescu Elena- Bianca, Apostol Steluța

2. "Polymer layers molecularly imprinted with bisphenol A, for electrochemical biosensors and procedure for the obtaining of these layers" Patent application A 00950/16.11.2017: Florea Ana-Mihaela, Sarbu Andrei, Iordache Tanta Verona, Georgescu Elena- Bianca, Apostol Steluța