

Sisteme multifunctionale pentru diagnoza si/ sau tratament
Multifunctional systems for diagnosis and/ or treatment

PATENT:

Denisa FICAI, Ioana ARDELEAN, Cornelia ILIE, Manuela CĂLIN, Elena-Valeria FUIOR, Adrian FIFERE, Mariana PINTEALĂ, Gheorghe FUNDUEANU-CONSTANTIN, Anton FICAI, Maya SIMIONESCU, Ecaterina ANDRONESCU; “*Vertical electromagnetic separator of the isomagnetic nanoparticles / Separator (electro)magnetic vertical a nanoparticulelor izomagnetice*”, National patent application A 01055/05.12.2018

PAPERS LIST

1. Angela Spoială, Cornelia-Ioana Ilie, Georgiana Dolete, Roxana-Doina Trușcă, Ludmila Motelică, Ovidiu-Cristian Oprea, Denisa Fikai, Anton Fikai, Ecaterina Andronescu, Lia-Mara Dițu, **The development of antimicrobial chitosan/zno nanocomposite membranes for water purification**, *Romanian Journal of Materials* **2022**, 52 (1), 17
2. Angela Spoiala, Cornelia-Ioana Ilie, Denisa Fikai, Anton Fikai, Ecaterina Andronescu, **From Biomedical Applications of Alginate towards CVD Implications Linked to COVID-19—A Review**, *Pharmaceuticals*, **2022**, 15, 318, doi.org/10.3390/ph15030318, (IF=5.863)-Q1
3. Angela Spoiala, Cornelia-Ioana Ilie, Luminita-Narcisa Crăciun, Denisa Fikai, Anton Fikai, Ecaterina Andronescu, **Magnetite-Silica Core/Shell Nanostructures: From Surface Functionalization towards Biomedical Applications—A Review**, *Applied Sciences* **2021**, 11, doi.org/10.3390/app112211075, (IF=2.679)-Q2
4. Angela Spoiala, Cornelia-Ioana Ilie, Roxana-Doina Trușcă, Ovidiu-Cristian Oprea, Vasile-Adrian Surdu, Bogdan-Stefan Vasile, Anton Fikai, Denisa Fikai, Ecaterina Andronescu, Lia-Mara Dițu, **Zinc Oxide Nanoparticles for Water Purification**, *Materials* **2021**, 14, 4747, doi.org/10.3390/ma14164747, (IF-3.623)-Q2
5. Angela Spoiala, Cornelia-Ioana Ilie, Denisa Fikai, Anton Fikai, Ecaterina Andronescu, **Chitosan-Based Nanocomposite Polymeric Membranes for Water Purification—A Review**, *Materials* **2021**, 14, 2091, doi.org/10.3390/ma14092091, (IF-3.623)-Q2
6. Ilinca Margareta Vlad, Diana Camelia Nuță, Robert Viorel Ancuceanu, Miron Teodor Caproiu, Forea Dumitrascu, Ioana Cristina Marinas, Mariana Carmen Chifiriuc, Luminita Gabriela Măruțescu, Irina Zarafu, Ioana Raluca Papacocea, Bogdan Ștefan Vasile, Adrian Ionut Nicoară, Cornelia-Ioana Ilie, Anton Fikai, Carmen Limban, **New O-Aryl-Carbamoyl -Oxymino-Fluorene Derivatives with MI-Crobicidal and Antibiofilm Activity Enhanced by Combination with Iron Oxide Nanoparticles**, *Molecules* **2021**, 26, 3002, doi.org/10.3390/molecules26103002, (IF=4.412)- Q2
7. Ludmila Motelica, Denisa Fikai, Anton Fikai, Roxana-Doina Trusca, Cornelia-Ioana Ilie, Ovidiu-Cristian Oprea, Ecaterina Andronescu, **Innovative Antimicrobial Chitosan/ZnO/Ag NPs/Citronella Essential Oil Nanocomposite—Potential Coating for Grapes**, *Foods* **2020**, 9, 1801, doi.org/10.3390/foods9121801, (IF=4.350)-Q2

8. Georgiana Madalina Lemnaru, Roxana Doina Truşcă, **Cornelia Ioana Ilie**, Roxana-Elena, Denisa Ficai, Ovidiu Oprea, nicuta. Stoica-Guzun, Anton Ficai, Lia-Mara Diţu, **Antibacterial activity of bacterial cellulose loaded with bacitracin and amoxicillin: *In vitro* studies**, *Molecules* **2020**, 25(18), doi.org/10.3390/molecules25184069 (IF=4.412)- Q2
9. Oana Cristina Duta, Maxim Maximov, Roxana Doina Trusca, Anton Ficai, Denisa Ficai, **Cornelia-Ioana Ilie**, Lia Mara Ditu, Ecaterina Andronescu, **Advanced Drug-Eluting Poly(Vinyl Chloride) Surfaces Deposited by Spin Coating**, *Medicina-Lithuania* **2019**, 55(8), doi.org/10.3390/medicina55080421 (IF=2.430) Q2

SCIENTIFIC MEETINGS ATTENDED

1. **Ilie Cornelia-Ioana**, Spoiala Angela, Ficai Denisa, Ficai Anton, Nicoara Adrian-Ionut, Surdu Vasile-Adrian, Trusca Doina-Roxana, Oprea Ovidiu-Cristian, Andronescu Ecaterina; **Drug delivery platforms/ systems for cardiovascular applications; Applications of Chemistry in Nanosciences and Biomaterials Engineering (Nanobiomat)**, 25-27 November 2021, Bucharest, Romania-poster
2. **Ilie Cornelia-Ioana**, Ficai Anton, Spoiala Angela, Ditu Lia-Mara, Trusca Doina-Roxana, Surdu Adrian -Vasile, Nicoara Adrian-Ionut,Oprea Ovidiu-Cristian, Ficai Denisa, Calin Manuela, Andronescu Ecaterina; **Sisteme magnetice inteligente cu eliberare controlata pentru aplicatii medicale; Applications of Chemistry in Nanosciences and Biomaterials Engineering (Nanobiomat)**, 16-17 June 2020- Bucharest, Romania -oral presentation
3. **Cornelia-Ioana Ilie**, Angela Spoiala, Denisa Ficai, Anton Ficai, Adrian Ionut Nicoara, Bogdan Stefan Vasile, Vasile-Adrian Surdu, Maria Anghelache, Manuela Calin, Ecaterina Andronescu; **Synthesis and characterization of a new polysaccharide-coated magnetic nanoparticles; 21st Romanian International Conference on Chemistry and Chemical Engineering (RICCCE)**, Mamaia, Romania, 04-07 September 2019 - poster
4. **Cornelia-Ioana Ilie**, Angela Spoiala, Laura Moise, Maria Anghelache, Denisa Ficai, Ioana Lavinia Ardelean, Roxana Doina Trusca, Anton Ficai, Manuela Calin, Anca Gafencu, Ecaterina Andronescu; **Smart alginate-based magnetic platforms for drug delivery; 5th World Congress on New Technologies (NewTech'19) - International Conference on Nanotechnology. Fundamentals and Applications (INCFA)**, Lisabona, Portugalia, 18-20 August 2019 – poster