

LISTA DE LUCRĂRI

Dr. ing. RUSEN EDINA ANAMARIA

1. Listă lucrări reprezentative

1. A. Diacon, E. Rusen, A. Mocanu, P. Hudhomme and C. Cincu - Fluorescence Properties of Photonic Crystals Doped with Perylenediimide, *Langmuir*, ISSN 0743-7463,27 (12),p. 7464-7470, 2011, WOS:000291500700020.
2. E. Rusen, A. Mocanu, A. Diacon and B. Marculescu - Fluorescence Enhancement of Rhodamine B in the Presence of Photonic Crystal Heterostructures, *Journal of Physical Chemistry C*, ISSN 1932-7447,115 (30),p. 14947-14953, 2011, WOS:000293192100064.
3. A. Diacon, E. Rusen, A. Mocanu and L. C. Nistor - Polymer photonic crystal band-gap modulation using PbS quantum dots, *Journal of Materials Chemistry C*, ISSN 2050-7526,1 (28),p. 4350-4357, 2013, WOS:000321015700007.
4. F. Miculescu, E. Rusen, A. Mocanu, A. Diacon and R. Birjega - Hierarchical nanostructures of ZnO obtained in the presence of water soluble polymers, *Powder Technology*, ISSN 0032-5910,239 56-58, 2013, WOS:000318581300006.
5. A. Mocanu, E. Rusen, A. Diacon and A. Dinescu - Hierarchical nanostructures of PbS obtained in the presence of water soluble polymers, *Powder Technology*, ISSN 0032-5910,253 237-241, 2014, WOS:000332430600033.
6. E. Rusen, A. Mocanu, L. C. Nistor, A. Dinescu, L. Calinescu, G. Mustatea, S. I. Voicu, C. Andronescu and A. Diacon - Design of Antimicrobial Membrane Based on Polymer Colloids/Multiwall Carbon Nanotubes Hybrid Material with Silver Nanoparticles, *ACS Applied Materials & Interfaces*, ISSN 1944-8244,6 (20),p. 17384-17393, 2014, WOS:000343684200008.
7. E. Rusen, A. Mocanu and A. Diacon - One reaction-two types of polymerization mechanisms for N-vinyl carbazole using a single donor-acceptor initiating system, *European Polymer Journal*, ISSN 0014-3057,66 247-252, 2015, WOS:000353854000025.
8. E. Rusen, A. Diacon, A. Mocanu and L. C. Nistor - Novel facile method for obtaining CdSe/polyaniline/C-60 composite materials, *Scientific reports*, ISSN 2045-2322,6 7, 2016, WOS:000382264500001.
9. A. Diacon, E. Rusen, A. Mocanu and L. C. Nistor - Supported Cu-0 nanoparticles catalyst for controlled radical polymerization reaction and block-copolymer synthesis, *Scientific reports*, ISSN 2045-2322,7 10, 2017, WOS:000408997700044.
10. E. Rusen, A. Diacon, A. Mocanu, D. C. Culita, A. Dinescu and T. Zecheru - "A real" emulsion polymerization using simple ATRP reaction in the presence of an oligo-initiator with a dual activity of emulsifier and initiator, *Colloids and Surfaces a-Physicochemical and Engineering Aspects*, ISSN 0927-7757,555 1-7, 2018, WOS:000443153100001.

2. **Teză doctorat (T):** "Studies on Binary and Ternary Polymerization and on Polymer Analogous Reactions", Conducător științific: prof. dr. ing. Dan Sorin Vasilescu, Facultatea de Chimie Aplicată și Știința Materialelor, Universitatea Politehnica București, 2005

3. Cărți publicate (C)

Ca – Cărți / cursuri (manuale) pentru uzul studenților, publicate în edituri recunoscute.

1. B. Marculescu, E. Rusen, L. Butac, "*Adezivi, Lacuri și Vopsele*", București: Ars Docendi, (2009), ROMANIA, ISBN 978-973-558-408-5, 307 pagini.
2. B. Marculescu, E. Rusen, , "*Complemente la chimia polimerilor*", București: Ed. Politehnica Press (2011), ISBN 978-606-515-183-3, 237 pagini.
3. D.S. Vasilescu, B. Marculescu, L. Butac, E. Rusen, I.C. Stancu, "*Introduction in Polymer Chemistry*", București: Ed. Politehnica Press (2012), ISBN 978-606-515-383-7, 291 pagini.

Cb - Cărți de specialitate publicate în edituri recunoscute (autor, coautor, editor).

1. B. Marculescu, E. Rusen, D.S. Vasilescu, "*Maleic Anhidride- Polymeric Derivatives*", București: Ars Docendi, (2006), ISBN (10) 973-558-238-4, ISBN (13)978-973-238-8, 219 pagini.

Cc - Cărți publicate în alte edituri, cu ISBN.

ALTE MATERIALE PUBLICATE (I,D)

I - Culegeri și Îndrumare publicate (separate în edituri cu ISBN și în tipografiile locale/de instituții sau de uz intern).

1. B. Marculescu, E. Rusen, D.S. Vasilescu, "*Introducere în Chimia Polimerilor*" , București: Ed. Politehnica Press (2010), ISBN 978-606-515-078-2, 341 pagini.

D - Alte lucrări publicate: capitole publicate în volume colective, capitole teoretice redactate, sisteme de laborator funcționale etc.

1. *Chapter 10 - Influence of the Solid-Liquid Adhesion on the Self-Assembling Properties of Colloidal Particles* Authors / Editors: Edina Rusen, Alexandra Mocanu, Bogdan Marculescu, Corina Andronescu, I.C. Stancu, A. Ioncea, I. Antoniac, *Advances in Chemistry Research. Volume 6, Editors: James C. Taylor, Nova Publisher, 2010;*
2. *Influence of the solid-liquid adhesion on the self-assembling properties of colloidal particles* Edina Rusen, Alexandra Mocanu, Bogdan Marculescu, Corina Andronescu, I.C. Stancu, A. Ioncea, I. Antoniac, *Photonic Crystals: Fabrication, Band Structure and Applications, Editors: Venla E. Laine, 2010; Nova Publisher*

4. Articole și comunicări indexate Web of Science (Ri)

- Ri 1.** B. Marculescu, A. M. Albu, D. Donescu, A. G. Boborodea, **E. Rusen** and D. S. Vasilescu - Radical copolymerization of the binary system maleic anhydride-dicyclopentadiene, *Revue Roumaine de Chimie*, ISSN 0035-3930, 48 (11), p. 897-901, **2003**, WOS:000221550900010.
- Ri 2.** B. Marculescu, M. Popescu, **E. Rusen**, A. M. Albu, D. S. Vasilescu and A. G. Boborodea - Copolymerization of di-cyclopentadiene with maleic anhydride in heterogeneous systems, *MATERIALE PLASTICE*, ISSN 0025-5289, 41 (2), p. 115-117, **2004**, WOS:000222690600011.
- Ri 3.** B. Marculescu, **E. Rusen**, E. Marinescu, A. M. Albu and D. S. Vasilescu - Controlled branching of the copolymer maleic anhydride-dicyclopentadiene by condensation with various glycols, *Revista de Chimie*, ISSN 0034-7752, 55 (9), p. 690-693, **2004**, WOS:000224545700007.
- Ri 4.** Ionita, C. Tarabasanu-Mihaila, **E. Rusen**, C. Radulescu, A. M. Hossu and E. I. Moater - Preliminary studies regarding the obtaining and characterizing of polymers with azoic substituents, *MATERIALE PLASTICE*, ISSN 0025-5289, 42 (3), p. 196-199, **2005**, WOS:000233226800008.
- Ri 5.** B. Marculescu, **E. Rusen**, A. M. Albu and D. S. Vasilescu - Some peculiarities of heterogeneous copolymerization of maleic anhydride with di-cyclopentadiene in some non-solvents of the polymer, *Revue Roumaine de Chimie*, ISSN 0035-3930, 50 (7-8), p. 621-626, **2005**, WOS:000234391100018.
- Ri 6.** **E. Rusen**, B. Marculescu, A. M. Abu, D. M. Vuluga, A. Boborodea and D. S. Vasilescu - Copolymerization of the pair maleic anhydride-dicyclopentadiene: I. Copolymerization and postcopolymerization at high conversion, *Polymer International*, ISSN 0959-8103, 54 (1), p. 215-220, **2005**, WOS:000226036800030.
- Ri 7.** B. Marculescu, **E. Rusen**, A. M. Albu, D. Stanciu and D. S. Vasilescu - Copolymerization of the pair maleic anhydride-dicyclopentadiene: II. Kinetics at low conversion, *Journal of Macromolecular Science-Pure and Applied Chemistry*, ISSN 1060-1325, A43 (2), p. 383-391, **2006**, WOS:000235411500016.
- Ri 8.** **E. Rusen**, B. Marculescu, A. M. Albu and D. S. Vasilescu - Terpolymerization involving maleic anhydride and dicyclopentadiene, *Polymer Bulletin*, ISSN 0170-0839, 56 (4-5), p. 369-376, **2006**, WOS:000235448300009.
- Ri 9.** A. Lungu, I. C. Stancu, **E. Rusen**, B. Marculescu and H. Iovu - Studies concerning the chemical immobilization of dendrimers on macroporous polymer matrix, *Journal of Optoelectronics and Advanced Materials*, ISSN 1454-4164, 9 (11), p. 3454-3458, **2007**, WOS:000251435200035.
- Ri 10.** M. Mocioi, A. M. Albu, C. Mateescu, G. Voicu, **E. Rusen**, B. Marculescu and L. Mutihac - New polymeric structures designed for the removal of Cu(II) ions from aqueous solutions, *Journal of Applied Polymer Science*, ISSN 0021-8995, 103 (3), p. 1397-1405, **2007**, WOS:000243013800004.
- Ri 11.** **E. Rusen**, C. Zaharia, B. Marculescu, R. Filmon, T. Zecheru, D. Chappard, C. Cincu and R. Badulescu - Synthesis of core-shell structures with potential applications in orthopaedic surgery, *Journal of Optoelectronics and Advanced Materials*, ISSN 1454-4164, 9 (8), p. 2543-2546, **2007**, WOS:000248583200047.
- Ri 12.** **E. Rusen**, C. Zaharia, T. Zecheru, B. Marculescu, R. Filmon, D. Chappard, R. Badulescu and C. Cincu - Synthesis and characterisation of core-shell structures for

- orthopaedic surgery, *Journal of Biomechanics*, ISSN 0021-9290, 40 (15), p. 3349-3353, **2007**, WOS:000251342800007.
- Ri 13.** C. Zaharia, T. Zecheru, **E. Rusen**, A. Salageanu and C. Cincu - Methylmethacrylate-Iodothiophene copolymers for the obtaining of bone and dental cements, *Journal of Optoelectronics and Advanced Materials*, ISSN 1454-4164, 9 (11), p. 3307-3311, **2007**, WOS:000251435200003.
- Ri 14.** T. Zecheru, C. Zaharia, A. Salageanu, C. Tucureanu, **E. Rusen**, B. Marculescu, T. Rotariu and C. Cincu - Polymeric biocompatible structures for controlled drug release, *Journal of Optoelectronics and Advanced Materials*, ISSN 1454-4164, 9 (9), p. 2917-2920, **2007**, WOS:000249903600046.
- Ri 15.** **E. Rusen**, B. Marculescu, L. Butac, N. Preda and L. Mihut - The synthesis and characterization of poly vinyl chloride chemically modified with C-60, *Fullerenes Nanotubes and Carbon Nanostructures*, ISSN 1536-383X, 16 (3), p. 178-185, **2008**, WOS:000256311600002.
- Ri 16.** **E. Rusen**, B. Marculescu, L. Butac, T. Zecheru, F. Miculescu and T. Rotariu - Acrylic cements for dental prosthetics, *Journal of Optoelectronics and Advanced Materials*, ISSN 1454-4164, 10 (12), p. 3436-3441, **2008**, WOS:000262022500056.
- Ri 17.** **E. Rusen**, B. Marculescu, N. Preda, C. Bucur and L. Mihut - Synthesis and optical properties of water-soluble poly(vinylpyrrolidone) - modified fullerene C-60, *Polymer Bulletin*, ISSN 0170-0839, 61 (5), p. 581-592, **2008**, WOS:000260317300005.
- Ri 18.** **E. Rusen**, B. Marculescu, N. Preda and L. Mihut - Synthesis and characterization of polyethylene/C-60 fullerene structures by photoluminescence, *Journal of Polymer Research*, ISSN 1022-9760, 15 (6), p. 447-451, **2008**, WOS:000259920200003.
- Ri 19.** **E. Rusen**, B. Marculescu, I. Stancu, C. Grigoras and D. S. Vasilescu - Chemical Transformations on Copolymers Obtained from Dicyclopentadiene, *MATERIALE PLASTICE*, ISSN 0025-5289, 45 (4), p. 409-413, **2008**, WOS:000262600800020.
- Ri 20.** A. Lungu, **E. Rusen**, L. M. Butac and I. C. Stancu - EPOXY-MEDIATED IMMOBILIZATION OF PAMAM DENDRIMERS ON METHACRYLIC HYDROGELS, *Digest Journal of Nanomaterials and Biostructures*, ISSN 1842-3582, 4 (1), p. 97-107, **2009**, WOS:000267327200013.
- Ri 21.** **E. Rusen**, B. Marculescu, I. C. Stancu, A. M. Albu, C. Grigoras and D. S. Vasilescu - Grafting N-vinyl-carbazole on alternating copolymers obtained from dicyclopentadiene, *Optoelectronics and Advanced Materials-Rapid Communications*, ISSN 1842-6573, 3 (3), p. 249-254, **2009**, WOS:000265405200020.
- Ri 22.** T. Zecheru, R. Filmon, **E. Rusen**, B. Marculescu, A. Zerroukhi, C. Cincu and D. Chappard - Biomimetic Potential of Some Methacrylate-Based Copolymers: A Comparative Study, *Biopolymers*, ISSN 0006-3525, 91 (11), p. 966-973, **2009**, WOS:000270482600008.
- Ri 23.** A. Diacon, L. Fara, C. Cincu, M. R. Mitroi, C. Zaharia, **E. Rusen**, C. Boscornea, C. Rosu and D. Comaneci - New materials for hybrid dye-sensitized solar cells, *Optical Materials*, ISSN 0925-3467, 32 (12), p. 1583-1586, **2010**, WOS:000283971200006.
- Ri 24.** A. Diacon, **E. Rusen**, C. Boscornea, C. Zaharia and C. Cincu - Hybrid dye sensitized solar cells, *Journal of Optoelectronics and Advanced Materials*, ISSN 1454-4164, 12 (2), p. 199-204, **2010**, WOS:000275651000005.
- Ri 25.** N. Preda, **E. Rusen**, A. Musuc, M. Enculescu, E. Matei, B. Marculescu, V. Fruth and I. Enculescu - Synthesis and properties of poly(methyl methacrylate-2-acrylamido-

2methylpropane sulfonic acid)/PbS hybrid composite, *Materials Research Bulletin*, ISSN 0025-5408, 45 (8), p. 1008-1012, **2010**, WOS:000279597100018.

- Ri 26.** E. Rusen, A. Mocanu, C. Corobea and B. Marculescu - Obtaining of monodisperse particles through soap-free polymerization in the presence of C-60, *Colloids and Surfaces a-Physicochemical and Engineering Aspects*, ISSN 0927-7757, 355 (1-3), p. 23-28, **2010**, WOS:000274751800004.
- Ri 27.** E. Rusen, A. Mocanu and B. Marculescu - Obtaining of monodisperse particles through soap-free and seeded polymerization, respectively, through polymerization in the presence of C-60, *Colloid and Polymer Science*, ISSN 0303-402X, 288 (7), p. 769-776, **2010**, WOS:000276903600006.
- Ri 28.** I. C. Stancu, A. Lungu, E. Rusen, A. Mocanu, P. Z. Iordache, D. M. Dragusin, C. Cotrut, E. Vasile and H. Iovu - MULTIFUNCTIONAL PAMAM-SURFACE NANOSTRUCTURED PARTICLES ORGANIZED IN MULTIMERIC CLUSTERS. POTENTIAL SMART DELIVERY VEHICLES OF BIOACTIVE SPECIES THROUGH A HIGH SELECTIVE AMINE-THIOL BIOCONJUGATION STRATEGY, *Digest Journal of Nanomaterials and Biostructures*, ISSN 1842-3582, 5 (4), p. 1077-1087, **2010**, WOS:000286064000008.
- Ri 29.** T. Zecheru, T. Rotariu, E. Rusen, B. Marculescu, F. Miculescu, L. Alexandrescu, I. Antoniac and I. C. Stancu - Poly(2-hydroxyethyl methacrylate-co-dodecyl methacrylate-co-acrylic acid): synthesis, physico-chemical characterisation and nafcillin carrier, *Journal of Materials Science-Materials in Medicine*, ISSN 0957-4530, 21 (10), p. 2793-2804, **2010**, WOS:000283371200009.
- Ri 30.** A. Diacon, E. Rusen, B. Marculescu, C. Andronescu, C. Cotrut, C. Zaharia, A. Mocanu and C. Cincu - Superficial Grafting of Water-Soluble Polymers on Brominated MWCNT by ATRP Technique, *International Journal of Polymer Analysis and Characterization*, ISSN 1023-666X, 16 (1), p. 1-8, **2011**, WOS:000287084900001.
- Ri 31.** A. Diacon, E. Rusen, A. Mocanu, P. Hudhomme and C. Cincu - Fluorescence Properties of Photonic Crystals Doped with Perylenediimide, *Langmuir*, ISSN 0743-7463, 27 (12), p. 7464-7470, **2011**, WOS:000291500700020.
- Ri 32.** A. Mocanu, E. Rusen, B. Marculescu and C. Cincu - Synthesis and characterization of a hybrid material from self-assembling colloidal particles and carbon nanotubes, *Colloid and Polymer Science*, ISSN 0303-402X, 289 (4), p. 387-394, **2011**, WOS:000287506700005.
- Ri 33.** N. Preda, E. Matei, M. Enculescu, E. Rusen, A. Mocanu, B. Marculescu and I. Enculescu - Effect of aqueous comonomer solubility on the surfactant-free emulsion copolymerization of methyl methacrylate, *Journal of Polymer Research*, ISSN 1022-9760, 18 (1), p. 25-30, **2011**, WOS:000285099200004.
- Ri 34.** N. Preda, E. Rusen, M. Enculescu, E. Matei, B. Marculescu and I. Enculescu - Polymer-assisted crystallization of low-dimensional lead sulfide particles, *Physica E-Low-Dimensional Systems & Nanostructures*, ISSN 1386-9477, 43 (10), p. 1826-1832, **2011**, WOS:000294573100013.
- Ri 35.** T. Rotariu, T. Zecheru, E. Rusen, D. A. Goga and C. Cincu - Kinetic Study of a New Flame-Retardant Polymer Composition, *MATERIALE PLASTICE*, ISSN 0025-5289, 48 (1), p. 83-87, **2011**, WOS:000289661700016.

- Ri 36.** E. Rusen, A. Mocanu, A. Diacon and B. Marculescu - Fluorescence Enhancement of Rhodamine B in the Presence of Photonic Crystal Heterostructures, *Journal of Physical Chemistry C*, ISSN 1932-7447, 115 (30), p. 14947-14953, **2011**, WOS:000293192100064.
- Ri 37.** E. Rusen, A. Mocanu, B. Marculescu, R. Somoghi, L. Butac, F. Miculescu, C. Cotrut, I. Antoniac and C. Cincu - Obtaining complex structures starting from monodisperse poly(styrene-co-2-hydroxyethylmethacrylate) spheres, *Colloids and Surfaces a-Physicochemical and Engineering Aspects*, ISSN 0927-7757, 375 (1-3), p. 35-41, **2011**, WOS:000287285500005.
- Ri 38.** A. Mocanu, E. Rusen, C. Cincu and G. Staikos - Hybrid material based on ST-AA photonic crystal core and ZnO particle shell, *Colloid and Polymer Science*, ISSN 0303-402X, 290 (18), p. 1949-1954, **2012**, WOS:000310998800011.
- Ri 39.** E. Rusen, A. Mocanu and R. Somoghi - Core-shell hybrid material for ZnO nanorods generation, *Colloid and Polymer Science*, ISSN 0303-402X, 290 (18), p. 1937-1942, **2012**, WOS:000310998800009.
- Ri 40.** E. Vasile, E. Rusen, A. Mocanu, M. Patrascu and I. Calinescu - Polymer colloids and silver nanoparticles hybrid materials, *Colloid and Polymer Science*, ISSN 0303-402X, 290 (3), p. 193-201, **2012**, WOS:000299511800001.
- Ri 41.** A. Diacon, E. Rusen, A. Mocanu and L. C. Nistor - Polymer photonic crystal band-gap modulation using PbS quantum dots, *Journal of Materials Chemistry C*, ISSN 2050-7526, 1 (28), p. 4350-4357, **2013**, WOS:000321015700007.
- Ri 42.** F. Miculescu, E. Rusen, A. Mocanu, A. Diacon and R. Birjega - Hierarchical nanostructures of ZnO obtained in the presence of water soluble polymers, *Powder Technology*, ISSN 0032-5910, 239 p. 56-58, **2013**, WOS:000318581300006.
- Ri 43.** A. Mocanu, E. Rusen and A. Diacon - Optical Properties of the Self-Assembling Polymeric Colloidal Systems, *International Journal of Polymer Science*, ISSN 1687-9422, p. 11, **2013**, WOS:000324433400001.
- Ri 44.** E. Rusen and A. Mocanu - Atom transfer radical emulsion polymerization (emulsion ATRP) of styrene with water-soluble initiator, *Colloid and Polymer Science*, ISSN 0303-402X, 291 (9), p. 2253-2257, **2013**, WOS:000323248000023.
- Ri 45.** E. Rusen, A. Mocanu, C. Damian and A. Diacon - Glass Transition Temperature Improvement for Polychloroprene by One-Step ATRP Reaction, *International Journal of Polymer Analysis and Characterization*, ISSN 1023-666X, 18 (7), p. 488-494, **2013**, WOS:000326070500002.
- Ri 46.** E. Rusen, A. Mocanu, F. Rizea, A. Diacon, I. Calinescu, L. Mititeanu, D. Dumitrescu and A. M. Popa - Post-consumer PET Bottles Recycling II. PET depolymerization using microwaves, *MATERIALE PLASTICE*, ISSN 0025-5289, 50 (3), p. 201-207, **2013**, WOS:000324783500012.
- Ri 47.** E. Rusen, A. Mocanu, F. Rizea, A. Diacon, I. Calinescu, L. Mititeanu, D. Dumitrescu and A. M. Popa - Poly(ethylene terephthalate) Recycled from Post-Consumer Soft-Drinks Bottles I. Poly(ethylene terephthalate) depolymerization by glycolysis process, *MATERIALE PLASTICE*, ISSN 0025-5289, 50 (2), p. 130-133, **2013**, WOS:000320842600013.
- Ri 48.** A. Mocanu, E. Rusen, A. Diacon and A. Dinescu - Hierarchical nanostructures of PbS obtained in the presence of water soluble polymers, *Powder Technology*, ISSN 0032-5910, 253 p. 237-241, **2014**, WOS:000332430600033.

- Ri 49.** E. Rusen, A. Diacon and A. Mocanu - Photonic crystals obtained by soap-free emulsion terpolymerization, *Central European Journal of Chemistry*, ISSN 1895-1066, 12 (1), p. 126-130, **2014**, WOS:000326118100015.
- Ri 50.** E. Rusen, A. Mocanu and A. Diacon - Hybrid Material Synthesis Based on Polymer Photonic Crystals Core and Magnetite Particles Shell, *Macromolecular Symposia*, ISSN 1022-1360, 345 (1), p. 24-31, **2014**, WOS:000346464500004.
- Ri 51.** E. Rusen, A. Mocanu, L. C. Nistor, A. Dinescu, L. Calinescu, G. Mustatea, S. I. Voicu, C. Andronescu and A. Diacon - Design of Antimicrobial Membrane Based on Polymer Colloids/Multiwall Carbon Nanotubes Hybrid Material with Silver Nanoparticles, *ACS Applied Materials & Interfaces*, ISSN 1944-8244, 6 (20), p. 17384-17393, **2014**, WOS:000343684200008.
- Ri 52.** E. Rusen, A. Mocanu, F. Rizea, P. O. Stanescu, A. Diacon, I. Calinescu and M. Dragoescu - Post-consumer PET Bottles Recycling III. Obtaining of unsaturated polyester resins and mechanical characterization of cross-linked materials with styrene, *MATERIALE PLASTICE*, ISSN 0025-5289, 51 (2), p. 185-189, **2014**, WOS:000339475200016.
- Ri 53.** T. Kodom, E. Rusen, I. Calinescu, A. Mocanu, R. Somoghi, A. Dinescu, A. Diacon and C. Boscornea - Silver Nanoparticles Influence on Photocatalytic Activity of Hybrid Materials Based on TiO₂ P25, *Journal of Nanomaterials*, ISSN 1687-4110, p. 8, **2015**, WOS:000360741600001.
- Ri 54.** E. Rusen, T. Doina, A. Mocanu, V. Meltzer, E. Pincu, A. Popescu, L. Chirila, I. Calinescu and A. Diacon - New polymeric composites for heat transfer, *Colloid and Polymer Science*, ISSN 0303-402X, 293 (9), p. 2593-2598, **2015**, WOS:000360857700016.
- Ri 55.** E. Rusen, A. Mocanu and A. Diacon - One reaction-two types of polymerization mechanisms for N-vinyl carbazole using a single donor-acceptor initiating system, *European Polymer Journal*, ISSN 0014-3057, 66 p. 247-252, **2015**, WOS:000353854000025.
- Ri 56.** E. Rusen, A. Mocanu, D. Fiat, A. M. Dumitrescu, P. O. Stanescu and A. Diacon - Straightforward Manufacturing of Polyurethane Adhesives and Foams from Post-consumer Poly(ethylene terephthalate) (PET) Bottles, *MATERIALE PLASTICE*, ISSN 0025-5289, 52 (2), p. 209-213, **2015**, WOS:000357767900017.
- Ri 57.** E. Rusen, A. Mocanu, P. Hudhomme and A. Diacon - PHOTONIC CRYSTALS DOPED WITH PERYLENE-DIIMIDE FOR LASER APPLICATIONS, *University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science*, ISSN 1454-2331, 77 (4), p. 51-62, **2015**, WOS:000417047800005.
- Ri 58.** E. Rusen, A. Mocanu, L. C. Nistor, P. Hudhomme and A. Diacon - Anionic polymerization by an electron transfer process from a CdSe quantum dot-perylene-diimide (PDI) system, *RSC Advances*, ISSN 2046-2069, 5 (36), p. 28228-28232, **2015**, WOS:000351870500027.
- Ri 59.** A. Racoti, E. Rusen, A. Diacon, A. Dinescu, M. Buleandra and I. Calinescu - Ginger Essential Oil Encapsulation in PMMA Microcapsules. I, *MATERIALE PLASTICE*, ISSN 0025-5289, 53 (3), p. 357-360, **2016**, WOS:000384870300003.
- Ri 60.** Racoti, E. Rusen, A. Dinescu, V. A. Ion, I. Calinescu, A. Mocanu and A. Diacon - GINGER ESSENTIAL OIL ENCAPSULATION IN PMMA MICROCAPSULES - PART

- II, *University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science*, ISSN 1454-2331, 78 (3), p. 87-96, **2016**, WOS:000417053200008.
- Ri 61.** E. Rusen, A. Diacon, A. Mocanu, A. Gavrilă, A. M. Dumitrescu and A. Dinescu - Photonic Crystals Band Gap Modulation Using the Pattern of a Written DVD, *MATERIALE PLASTICE*, ISSN 0025-5289, 53 (2), p. 185-188, **2016**, WOS:000380629300001.
- Ri 62.** E. Rusen, A. Diacon, A. Mocanu, R. Gavrilă, L. C. Nistor and A. Dinescu - CdSe (quantum dots)-graphene oxide system for thiophene polymerization: a new strategy, a new material, *RSC Advances*, ISSN 2046-2069, 6 (30), p. 25577-25583, **2016**, WOS:000372252700093.
- Ri 63.** E. Rusen, A. Diacon, A. Mocanu and L. C. Nistor - Novel facile method for obtaining CdSe/polyaniline/C-60 composite materials, *Scientific reports*, ISSN 2045-2322, 6 p. 7, **2016**, WOS:000382264500001.
- Ri 64.** E. Rusen, A. Mocanu, A. Dinescu, G. Mustatea and A. Diacon - POLYSULFONE MEMBRANES DOPED WITH POLYMER COLLOIDS FOR WATER DECONTAMINATION, *University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science*, ISSN 1454-2331, 78 (2), p. 25-36, **2016**, WOS:000417052900003.
- Ri 65.** G. Toader, E. Rusen, M. Teodorescu, A. Diacon, P. O. Stanescu, T. Rotariu and A. Rotariu - Novel polyurea polymers with enhanced mechanical properties, *Journal of Applied Polymer Science*, ISSN 0021-8995, 133 (38), p. 7, **2016**, WOS:000380005700022.
- Ri 66.** G. Toader, E. Rusen, M. Teodorescu, A. Diacon, P. O. Stanescu and C. Sau - EFFECT OF CHAIN LENGTH OF POLYMERIC ALIPHATIC DIAMINES ON THERMAL AND MECHANICAL PROPERTIES OF POLYUREA FILMS, *University Politehnica of Bucharest Scientific Bulletin Series B-Chemistry and Materials Science*, ISSN 1454-2331, 78 (4), p. 3-12, **2016**, WOS:000417053700001.
- Ri 67.** A. Diacon, E. Rusen, A. Mocanu, C. Damian, R. Gavrilă and A. Dinescu - Polymeric nanohybrids containing SiO₂ and C-70 for initiation of aniline polymerization in the presence of CdSe quantum dots, *Materials Chemistry and Physics*, ISSN 0254-0584, 197 p. 240-245, **2017**, WOS:000403996900030.
- Ri 68.** Diacon, E. Rusen, A. Mocanu and L. C. Nistor - Supported Cu-0 nanoparticles catalyst for controlled radical polymerization reaction and block-copolymer synthesis, *Scientific reports*, ISSN 2045-2322, 7 p. 10, **2017**, WOS:000408997700044.
- Ri 69.** I. Gavrilă, I. Asofiei, A. Trifan, P. Chipurici and E. Rusen - Microwave Assisted Synthesis of 5-hydroxymethylfurfural Using Mild Reaction Conditions, *Revista de Chimie*, ISSN 0034-7752, 68 (3), p. 435-438, **2017**, WOS:000400731900003.
- Ri 70.** Mocanu, E. Rusen, A. Diacon, C. Damian, A. Dinescu and M. Sucheă - Electrochemical Deposition of Zinc Oxide on the Surface of Composite Membrane Polysulfone-Graphene-Polystyrene in the Presence of Water Soluble Polymers, *Journal of Nanomaterials*, ISSN 1687-4110, p. 11, **2017**, WOS:000397764600001.
- Ri 71.** E. Rusen, A. Diacon, A. Mocanu, F. Rizea, B. Bucur, M. P. Bucur, G. L. Radu, E. Bacalum, M. Cheregi and V. David - Synthesis and retention properties of molecularly imprinted polymers for antibiotics containing a 5-nitrofurán ring, *RSC Advances*, ISSN 2046-2069, 7 (80), p. 50844-50852, **2017**, WOS:000414405800052.
- Ri 72.** G. Toader, T. Rotariu, E. Rusen, J. Tartiere, S. Esanu, T. Zecheru, I. C. Stancu, A. Serafim and B. Pulpea - New Solvent-free Polyurea Binder for Plastic Pyrotechnic

Compositions, *MATERIALE PLASTICE*, ISSN 0025-5289, 54 (1), p. 22-28, **2017**, WOS:000400629900005.

- Ri 73.** G. Toader, **E. Rusen**, M. Teodorescu, A. Diacon, P. O. Stanescu, C. Damian, T. Rotariu and A. Rotariu - New polyurea MWCNTs nanocomposite films with enhanced mechanical properties, *Journal of Applied Polymer Science*, ISSN 0021-8995, 134 (28), p. 7, **2017**, WOS:000399761500017.
- Ri 74.** **E. Rusen**, A. Diacon, C. Damian, R. Gavrilă, A. Dinescu, A. Dumitrescu and T. Zecheru - Electroconductive materials based on carbon nanofibers and polyaniline, *Journal of Applied Polymer Science*, ISSN 0021-8995, 135 (48), p. 7, **2018**, WOS:000449565300004.
- Ri 75.** **E. Rusen**, A. Diacon, A. Mocanu, D. C. Culita, A. Dinescu and T. Zecheru - "A real" emulsion polymerization using simple ATRP reaction in the presence of an oligo-initiator with a dual activity of emulsifier and initiator, *Colloids and Surfaces a-Physicochemical and Engineering Aspects*, ISSN 0927-7757, 555 p. 1-7, **2018**, WOS:000443153100001.
- Ri 76.** A. Diacon, A. Mocanu, C. E. Raducanu, C. Busuioc, R. Somoghi, B. Trica, A. Dinescu and **E. Rusen** - New carbon/ZnO/Li₂O nanocomposites with enhanced photocatalytic activity, *Scientific reports*, ISSN 2045-2322, 9 p. 14, **2019**, WOS:000496416000050.
- Ri 77.** Mocanu, **E. Rusen**, A. Diacon, G. Isopencu, G. Mustatea, R. Somoghi and A. Dinescu - Antimicrobial properties of polysulfone membranes modified with carbon nanofibers and silver nanoparticles, *Materials Chemistry and Physics*, ISSN 0254-0584, 223 p. 39-45, **2019**, WOS:000456902400006.

5. BREVETE DE INVENȚIE / INOVAȚII (B,A)

1. RUSEN EDINA ANA-MARIA [RO]; DIACON AUREL [RO]; MOCANU ALEXANDRA [RO]; DRĂGOESCU MARIUS FLORIN [RO]; RO131874 (A2) - SINTEZA POLIESTERILOR NESATURAȚI UTILIZÂND DEȘEURI DE PET
2. RUSEN EDINA ANA-MARIA [RO]; DIACON AUREL [RO]; MOCANU ALEXANDRA [RO]; BACALUM ELENA [RO]; CHEREGI MIHAELA [RO]; DAVID VICTOR [RO]; BUCUR BOGDAN [RO]; BUCUR PETRUȚA MĂDĂLINA [RO]; RADU GABRIEL LUCIAN [RO]; RO133210 (A2) - POLIMER IMPRENTAT MOLECULAR, OBTINUT PRIN POLIMERIZARE ÎN MASĂ PENTRU NITROFURANTOINĂ PENTRU REALIZAREA DE COLOANE DE EXTRACTIVE ÎN FAZA SOLIDĂ ȘI SENZORI ELECTROCHIMICI

6. Participări la conferințe în ultimii 10 ani

Nr. crt.	Selecție participări conferințe naționale și internaționale	Titlul lucrării
1	24-25 October 2019, <i>World Congress on Chemistry</i> , Valencia, Spain	<i>Alexandra Mocanu, Edina Rusen, Aurel Diacon, Gabriela Isopencu, Gabriel Mustăța, Raluca</i>

		<i>Șomoghi, Adrian Dinescu – “Antimicrobial properties of polysulfone membranes modified with carbon nanofibers and silver nanoparticles” - Poster</i>
2	4-7 September 2019, Romanian International Conference on Chemistry and Chemical Engineering - RICCCE XXI , Constanta, Romania	<i>Aurel Diacon, Alexandra Mocanu, Cristian Eugen Raducanu, Edina Rusen, Cristina Busuioc, Raluca Somoghi, Bogdan Trica, Adrian Dinescu, “Synthesis and characterization of new carbon/ZnO/Li2O nanocomposites with enhanced photocatalytic activity” - Poster</i>
3	16-17 April, 2018, ICPST 2018: International Conference on Polymer Science and Technology , Lisbon, Portugal	<i>Aurel Diacon, Edina Rusen, Leona Cristina Nistor, Alexandra Mocanu, “Supported Cu⁰ nanoparticles catalyst for controlled radical polymerization reaction and block-copolymer synthesis” – Oral presentation</i>
4	21-24 March 2018 – Polymers, Design, Function and Applications – PDFA 2018 , Barcelona, Spain	<i>Aurel Diacon, Edina Rusen, Leona Cristina Nistor, Alexandra Mocanu, “Supported Cu⁰ nanoparticles catalyst for controlled radical polymerization reaction and block-copolymer synthesis” - Poster</i>
5	6-9 September 2017 – Romanian International Conference on Chemistry and Chemical Engineering - RICCCE XX , Poiana Brasov Romania	<i>Edina Rusen, Aurel Diacon, Alexandra Mocanu, Celina Damian, Raluca Gavrilă, Adrian Dinescu, “New type of conductive materials based on carbon fibers” - Poster</i>
6	6-9 September 2017 – Romanian International Conference on Chemistry and Chemical Engineering - RICCCE XX , Poiana Brasov Romania	<i>Aurel Diacon, Edina Rusen, Leona Cristina Nistor “Supported Cu⁰ nanoparticles catalyst for controlled radical polymerization reaction and block-copolymer synthesis” – Oral presentation</i>
7	14-16 July 2017 AdvPhotoCat-E 2017, Advances on Photocatalysis, International Workshop 2nd Edition , Crete, Greece	<i>Diacon A. Rusen E., Mocanu A., “Novel facile method for obtaining CdSe/polyaniline/C60 composite material” – Invited paper</i>
8	14-16 July 2017 AdvPhotoCat-E 2017, Advances on Photocatalysis, International Workshop 2nd Edition , Crete, Greece	<i>Mocanu A., Rusen E., Diacon A. “New Type of Conductive Materials Based on Carbon Fibers” – Invited paper</i>
9	17-19 May International Symposium Frontiers in Polymer Science , Seville, Spain	<i>Diacon, A., Rusen, E., Mocanu, A., Nistor, L.C., “Supported Cu⁰ nanoparticles catalyst for controlled radical polymerization reaction and block-copolymer synthesis” – Poster presentation</i>
10	13-16 June 2016 - IUPAC - sponsored 16th International Conference <u>Polymers and Organic Chemistry</u> POC -16 , Crete, Greece	<i>E. Rusen, A. Mocanu, A. Diacon, L.C. Nistor, R. Gavrilă - “CdSe (quantum dots)-graphene oxide</i>

		<i>system for thiophene polymerization: A new strategy, a new material” – Oral presentation</i>
11	2-5 Septembrie 2015, RICCCE XIX – Romanian International Conference on Chemistry and Chemical Engineering XIX Edition , Sibiu, România	<i>E. Rusen, A. Mocanu, A. Diacon – “One reaction-two types of polymerization mechanisms for N-vinyl carbazole using a single donor–acceptor initiating system” – Oral presentation</i>
12	6-8 Iulie 2015, AdvPhotoCat 2015, Advances on Photocatalysis, International Workshop 1st Edition , Iași, România	<i>A. Mocanu, E. Rusen, A. Diacon, “Polysulfone membranes doped with polymer colloids for water decontamination” - Poster</i>
13	30-31 Octombrie 2014, PRIORITATILE CHIMIEI PENTRU O DEZVOLTARE DURABILA – PRIOCHEM X , București, România	<i>E. Rusen, A. Mocanu, L.C. Nistor, A. Diacon, “Reversible physical interaction between CdSe Quantum dots and Perylenediimide (PDI) aggregates in aqueous media” – Oral presentation</i>
14	30-31 Octombrie 2014, PRIORITATILE CHIMIEI PENTRU O DEZVOLTARE DURABILA – PRIOCHEM X , București, România	<i>E. Rusen, A. Diacon, A. Mocanu, “Hybrid material synthesis based on polymer photonic crystals core and magnetite particles shell” – Oral presentation</i>
15	15-18 Octombrie 2014 - 6th Szeged International Workshop on Advances in Nanoscience (SIWAN 6) , Szeged, Hungary	<i>E. Rusen, A. Mocanu., L.C. Nistor, A. Diacon, “New design of antimicrobial membranes based on polymers colloids/MWCNT hybrid materials and silver nanoparticles (final results)” – Oral presentation</i>
16	22 – 28 Septembrie 2014, 10th International Conference on Physics of Advanced Materials (ICPAM-10) , Iasi, Romania	<i>E. Rusen, A. Mocanu., A. Diacon, “New design of antimicrobial membranes based on polymers colloids/MWCNT hybrid materials and silver nanoparticles (preliminary results)” – Oral presentation</i>
17	10-13 Iunie 2014, IUPAC Conference Polymer and Organic Chemistry POC– 2014 , Timișoara, România	<i>E. Rusen, A. Mocanu, P. Hudhomme, A. Diacon “New Perylene Diimide Polymer Doping Method for Laser Applications” - Oral presentation</i>
18	10-13 Iunie 2014, IUPAC Conference Polymer and Organic Chemistry POC– 2014 , Timișoara, România	<i>E. Rusen, A. Mocanu, F. Rizea, P. O. Stănescu, A. Diacon, I. Călinescu, M. Drăgoescu, “Post-consumer PET bottles recycling III. Obtaining of unsaturated polyester resins and mechanical characterization of cross-linked materials with styrene” - Oral presentation</i>
19	19-23 Ianuarie 2014, 1st International Symposium on Nanoparticles/Nanomaterials and Applications , Costa da Caparica, Lisabona, Portugalia	<i>E. Rusen, A. Mocanu, L. C. Nistor, P. Hudhomme, A. Diacon, “<u>Reversible physical interaction between CdSe quantum dots and PDI aggregates in aqueous media</u>” – Poster</i>

20	24 - 25 octombrie 2013, Simpozionul international PRIORITATILE CHIMIEI PENTRU O DEZVOLTARE DURABILA PRIOCHEM editia a IX-a , București, România	<i>E. Rusen, A. Mocanu, L. C. Nistor, A. Dinescu, Ioan Călinescu, Gabriel Mustăța, Ștefan Ioan Voicu, Corina Andronescu, Aurel Diacon, "New design of antimicrobial membranes based on polymers colloids/MWCNT hybrid materials and silver nanoparticles (preliminary results)" – Oral presentation</i>
21	4-7 Septembrie 2013– RICCCE XVIII – 18th Romanian International Conference on Chemistry and Chemical Engineering – Sinaia, România	<i>E. Rusen, A. Diacon, A. Mocanu - "Photonic crystals obtained by soap-free emulsion terpolymerization" – Oral presentation</i>
22	15-17 Iunie 2013, EPF - European Polymer Federation , Pisa, Italia	<i>E. Rusen, A. Mocanu, F. Rizea, A. Diacon, I. Calinescu, L. Mititeanu, D. Dumitrescu, A.-M. Popa, "Poly(ethylene terephthalate) recycled from post-consumer soft-drinks bottles" – <u>Poster</u></i>
23	15-17 Iulie 2012, Colloids and Nanomedicine 2012 , Amsterdam, Olanda	<i>E. Rusen, A. Mocanu, A. Diacon, B. Mărculescu, "Monomer type emission of photonic crystals doped with PDI derivatives" – Poster</i>
24	6-10 Martie 2011 Hybrid Materials „The Second International Conference on Multifunctional, Hybrid and Nanomaterials” , Strasbourg, Franța	<i>E. Rusen, A. Mocanu, B. Mărculescu, C. Andronescu, C. Cincu, "Synthesis and characterization of a hybrid material from self-assembling colloidal particles and carbon nanotubes" - Poster</i>
25	23-25 Septembrie 2010 BiomMedD'2010, 4th International Conference "Biomaterials, Tissue Engineering & Medical Devices" – Sinaia, România,	<i>E. Rusen, A. Mocanu, B. Mărculescu, D. Drăgușin, I. Stancu, "Self-assembling microparticles for antibiotic release" - Poster</i>
26	29-30 Octombrie 2009 PRIOCHEM V (International Symposium "Chemistry Priorities for Serviceable Evolving - PRIOCHEM 5th Edition) – Sinaia, România,	<i>A. Mocanu, E. Rusen, C. Corobea, B. Mărculescu, "Sisteme coloidale monodisperse" - Oral presentation</i>
27	9-15 Septembrie 2009 – Romanian International Conference on Chemistry and Chemical Engineering RICCCE XVI - Sinaia, România	<i>A. Mocanu, E. Rusen, B. Mărculescu, C. Corobea, F. Miculescu, I. Antoniac, I.C. Stancu, "Monodisperse colloidal systems"- Poster</i>
28	25-28 August 2009 ROCAM – The sixth edition of Romanian Conference on Advanced Materials – Brașov, România	<i>N. Preda, E. Matei, M. Enculescu, E. Rusen, A. Mocanu, B. Mărculescu, I. Enculescu "Microspheres synthesized by surfactant-free emulsion copolymerization"</i>

7. Implicarea în proiecte de cercetare

Titlul proiectului	Sursa de finanțare	Buget (Euro)	Perioadă	Rol în proiect
Underwater metallic structures cutting by linear flexible shaped charge system - PN-III-P2-2.1-PED-2016-0545 – FlexMetCut, no. 43PED/2016 <i>“Sistem cumulativ diedric flexibil pentru taierea sub apa a structurilor metalice” - PN-III-P2-2.1-PED-2016-0545 – FlexMetCut, UEFISCDI 2016.</i>	Ministerul Educației Naționale – Autoritatea UEFISCDI	127659	2016-2018	Responsabil proiect din partea UPB
Recycling of all types polyurethane foams into rigid foams – RECYRIG, PN-III-P2-2.1-PTE-0047, no. 32PTE/2016 <i>“Reciclarea spumelor poluretanică de toate tipurile în spume rigide” – RECYRIG, PN-III-P2-2.1-PTE-0047</i>	Ministerul Educației Naționale – Autoritatea UEFISCDI	116725	2016-2018	Responsabil proiect din partea UPB
Chemosensors based on polymer photonic crystals using nanolithography, GEX 2016 Internal Grant, No. 63/26.09.2016. <i>“Chemosenzori pe baza de cristale fotonice polimerice utilizând nanolitografierea”, Grant Universitatea Politehnica din Bucuresti-GEX 2016;</i>	University Politehnica of Bucharest	4700	2016-2017	Director proiect
New molecular imprinted polymers (MIPs) developed for sensitive and rapid analysis of antibiotics from nitrofurantoines class - NITRO-MIP- PN-II-PT-PCCA-2013-4-0203, No. 197/2014. <i>“Noi polimeri imprințați molecular dezvoltați pentru analiza sensibilă și rapidă a antibioticelor din clasa nitrofuranilor” - NITRO-MIP- PN-II-PT-PCCA UEFISCDI 2014</i>	Ministerul Educației Naționale – Autoritatea UEFISCDI	53333	2014 -2017	Responsabil proiect din partea UPB
Antiexplosion protection system for equipping vehicles - CREWPROTECT - PN-II-PT-PCCA-2013, no. 278/2014 <i>“Sistem de protecție antiexplozie pentru echiparea vehiculelor” - CREWPROTECT - PN-II-PT-PCCA, UEFISCDI 2014</i>	Ministerul Educației Naționale – Autoritatea UEFISCDI	33333	2014- 2017	Membbru al echipei de cercetare
Environmental and economic benefits provided from PET bottles recycling by unconventional methods-RPETUM PN-II-PT-PCCA-2011-3.2-0042, No. 57/2012 <i>“Beneficii economice și de protecție a mediului prin reciclarea PET utilizând metode</i>	Ministerul Educației Naționale – Autoritatea UEFISCDI	866000	2012-2016	Director proiect

<i>neconventionale” RPETUM PN-II-PT-PCCA-2011-3.2-0042, No. 57/2012</i>				
Revalorization of PET waste for polyurethane adhesives, POS-CCE section 2.3.3 - No. 520/31.07.2013, code SMIS 47534 <i>“Revalorificarea deșeurilor de PET pentru adezivi poliuretanic”, POS-CCE section 2.3.3 - 2013;</i>	Fonduri europene pentru programul operațional de tip POS-CCE secțiunea 2.3.3	51667	2013-2014	Responsabil proiect din partea UPB
Excellence research projects for young scientists - “High performance multifunctional materials with special architecture used in orthopedic surgery”, code 79 <i>“Proiecte de cercetare de excelenta pentru tinerii cercetatori- ‘Materiale multifunctionale de inalta performanta cu arhitectura speciala folosite in chirurgia ortopedica’-cod proiect 79.</i>	Fonduri naționale CEEEX	15555	2006-2007	Director proiect
Synthesis, characterization and properties of some new polymer architectures in the complexation of cations in residual waters 27692/14.03.2005 <i>”Sinteza, caracterizarea și proprietățile unor noi arhitecturi polimerice în complexarea cationilor din apele reziduale” , nr contract: 27692/14.03.2005</i>	Ministerul Educației Naționale - Autoritatea CNCSIS Competiția TD	1333	2005-2006	Director proiect
High performance materials based on chemically and/or nanostructured modified polymers for industry and medical applications, CEEEX, code 4966 <i>“Materiale performante pe baza de polimeri modificati chimic si / sau nanostructurati pentru industrie si aplicatii medical”, CEEEX-2006, cod mec : 4966.</i>	Ministerul Educației Naționale – Autoritatea UEFISCDI	309000	2006	Membru al echipei de cercetare
<i>Increasing of damping coefficient for electrotechnical equipment based on new electroinsulating materials from H isolating class, CEEEX, code 8066</i> <i>„Cresterea coeficientului de utilizare a echipamentelor electrotehnice prin utilizarea de noi materiale electroizolante in clasa de izolatie h”, CEEEX-2006, cod mec: 8066</i>	Ministerul Educației Naționale – Autoritatea UEFISCDI	178444	2006	Membru al echipei de cercetare
<i>Hybrid polymer materials for bone engineering; revolutionary biomineralization method and tissue adherence, CEEEX code 82</i> <i>„Materiale hibride polimerice performante pentru regenerare osoasa; combinatie revolutionara de biomineralizare sablonata si aderența celulara”, CEEEX-2006, cod mec: 82.</i>	Ministerul Educației Naționale – Autoritatea UEFISCDI	30222	2006	Membru al echipei de cercetare

<p><i>Determination of molecular weights distribution for products obtained at ARPECHIM S.R.L. (additives for diesel and oils). Determination of the copolymers concentration from the specific additives, code 9535</i></p> <p><i>„Determinarea marimii si distributiei de mase moleculare pentru unele produse obtinute la sucursala Arpechim (aditivi pentru motorina si uleiuri). stabilirea concentratiei copolimerilor din aditivii mentionati”, nr: 9535 din 17.05.2004.</i></p>	<p>Ministerul Educației Naționale – Autoritatea UEFISCDI</p>	-	2004	<p>Membru al echipei de cercetare</p>
<p><i>Studies on the copolymerization of the system maleic anhydride-dicyclopentadiene in homogeneous media</i></p> <p><i>„Studii asupra copolimerizarii sistemului anhidrida maleica-diciclopentadiena in mediu omogen”- CNCSIS-tip B_d- 2003</i></p>	<p>CNCSIS- BD</p>	1000	2003-2005	<p>Director proiect</p>
<p><i>Synthesis and characterization of polymers with controlled architecture and morphology (pamc). Studies for pamc polymers application for wastewater treatment CERES 3-127</i></p> <p><i>„Cercetari privind sinteza si caracterizarea polimerilor cu arhitectura si morfologie controlata (pamc). Studii asupra utilizarii polimerilor pamc in ecologizarea apelor industriale uzate” ,contract CERES cu numarul 3-127 17 noiembrie 2003</i></p>	<p>Ministerul Educației Naționale – CNCSIS</p>	-	2003	<p>Membru al echipei de cercetare</p>
<p><i>Fotostipol – Photodegradable polystyrene for ecologic packaging PNCDI-I-RELANSIN</i></p> <p><i>„Fotostipol – Polistiren fotodegradabil pentru ambalaje ecologice” PNCDI-I-RELANSIN</i></p>	<p>Ministerul Educației Naționale – CNCSIS</p>	-	2003-2005	<p>Membru al echipei de cercetare</p>
<p><i>Ionic thermoplastic elastomers based on maleic ethylene-propylene terpolymer rubber – new materials with high performance properties, code 310, no. 3353</i></p> <p><i>„Elastomeri termoplastici pe baza de cauciuc etilen propilen terppolimer maleinizat-noi materiale cu proprietati performante”, contract CNCSIS tip At nr. 3353/01.07.2003</i></p>	<p>Ministerul Educației Naționale – CNCSIS – Proiecte de tip A</p>	7200	2003	<p>Membru al echipei de cercetare</p>

Data: 12.12.2019