

LISTA LUCRĂRILOR ȘTIINȚIFICE

I. Teza de doctorat

- Tema: **Corelațiile polimorfismului celulozei cu accesibilitatea ei chimică și structurală**;
Conducător științific: *Prof. Dr. Valentin I. Popa*; Secția Tehnologia Celulozei, Hârtiei și Fibrelor artificiale, Facultatea de Chimie Industrială, Universitatea Tehnică "Gheorghe Asachi", Iași.

II. Cărți publicate

- *Publicate în străinătate (ca autor):*

1. **Diana E. Ciolacu**, V.I. Popa, *Cellulose allomorphs: structure, accessibility and reactivity*, Editura Nova Science Publishers, Inc. United States, ISBN: 978-1-61668-323-8 (2010).

- *Publicate în țară (ca editor):*

2. Eco-sustainable food packaging based on polymer nanomaterials – Book of abstract COST Action: FA0904, editori: C. Vasile, **Diana E. Ciolacu**, Editura Tehnopress, Iași, Romania, ISBN: 978-973-702-786-3 (2010);
3. Dynamics of Complex Fluids - Book of abstracts, editori: S. Morariu, **Diana E. Ciolacu**, R. Darie, M. Bercea, Editura Tehnopress, Iași, Romania, ISBN: 978-973-702-849-5 (2011).

III. Capitole în cărți

- *Publicate în străinătate:*

1. **Diana E. Ciolacu**, V.I. Popa, *Cellulose allomorphs – overview and perspectives*, in „Cellulose: Structure and Properties, Derivatives and Industrial Uses”, (Ed.) A. Lejeune, T. Deprez, editura: Nova Science Publishers, Inc. United States, ISBN: 978-1-60876-388-7, capitol 1, p. 1-38 (2010).
2. G. Cazacu, A. Sdrobis, M. Pintilie, D. Rosu, **Diana E. Ciolacu**, M. Totolin, C. Vasile, *Swelling and electrokinetic properties of unbleached/bleached softwood Kraft cellulose fibers*, in „Fine Structure of Papermaking Fibres”, (Ed.) P. Ander, W. Bauer, S. Heinemann, P. Kallio, R. Passas, A. Treimanis, editura: Swedish University of Agricultural Sciences, Uppsala, Sweden, ISBN: 978-91-576-9007-4, capitol 3, p. 267-281 (2011).
3. **Diana E. Ciolacu**, L. Olaru, D. Suflet, N. Olaru, *Cellulose Esters - From Traditional Chemistry to Modern Approaches and Applications*, in „Pulp Production and Processing: From Papermaking to High-Tech Products”, (Ed.) V.I. Popa, editura: Smithers Rapra Technology Ltd., Shawbury, UK, ISBN-13: 978-1-847356345, capitol 8, p. 253-299 (2013).
4. **Diana E. Ciolacu**, R.N. Darie-Nita, *Nanocomposites Based on Cellulose, Hemicelluloses, and Lignin*, in „Nanomaterials and Nanocomposites: Zero- to Three-Dimensional Materials and Their Composites”, (Ed.) P.M. Visakh, M.J.M. Morlanes, editura: Wiley-VCH Verlag GmbH & Co. KGaA, Weinheim, Germany, ISBN: 9783527337804, capitol 11, p. 391-424 (2016).
5. **Diana E. Ciolacu**, *Biochemical modification of cellulosic biomass*, in „Biomass as renewable raw material for bioproducts”, (Ed.) V.I. Popa, I. Volf, editura: Elsevier, Amsterdam, The Netherlands, ISBN: 9780444637741 (2017), capitol 9, pp. 315-350 (2018).

6. **Diana E. Ciolacu**, D.M. Suflet, *Cellulose-based hydrogels for medical/pharmaceutical applications*, in „Biomass as renewable raw material for bioproducts”, (Ed.) V.I. Popa, I. Volf, editura: Elsevier, Amsterdam, The Netherlands, ISBN: 9780444637741, capitol 11, p. 401-439 (2018).
7. **Diana E. Ciolacu**, *Structure-property relationships in cellulose-based hydrogels*, in „Cellulose-based superabsorbent hydrogels”, (Ed.) H.I. Mondal, editura: Springer International Publishing, capitol 1, p. 1-32 (2018).
8. D. Rusu, **Diana E. Ciolacu**, *Cellulose-based hydrogels: design, structure-related properties and medical applications*, in „Pulp Production and Processing High-Tech Applications”, (Ed.) V.I. Popa, editura: De Gruyter, Berlin, Germany, capitol 10, p. 287–316 (2019).
9. **Diana E. Ciolacu**, V.I. Popa, *Nanocelluloses: preparations, properties and applications in medicine*; in „Pulp Production and Processing High-Tech Applications”, (Ed.) V.I. Popa, editura: De Gruyter, Berlin, Germany, capitol 11, p. 317–340 (2019).
10. **Diana E. Ciolacu**, *Sustainable hydrogels from renewable resources*, in „Sustainability of biomass through bio-based chemistry”, (Ed.) V.I. Popa, editura: CRC Press, Taylor and Francis Group, ISBN: 978-0-367-36595-0, capitol 6, p. 161-190 (2021).
11. D. Rusu, **Diana E. Ciolacu**, R. Vlase, *Morphological aspects of sustainable hydrogels*, in „Sustainability of biomass through bio-based chemistry”, (Ed.) V.I. Popa, editura: CRC Press, Taylor and Francis Group, ISBN: 978-0-367-36595-0, capitol 8, p. 201-228 (2021).
12. R. Nicu, **Diana E. Ciolacu**, *Bio-based stimuli-responsive hydrogels with biomedical applications*, in „Sustainability of biomass through bio-based chemistry”, (Ed.) V.I. Popa, editura: CRC Press, Taylor and Francis Group, ISBN: 978-0-367-36595-0, capitol 9, p. 229-262 (2021).
13. R.N. Darie-Nita, **Diana E. Ciolacu**, R. A. Vlase, *Biological pretreatments of lignocellulosic fibers and their effects on biocomposites performance*, in „Surface treatment methods of natural fibres and their effects on biocomposites”, (Ed.) A. Shahzad, F. Tanasa și C.A. Teaca, editura: Woodhead Publishing, Elsevier, Cambridge, USA, ISBN: 978-0-12-821863-1, capitol 7, p. 147-186 (2022).
14. R. Nicu, **Diana E. Ciolacu**, *Cellulose-based hydrogels for controlled drug delivery*, in „Cellulose-Based Hydrogels and Aerogels: Synthesis, Functionalization, Sustainable Applications”, (Ed.) G. Wei și J. Zhang, editura: Springer Nature, Switzerland, ISBN: 978-3-032-03007-8, capitol 5, p. 91-129 (2025).

- Publicate în țară:

15. **Diana E. Ciolacu**, R. Darie, G. Cazacu, *Sisteme polimerice pe baza de lignina – alcool poli(vinilic)*, in „Adezivi, materiale compozite si alte aplicatii pe baza de lignina”, (ed.) M. Totolin, G. Cazacu, editura: Pim, Iasi, ISBN: 978-606-520-740-0, capitol IV, p. 170-194 (2010);
16. **Diana E. Ciolacu**, *Ambalaje pentru alimente din materiale celulozice*, in „Noi ambalaje polimerice pentru alimente”, (ed.) C. Vasile, C.N. Cheaburu, editura: PIM, Iasi, ISBN 978-606-13-0009-9, capitol 4, p. 96-112 (2010).

IV. Articole publicate în reviste de specialitate de circulație internațională recunoscute (reviste cotate ISI)

1. **Diana E. Ciolacu**, V.I. Popa, *Structural changes of cellulose determined by dissolution in aqueous alkali solution*. *Cellulose Chem. Technol.* 39(3-4), 179-188 (2005).

2. **Diana E. Ciolacu**, V.I. Popa, H. Ritter, Cellulose derivatives with adamantoyl groups. *J. Appl. Polym. Sci.* 100(1), **105-112** (2006).
3. **Diana E. Ciolacu**, V.I. Popa, On the thermal degradation of cellulose allomorphs. *Cellulose Chem. Technol.* 40(6), 445-449 (2006).
4. **Diana E. Ciolacu**, F. Ciolacu, R. Dumitriu, C. Vasile , V.I. Popa, Kinetics aspects in the enzymatic hydrolysis of cellulose allomorphs. *Cellulose Chem. Technol.* 41(1), 35-40 (2007).
5. **Diana E. Ciolacu**, On the supramolecular structure of cellulose allomorphs after enzymatic degradation. *J. Optoelectron. Adv. Mater.* 9(4), 1033-1037 (2007).
6. **Diana E. Ciolacu**, V.I. Popa, The correlation between the reactivity and the supramolecular structure of allomorphs of cellulose. *Rev. Roum. Chim.* 52(4), 361–366 (2007).
7. **Diana E. Ciolacu**, M. Totolin, G. Constantinescu, **Diana E. Ciolacu**, Natural polymer modification under radiofrequency electrical discharge conditions. *J. Optoelectron. Adv. Mater.* 9(4), 970-974 (2007).
8. I. Raschip, C. Vasile, **Diana E. Ciolacu**, G. Cazacu, Semi-interpenetrating polymer networks containing polysaccharides. I. Xanthan/lignin networks. *High Perform. Polym.* 19(5), 603-621 (2007).
9. N. Olaru, **Diana E. Ciolacu**, D. Tampu, L. Olaru, Structural modifications of cellulose in heterogeneous acetylation process. *J. Optoelectron. Adv. Mater.* 9(12), 3917-3920 (2007).
10. O. Petreus, G. Cazacu, A.M. Necula, **Diana E. Ciolacu**, Synthesis and characterization of phosphorus-containing lignin-epoxy resins. *Cellulose Chem. Technol.* 42(9-10), 569-576 (2008).
11. **Diana E. Ciolacu**, J. Kovac, V. Kokol, The effect of the cellulose-binding domain from *Clostridium cellulovorans* on the supramolecular structure of cellulose fibers. *Carbohydr. Res.* **345**, 621–630 (2010).
12. A.M. Oprea, **Diana E. Ciolacu**, A. Neamtu, O.C. Mungiu, B. Stoica, C. Vasile, Cellulose/chondroitin sulfate hydrogels: synthesis, drug loading/release properties and biocompatibility. *Cellulose Chem. Technol.* 44(9), 369-378 (2010).
13. **Diana E. Ciolacu**, F. Ciolacu, V.I. Popa, Amorphous cellulose – structure and characterization. *Cellulose Chem. Technol.* 45(1-2), 13-21 (2011).
14. **Diana E. Ciolacu**, M. Cazacu, Synthesis of new hydrogels based on xanthan and cellulose allomorphs. *Cellulose Chem. Technol.* 45 (3-4), 163-169 (2011).
15. **Diana E. Ciolacu**, S. Gorgieva, D. Tampu, V. Kokol, Enzymatic hydrolysis of different allomorphic forms of microcrystalline cellulose. *Cellulose* 18, 1527–1541 (2011).
16. A.M. Oprea, L. Profire, C. Lupusoru, C. Ghiciuc, **Diana E. Ciolacu**, C. Vasilea, Synthesis and characterization of some cellulose/ chondroitin sulphate hydrogels and their evaluation as carriers for drug delivery. *Carbohydr. Res.* 87(1), 721– 729 (2012).
17. **Diana E. Ciolacu**, L. Pitol-Filho, F. Ciolacu, Studies concerning the accessibility of different allomorphic forms of cellulose. *Cellulose* 19(1), 55-68 (2012).
18. **Diana E. Ciolacu**, A.M. Oprea, N. Anghel, G. Cazacu, M. Cazacu, New cellulose - lignin hydrogels and their application in controlled release of polyphenols. *Mater. Sci. Eng. C*, **32**, 452–463 (2012);
19. O.M. Păduraru, **Diana E. Ciolacu**, R. Darie, C. Vasile, Synthesis and characterization of polyvinyl alcohol/cellulose cryogels and their testing as carriers for a bioactive component. *Mater. Sci. Eng. C*, **32**, 2508–2515 (2012).
20. **Diana E. Ciolacu**, F. Doroftei, G. Cazacu, M. Cazacu, Morphological and surface aspects of the cellulose-lignin hydrogels. *Cellulose Chem. Technol.*, 47(5-6), 377-386 (2013).
21. A.I. Chiriac, F.I.J. Pastor, V.I. Popa, M. Aflori, **Diana E. Ciolacu**, Changes of supramolecular cellulose structure and accessibility induced by the processive endoglucanase Cel9B from *Paenibacillus barcinonensis*. *Cellulose* **21**, 203–219 (2014).

22. **Diana E. Ciolacu**, A.I. Chiriac, F.I.J. Pastor, V. Kokol, The influence of supramolecular structure of cellulose allomorphs on the interactions with cellulose-binding domain, CBD3b from *Paenibacillus barcinonensis*. *Bioresour. Technol.* 157, 14-21 (2014).
23. **Diana E. Ciolacu**, C. Rudaz, M. Vasilescu, T. Budtova, Physically and chemically cross-linked cellulose cryogels: Structure, properties and application for controlled release. *Carbohydr. Res.* 151, 392–400 (2016).
24. A.R. Petrovici, I. Roșca, G. Dodi, A. Nicolescu, M. Avădanei, C.D. Varganici, **Diana E. Ciolacu**, Effects of culture medium composition on biosynthesis of exopolysaccharides. *Cell. Chem. Technol.*, 51(9-10), 821-830 (2017).
25. G. Cazacu, R.N. Darie-Nita, O. Chirila, M. Totolin, M. Asandulesa, **Diana E. Ciolacu**, J. Ludwiczak, C. Vasile, Environmentally friendly polylactic acid/modified lignosulfonate biocomposites. *J. Polym. Environ.* 25, 884–902 (2017).
26. I. Rosca, A.R. Petrovici, D. Peptanariu, A. Nicolescu, G. Dodi, M. Avadanei, I.C. Ivanov, A.C. Bostanaru, M. Mares, **Diana E. Ciolacu**, Biosynthesis of dextran by *Weissella confusa* and its *in vitro* functional characteristics. *Int. J. Biol. Macromol.* 107, 1765-1772 (2018).
27. **Diana E. Ciolacu**, G. Cazacu, New green hydrogels based on lignin, *J. Nanosci. Nanotechnol.* 18(4), 2811-2822 (2018).
28. A.R. Petrovici, A. Nicolescu, M. Silion, I. Rosca, **Diana E. Ciolacu**, Biopolymer biosynthesis by lactic acid bacteria strain in four different culture media. *Rev. Roum. Chim.* 63(7-8), 637-642 (2018).
29. D. Rusu, **Diana E. Ciolacu**, B.C. Simionescu, Cellulose-based hydrogels in tissue engineering applications. *Cell. Chem. Technol.* 53(9-10), 907-923 (2019).
30. **Diana E. Ciolacu**, R. Nicu, F. Ciolacu, Cellulose-based hydrogels as sustained drug delivery systems. *Materials* 13(22), 5270 (2020).
31. G. Cazacu, O. Chirilă, M. Totolin, **Diana E. Ciolacu**, L. Nita, M. Droboța, C. Vasile, Chemical treatment of lignosulfonates under DBD plasma conditions. I. Spectral characterization. *J. Polym. Environ.* 29, 900–921 (2021).
32. R. Nicu, F. Ciolacu, **Diana E. Ciolacu**, Advanced functional materials based on nanocellulose for pharmaceutical/medical applications. *Pharmaceutics* 13(8), 1125 (2021).
33. **Diana E. Ciolacu**, D. Rusu, R.N. Darie-Nita, D. Timpu, F. Ciolacu, Influence of gel stage from cellulose dissolution in NaOH-water system on the performances of cellulose allomorphs-based hydrogels. *Gels* 8, 410 (2022).
34. **Diana E. Ciolacu**, R. Nicu, F. Ciolacu, Natural polymers in heart valve tissue engineering: Strategies, advances and challenges. *Biomedicines* 10(5), 1095 (2022).
35. A. Ghilan, L.E. Nita, D. Pamfil, N. Simionescu, N. Tudorachi, D. Rusu, A.G. Rusu, M. Bercea, I. Rosca, **Diana E. Ciolacu**, A.P. Chiriac, One-step preparation of carboxymethyl cellulose - phytic acid hydrogels with potential for biomedical applications. *Gels* 8, 647 (2022).
36. R. Nicu, **Diana E. Ciolacu**, A.R. Petrovici, D. Rusu, M. Avadanei, A.C. Mihaila, E. Butoi, F. Ciolacu, 3D Matrices for enhanced encapsulation and controlled release of anti-inflammatory bioactive compounds in wound healing. *Int. J. Mol. Sci.* 24, 4213 (2023).
37. A. Ghilan, R. Nicu, **Diana E. Ciolacu**, F. Ciolacu, Insight into the latest medical applications of nanocellulose. *Materials* 16(12), 4447 (2023).
38. G. Rosu, E.I. Muresan, A.F. Spac, M. Diaconu, **Diana E. Ciolacu**, A. Danila, C. Tita, A. Muresan, Aromatherapeutic and antibacterial properties of cotton materials treated with emulsions containing peppermint essential oil (*Menthae piperitae aetheroleum*). *Polymers* 15, 2348 (2023).
39. A. Croitoriu, A.P. Chiriac, A.G. Rusu, A. Ghilan, **Diana E. Ciolacu**, I. Stoica, L.E. Nita, Morphological Evaluation of supramolecular soft materials obtained through co-assembly processes. *Gels* 9, 886 (2023).

40. **Diana E. Ciolacu**, R. Nicu, D.M. Suflet, D. Rusu, R.N. Darie-Nita, N. Simionescu, G. Cazacu, F. Ciolacu, Multifunctional hydrogels based on cellulose and modified lignin for advanced wounds management. *Pharmaceutics* 15, 2588 (2023).
41. R. Nicu, G. Lisa, R.N. Darie-Nita, M.I. Avadanei, A. Bargan, D. Rusu, **Diana E. Ciolacu**, Tailoring the structure and physico-chemical features of cellulose-based hydrogels using multi-epoxy crosslinking agents. *Gels* 10, 523 (2024).
42. **Diana E. Ciolacu**, Hydrogels from Renewable Resources: Advances in 3D Networks Based on Cellulose and Hemicellulose. *Polymers*. 17(20), 2760 (2025).

V. Articole publicate în reviste de specialitate din străinătate (reviste necotate ISI)

1. **Diana E. Ciolacu**, V.I. Popa, Synthesis and characterization of xanthan-cellulose hydrogels, *Balkan Pulp and Paper News*, IV, 9, 25-28 (2003).
2. **Diana E. Ciolacu**, F. Ciolacu, V.I. Popa, Supramolecular structure – a key parameter for cellulose biodegradation. *Macromol. Symp.* 272(1), 136-142 (2008).

VI. Articole publicate în reviste de specialitate din țară recunoscute de către CNCSIS (B+)

1. **Diana E. Ciolacu**, M.D. Suflet, O. Petreus, G. Cazacu, Synthese et caracterisation des allomorphes phosphoryles de la cellulose. *Buletinul Stiintific al Universității "Politehnica" din Timișoara* 46(60), 1-2, 107-111 (2001).
2. **Diana E. Ciolacu**, , V.I. Popa, O. Bedue, New hydrogels based on xanthan – cellulose. *Buletinul Stiintific al Universității "Politehnica" din Timișoara* 48(62), 1-2, 72-75 (2003).
3. **Diana E. Ciolacu**, C. Vasile, Xanthan/chondroitin sulfate hydrogels for medical and pharmaceutical applications. *Revista Medico-Chirurgicala. Soc. Med. Nat.* 112(2), 1, 140-144 (2008).
4. **Diana E. Ciolacu**, G. Cazacu, New polymeric networks: characterization and physical properties. *Revista Medico-Chirurgicala. Soc. Med. Nat.* 112(2), 1, 146-149 (2008).
5. G.-M.Pricope, **Diana E. Ciolacu**, R. N. Darie, C. Vasile, Study on the antimicrobial properties of active packaging based on cellulose, chitosan and polyethylene. *Lucrări științifice. Seria Medicină Veterinară* 54(4), 186-194 (2011).

VII. Articole publicate în alte reviste de specialitate din țară

1. Gh. Rozmarin, M. Dărăngă, Th.Măluțan, D. Dumitraș, O nouă cale de investigare a alomorfilor cristalini: Derivatografie Termică. *Celuloză și Hârtie* 46(2), 35-52 (1997).
2. Th. Măluțan, A. Stoleriu, **D. Dumitraș**, M.L. Kraus, Investigarea polimorfismului structural al celulozelor prin metode fizico –chimice. *Celuloză și Hârtie* 48(4), 3–14 (1999).
3. **Diana E. Ciolacu**, V.I. Popa, Studiu privind dizolvarea celulozei în soluții de NaOH prin înghețare la temperaturi scăzute. *Celuloză și Hârtie* 52(1), 35-41 (2003).
4. **Diana E. Ciolacu**, V.I. Popa, Studii privind modificarea structurii supramoleculare a celulozelor dizolvate în soluții alcaline prin spectroscopie FTIR. *Celuloză și Hârtie* 52(4), 5-12 (2003).
5. **Diana E. Ciolacu**, V.I. Popa, Studii privind accesibilitatea diferitelor forme alomorfe ale celulozei. *Celuloză și Hârtie* 53(4), 9-16 (2004).
6. Irina Trifanov, **Diana E. Ciolacu**, Cornelia Vasile, V. Pohoata, G. Singurel, The study of drug release-controlled systems using UV-VIS spectroscopy. *Revista V. Adamachi* XII(1-4), 147-150 (2004);

7. **Diana E. Ciolacu**, Studiul structurii supramoleculare a formelor polimorfe ale celulozei prin difracție cu raze X. *Celuloză și Hârtie* 54(3), 21-26 (2005).
8. N. Olaru, **Diana E. Ciolacu**, L. Olaru, Acetilarea heterogena a celulozei in prezenta toluenului. *Celuloză și Hârtie* 54(3), 46-50 (2005).
9. **Diana E. Ciolacu**, Studiu asupra structurii supramoleculare a formelor alomorfe ale celulozei prin spectroscopie FTIR. *Celuloză și Hârtie* 56(1) 18-22 (2007).
10. **Diana E. Ciolacu**, G. Cazacu, N. Anghel, Synthesis of nanostructure systems from natural polymers and polyphenols. *J. Optoelectron. Adv. Mater. - Symposia* 1(6), 1101–1105 (2009).
11. G. Cazacu, **Diana E. Ciolacu**, A. Ioanid, F. Doroftei, A. Cojocariu, C. Tanase, A. Oprea, Behaviour of the polymeric systems containing lignin in the various culture media. *J. Optoelectron. Adv. Mater. - Symposia* 1(6), 1110–1113 (2009).

VIII. Articole publicate în extenso în volumele unor manifestări științifice internaționale recunoscute din țară și din străinătate

1. **Diana E. Ciolacu**, V.I. Popa, Studies on the relationships between structure and cellulose reactivity, *Third International Symposium – CEPROHART BRĂILA*, Braila, Romania, 29 mai – 1 iunie, p. 1- 7 (2000).
2. **Diana E. Ciolacu**, G. Cazacu, V.I. Popa, Thermal behaviour of cellulose derivatives, *12th Romanian International Conference on Chemistry and Chemical Engineering, RICCE 12*, Bucuresti, Romania, September 13-15, p. 155-162 (2001).
3. **Diana E. Ciolacu**, V.I. Popa, S. Ciovica, Factors governing dissolution of cellulose in aqueous NaOH, *Seventh European Workshop on Lignocellulosics and Pulp*, Turku/Åbo, Finland, August 26-29, p. 153-156 (2002).
4. **Diana E. Ciolacu**, H. Ritter, V.I. Popa, Synthesis of new cellulose esters with adamantoyl groups, *13th International Symposium on Cellulose Chemistry and Technology*, Iasi, Romania, 3-5 September, p. 327-332 (2003).
5. **Diana E. Ciolacu**, V.I. Popa, Structural changes of cellulose in aqueous alkali solution, *Eighth European Workshop on Lignocellulosics and Pulp, EWLP 2004*, Riga, Latvia, August 22-25, p. 433-436 (2004).
6. **Diana E. Ciolacu**, Heterogeneously biodegradation of allomorphs forms of cellulose, *ECOINVENT 2005 - Conferință Internațională "Cercetări și Tehnologii Inovative Performante"*, Iasi, Romania, 26-29 May, p. 117-122 (2005).
7. **Diana E. Ciolacu**, G. Cazacu, Enzymatic hydrolysis - a green tool in cellulose activation, *EUROGREENPOL – Summer School on Green Chemistry of Polymers*, Iasi, Romania, 21-27 August, p. 57-63 (2005).
8. **Diana E. Ciolacu**, Structural modifications of cellulose allomorphs during the enzymatic hydrolysis reaction, *9th European Workshop on Lignocellulosics and Pulp, EWLP 2006*, Vienna, Austria, August 27-30, p. 200-203 (2006).
9. **Diana E. Ciolacu**, G. Cazacu, DSC investigations on the cellulose polymorphs accessibility, *9th European Workshop on Lignocellulosics and Pulp, EWLP 2006*, Vienna, Austria, August 27-30, p. 204-207 (2006).
10. N. Olaru, L. Olaru, **Diana E. Ciolacu**, On cellulose allomorphs reactivity in heterogeneous acetylation process, *9th European Workshop on Lignocellulosics and Pulp, EWLP 2006*, Vienna, Austria, August 27-30, p. 410-412 (2006).
11. **Diana E. Ciolacu**, Synthesis and characterization of cellulose hydrogels, *International Conference on Materials Science & Engineering – BRAMAT 2007*, Brasov, Romania, 22-24 February, p. 83-88 (2007).

12. **Diana E. Ciolacu**, F. Ciolacu, Study concerning cellulose structure control by dissolution - regeneration process, *International Conference on Materials Science & Engineering – BRAMAT 2007*, Brasov, Romania, 22-24 February, p.135-139 (2007).
13. M.I. Popa, M. Frunza, I. Volf, **Diana E. Ciolacu**, Intercalation of polyphenols into layered double hydroxide, *ITALIC 4 - Science and Technology of Biomass: Advances and Challenges*, Rome, Italy, May 8-10, p. 203-206 (2007).
14. **Diana E. Ciolacu**, G. Cazacu, Synthesis of lignin/poly(vinyl alcohol) hydrogels, *ITALIC 4 - Science and Technology of Biomass: Advances and Challenges*, Rome, Italy, May 8-10, p. 207-210 (2007).
15. **Diana E. Ciolacu**, G. Cazacu, Swelling and thermal properties of cellulose/lignin or ligninepoxy resin hydrogel, *8th ILI Forum, The ILI Umbrella programme and other Existing or New Approaches in Lignin Research*, Rome, Italy, May 10-12, p. 75-78 (2007).
16. **Diana E. Ciolacu**, DSC investigations on the cellulose polymorphs accessibility, *5th Conference „New research Trends in Material Science” ARM 5*, Sibiu, Romania, September 5-7, Vol. II, p. 421-424 (2007).
17. **Diana E. Ciolacu**, Thermal study on the cellulose degradation, *5th Conference „New research Trends in Material Science” ARM 5*, Sibiu, Romania, September 5-7, Vol. II, p. 487-490 (2007);
18. G. Cazacu, **Diana E. Ciolacu**, A.M. Necula, M. Drobeta, Poly(vinyl alcohol)/lignin derivative blends, *5th Conference „New research Trends in Material Science” ARM 5*, Sibiu, Romania, September 5-7, Vol III, p. 735-738 (2007).
19. G. Cazacu, O. Petreus, **Diana E. Ciolacu**, C. Vasile, Dependence of the chemical activation/modification of lignocellulosics on their structure and morphology, *COST Action E54 - Characterisation of the fine structure of papermaking fibres using new technologies*, Riga, Latvia, 25-26 Aprilie, p. 74-78 (2007).
20. **D.Ciolacu**, I. Spiridon, G. Cazacu, Cellulose cinnamate: Synthesis and characterization, *Macro- and Supramolecular architectures and materials – MAM-08*, Dusseldorf, Germania, 7-11 September, p. 283-286 (2008).
21. **Diana E. Ciolacu**, The effect of polymorphism on the biodegradability of cellulose, *Macro- and Supramolecular architectures and materials – MAM-08*, Dusseldorf, Germania 7-11 September, p. 337-340 (2008).
22. **Diana E. Ciolacu**, Investigation on the accessibility of different celluloses, *Macro- and Supramolecular architectures and materials – MAM-08*, Dusseldorf, Germania, 7-11 September, p. 341-344 (2008).
23. **Diana E. Ciolacu**, G. Cazacu, Characterization of lignin/poly (vinyl alcohol) hydrogels, *PPS-24 - The Polymer Processing Society 24th Annual Meeting*, Salerno, Italy, 15-19 June, CD S14-971 (2008).
24. G. Cazacu, **Diana E. Ciolacu**, A.M. Necula, C. Grigoras, Lignin containing interpenetrated networks, *PPS-24 - The Polymer Processing Society 24th Annual Meeting*, Salerno, Italy, 15-19 June, CD S14-973 (2008).
25. G. Cazacu, **Diana Ciolacu**, M. Dobrota, Spectroscopic study on celluloses treated with alkaline solution at low temperature, *International Conference “INVENTICS – Performance and technical creativity”*, Iasi, Romania, 14-24 mai, p. 169-175 (2008).
26. **Diana Ciolacu**, New hydrogels basis on cellulose, *International Conference “INVENTICS – Performance and technical creativity”*, Iasi, Romania, 14-24 mai, p. 177-182 (2008).
27. I. Raschip, **Diana E. Ciolacu**, G. Cazacu, C. Vasile, New xanthan-lignin networks, *International Conference “INVENTICS – Performance and technical creativity”*, Iasi, Romania, 14-24 mai, p. 481-486 (2008).
28. **Diana E. Ciolacu**, J. Kovač, V. Kokol, The effect of cellulose-binding domain from *Clostridium cellulovorans* on supramolecular structure of cotton cellulose, *Italic 5 - Science*

- & *Technology of Biomasses COST BIOBIO (FP0602) Biotechnology for biomass valorization*, Varenna (Lecco), Italy, September 1-4, p. 209-212 (2009).
29. **Diana E. Ciolacu**, V. Kokol, Adsorption of cellulose binding domain from *Clostridium cellulovorans* into different cellulosic substrata, *INTB - 6th International Conference on Textile and Polymer Biotechnology*, Ghent, Belgium, 23-25 September, p. 126-131 (2009).
 30. A.M. Oprea, **Diana E. Ciolacu**, L. Profire, C. Vasile, Cellulose/chondroitin sulphate hydrogels as release formulations: kinetic studies of swelling and drug release, *14th Panhellenic Pharmaceutical Congress*, Athens, Greece, 9-11 May, CD PS003, p. 1-6 (2009).
 31. **Diana E. Ciolacu**, Novel cellulose-xanthan hydrogels for biomedical applications, *14th International Symposium on Cellulose Chemistry and Technology*, Iasi, Romania, 8-10 septembrie, p. 41-45 (2010).
 32. **Diana E. Ciolacu**, New hydrogels for medical and pharmaceutical applications, *The 14th International Conference "INVENTICA 2010"*, Iasi, Romania, 9-11 iunie, p. 469-474 (2010).
 33. **Diana E. Ciolacu**, S. Maier, Rheological properties of hydrogels based on cellulose allomorphs, *Dynamics of Complex Fluids*, Iasi, Romania, 5-7 mai, p. 58-64 (2011).
 34. **Diana E. Ciolacu**, G. Cazacu, New superabsorbant hydrogels based on cellulose and lignin, THE 19th International Conference "INVENTICA 2015", June 24th-26th, Iasi, p. 161-165 (2015).
 35. **Diana E. Ciolacu**, G. Cazacu, Thermal characterization of the lignin-based hydrogels, The XXth International Conference „INVENTICA 2017”, 29 June – 1 July 2016, p. 150 – 158 (2016).
 36. **Diana E. Ciolacu**, Structure and properties of new superabsorbant hydrogels, The XXth International Conference „INVENTICA 2016”, 29 June – 1 July, p. 159-166 (2016).
 37. **Diana E. Ciolacu**, Cellulose-based hydrogels: synthesis and characterization, The XXIth International Conference „INVENTICA 2017”, 29th – 30th June, p. 21-28 (2017).
 38. A.R. Petrovicia, I. Rosca, A. Nicolescu, **Diana E. Ciolacu**, Dextran biosynthesis by new isolated lactic acid bacteria denoted PP34, The XXIth International Conference „INVENTICA 2017”, 29th – 30th June, p. 100-106 (2017).
 39. **Diana E. Ciolacu**, D. Rusu, F.I.J. Pastor, Cellulose hydrogels for tissue engineering, The 23th International Conference of Inventics "INVENTICA 2019", 26-28 June, Iasi, Romania, p. 46-51 (2019).
 40. D. Rusu, **Diana E. Ciolacu**, Hydrogel matrices based on polysaccharides: design-morphology relationship, The 23th International Conference of Inventics "INVENTICA 2019", 26-28 June, Iasi, Romania, p. 59-67 (2019).
 41. **Diana E. Ciolacu**, A.R. Petrovici, A.C. Mihaila, E. Butoi, Cellulose-dextran hydrogels in heart valve tissue engineering, The 23th International Conference of Inventics "INVENTICA 2019", 26-28 June, Iasi, Romania, p. 77-84 (2019).
 42. A.M. Șerban, L.E. Niță, A. Ghilan, **Diana E. Ciolacu**, Ultrasound-assisted preparation and characterization of polymeric microparticles, The XXVII International Conference, "INVENTICA 2023. Science of creativity", 22 iunie 2023, Iasi, p. 122-130 (2023).
 43. A.M. Șerban, A. Ghilan, A.G. Rusu, **Diana E. Ciolacu**, L.E. Niță, Development and evaluation of *origanum vulgare* essential oil nanoemulsion using low-energy methods, Proceeding of "The XXVIII International Conference „INVENTICA 2024. Science of creativity”, 4 iulie, Iasi, p. 1-11 (2024).

IX. Articole publicate în extenso în volumele unor manifestări științifice naționale

1. Gh, Rozmarin, G, Cazacu, L, Odochian, E, Costea, M, Macoveanu, **D. Dumitraș**, Dezincrustarea nitro-acetică a celoligninei furfurolice, 2, Parametrii cinetici, A XXII-a Sesiune

de *Comunicări Stiințifice*, Olănești, Râmnicu Vâlcea, 23-25 octombrie, vol. II, p. 905-908 (1996).

2. **Diana E. Ciolacu**, Studiu asupra structurii supramoleculare a formelor alomorfe ale celulozei prin spectroscopie FTIR, *Conferința Națională „Știința și Ingineria Lemnului în Mileniul III”*, Brașov, România, 4-6 Noiembrie, p.118-121 (2005).

X. Brevete acordate

1. **Diana E. Ciolacu**, *Procedeu de obținere a unui material absorbant pe bază de celuloză*, Brevet de invenție RO 122780 (2010).
2. **Diana E. Ciolacu**, C. Alupei, *Procedeu de obținere a unor hidrogeluri superabsorbante pe bază de celuloză-xantan*, Brevet de invenție RO 123143 (2010).
3. I. Raschip, **Diana E. Ciolacu**, C. Vasile, G. Cazacu, *Procedeu și compoziție pentru obținerea de noi hidrogeluri*, Brevet de invenție RO 123275 (2010).
4. **Diana E. Ciolacu**, G. Cazacu, *Procedeu de obținere a unor hidrogeluri pe bază de celuloză – lignină sau celuloză-rășină lignin-epoxidica*, Brevet de invenție RO 127173 (2013).
5. **Diana E. Ciolacu**, G. Cazacu, *Compoziție și procedeu de obținere a unor materiale superabsorbante pe bază de alcool polivinilic – lignină*, Brevet de invenție, RO 128998 (2017).
6. **Diana E. Ciolacu**, A.M. Oprea, V. Cornelia, *Compoziție pentru obținerea unor hidrogeluri bicomponente*, Brevet de invenție RO 126831 (2018).
7. A.R. Petrovici, **Diana E. Ciolacu**, *Procedeu biotehnologic de obținere a dextranului prin fermentarea tulpinii *Weissella confusa* ICMPP29*, Brevet de invenție RO 133177 (2024).

XI. Proiecte de cercetare-dezvoltare-inovare pe bază de contract/grant

- Granturi/contracte cu finanțare din străinătate:

1. Contract Sponge N° GRD1-1999-10853, Programme "Competitive and SustainableGrowth", "SPONGE - New Environmentally Friendly Technology for Cellulose Three Dimensional Objects", Durata: 2000-2003, Responsabil proiect: V. Harabagiu.
2. Contract SEETechnology - SEE/D/0224/1.2/X, "Co-operation of SEE science parks for the promotion of transnational market uptake of R&D results and technologies by SMEs", Durata: 2012-2014, Responsabil proiect: S. Coseri, valoare totala: 144.180 €.

- Granturi și contracte cu finanțare din țară:

1. Contract Nr. 3040, MCT: Procese neconvenționale de sinteză a unor compuși macromoleculari, Responsabil: A.P. Chiriac, durata: 1997-1998, valoare totala: 2.700 RON.
2. Contract Nr. 4091, MCT: Studiul mecanismelor de modificare chimică a polimerilor naturali destinați materialelor compozite, Responsabil: G. Cazacu, valoare 1998: 1.370 RON.
3. Contract Nr. 6182, ANSTI/ Nr. 6182, CNCSIS: Noi derivați de celuloză, sinteza dirijată, relații structură-proprietăți, aplicații, Responsabil: G. Cazacu, durata: 2000-2002, valoare totala: 9.050 RON.
4. Contract Nr. 7002, ANSTI/ Nr. 33461, CNCSIS: Polielectroliti pe bază de polizaharide utilizați în protecția mediului înconjurător, Responsabil: M.D. Suflet, valoare 2001: 3.500 RON.
5. Contract Nr. 41400/32952/39058, CNCSIS: O noua clasă de materiale din resurse regenerabile, Responsabil: G. Cazacu, durata: 2003-2005, valoare totala: 40.000 RON.
6. Contract CERES Nr. 4-250: Noi derivați de lignină, sinteză, caracterizare, proprietăți, domenii de aplicații, Responsabil: G. Cazacu, durata: 2004-2006, valoare totala: 69.500 RON.

7. Contract Nr. 32952/34670, CNCSIS: Sinteza și caracterizarea sistemelor multicomponente poliuretan-rășini epoxidice, Responsabil: L. Roșu, valoare 2004: 63.000 RON.
8. Contract 55GR/ 64GR/71GR, CNCSIS: Noi rețele polizaharidice: corelata structura – morfologie – proprietati – aplicatii, Responsabil proiect: **Diana E. Ciolacu**, durata: 2006-2008, valoare totala: 115.000 RON.
9. Contract CEEEX, Program MATNANTECH, Modul I, Nr. 108, NANOCOFARM: Noi sisteme nanostructurate utilizate pentru eliberarea controlata a agentilor farmacologici, Partener P1 - ICMPP, Responsabil proiect: **Diana E. Ciolacu**, durata: 2006-2008, valoare totala: 200.000 RON.
10. Contract CEEEX, Program MATNANTECH, MODUL I, NR. 102, LignoMat: Lignina-sursa de materii prime pentru combustibili neconventionali, energie, produse chimice și materiale performante in conditiile dezvoltarii durabile, Director proiect: G. Cazacu, durata: 2006-2008, valoare totala: 520.000 RON.
11. Contract CEEEX, Program BIOTECH, Modulul 3, Nr 179, BCM – Net: Dezvoltarea capacitatii de integrare a Romaniei in cadrul programelor, platformelor si retelelor europene in domeniul obtinerii de biocompozite cu aplicatii multisectoriale, Responsabil proiect: G. Cazacu, durata: 2006-2008, valoare totala: 30.000 RON.
12. Contract CEEEX, Program BIOTECH, RECOSOL: Reconstructia ecologica prin procedee de micoremediere a solurilor degradate de activitatile miniere, Responsabil proiect: A. Ioanid, valoare 2006: 71.181 RON.
13. Contract CALIST Nr. 6114, INCDSB: Realizarea de biopolimeri matriceali naturali multifunctionali pentru biocompatibilizarea polimerilor sintetici destinati utilizarii medicale, Responsabil proiect: C. Vasile, valoare 2006: 60.000 RON.
14. Contract CEEEX, Program VIASAN, IDEAPOL: Arhitecturi inovative degradabile, biocompatibile și bioactive pe bază de polimeri naturali și sintetici”, Director proiect: C. Vasile, durata: 2006-2008, valoare totala: 189.600 RON.
15. Contract Nr. 2108, Program RELANSIN, BIOFIL: Noi filme biodegradabile pe bază de resurse regenerabile, cu aplicații în agricultură, ambalaje și alte produse cu durată determinată de viață, Director proiect: C. Vasile, valoare 2006: 7.000 RON.
16. Program EUREKA, Cod 295 E, BIOPACKAGING: Tehnologii noi de obtinere a ambalajelor bioactive, Director proiect: C. Vasile, durata: 2010-2011, valoare totala: 135.000 RON.
17. Contract PN-II-RU-TE-2014-4-0558, MATINOV: Matrici hidrofile inovatoare pe baza de polimeri cu proprietati proiectate pentru aplicatii medicale, Director proiect: **Diana E. Ciolacu**, durata: 2015-2017, valoare totala: 550.000 RON.
18. Contract PN-II-PT-PCCA-2, PAPERCON: Dezvoltarea de materiale neconvenționale și a unei tehnici de tratament în plasmă rece pentru soluții sustenabile în conservarea patrimoniului pe suport de hârtie, Responsabil proiect: G. Cazacu, durata: 2012-2015, valoare totala: 750.000 RON.
19. Contract PN-III-P3-3.1-PM-RO, BIOGELS: Aero- și criogeluri pe baza de biopolimeri - materiale versatile pentru aplicații medicale, Director proiect: **Diana E. Ciolacu**, durata: 2017-2018, valoare totala: 28.755 RON.
20. Contract PN-III-P1-1.2-PCCDI-2017-0697: Terapii inteligente pentru boli non-comunicabile, bazate pe eliberarea controlata de compusi farmacologici din celule incapsulate dupa manipulare genetica sau bionanoparticule vectorizate, INTERA, responsabil ICMPP: G. Fundueanu-Constantin; responsabil proiect P2-INTERA: **Diana E. Ciolacu**, durata: 2018-2020, valoare totala: 4.056.846 RON.
21. Contract PN-III-P2-2.1-PED-2021: Sisteme bio-hibride îmbogățite cu uleiuri extrase biotehnologic aplicabile în ingineria țesutului cutanat, Director proiect: Dr. A.G. Rusu, valoare 2023: 265.250 RON.

22. Contract PN-IV-P7-7.1-PED-2024-1788: Hidrogeluri termosensibile multicomponente avansate si scalabile pentru vindecarea ranilor diabetice, Director proiect: L.E. Nița, valoare totala: 746.162 RON.

- Alte contracte:

1. Program Interdisciplinar de Prevenire a Fenomenelor cu Risc Major la Scara Nationala, „*Diminuarea riscurilor generale de poluare cu deseuri de polimeri si cu substante utilizate in agricultura si industrie*”, Responsabil proiect: M. Totolin (2004).
2. Proiect „*Fondul Social European – Program de burse postdoctorale Cristofor I. Simionescu*”, BIOMATERIALE, Coordonator Proiect: Acad. Bogdan C. Simionescu, Cod Contract: POSDRU/89/1.5/S/55216 (2010-2013).
3. Proiect european „*EPNOE - European Polysaccharide Network of Excellence*” (2005-2009).
4. Proiect european „*STREAM - Strengthening the Romanian research capacity in Multifunctional Polymeric Materials*”, Nr. 264115, FP7-REGPOT-2010-1, Coordonator de proiect: L. Sacarescu (2010-2013).
5. *COST Action E41* - Analytical tools with applications for wood and pulping chemistry.
6. *COST Action 868* - Biotechnical functionalisation of renewable polymeric materials.
7. *COST Action E54* - Characterisation of the fine structure of papermaking fibres using new technologies.
8. *COST Action FP0602* - Biotechnology for lignocellulose biorefineries.
9. *COST Action FA0904* - Eco-sustainable food packaging based on polymer nanomaterials.

XII. Alte lucrări și contribuții științifice

XII.1. Conferințe

- Manifestări internaționale – invited lectured:

1. G. Cazacu, O. Petreus, **Diana E. Ciolacu**, C. Vasile, „Dependence of the chemical activation/ modification of lignocellulosics on their structure and morphology”, *COST Action E54 - Characterisation of the fine structure of papermaking fibres using new technologies*, Riga, Latvia, 25-26 April (2007).

- Manifestări internaționale – în institute vizitate:

2. **Diana E. Ciolacu**, “Composites with natural polymers”, *schimb interacademic* - Institute of Macromolecular Chemistry, Academy of Sciences of the Czech Republic, Prague, Czech Republic, 20 June (2006).
3. **Diana E. Ciolacu**, “Cellulose allomorphs – structure, accessibility, reactivity and applications”, *schimb interacademic* - Institute of Macromolecular Compounds, Russian Academy of Science, Sankt Petersburg, Rusia, 9 iunie (2012).
4. **Diana E. Ciolacu**, „Cellulose-based materials for biomedical applications”, *stagiu* - University of Barcelona, Faculty of Biology, Barcelona, Spania, 7 septembrie (2012).

- Manifestări naționale – invited lectured:

5. **Diana E. Ciolacu**, A.R. Petrovici, G. Pricope-Gavrila, R. Nicu, Hydrogels in heart valve tissue engineering application, Workshop “Progrese recente in domeniul obtinerii de bio-matrici in ingineria valvei aortice”, Bucuresti, 22 mai (2019).

XII.2. Comunicări

- *Manifestări internaționale:*

1. Gh. Rozmarin, M.L. Craus, Th. Mălutan, A. Stoleriu, **D. Dumitraș**, Study of structural polymorphism of celluloses with physical and chemical methods, *11th International Symposium on Cellulose Chemistry and Technology*, Iași, Romania, September 12-14, p. 66 (1995).
2. G. Cazacu, **Diana E. Ciolacu**, Behaviour of cellulose allomorphs during dyeing process, *The 7th Meeting of Pulp and Paper Industry of Balkan Countries*, Novisad, Yugoslavia, 8-10 November, p. 9 (2000).
3. **Diana E. Ciolacu**, G. Cazacu, V.I. Popa, Thermal behaviour of cellulose derivatives, *RICCCE 12 - 12th Romanian International Conference on Chemistry and Chemical Engineering*, Bucharest, Romania, September 13-15, CB2 (2001).
4. O. Petreuş, G. Cazacu, **Diana E. Ciolacu**, D. Suflet, Blends of phosphorilylated cellulose with synthetic polymers, *RICCCE 12 - 12th Romanian International Conference on Chemistry and Chemical Engineering*, Bucharest, Romania, September 13-15, CB3 (2001).
5. **Diana E. Ciolacu**, D. Suflet, O. Petreus, G. Cazacu, Synthèse et caractérisation des allomorphes phosphorylés de la cellulose, *V-eme Colloque Franco-Roumain sur les Polymeres, Synthèse, Modifications et Propriétés des Polymeres; Polymeres et L'Environnement*, Timisoara, Roumanie, 3-7 Septembre, S8-1 (2001).
6. **Diana E. Ciolacu**, V.I. Popa, The solubility of cellulose in aqueous alkali solution, *The 9th Meeting of Pulp and Paper Industry of Balkan Countries*, Balatonfüred, Hungary, October 9–11, p. 5 (2002).
7. M.D. Suflet, **Diana E. Ciolacu**, Phosphonated allomorph celluloses behaviour at enzymatic hydrolyses, *The 9th Meeting of Pulp and Paper Industry of Balkan Countries*, Balatonfüred, Hungary, October 9–11, p. 6 (2002).
8. **Diana E. Ciolacu**, V.I. Popa, Synthesis and characterization of xanthan-cellulose hydrogels, *The 9th Meeting of Pulp and Paper Industry of Balkan Countries*, Balatonfüred, Hungary, October 9–11, p. 7 (2002).
9. **Diana E. Ciolacu**, V.I. Popa, O. Bedue, Nouveaux Hydrogels xanthane-cellulose, *6^{ème} Colloque Franco - Roumain sur les POLYMERES*, Rouen, France, 8-10 September (2003).
10. **Diana E. Ciolacu**, V.I. Popa, Considerations on the crosslinking of cellulose, *10th Meeting of Pulp and Paper Industry of the Balkan (Southeast European) Countries*, Agia Triada, Thessaloniki, Greece, 29-31 October, p. 2 (2003).
11. **Diana E. Ciolacu**, V.I. Popa, Homogeneously crosslinking of cellulose in NMMO solution, *10th Meeting of Pulp and Paper Industry of the Balkan (Southeast European) Countries*, Agia Triada, Thessaloniki, Greece, 29-31 October, p. 2 (2003).
12. **Diana E. Ciolacu**, V.I. Popa, X-ray study on the dissolution of cellulose in alkaline solutions at low temperature, *10th Meeting of Pulp and Paper Industry of the Balkan (Southeast European) Countries*, Agia Triada, Thessaloniki, Greece, 29-31 October, p. 3 (2003).
13. **Diana E. Ciolacu**, V.I. Popa, DSC study of cellulose allomorphs, *11th Meeting of Pulp and Paper Industry of the Balkan Southeast European Countries*, Opatija, Croatia, October 6-8, p. 1 (2004).
14. **Diana E. Ciolacu**, V.I. Popa, Role of supramolecular structure of cellulose in enzymatic hydrolysis, *11th Meeting of Pulp and Paper Industry of the Balkan Southeast European Countries*, Opatija, Croatia, October 6-8, p. 2 (2004).
15. **Diana E. Ciolacu**, Heterogeneously biodegradation of allomorphs forms of cellulose, *ECOINVENT a XVII-a Conferință Internațională de Inventică "Cercetări și Tehnologii Inovative Performante" ECOINVENT*, Iasi, Romania, 26-29 May (2005).

16. **Diana E. Ciolacu**, V.I. Popa, Interdependance entre reactivite et la structure supramoleculaire des formes polymorphes de la cellulose, *7th Colloque Franco-Roumain sur les Polymeres*, Iasi, Romania, 2-6 September (2005).
17. **Diana E. Ciolacu**, F. Ciolacu, X-ray diffraction study on enzymatic degradation of cellulose allomorphs, *12th Meeting of the Pulp and Paper Industry of Southeast European Countries*, Brasov, Romania, 21-23 September, p. 2 (2005).
18. **Diana E. Ciolacu**, G. Cazacu, Thermal degradation of cellulose allomorphs, *12th Meeting of the Pulp and Paper Industry of Southeast European Countries*, Brasov, Romania, 21-23 September, p. 4 (2005).
19. **Diana E. Ciolacu**, V.I. Popa, Amorphous cellulose regenerated from SO₂ – DEA - DMSO system, *12th Meeting of the Pulp and Paper Industry of Southeast European Countries*, Brasov, Romania, 21–23 September, p. 4 (2005).
20. **Diana E. Ciolacu**, G. Constantinescu, N. Anghel, G. Cazacu, Enzymatic functionalization of natural polymers, *COST 868 - Biotechnical functionalisation of renewable polymeric materials*, Turin, Italia, 18 Decembrie (2006).
21. **Diana E. Ciolacu**, Synthesis and characterization of cellulose hydrogels, *International Conference on Materials Science & Engineering – BRAMAT 2007*, Brasov, Romania, 22-24 February, p. 305 (2007).
22. **Diana E. Ciolacu**, F. Ciolacu, Study concerning cellulose structure control by dissolution - regeneration process, *International Conference on Materials Science & Engineering – BRAMAT 2007*, Brasov, Romania, 22-24 February, p. 316 (2007).
23. **Diana E. Ciolacu**, New hydrogels basis on cellulose, *International Conference “INVENTICS – Performance and technical creativity”*, Iasi, Romania, 14-24 mai, p. 177 (2008).
24. G. Cazacu, **Diana E. Ciolacu**, M. Dobrota, Spectroscopic study on celluloses treated with alkaline solution at low temperature, *International Conference “INVENTICS – Performance and technical creativity”*, Iasi, Romania, 14-24 mai p. 169 (2008).
25. G. Cazacu, **Diana E. Ciolacu**, T.V. Bubulac, M. Drobeta, Swelling kinetics study of E54 pulp samples, *COST Action E54*, Graz, Austria, 10-11 April (2008).
26. I. Raschip, **Diana E. Ciolacu**, G. Cazacu, C. Vasile, New xanthan-lignin networks, *International Conference “INVENTICS – Performance and technical creativity”*, Iasi, Romania, 14-24 mai, p. 481 (2008).
27. **Diana E. Ciolacu**, J. Kovač, V. Kokol, The effect of cellulose-binding domain from *Clostridium cellulovorans* on supramolecular structure of cotton cellulose, *Italic 5 - Science & Technology of Biomasses COST BIOBIO (FP0602) Biotechnology for biomass valorization*, Varenna (Lecco), Italy, September 1-4, p. 9 (2009).
28. **Diana E. Ciolacu**, V. Kokol, Adsorption of cellulose binding domain from *Clostridium cellulovorans* into different cellulosic substrata, *INTB - 6th International Conference on Textile and Polymer Biotechnology*, Ghent, Belgium, 23-25 September (2009).
29. G. Cazacu, D. Rosu, M. Pintilie, M. Totolin, **Diana E. Ciolacu**, C. Vasile, Electrokinetic properties of COST E54 samples, *COST Action E54 - “Characterisation of the fine structure and properties of papermaking fibres using new technologies”*, Tampere, Finland, 4-6 May (2009).
30. **Diana E. Ciolacu**, Rheological behaviour of cellulose hydrogels, *1st SRR - Summer School of Rheology*, Cluj-Napoca, Romania, 26-29 august (2010).
31. **Diana E. Ciolacu**, Novel cellulose-xanthan hydrogels for biomedical applications, *14th International Symposium on Cellulose Chemistry and Technology*, Iasi, Romania, 8-10 septembrie (2010).
32. A.M. Oprea, **Diana E. Ciolacu**, L. Profire, C. Vasile, Cellulose/chondroitin sulfate hydrogels as matrices for drug delivery applications, *14th International Symposium on Cellulose Chemistry and Technology*, Iasi, 8-10 septembrie (2010).

33. **Diana E. Ciolacu**, New hidrogels for medical and pharmaceutical applications, *The 14th International Conference "INVENTICA 2010"*, Iasi, Romania, 9-11 iunie (2010).
34. **Diana E. Ciolacu**, M. Cazacu, On the synthesis of novel cellulose-based hydrogels, *Bioactive /Biocompatible Polymeric Materials*, Zabrze, Polonia, 7-11 martie (2011).
35. **Diana E. Ciolacu**, S. Maier, Rheological properties of hydrogels based on cellulose allomorphs, *Dynamics of Complex Fluids*, Iasi, Romania, 5 - 7 mai (2011).
36. O.M. Paduraru, C. Vasile, **Diana E. Ciolacu**, Polyvinyl alcohol/cellulose hydrogels for drug delivery, *Xth Romanian International Symposium on Cosmetic and Flavor Products „COSMETIC SCIENCE – LOOKING TO THE FUTURE”*, Iasi, Romania, 31 mai - 3 iunie (2011).
37. **Diana E. Ciolacu**, C. Cheaburu, G. Pricope, C. Vasile, Novel biodegradable materials from cellulose and chitosan with antimicrobial properties, *Xth Romanian International Symposium on Cosmetic and Flavor Products „COSMETIC SCIENCE – LOOKING TO THE FUTURE”*, Iasi, Romania, 31 mai - 3 iunie (2011).
38. A.M. Oprea, L. Profire, **Diana E. Ciolacu**, C. Vasile, *In vitro* testing of xanthan/chondroitin sulfate hydrogels for controlled release of a novel nitric oxide donor compound, *Xth Romanian International Symposium on Cosmetic and Flavor Products „COSMETIC SCIENCE – LOOKING TO THE FUTURE”*, Iasi, Romania, 31 mai - 3 iunie (2011).
39. **Diana E. Ciolacu**, A.M. Oprea, G. Cazacu, M. Cazacu, Controlled release of polyphenols from cellulose-based hydrogels, *European Polymer Congress - EPF2011*, Granada, Spania, 26 iunie - 1 iulie (2011).
40. **Diana E. Ciolacu**, G. Cazacu, M. Cazacu, Synthese, caracterisation et applications des hydrogels cellulose/lignine, *Xème Colloque Franco-Roumain sur les Polymères*, Douai, France, 6-8 septembrie (2011).
41. C. Cheaburu, R. Dumitriu, **Diana E. Ciolacu**, C. Vasile, D. Durracio, C. Silvestre, M. Pezzuto, Study of some nanostructured materials, *COST Action FA0904 Meeting*, Pozzuoli-Naples, Italy, 3-4 March (2011).
42. **Diana E. Ciolacu**, V. Kokol, Study regarding the adsorption of CBD on cellulose, *Advances in biomaterials*, Viena, Austria, 12-16 martie (2012).
43. O. Păduraru, **Diana E. Ciolacu**, C. Vasile, Polyvinylalcohol/cellulose hydrogels as carriers for a bioactive component, *15th International Conference "Polymeric Materials"*, Halle, Germany, 12-14 September (2012).
44. G. Cazacu, G. Hitruc, **Diana E. Ciolacu**, R. Nicu, T. Malutan, Application of the ATR-FTIR and AFM tools in analysis of paper surface coated with different consolidation polymers, *2nd International Conference on Chemical Engineering*, Iași, Romania, November 5-8 (2014).
45. **Diana E. Ciolacu**, C. Rudaz, T. Budtova, Highly porous cellulose as drug release system, *Colloque Franco-Roumain sur les Polymères*, Pitești, Romania, 27-29 août (2014).
46. **Diana E. Ciolacu**, G. Cazacu, New superabsorbant hydrogels based on cellulose and lignin, *The 19th International Conference "INVENTICA 2015"*, Iasi, Romania, June 24th-26th (2015).
47. **Diana E. Ciolacu**, C. Rudaz, T. Budtova, Three-dimensional hydrogels for biomedical applications, *Conference on cellulosic material properties and industrial potential, COST FP1205*, Borås, Sweden, 13-14 April (2016).
48. A.R. Petrovici, I. Rosca, A. Nicolescu, M. Pinteala, **Diana E. Ciolacu**, The influence of the culture medium composition on the exopolysaccharide biosynthesis, *12th International Conference on Colloid and Surface Chemistry*, Iasi, Romania, 16 - 18 May (2016).
49. **D. Ciolacu**, C. Rudaz, T. Budtova, Physically and chemically cross-linked cellulose cryogels, *12th International Conference on Colloid and Surface Chemistry*, Iasi, Romania, 16-18 May (2016).
50. **Diana E. Ciolacu**, Structure and properties of new superabsorbant hydrogels, *International Conference of Inventics, INVENTICA 2016*, Iasi, Romania, 29 June – 1 July (2016).

51. **Diana E. Ciolacu**, G. Cazacu, Thermal characterization of the lignin-based hydrogels, *International Conference of Inventics, INVENTICA 2016*, Iasi, Romania, 29 June – 1 July (2016).
52. G. Cazacu, O. Petreus, **Diana E. Ciolacu**, C. Vasile, Dependence of the chemical activation/modification of lignocellulosics on their structure and morphology, *COST Action E54 - Characterisation of the fine structure of papermaking fibres using new technologies*, Riga, Latvia, 25-26 April (2007).
53. **Diana E. Ciolacu**, Cellulose-based hydrogels: synthesis and characterization, *The XXIth International Conference INVENTICA 2017*, Iasi, Romania, 29th – 30th June (2017).
54. A.R. Petrovicia, I. Rosca, A. Nicolescu, **Diana E. Ciolacu**, Dextran biosynthesis by new isolated lactic acid bacteria denoted PP34, *The XXIth International Conference INVENTICA 2017*, Iasi, Romania, 29th – 30th June (2017).
55. **Diana E. Ciolacu**, C. Rudaz, M. Vasilescu, T. Budtova, Cellulose gels and cryogels via physical and chemical cross-linking, *253rd American Chemical Society National Meeting & Exposition*, San Francisco, USA, April 2-6, (2017).
56. **Diana E. Ciolacu**, C. Cojocaru, Hidrogeluri pe bază de celuloză: proiectare, obținere și caracterizare, *The XIIth Romanian International Symposium on Cosmetic and Flavor Products*, Iasi, Romania, May 30st - June 2rd (2017).
57. A.R. Petrovici, I. Rosca, **Diana E. Ciolacu**, Producerea fermentativă a dextranului de către *Weissella confusa*, caracterizarea acestuia și posibilele lui aplicații, *The XIIth Romanian International Symposium on Cosmetic and Flavor Products*, Iasi, Romania, May 30st - June 2rd (2017).
58. R.P. Dumitriu, L. Nita, L. Sacarescu, **Diana E. Ciolacu**, Studiul unor suspensii cu nanoparticule de argint obținute printr-un procedeu ecologic, *The XIIth Romanian International Symposium on Cosmetic and Flavor Products*, Iasi, Romania, May 30st - June 2rd (2017).
59. D. Rusu, R.N. Darie-Nita, **Diana E. Ciolacu**, Synthesis and characterization of cellulose-alginate hydrogels, *3rd SSR - Summer School of Rheology, SSR 2017*, Gura Humorului, 18 – 23 June (2017).
60. F. Ciolacu, **Diana E. Ciolacu**, Cellulose-based hydrogels with antimicrobial properties, *The 13th International Symposium of Cosmetic and Aromatic Products*, Iasi, Romania, 4-7 June (2019).
61. **Diana E. Ciolacu**, D. Rusu, F.I.J. Pastor, Cellulose hydrogels for tissue engineering, *The 23th International Conference of Inventics INVENTICA 2019*, 26-28 June 2019, Iasi, Romania (2019).
62. **Diana E. Ciolacu**, A.R. Petrovici, A.C. Mihaila, E. Butoi, Cellulose-dextran hydrogels in heart valve tissue engineering, *The 23th International Conference of Inventics INVENTICA 2019*, 26-28 June 2019, Iasi, Romania (2019).
63. D. Rusu, **Diana E. Ciolacu**, Hydrogel matrices based on polysaccharides: design-morphology relationship, *The 23th International Conference of Inventics INVENTICA 2019*, 26-28 June 2019, Iasi, Romania (2019).
64. A.M. Șerban, L.E. Niță, A. Ghilan, **Diana E. Ciolacu**, Ultrasound-assisted preparation and characterization of polymeric microparticles, *The XXVII International Conference, INVENTICA 2023*, 22 iunie 2022 (2023).
65. A. Croitoriu, L. Hritcu, R.S. Boiangiu, **Diana E. Ciolacu**, L.E. Nita, Preliminary study of the effects of a peptide-based cosmetic formulation and whitening agents for the treatment of pigment spots, *15th International Symposium of Cosmetic and Flavor Products*, Iasi, Romania, 23 – 24 May (2024).

66. A.M. Șerban, A. Ghilan, A.G. Rusu, **Diana E. Ciolacu**, L.E. Niță, Development and evaluation of origanum vulgare essential oil nanoemulsion using low-energy methods, *The XXVIII International Conference INVENTICA 2024*, Iași, România, 4 iulie (2024).
67. **Diana E. Ciolacu**, Innovative hydrogels from renewable resources, *INVENT-INVEST Innovation Workshop*, Oslo, Norvegia, 24-27 April (2024).
68. A.M. Serban, A. Ghilan, A.G. Rusu, L. Verestiuc, **Diana E. Ciolacu**, L.E. Nita, Design of a vitamin A–copolymerolactone nanoemulsion for targeted drug delivery, *THE XXIX International Conference INVENTICA 2025*, 25 iunie (2025).

- Manifestări naționale:

69. Gh. Rozmarin, G. Cazacu, L. Odochian, E. Costea, M. Macoveanu, **D. Dumitraș**, Dezincrustarea nitro-acetică a celoligninei furfurolice, 2, Parametrii cinetici, *A XXII-a Sesiune de Comunicări Stiințifice*, Olănești, Râmnicu Vâlcea, 23-25 Octombrie 1996, vol. II, p. 905-908 (1996).
70. V.I. Popa, **Diana E. Ciolacu**, F. Ciolacu, Modificări structurale ale celulozei în procesele de finisare a hârtiei, *Zilele Academice Ieșene*, Ed. A XIII-a, Iasi, 9-12 octombrie, p. 46 (1997).
71. G. Cazacu, **Diana E. Ciolacu**, Reacții chimice pe celuloza microcristalina, I, Caracterizarea pulberilor de celuloza, *Zilele Academice Ieșene*, Ed. XV-a, Iași, 5–7 octombrie, p. 43 (2000).
72. **Diana E. Ciolacu**, G. Cazacu, Cercetări privind dizolvarea celulozei în soluții apoase alcaline, *Zilele Academice Ieșene*, Ed. XVI-a, Iași, 4-6 octombrie, p. 5 (2000).
73. **Diana E. Ciolacu**, Studii privind procesul de vopsire a fibrelor celulozice cu coloranți pe baza de celolignina furfurolica, *Simpozionul Internațional - Cercetări în Domeniul Materialelor Plastice, Cauciucului, Firelor și Fibrelor Naturale și Sintetice*, București, 19-20 Septembrie, p.11 (2001).
74. **Diana E. Ciolacu**, G. Cazacu, Noi hidrogeluri de tip xantan-celuloza, *Zilele Academice Ieșene*, Ed. XVI-a, Iași, 3–5 Octombrie, p. 6 (2002).
75. **Diana E. Ciolacu**, I.C. Alupei, S. Ciovea, Proprietățile structurale și de umflare a hidrogelurilor compozite xantan – celuloză, *A III-a Conferință a Facultății de Chimie Industrială*, Iași, 13-15 Noiembrie, p. 10 (2002).
76. **Diana E. Ciolacu**, G. Cazacu, Studiu de microcalorimetrie diferențială asupra alomorfilor celulozei, *Zilele Academice Ieșene*, Ed. A XIX-a, Iasi, 6-8 Octombrie, p. 16 (2005).
77. **Diana E. Ciolacu**, Studiu asupra structurii supramoleculare a formelor amorfe ale celulozei prin spectroscopie FTIR, *Conferința Națională „Știința și Ingineria Lemnului în Mileniul III”*, Brașov, 4-6 Noiembrie, p. 11 (2005).
78. A.-M. Oprea, **Diana E. Ciolacu**, L. Profire, C. Vasile, Kinetics of swelling and drug release from cellulose/chondroitin sulphate hydrogels, *Zilele Facultății de Inginerie Chimică și Protecția Mediului - Materiale și procese inovative*, Ed. a V-a, Iasi, 19-21 noiembrie, p. 7 (2008).
79. **Diana E. Ciolacu**, N. Anghel, A.M. Oprea, G. Cazacu, M. Cazacu, Noi bio-materiale pe bază de polimeri naturali, *Tendențe în sinteza și caracterizarea materialelor avansate pentru aplicații în biologie și medicină*, Timisoara, 25-30 iulie (2011).
80. **Diana E. Ciolacu**, G. Cazacu, Noi hidrogeluri pe baza de polimeri naturali: obținere și caracterizare, *Zilele Academice Ieșene, A XXV-a Sesiune de Comunicări Științifice a Institutului de Chimie Macromoleculară „Petru Poni” Iasi*, Progrese în Știința Compusilor Organici și Macromoleculari, Iasi, Romania, 24-26 septembrie (2015).

XII.3. Postere

- **Manifestări internaționale:**

1. **Diana E. Ciolacu**, V.I. Popa, "Studies on the relationships between structure and cellulose reactivity", *Third International Symposium – CEPROHART BRĂILA*, Braila, Romania, 29 mai – 1 iunie, p. 63 (2000);
2. **Diana E. Ciolacu**, V.I. Popa, S. Ciovisa, "Factors governing dissolution of cellulose in aqueous NaOH", *Seventh European Workshop on Lignocellulosics and Pulp*, Turku/Åbo, Finland, 26-29 August, p. 153 (2002).
3. **Diana E. Ciolacu**, R. Dumitriu, O. Petreus, G. Cazacu, "Hydrolyse enzymatique de certains allomorphes phosphorylés de la cellulose", *6^{ème} Colloque Franco-Roumain sur les POLYMERES*, Rouen, France, 8-10 Septembre, PO50 (2003).
4. **Diana E. Ciolacu**, H. Ritter, V.I. Popa, "Synthesis of new cellulose esters with adamantoyl groups", *13th International Symposium on Cellulose Chemistry and Technology*, Iasi, Romania, 3-5 September (2003).
5. **Diana E. Ciolacu**, V.I. Popa, "Structural changes of cellulose in aqueous alkali solution", *Eighth European Workshop on Lignocellulosics and Pulp, EWLP 2004*, Riga, Latvia, 22-25 August (2004).
6. I.E. Raschip, **Diana Ciolacu**, G. Cazacu, C. Vasile, "Viscosimetric study of the cellulose/epoxy-modified lignin blends", *Workshop on Fundamental and Applied Research in Physics*, Iasi, Romania, 30 October p. 31 (2004).
7. **Diana E. Ciolacu**, G. Cazacu, "A renewable source of eco-friendly plastic", *Summer school "Materials Recycling"*, Karpacz, Poland, 28 June – 9 July (2005).
8. **Diana E. Ciolacu**, G. Cazacu, "Enzymatic hydrolysis - a green tool in cellulose activation", *EUROGREENPOL - Summer School on Green Chemistry of Polymers*, Iasi, Romania, 21-27 August (2005).
9. **Diana E. Ciolacu**, "Structural modifications of cellulose allomorphs during the enzymatic hydrolysis reaction", *9th European Workshop on Lignocellulosics and Pulp, EWLP 2006*, Vienna, Austria, August 27-30 (2006).
10. **Diana E. Ciolacu**, G. Cazacu, "DSC investigations on the cellulose polymorphs accessibility", *9th European Workshop on Lignocellulosics and Pulp, EWLP 2006*, Vienna, Austria, August 27-30 (2006).
11. N. Olaru, L. Olaru, **Diana E. Ciolacu**, "On cellulose allomorphs reactivity in heterogeneous acetylation process", *9th European Workshop on Lignocellulosics and Pulp, EWLP 2006*, Vienna, Austria, August 27-30 (2006).
12. **Diana E. Ciolacu**, G. Cazacu, "Cellulose activation by enzymatic hydrolysis", *7th IBWAP - 7th International Balkan Workshop on Applied Physics*, Constanta, Romania, July 5-7, S5 P06, p. 166 (2006).
13. **Diana E. Ciolacu**, "On the supramolecular structure of cellulose allomorphs after enzymatic degradation", *7th IBWAP - 7th International Balkan Workshop on Applied Physics*, Constanta, Romania, 5-7 July, S5 P07, p. 166 (2006).
14. G. Cazacu, M. Totolin, **Diana E. Ciolacu**, G. Constantinescu, "Natural polymer modification under radiofrequency electrical discharge conditions", *7th IBWAP - 7th International Balkan Workshop on Applied Physics*, Constanta, Romania, 5-7 July, S2 P09, p. 108 (2006).
15. I.E. Raschip, C. Vasile, **Diana E. Ciolacu**, G. Cazacu, "Semiinterpenetrating polymer networks containing polysaccharides. I. Xanthan/lignin networks", *Polycondensation*, Istanbul, Turcia, 27-30 August, p. 93 (2006).

16. **Diana E. Ciolacu**, G. Cazacu, „New hydrogels based on Natural Polymers”, *Ecole d'ete, Physico-chimie de l'atmosphère: des expériences de laboratoire aux campagnes de terrain*, Iasi, Romania, 2-14 Iulie, P4, p. 37 (2006).
17. **Diana E. Ciolacu**, I. Raschip, G. Cazacu, C. Vasile, „New performant materials from lignin and/or its derivatives”, *Ecole d'ete, Physico-chimie de l'atmosphère: des expériences de laboratoire aux campagnes de terrain*, Iasi, Romania, 2-14 Iulie, P3, p. 36 (2006).
18. G. Cazacu, G. Constantinescu, **Diana E. Ciolacu**, „Lignin isolation from vegetable biomass by un-pollution methods”, *Ecole d'ete, Physico-chimie de l'atmosphère: des expériences de laboratoire aux campagnes de terrain*, Iasi, Romania, 2-14 Iulie, P16, p. 49 (2006).
19. **Diana E. Ciolacu**, G. Cazacu, „Synthesis and characterization of cellulose-lignin hydrogels”, *International Conference on Biomaterials & Medical Devices, BiomMedD'2006*, Iasi, Romania, 9-11 November, P39, p. 165 (2006).
20. G. Cazacu, **Diana E. Ciolacu**, „Synthesis and characterization of microcrystalline cellulose with medical usage”, *International Conference on Biomaterials & Medical Devices, BiomMedD'2006*, Iasi, Romania, 9-11 November, P32, p. 158 (2006).
21. M.I.Popa, M. Frunza, I. Volf, **Diana E. Ciolacu**, “Intercalation of polyphenols into layered double hydroxide”, *ITALIC 4 Meeting Science and Technology of Biomass: Advances and Challenges Materials, Chemicals and Processes from Agricultural and Forest Biomass*, Rome, Italy, 8-10 May (2007).
22. **Diana E. Ciolacu**, G. Cazacu, “Synthesis of lignin/poly(vinyl alcohol) hydrogels”, *ITALIC 4 Meeting Science and Technology of Biomass: Advances and Challenges Materials, Chemicals and Processes from Agricultural and Forest Biomass*, Rome, Italy, 8-10 May (2007).
23. **Diana E. Ciolacu**, G. Cazacu, “Swelling and thermal properties of cellulose/lignin or ligninepoxy resin hydrogel”, *8th ILI Forum, The ILI Umbrella programme and other Existing or New Approaches in Lignin Research*, Rome, Italy, 10-12 May (2007).
24. **DIANA E. CIOLACU**, G. Cazacu, “A new biomedical utilization of recycling lignin”, *3rd China-Europe Symposium on Processing and Properties of Reinforced Polymers*, Budapest, Hungary, 11-15 June (2007).
25. **Diana E. Ciolacu**, “Study on thermal degradation of cellulose allomorphs”, *3rd China-Europe Symposium on Processing and Properties of Reinforced Polymers*, Budapest, Hungary, 11-15 June (2007).
26. **Diana E. Ciolacu**, “Caractérisation physique de nouveaux hydrogels de cellulose”, *8^{eme} Colloque Franco-Roumain sur les Polymères, Les Polymères: des Matériaux Fonctionnels au Cœur des Nouvelles Technologies, CFR 8*, Grenoble, France, 26-30 Août, P9 (2007).
27. **Diana E. Ciolacu**, “Sur l'activation de cellulose par l'hydrolyse enzymatique”, *8^{eme} Colloque Franco-Roumain sur les Polymères, Les Polymères: des Matériaux Fonctionnels au Cœur des Nouvelles Technologies, CFR 8*, Grenoble, France, 26-30 Août, P10 (2007).
28. O. Petreus, G. Cazacu, T. Vlad-Bubulac, **Diana E. Ciolacu**, C. Vasile, “L'Influence des modifications chimiques des polymères naturels sur leurs structure et morphologie”, *8^{eme} Colloque Franco-Roumain sur les Polymères, Les Polymères: des Matériaux Fonctionnels au Cœur des Nouvelles Technologies, CFR 8*, Grenoble, France, 26-30 Août, P38 (2007).
29. **Diana E. Ciolacu**, “Studies concerning the structural accessibility of the different allomorphic forms of cellulose”, *8th International Balkan Workshop on Applied Physics, 8th IBWAP*, Constanta, Romania, July 5-7, S5 P24 (2007).
30. **Diana E. Ciolacu**, “DSC investigations on the cellulose polymorphs accessibility”, *5th Conference „New research Trends in Material Science”, ARM 5*, Sibiu, Romania, 5-7 September (2007).
31. **Diana E. Ciolacu**, “Thermal study on the cellulose degradation”, *5th Conference „New research Trends in Material Science”, ARM 5*, Sibiu, Romania, 5-7 September (2007).

32. G. Cazacu, **Diana E. Ciolacu**, A.M. Necula, M. Drobotă, "Poly(vinyl alcohol)/lignin derivative blends", *5th Conference „New research Trends in Material Science”, ARM 5*, Sibiu, Romania, 5-7 September (2007).
33. **Diana E. Ciolacu**, V.I. Popa, H. Ritter, "New cellulose esters with adamantoyl groups", *EPNOE -European Polysaccharide Network of Excellence*, Iasi, Romania, 7-8 November (2007).
34. **Diana E. Ciolacu**, F. Ciolacu, "Supramolecular structure - a key parameter for cellulose degradation", *International Conference (Bio)Degradable Polymers From Renewable Resources*, Viena, Austria, 16-22 November (2007).
35. G. Cazacu, I. Raschip, **Diana E. Ciolacu**, C. Vasile, „Characterisation of the microcrystalline powder", *COST E41 - Analytical tools with applications for wood and pulping chemistry*, Bled, Slovenia, 22–23 November (2007).
36. I. Raschip, **Diana E. Ciolacu**, C. Vasile, G. Cazacu, „Procedeu si compozitie pentru obtinerea de noi hidrogeluri", *ECOINVENT 2007, Conferinta Internationala Inventica, Ed. aXIX-a*, Iasi, Romania, 30 mai – 2 iunie (2007).
37. G. Cazacu, O. Petreus, A.M. Necula, **Diana E. Ciolacu**, S. Ioan, "Characterization of different types of lignin-epoxy resins", *9th IBWAP - 9th International Balkan Workshop on Applied Physics*, Constanta, Romania, 7-9 July, S5 P01, p. 169 (2008).
38. **Diana E. Ciolacu**, "Spectroscopic study on polymorphism of cellulose", *9th IBWAP - 9th International Balkan Workshop on Applied Physics*, Constanta, Romania, 7-9 July, S5 P04, p. 170 (2008).
39. **Diana E. Ciolacu**, G. Cazacu, "Characterization of new natural hydrogels by spectroscopic methods", *9th IBWAP - 9th International Balkan Workshop on Applied Physics*, Constanta, Romania, 7-9 July, S5 P05, p. 170 (2008).
40. **Diana E. Ciolacu**, "Study on the accessibility of cellulose allomorphs", *Physics and chemistry of the atmosphere: from laboratory experiments to field campaigns*, Constanta, Romania, 10-16 July, P15, p. 49 (2008).
41. **Diana E. Ciolacu**, "Physical properties of new cellulose-xanthan networks", *Physics and chemistry of the atmosphere: from laboratory experiments to field campaigns*, Constanta, Romania, 10-16 July, P16, p. 50 (2008).
42. **Diana E. Ciolacu**, G. Cazacu, "New hydrogels on basis of natural polymer", *Physics and chemistry of the atmosphere: from laboratory experiments to field campaigns*, Constanta, Romania, 10-16 July, P23, p. 57 (2008).
43. **Diana E. Ciolacu**, "Method to obtain some cellulose based absorbent materials", *INVENTICA 2008 - International exhibition of inventions, research and technological transfer*, Iasi, Romania, 14-24 mai, P 41, p. 557 (2008).
44. **Diana E. Ciolacu**, C. Alupei, "Procedure to obtain some cellulose/xanthan based superabsorbent hydrogels", *INVENTICA 2008 - International exhibition of inventions, research and technological transfer*, Iasi, Romania, 14-24 mai, P 42, p. 557 (2008).
45. **Diana E. Ciolacu**, "The effect of polymorphism on the biodegradability of cellulose", *Macro- and Supramolecular architectures and materials – MAM-08*, Dusseldorf, Germania, 7-11 September, P057, p. 28 (2008).
46. **Diana E. Ciolacu**, "Investigation on the accessibility of different celluloses", *Macro- and Supramolecular architectures and materials – MAM-08*, Dusseldorf, Germania, 7-11 September, P058, p. 28 (2008).
47. **Diana E. Ciolacu**, I. Spiridon, G. Cazacu, "Cellulose cinnamate: Synthesis and characterization", *Macro- and Supramolecular architectures and materials – MAM-08*, Dusseldorf, Germania, 7-11 September, P029, p. 25 (2008).

48. **Diana E. Ciolacu**, "Device for obtaining of absorbent materials on basis of cellulose", *INVENTIKA 2008 - International exhibition of inventions, scientific research and new technologies*, Bucuresti, Romania, 7-11 October, p. 49 (2008).
49. **Diana E. Ciolacu**, C. Alupei, "Device for obtaining of superabsorbent hydrogels on basis of cellulose allomorphs-xanthan", *INVENTIKA 2008 - International exhibition of inventions, scientific research and new technologies*, Bucuresti, Romania, 7-11 October, p. 49 (2008);
50. **Diana E. Ciolacu**, G. Cazacu, "Characterization of lignin/poly(vinyl alcohol) hydrogels", *PPS-24, The Polymer Processing Society 24th Annual Meeting*, Salerno, Italy, 15-19 June, CD S14-971 (2008);
51. G. Cazacu, **Diana E. Ciolacu**, A.M. Necula, C. Grigoras, "Lignin containing interpenetrated networks", *PPS-24, The Polymer Processing Society 24th Annual Meeting*, Salerno, Italy, 15-19 June, CD S14-973 (2008).
52. **Diana E. Ciolacu**, G. Cazacu, N. Anghel, "Synthesis of nanostructure systems from natural polymers and polyphenols", *The International Conference on Materials Science and Engineering, BRAMAT 2009*, Brasov, Romania, 26-28 February, P.6.25, p. 44 (2009).
53. G. Cazacu, **Diana E. Ciolacu**, A. Ioanid, F. Doroftei, A. Cojocariu, C. Tanase, A. Oprea, "Behaviour of the polymeric systems containing lignin in the various culture media", *The International Conference on Materials Science and Engineering, BRAMAT 2009*, Brasov, Romania, 26-28 February, P.6.24, p. 44 (2009).
54. A.M. Oprea, **Diana E. Ciolacu**, L. Profire, C. Vasile, "Cellulose/chondroitin sulphate hydrogels as release formulations: kinetic studies of swelling and drug release", *14th Panhellenic Pharmaceutical Congress*, Athens, Greece, 9-11 May, CD PS003 (2009).
55. **Diana E. Ciolacu**, N. Anghel, G. Cazacu, „Enzymatic degradation of the hydrogels based on poly(vinyl alcohol) and lignin”, *COST Action BioBIO (FP0602) - Biotechnology for lignocellulose biorefineries*, Varenna (Lecco), Italy, 2-4 September (2009).
56. **Diana E. Ciolacu**, G. Cazacu, N. Anghel, „Synthesis of nanostructure systems from natural polymers and polyphenols”, *BRAMAT 2009 - International Conference on Materials Science and Engineering*, Brasov, Romania, 26-28 February (2009).
57. G. Cazacu, **Diana Ciolacu**, A. Ioanid, F. Doroftei, A. Cojocariu, C. Tanase, A. Oprea, „Behaviour of the polymeric systems containing lignin in the various culture media”, *BRAMAT 2009 - International Conference on Materials Science and Engineering*, Brasov, Romania, 26-28 February (2009).
58. **Diana Ciolacu**, N. Anghel, O. Chirila, G. Cazacu, „Biodegradation studies of complex systems which contain lignin derivatives”, *10th International Balkan Workshop on Applied Physics*, Constanta, Romania, 6-8 July (2009).
59. **Diana E. Ciolacu**, "Device for obtaining of absorbent materials on basis of cellulose", *The 14th International Salon of Research and Technological Transfer "INVENTICA 2010"*, Iasi, Romania, 9-11 iunie (2010).
60. **Diana E. Ciolacu**, "Device for obtaining of superabsorbent hydrogels on basis of cellulose allomorphs – xanthan", *The 14th International Salon of Research and Technological Transfer "INVENTICA 2010"*, Iasi, Romania, 9-11 iunie (2010).
61. **Diana E. Ciolacu**, G. Cazacu, „Novel materials based on natural polymer with medical applications”, *14th International Symposium on Cellulose Chemistry and Technology*, Iasi, Romania, 8-10 septembrie (2010).
62. **Diana E. Ciolacu**, G. Cazacu, „Effect of the presence of lignin in hydrogels on the water sorption”, *11th International Balkan Workshop on Applied Physics*, Constanța, Romania, 7-9 iulie (2010).
63. **Diana E. Ciolacu**, C. Vasile, „Synthesis of new hydrogels from cellulose/chondroitin sulfate”, *11th International Balkan Workshop on Applied Physics*, Constanța, Romania, 7-9 iulie (2010).

64. **Diana E. Ciolacu**, „Synthesis of new cellulose cinnamate”, *11th International Balkan Workshop on Applied Physics*, Constanța, Romania, 7-9 iulie (2010).
65. **Diana E. Ciolacu**, „The influence of supramolecular structure of cellulose allomorphs on accessibility”, *11th International Balkan Workshop on Applied Physics*, Constanța, Romania, 7-9 iulie (2010).
66. **Diana E. Ciolacu**, G. Cazacu, M. Cazacu, „Synthesis and characterization of new hydrogels based on green polymers”, *Dynamics of Complex Fluids*, Iasi, Romania, 5 - 7 mai (2011).
67. **Diana E. Ciolacu**, G. Cazacu, „Hydrogels poly(vinyl alcohol)/lignine pour applications pharmacologiques”, *Xème Colloque Franco-Roumain sur les Polymères*, Douai, France, 6 - 8 septembre (2011).
68. **Diana E. Ciolacu**, V. Kokol, „The characterization of cellulose micro/nano-materials obtained by enzymatic hydrolysis of different allomorphic forms of microcrystalline cellulose”, *7th International Conference on Polymer and Textile Biotechnology - IPTB 2011 and Final Workshop of COST Action 868 on Biotechnical Functionalization of Renewable Polymeric Materials*, Milano, Italy, 2-4 martie (2011).
69. **Diana E. Ciolacu**, S. Gorgieva, D. Tampu, V. Kokol, „Enzymatic hydrolysis of different allomorphic forms of microcrystalline cellulose”, *ITALIC 6 - Science & Technology of Biomasses: Advances and Challenges and The Final Workshop of COST FP0602, Biotechnology for lignocellulose biorefineries*, Viterbo, Italia, 5-8 septembre (2011).
70. O. Paduraru, C. Vasile, **Diana E. Ciolacu**, R. Darie, „Evaluation of polyvinylalcohol/cellulose hydrogels as carriers for drug delivery”, *4th Bilateral Symposium on Functional Heterocyclic and Heterochain Polymers for Advanced Materials*, Iasi, Romania, 2-7 September (2012).
71. **Diana E. Ciolacu**, C. Rudaz, T. Budtova, „Cellulose-based hydrogels as procaine delivery systems”, *EPNOE 2013 Conference - Polysaccharides and polysaccharidederived products, from basic science to applications*, Nice, France, 21 - 24 October, P-42, p. 295 (2013).
72. **Diana E. Ciolacu**, C. Rudaz, T. Budtova, Synthesis and properties of cellulose-based hydrogel, *COST Action FP1205 – Innovative applications of regenerated wood cellulose fibres*, March 10-11, Iasi (2015).
73. I. Rosca, A.R. Petrovici, **Diana E. Ciolacu**, Innovative hydrophilic matrices based on exopolysaccharides. I. Biosynthesis and characterization of exopolysaccharides from lactic acid bacteria, *European Nanomedicine Meeting - SFNan*, December 7-9, Grenoble (2015).
74. D.G. Paraschiv, F. Ciolacu, D. Tampu, **Diana E. Ciolacu**, New approach concerning the study of cellulose allomorphs conversion processes, *12th International Conference on Colloid and Surface Chemistry*, Iasi, Romania, 16 - 18 May (2016).
75. **Diana E. Ciolacu**, C. Cojocaru, D. Tampu, Cellulose-based hydrogels: Experimental, design and characterization, *8th CRISTOFOR I. SIMIONESCU Symposium - Frontiers in Macromolecular and Supramolecular Science*, Iasi, Romania, 29 May – 3 June (2016).
76. I. Rosca, A. R. Petrovici, D. Peptanariu, A. Nicolescu, G. Dodi, I.C. Ivanov, A.C. Bostanaru, M. Mares, **Diana E. Ciolacu**, M. Pinteala, Biosynthesis of exopolysaccharides by *Weisella confusa* and its in vitro functional characteristics, *XIIth French-Romanian Polymer Meeting*, Sophia Antipolis, France, 5-7 September (2016).
77. **Diana E. Ciolacu**, Procedure and compositions for the preparation of novel cellulosebased hydrogels, *The XXIIth International Conference „INVENTICA 2017”*, Iasi, Romania, 29th – 30th June (2017).
78. **Diana E. Ciolacu**, G. Cazacu, Procedure and compositions for the preparation of novel two-component lignin-based hydrogels, *The XXIIth International Conference „INVENTICA 2017”*, Iasi, Romania, 29th – 30th June (2017).
81. D.G. Paraschiv, A. Diaconu, F. Ciolacu, **Diana E. Ciolacu**, Nanocristale de celuloză – obținere, caracterizare și utilizare ca elemente de ranforsare a hidrogelurilor pe bază de

- celuloză, *The XIth Romanian International Symposium on Cosmetic and Flavor Products*, Iasi, Romania, May 30st - June 2rd (2017).
79. D. Rusu, **Diana E. Ciolacu**, Investigatii structurale asupra unor hidrogeluri superabsorbante pe bază de celuloză-alginat, *The XIth Romanian International Symposium on Cosmetic and Flavor Products*, Iasi, Romania, May 30st - June 2rd (2017).
 80. D.G. Paraschiv, G. Pricope, G. Cazacu, **Diana E. Ciolacu**, Cellulose-based hydrogels with antimicrobial activity, *International Workshop "Progress in antimicrobial materials"*, Iasi, Romania, March 30 (2017).
 81. D. Rusu, **Diana E. Ciolacu**, Preparation, characterization and biocompatibility evaluation of cellulose-based hydrogels, *The 13th International Symposium of Cosmetic and Aromatic Products*, Iasi, Romania, 4-7 June (2019).
 82. **Diana E. Ciolacu**, A.R. Petrovici, R. Nicu, Hydrogels based on cellulose-dextran for controlled drug release, *The 13th International Symposium of Cosmetic and Aromatic Products*, Iasi, Romania, 4-7 June (2019).
 83. A.R. Petrovici, F. Doroftei, **Diana E. Ciolacu**, Synthesis of bio-cryogels for tissue engineering applications, *The 13th International Symposium of Cosmetic and Aromatic Products*, Iasi, Romania, 4-7 June (2019).
 84. **Diana E. Ciolacu**, D. Rusu, Procedure and composition for preparation of superabsorbent materials based on pullulan, *The 23th International Exhibition of Inventics INVENTICA 2019*, 26-28 June 2019, Iasi, Romania (2019).
 85. **Diana E. Ciolacu**, Cellulose-based superabsorbent hydrogels, *The 23th International Exhibition of Inventics INVENTICA 2019*, 26-28 June, Iasi, Romania (2019).
 86. **Diana E. Ciolacu**, A. R. Petrovici, A. C. Mihaila, E. Butoi, Hydrogels based on exopolysaccharides biosynthesis by lactic acid bacteria strain, *The 24th International Exhibition of Inventics INVENTICA 2020*, Iași, România, 29–31 iulie (2020).
 87. **Diana E. Ciolacu**, G. Cazacu, D. Rusu, Procedure and composition for preparation of superabsorbent materials, *The 24th International Exhibition of Inventics INVENTICA 2020*, Iași, România, 29-31 iulie (2020).
 88. D. Rusu, R.N. Darie-Nita, **Diana E. Ciolacu**, Rheological aspects on cellulose-based hydrogels, *International Conference on Rheology, „Understanding the Viscoelastic Behavior of Materials – Progress and Challenges"*, Iasi, Romania, 26 May (2022).
 89. F. Ciolacu, **Diana E. Ciolacu**, The physics of cellulose nanopaper, *13th International Conference on Environmental Engineering and Management*, Iasi, Romania, 17-20 September (2025).
 90. S.I. Buștiucel, G. Ciobanu, A.M. Mocanu, S. Bouariu, A. Rotaru, **Diana E. Ciolacu**, A. Bargan, N. Simionescu, Hydroxyapatite biocomposites loaded with antibiotic for bone tissue repair and regeneration, *8th Central and Eastern European Conference on Thermal Analysis and Calorimetry*, Mostar, Bosnia and Herzegovina, 16-19 September (2025).
 91. **Diana E. Ciolacu**, A.R. Petrovici, G. Cazacu, A.C. Mihaila, E. Butoi, Sustainable hydrogels - Process and compositions, *The 29th International Exhibition of Inventions "INVENTICA 2025" Iasi*, Romania, 30 mai 2025 (2025).

- Manifestări naționale:

92. G. Cazacu, C. Vasile, E. Costea, A. Stoleriu, M. Macoveanu, **Diana E. Ciolacu**, V.I. Popa, "Aspecte cinetice ale descompunerii termooxidative a pulberilor de celuloză", *Zilele Academice Ieșene, Ed,a XIII-a*, Iași, 9-12 Octombrie, p. 12 (1997).
93. M.D. Suflet, **Diana E. Ciolacu**, "Studiul comportării la ardere a alomorfilor celulozici", *Zilele Academice Ieșene, Ed, XVI-a*, Iași, 4-6 Octombrie, p. 7 (2000).

94. **Diana E. Ciolacu**, V.I. Popa, "Obținerea, caracterizarea și comportarea la umflare a hidrogelurilor pe bază de xantan -celuloză", *A III-a Conferință a Facultății de Chimie Industrială*, Iași, 13-15 Noiembrie, p. 13 (2002).
95. **Diana E. Ciolacu**, G. Cazacu, "Studiu asupra structurii supramoleculare a celulozei prin spectroscopie FTIR", *Zilele Academice Iesene, Ed, XVII-a*, Iasi, 25–27 Septembrie, P76 (2003).
96. **Diana E. Ciolacu**, R. Dumitriu, "Studiu asupra factorilor care influenteaza desfasurarea reactiei de hidroliza enzimatica a celulozei", *Zilele Academice Iesene, Ed, A XIX-a*, Iasi, 6-8 Octombrie, p. 37 (2005).
97. N. Olaru, **Diana E. Ciolacu**, D. Tampu, L. Olaru, "Structural modification of cellulose in heterogeneous acetylation process", *The 4th National Conference – New Research Trends In Materials Science*, Constanta, 4-6 Septembrie (2005).
98. **Diana E. Ciolacu**, G. Cazacu, „Sinteza de noi hidrogeluri pe bază de celuloză și lignină”, *A XXIX-a Conferinta Nationala de Chimie*, Calimanesti-Caciulata, 4-6 Octombrie (2006).
99. **Diana E. Ciolacu**, „Studiul structurii supramoleculare a formelor polimorfe ale celulozei prin difracție cu raze X”, *A XXIX-a Conferinta Nationala de Chimie*, Calimanesti-Caciulata, 4-6 Octombrie (2006).
100. **Diana E. Ciolacu**, „Obținerea celulozei amorfe prin regenerare din sistemul SO₂-DEA-DMSO”, *Zilele Academice Iesene - Progrese in stiinta compusilor organici si macromoleculari*, Iasi, 27-30 Septembrie (2006).
101. **Diana E. Ciolacu**, „Studiu asupra degradării termice a alomorfilor celulozici”, *Zilele Academice Iesene - Progrese in stiinta compusilor organici si macromoleculari*, Iasi, 27-30 Septembrie (2006).
102. O. Petreus, G. Cazacu, T. Vlad-Bubulac, **Diana E. Ciolacu**, "Aspecte morfologice si structural ale unor polimeri naturali modificati chimic", *Zilele Academice Iesene, Macro Iasi 2007, Progrese in stiinta compusilor organici macromoleculari*, Iasi, 26-29 septembrie (2007).
103. **Diana E. Ciolacu**, D. Rosu, „Hidrogeluri pe baza de celuloza. Influenta radiatiilor UV asupra proprietatilor”, *A XXX-a Conferinta Nationala de Chimie*, Calimanesti-Caciulata, 8-10 Octombrie, P.S.III. – 33, p. 64 (2008).
104. **Diana E. Ciolacu**, „Sinteza si caracterizarea de sisteme pe baza de polimeri naturali”, *A XXX-a Conferinta Nationala de Chimie*, Calimanesti-Caciulata, 8-10 Octombrie, P.S.III. – 34, p. 64 (2008).
105. **Diana E. Ciolacu**, „Studiul morfologic a retelelor polizaharidice”, *A XXX-a Conferinta Nationala de Chimie*, Calimanesti-Caciulata, 8-10 Octombrie, P.S.III. – 35, p. 64 (2008).
106. G. Cazacu, **Diana E. Ciolacu**, „Noi rețele polimerice pe baza de lignina si alcool polivinilic”, *A XXX-a Conferinta Nationala de Chimie*, Calimanesti-Caciulata, 8-10 Octombrie, P.S.III. – 36, p. 64 (2008).
107. G. Cazacu, **Diana E. Ciolacu**, „Noi metode de acesibilizare a celulozei”, *A XXX-a Conferinta Nationala de Chimie*, Calimanesti-Caciulata, 8-10 Octombrie, P.S.III. – 37, p. 64 (2008).
108. **Diana E. Ciolacu**, C. Vasile, "Xanthan/chondroitin sulfate hydrogels for medical and pharmaceutical application", *Conferinta Nationala de Fitoterapie, Ed. A IV-a*, Iasi, 14-16 mai, P73, p. 24 (2008).
109. **Diana E. Ciolacu**, G. Cazacu, "New polymeric networks: characterization and physical properties", *Conferinta Nationala de Fitoterapie, Ed. A IV-a*, Iasi, 14-16 mai, P85, p. 25 (2008).
110. **Diana E. Ciolacu**, „Procedeu de obținere a unor materiale superabsorbante pe bază de celuloza”, *Salonul Național de Inventică CHIM-INVENT 2013*, Iasi, 3 – 5 iulie (2013).

111. **Diana E. Ciolacu**, „Compoziție și procedeu de obținere a unor materiale superabsorbante pe bază de celuloza-xantan”, *Salonul Național de Inventică CHIM-INVENT 2013*, Iasi, 3 – 5 iulie (2013).
112. **Diana E. Ciolacu**, Georgeta Cazacu, „Compoziție și procedeu de obținere a unor materiale superabsorbante pe bază de alcool polivinilic/lignina”, *Salonul Național de Inventică CHIM-INVENT 2013*, Iasi, 3 – 5 iulie (2013).
113. **Diana E. Ciolacu**, Procedeu de obținere a unor materiale superabsorbante pe baza de celuloza, *Salonul National de Inventica CHIM-INVENT 2013*, Iasi, 3 – 5 iulie (2013).
114. **Diana E. Ciolacu**, C. Alupei, Compozitie si procedeu de obținere a unor materiale superabsorbante pe baza de celuloza-xantan, *Salonul National de Inventica CHIM-INVENT 2013*, Iasi, 3 – 5 iulie (2013).
115. **Diana E. Ciolacu**, G. Cazacu, Compozitie si procedeu de obținere a unor materiale superabsorbante pe baza de poli(alcool vinilic)/lignina, *Salonul National de Inventica CHIM-INVENT 2013*, Iasi, 3 – 5 iulie (2013).
116. G. Roșu, E.I. Muresan, A. Pui, **Diana E. Ciolacu**, Modificarea capacității tinctoriale a materialelor textile prin grefare cu acrilat de 3 clor 2 hidroxipropil, *Zilele Academice Ieșene, a XXVI a sesiune de comunicări științifice, Progrese în știința compușilor organici și macromoleculari*, Iași, România, 5 - 6 octombrie (2017).
117. D. Rusu, F. Ciolacu, **Diana E. Ciolacu**, Hidrogeluri superabsorbante ranforsate cu nanocristale de celuloza, *A 27-a Sesiune de Comunicari Stiintifice „Progrese în stiinta compusilor organici si macromoleculari”*, Iasi, 2-4 octombrie (2019).
118. R. Nicu, A.R. Petrovici, A.C. Mihaila, E. Butoi, **Diana E. Ciolacu**, Constructii tri-dimensionale cu aplicatii in ingineria tisulara a valvelor aortice, *A 27-a Sesiune de Comunicari Stiintifice „Progrese în stiinta compusilor organici si macromoleculari”*, Iasi, 2-4 octombrie (2019).
119. **Diana E. Ciolacu**, G. Cazacu, Procedeu și compoziții pentru prepararea unor hidrogeluri pe bază de polimeri naturali, *Salonul Inovării și Cercetării UGAL INVENT 2025*, Galați, 23 - 24 Octombrie (2025).

16 martie 2026

Dr. ing. Diana Elena CIOLACU