

Universitatea Națională de Știință și Tehnologie POLITEHNICA BUCUREȘTI
Facultatea: INGINERIE CHIMICĂ ȘI BIOTEHNOLOGII
Departament: CHIMIE GENERALĂ
Conf. dr. ing. ZGÂRIAN Roxana Gabriela

LISTA
lucrărilor științifice în domeniul disciplinelor din postul didactic

(a) teza de doctorat;

T1. Roxana Gabriela Zgârian (Popescu), „Elaborare și sinteză de noi materiale polimerice cu aplicații în tehnologii de vârf”, **2010**

(b) brevete de invenție

B1. I. B. Ionescu, D. Iordăchescu, **Roxana Gabriela Popescu**, I. Demetrescu, H. Iovu, *Compoziție de film biopolimeric pe bază de gel de colagen și procedeu de obținere a acesteia*, Brevet de invenție Nr. 122673, Oficiul de stat pentru invenții și mărci. Data eliberării: 30.11.2009. BOPI nr. 11/2009

B2. Berteanu E., Tihan G.T., **Zgarian R.G.**, Tatia R., Totea G., Ionita D., Tcacenco L., Iordachel C., Demetrescu I., *Biopolymeric membranes with immobilized alkaline phosphatase and metallic Zn ion for biomedical applications*, **RO134094-A2, 2020.**

B3. Căprărescu S., **Zgarian R.G.**, Tihan G.T., Grumezescu A., *Membrane polimerice dopate și nedopate cu nanoparticule de dioxid de titan activate hidrotermal pentru tratarea apelor uzate*, A/00302/07.06.2024.

(c) cărți și capitole în cărți;

II. Mihaela Mîndroiu, Cristian Pîrvu, **Roxana Popescu**, *Chimie Generală Experimentală*, ISBN: 978-606-515-044-7, Ed. Politehnica Press, 179 pag., **2009**

(d) articole / studii *în extenso*, publicate în reviste din fluxul științific internațional principal (*cotate / indexate ISI Thomson Reuters, sau indexate în alte Baze de Date Internationale - BDI specific domeniului, care fac un proces de selecție a revistelor pe baza unor criterii de performanță*)

Ris 1. Tihan, G.T.; Ungureanu, C.; Rău, I.; **Zgârian, R.G.***; Barbaresso, R.C.; Albu Kaya, M.G.; Dinu-Pîrvu, C.-E.; Ghica, M.V. Physical–Chemical Assessment and Antimicrobial Activity of Chlortetracycline-Loaded Collagen Sponges. *Materials* **2025**, *18*, 4029. <https://doi.org/10.3390/ma18174029>, **Q2 (FI=3.2/2025)**

Ris 2. Caprarescu, S.; Tihan, G.T., **Zgârian*, R.G.**, Grumezescu, A.M., Lazau, C., Bandas, C., Atanase, L.I., Nicolae, C.A., Synthesis and Characterization of Cellulose Acetate/Polyethylene Glycol/Poly(Styrene)-b-Poly(4-Vinylpyridine) Membrane Embedded with Hydrotermally Activated TiO₂ Nanoparticles for Waste-Waters Treatment by Membrane Processes, *Polymers*, Vol. 17, Iss. , 4, ART. No. 446, **2025**, DOI 10.3390/polym17040446, WOS:001432586700001, FI=4,9/2025, **Q1**

- Ris 3. Ungureanu, C.; **Zgârian, R.**; Tihan*, G.; Fadeev V.; Exploring pathogenic bacteria in cheese: insights from microbial isolation studies, *U.P.B. Sci. Bull., Series B*, Vol. 86, Iss. 3, pp. 49-64, **2024**, WOS:001301114000004
- Ris 4. Ungureanu, C.; Răileanu, S.; **Zgârian*, R.**; Tihan*, G.; Burnei, C. State-of-the-Art Advances and Current Applications of Gel-Based Membranes. *Gels* **2024**, *10*, 39. <https://doi.org/10.3390/gels10010039>, WOS:001149253000001, (IF=5/2023), Q1
- Ris 5. Cristian Daniel IOAN, Ileana RĂU, Mădălina Georgiana ALBU-KAYA, **Roxana Gabriela ZGÂRIAN**, Grațîela Teodora TIHAN, Cristina-Elena DINU-PÎRVU, Lăcrămioara POPA, Mihaela Violeta GHICA, *Collagen based sponges for veterinary applications*, **U.P.B. Sci. Bull., Series B**, Vol. 86, Iss. 1, pp. 135-144, **2024**, WOS:001196525500007, (IF=0,7/2024), Q4
- Ris 6. Ungureanu, C.; Tihan, G*.; **Zgârian*, R.**; Pandealea, G. *Bio-Coatings for Preservation of Fresh Fruits and Vegetables*. **Coatings**, **2023**, *13* (8), 1420. <https://doi.org/10.3390/coatings13081420>, WOS:001056542300001, (IF=3.4/2022-2023), (IF=2,9/2023), Q2
- Ris 7. Ungureanu, C, Tihan, GT*, **Zgarian, RG***, Fierascu, I, Baroi, AM, Raileanu, S, Fierascu, RC, *Metallic and Metal Oxides Nanoparticles for Sensing Food Pathogens-An Overview of Recent Findings and Future Prospects*, **Materials**, **2022**, 15(15), Article Number, 5374, DOI: 10.3390/ma15155374, WOS:000839164100001, Q1, (IF=3.748/2021)
- Ris 8. Ana-Maria Manea-Saghin, Gratiela Teodora Tihan, **Roxana Gabriela Zgarian***, Carla-Cezarina Pădurețu, François Kajzar, Linear and non-linear optical properties of gelatin membranes doped with photoresponsive berries extracts, **Optical Materials** **108** Article number **110429**, **2020** Q2 10.1016/j.optmat.2020.110429, WOS 000587290900002, FI=3.754
- Ris 9. Simona Caprarescu, **Roxana Gabriela Zgârian**, Gratiela Teodora Tihan*, Violeta Purcar, Eugenia Eftimie Totu, Cristina Modroga, Anita-Laura Chiriac, Cristian Andi Nicolae, *Biopolymeric Membrane Enriched with Chitosan and Silver for Metallic Ions Removal*, **Polymers** **2020**, *12*, 1792; doi:10.3390/polym12081792, Q1, WOS: 000567278500001, (FI=4.967)
- Ris 10. Daniel-Cristian Ioan, Ileana Rau, Madalina Georgiana Albu Kaya, Nicoleta Radu, Marinela Bostan, **Roxana Gabriela Zgârian**, Gratiela Teodora Tihan, Cristina-Elena Dinu-Pîrvu, Alina Lupuliasa and Mihaela Violeta Ghica, *Ciprofloxacin-Collagen-Based Materials with Potential Oral Surgical Applications*, **Polymers**, **2020**, *12*, 1915; doi:10.3390/polym12091915, Q1, WOS:000582022800001, (FI=4.967)
- Ris 11. G. T. Tihan, M. Mindroiu, I. Rau, L. M. Nóbrega de Assis, A. Pawlicka^b, **R. G. Zgarian***, The electrochromic device performance with DNA based electrolyte, **Materials Chemistry and Physics**, Volume 241, **2020**, 122349, <https://doi.org/10.1016/j.matchemphys.2019.122349>, Q2, FI = 4.778, ISSN 0254-0584, WOS: 000514749500029
- Ris 12. G. T. Tihan, I. Rău¹, **R. G. Zgârian***, C. Ungureanu*, R. C. Barbaresso, M. G. Albu Kaya, C. Dinu-Pîrvu, M. V. Ghica, *Oxytetracycline versus Doxycycline Collagen Sponges Designed as Potential Carrier Supports in Biomedical Applications*, **Pharmaceutics**, 363, 11(8), ISSN:1999-4923, pp. 1-20, **2019**, (FI=6.525), DOI: 10.3390/pharmaceutics11080363, Q1 WOS:000484515100040
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- Ris 14.** Tihan G.T., **Zgarian R.G.***, Berteanu E., Ionita D., Totea G., Iordachel C., Tatia R., Prodana M., Demetrescu I., *Alkaline Phosphatase Immobilization on New Chitosan Membranes with Mg²⁺ for Biomedical Applications*, **Marine Drugs** **16** (8), article number 287, ISSN: 1660-3397 2018, (FI=6.085) (WOS: 000442868200014), <https://doi.org/10.3390/md16080287>, Q1
- Ris 15. Zgârian R. G.**, Iacob F., Kaya D. A., Rău I., Voicu G., Tihan G. T.*, *Effect of different essential oils*

on human dentine structure, **Farmacia** 47 (1), ISSN: 0014-8237, pp. 247 -251, **2017**, (FI=1.55) (WOS:000400126800014)

Ris 16. Tihan G.T., Sereanu V., Meghea A., Voicu G., Albu M.G., Mitran V., Cimpean A., **Zgârian R.G.***, *Innovative methodology for developing a bone grafting composite biomaterial starting from the seashell of Rapana thomasiana*, **Comptes Rendus - Chimie, Q2** , 20, ISSN: 1631-0748, pp. **440-445**, **2017**, (FI=2.55) (WOS:000400656200014)

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Ris 18. Apetroaei A., Manea A. M., Tihan G.*, Zgârian R.*, Schroder V., Rău I., *Improved Method Of Chitosan Extraction From Different Crustacean Species Of Romanian Black Sea Coast*, **U.P.B., Sci. Bull., Series B**, Vol. 79, Iss. 1, ISSN 1454-2331, pp. **25-36**, **2017**, WOS:000405772200003

Ris 19. Iacob F. **Tihan G. T.***, Zgarian R. G.*, Voicu G., Rău I. *Impact of some essential oils on the collagenic stability of the human dentine*, **U.P.B., Sci. Bull., Series B**, Vol. 79, Iss. 1, ISSN 1454-2331, pp. **45-50**, **2017**, WOS:000405772200005

Ris 20. Iacob F., Tihan G., **Zgârian R.***, Pauliuc M., Pirvu C., Rau I., *Preliminary studies concerning some natural extracts influence on the dentine*, **Molecular Crystal & Liquid Crystal**, 628:1, ISSN:1542-1406628:1, pp. 110-114, **2016**, (FI=0.672) (WOS: 000378126400014)

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Ris 25. Florea N. M., Lungu A., Badica P., Craciun L., Enculescu M., Ghita D. G., Ionescu C., **Zgarian R. G.**, Iovu H., *Novel nanocomposites based on epoxy resin/epoxy-functionalized polydimethylsiloxane reinforced with POSS*, **Composites Part B - Engineering** 75, ISSN: 1359-8368, pp. 226-234, **2015**, (FI=11.322), (WOS:000353426500022)

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Ris 31. Tane A., Kajzar F., Zgârian R., Rau I., Grabarek D., Karpinski P., and Miniewicz A., *Refractive Index and Surface Relief Grating Formation in DNA Based Dye-Doped Films*, **Macromolecular Research**, 21(3), ISSN: 1598-5032, pp. 331-337, **2013**, (FI=2.127), (WOS:000317234800014)

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Rns 40. Popescu R. G., Tihan G. T., Șulcă N. M., Demetrescu I., *Elaboration and characterization of polymers/ceramic films*, **U.P.B., Sci. Bull.**, Series B, Vol. 72, Iss. 4, ISSN: 1454-2331, pp. 79-90, **2010**

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(f) **Vis.** Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate, indexate ISI Thomson Reuters sau indexate în alte Baze de Date Internationale - BDI specifice domeniului

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Vis 3. Manea A. M., Tane A., Zgarian R., Grote J. G., Kajzar F. and Rău I., *Optical Third-Harmonic Generation Measurements In Biopolymer Complexes*, **Optical Materials and Biomaterials in Security and Defence Systems Technology IX, Proceedings of SPIE**, vol. 8545, 85450Q-1÷85450Q-7, Edinburgh, United Kingdom, ISBN: 978-0-8194-9286-9, ISSN: 0277-786X, (WOS=000313294400017), **2012**

Vis 4. Popescu R., Moldoveanu M. and Rău I., *Biopolymer thin films for photonics applications*, **Key Engineering Materials**, 415, ISSN: 1013-9826, pp. 33-36, (WOS:000278916000009), **2009, (FI=0.2)**

(g) **Vi** - Volumele unor manifestări științifice internaționale recunoscute, organizate în țară și străinătate;

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Vi 3. Dimonie D., Coserea R., Radovici C., Pop S., Bojin D., Socoteanu R., Petrea C., Zaharia C., Zgârian R., *Approaches considering a better incorporation of multilayered silicate into a polymeric matrix designed for hybride bio - nano - materials obtaining*, **Second International Workshop on Advanced, Nano- and Biomaterials and Their Applications, French-Romanian Topical meeting on Nano and Biomaterials**, Sibiu, România, pp. 38-39, **2010**

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(h) **Vn.** Conferințe naționale, publicații *in extenso*, apărute în lucrări ale principalelor conferințe naționale de specialitate

Vn 1. Ionescu I. B., Iovu H., Zgîrian G., Zgârian R., Demetrescu I., *Filme și Fibre Biopolimerice cu Aplicații Medicale*, **Simpozionul Național de Biomateriale**, București, Ediția a III-a, Ed. Printech, pp. 83–89, ISBN 973-652-808-3, **2002**

(i) **Alte reviste de specialitate de circulație internațională**

1. D. Dimonie, C. Radovici, S. Pop, R. Socoteanu, C. Petre, R. Fierascu, I. Fierascu, R. Zghirian, Petrache M., Coserea R., *Approaches considering a better incorporations of multilayered silicate into a polymeric matrix designed for bio - nano - materials obtaining*, **Nonlinear Optics, Quantic Optics: Concept in Modern Optics**, Vol.44, No.2-3, ISSN 1058-7268, p. 137-148, **2012**

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(a) Articole/studii fără publicarea *in extenso* (rezumat/poster) prezentate la conferințe internaționale

E 1. Simona Căprărescu, Eugenia Eftimie Totu, Daniel Costinel Petre, **Roxana Gabriela Zgârian**, Grațiela Teodora Tihan, Alexandru Mihai Grumezescu *Synthesis, Characterization, and Application of Polymeric Membranes Enriched with Titanium Dioxide Nanoparticles for Removal of Nickel Ions from Synthetic Wastewater*, Eurachem Workshop, Complex Matrices: Applications, Laboratory Standards, and Accreditation, Bucharest, ROMANIA - May 26 – 27, **2025**

E 2. Simona Căprărescu, Grațiela Teodora Tihan, **Roxana Gabriela Zgârian**, Alexandru Mihai Grumezescu, Cristina Modroga, Annette Madelene Dăncilă, *Performance of polymeric membrane containing nanoparticles for the removal of heavy metal ions from a simulated wastewater*, 23rd Romanian International Conference on Chemistry and Chemical Engineering, Constanța - Mamaia, ROMANIA - September 4–7, **2024**

E 3. Simona Căprărescu, **Roxana Gabriela Zgârian**, Grațiela Teodora Tihan, Alexandru Mihai Grumezescu, Adina Alexandra (Matei) Scarlat, Cristina Modroga, Titanium Dioxide Nanoparticles-Doped Polymeric Membrane For Cadmium Ions Removal In Wastewater Treatment, 22nd *International Balkan Workshop on Applied Physics and Materials Science*, Constanta, Romania 09-12 July **2024**

E 4. S. Căprărescu, **R.G. Zgârian**, G.T. Tihan, A.M. Grumezescu, *Synthesis and Characterization of Polymeric Membranes Enhanced with Hydrothermally Activated Titanium Dioxide Nanoparticles*, The International Scientific Conference “Applications of Chemistry in Nanosciences and Biomaterials Engineering” 19-21.06. 2024, Bucharest, Romania.

E 5. Camelia Ungureanu, Anda Maria Baroi, Ioana Silvia Hosu, Irina Fierascu, **Roxana Zgârian**, Grațiela Tihan, Radu Claudiu Fierascu, *‘Green’ synthesis of metallic nanoparticles: applications for Biosensor Platform*, 16th edition of the International Scientific Symposium Current Trends in Natural Sciences, organized by the Faculty of Sciences, Physical Education and Informatics from University of Pitesti, Romania, 18-20 May 2023.

E 6. Vasilica Mihaela Mîndroiu, Grațiela Teodora Tihan, **Roxana Gabriela Zgârian**, Andrei Stoian, *Optimization of Physical and Optical Properties of TiO₂ Nanostructures Deposited on FTO Substrate by Slow Hydrolyses*, RICCE 22, 22nd Romanian International Conference on Chemistry and Chemical Engineering, Sinaia, Romania, September 7-9, 2022.

E 7. Grațiela Teodora Tihan, **Roxana Gabriela Zgârian**, Elena Berteanu, Daniela Ioniță, Ioana Demetrescu, Georgeta Țoțea, Cătălin Iordăchel, Mihaela-Ionică Enache, Adina-Lidia Zuav and Luminița Tcacenco, *Immobilization of the Alkaline Phosphatase on Genipin-cross-linked chitosan-gelatine membranes for biomedical applications*, The International Symposium on Inorganic and Environmental Materials 2018 (ISIEM 2018), Ghent, Belgium, June 17-21, 2018

E 8. **Roxana Gabriela Zgârian**, Grațiela Teodora Tihan, Elena Berteanu, Daniela Ioniță, Luminița Tcacenco, Mihaela-Ionică Enache, Adina-Lidia Zuav, Maria Paraschiv, Georgeta Țoțea and Ioana Demetrescu, *The influence of magnesium ion on the antibacterial activity of the polymeric membranes*, The International Symposium on Inorganic and Environmental Materials 2018 (ISIEM 2018), Ghent, Belgium, June 17-21, 2018

E 9. D.C. Ioan, G.T. Tihan, **R.G. Zgârian**, Mihaela Violeta Ghica, Mădălina Georgiana Albu Kaya, Ileana Rău, *New collagen-piroxicam based materials for oral applications*, 20th Romanian International Conference on Chemistry and Chemical Engineering Poiana Brasov, ROMANIA - September 6-9, **2017**

E 10. I. Rau, M. Mindroiu, G. Tihan, **R. Zgarian**, A. Pawlicka, C. Pirvu - *DNA based materials for electrochromic applications*, 3rd International Workshop on Nano and Bio-Photonics, martie 2016 la Aussois, Franta, invited lecture

E 11. Rău I., Tihan G., **Zgârian R.**, Pauliuc M., Iacob F., *Bioabsorbable plant extracts for dentine treatment*, BIT's 5th Annual Symposium of Drug Delivery System, Beijing, China, 2015

E 12. Rău I., Mindroiu M., Tihan G., **Zgârian R.**, Manea A. M., Nobrega De Assis L.M., Pawlicka A., Kajzar F., *DNA based materials with electrochromic properties*, International Workshop, Cabourg, Franta, Decembrie **2015**, invited lecture

E 13. Iacob F., Tihan G., **Zgarian R.**, Pauliuc M., Rau I., *Natural extracts influence on the dentin collagen*, 13th International Conference on Frontiers of Polymers and Advanced Materials (ICFPAM), Marrakesh, Maroc, 30 March - 02 April **2015**

E 14. Florea N. M., Lungu A., Ghiță D. G., Crăciun L., Ionescu C., Mărginean N., Tihan G., **Zgîrian R. G.**, Iovu H., *Effect of POSS nanoreinforcement on the physical properties of epoxy resin / epoxy functionalized polydimethylsiloxane nanocomposites*, Fourth International Conference on Multifunctional, Hybrid and Nanomaterials (HYMA 2015), Sitges, Spain, 9-13 March, **2015**, poster

E 15. Pawlicka A., Firmino A., Sentanin F., Sabadini R. C., Jimenez D.E.Q., Jayme C.C., Mindroiu M., **Zgarian R. G.**, Tihan G. T., Rau I., Silva M.M., Nogueira A.F., Kanicki J., Kajzar F., *Bio-inspired materials for electrochemical devices*, Optics & Photonics for Counterterrorism, Crime, Fighting, and Defence XI; and Optical Materials and Biomaterials in Security and Defence Systems Technology XII, Septembrie **2015**

E 16. Rău I., Mindroiu M., Tihan G., **Zgârian R.**, Pawlicka A., Kajzar F., *Electrochromic characterization of some DNA based materials*, 11-th International Conference – Micro- to Nano-Photonics IV-ROMOPTO 2015, București, Romania, 1 – 4 September, **2015**, Invited Lecture

E 17. Mircea M. L., Tihan G., Mindroiu M., **Zgarian R.**, Rău I., *DNA based materials with electrochomic properties*, Fourth International Conference on Advanced, Nano- and Biomaterials and their Device Application, Iasi, Romania, 17-21 Sept., **2014**, prezentare orală

E 18. Rău I., Tihan G., Mindroiu M., **Zgarian R.**, Kajzar F., Marinho Nobrega de Assis L., Sentanin F., Pawlicka A., *Electrochemical properties of some DNA based materials*, SPIE Optics & Photonics, Nanoscience and Engineering, Nanobiosystems: Processing, Characterization, and Applications VII, San Diego, USA, August, **2014**, invited lecture

E 19. Rău I., Tihan G., Mindroiu M., **Zgarian R.**, Kajzar F., *Biopolymer conformations and dopant aggregation in DNA-based complexes for photonics application*, Photonics West 2014 - Organic Photonic Materials and Devices XVI, San Francisco, SUA, February, **2014**, invited lecture

E 20. Grykien R., Luszczynska B., Glowacki I., Ulanski J., Rău I., **Zgarian R.**, Kajzar F., *On deoxyribonucleic acid (DNA) based BIOLEDs* Photonics West 2014 - Organic Photonic Materials and Devices XVI, San Francisco, SUA, February, **2014**, invited lecture

E 21. Rau I., Tihan G., Mindroiu M., **Zgârian R.**, Kajzar F., de Oliveira H. C. L., Pawlicka A., *DNA based materials for application in electro-optics*, XII ICFPAM, Auckland, New Zealand, 8 – 13 december, **2013**, invited lecture

E 22. Rău I., Meghea A., Țane A., Kajzar F., **Zgarian R.**, Tihan G., *Matrix influence on photoluminescence of organic dyes in solid medium*, SPIE European Symposium on Optics/Photonics in Security and Defence Systems Technology X, Dresden, Germania, 23-26 Sept., **2013**, invitated paper

E 23. Mindroiu M., Tihan G., **Zgârian R.**, Rău I., Kajzar F., de Oliveira H. C. L., *Electrochemical characterisation of some DNA based biomaterials with high potential applications*, 18th International

Conference on Chemistry and Chemical Engineering (RICCCE 18), Sinaia, Romania, 4-7 Sept., **2013**, prezentare orală

E 24. Tihan G. T., Mîndroiu M., Țane A., **Zgârian R. G.**, Kajzar F., de Oliveira H. C. L. and Rău I., *New DNA based biomaterials for applications in biophotonics*, 18th International Conference on Chemistry and Chemical Engineering (RICCCE 18), Sinaia, Romania, 4-7 Sept., **2013**, prezentare orală

E 25. Rău I., Mîndroiu M., Țane A., **Zgârian R.**, Tihan G., Kajzar F., Meghea A., *Advanced biomaterials for photonics and electronics*, 18th International Conference on Chemistry and Chemical Engineering (RICCCE 18), Sinaia, Romania, 4-7 Sept., **2013**, prezentare orală

E 26. Grykien R., Luszczynska B., Glowacki I., Ulanski J., Rău I., **Zgarian R.**, Kajzar F., *On deoxyribonucleic acid (DNA) based bioleds*, 18th International Conference on Chemistry and Chemical Engineering (RICCCE 18), Sinaia, Romania, 4-7 Sept., **2013**, prezentare orală

E 27. Rau I., Manea A.-M., **Zgarian R.**, Tane A., Meghea A., Kajzar F., *Functionalization and linear as well nonlinear optical properties characterization of DNA biopolymer based complexes* - Photonic Materials and Devices XV, San Francisco, SUA, 01-09 Febr., **2013**, invited lecture

E 28 Rau I., Tane A., **Zgârian R.**, Meghea I., Kajzar F., *DNA complexes with NLO chromophors for biophotonics*, International Conference on Advanced Materials for Photonics, Slusing and Energy Conversion Applications (AMPSECA), El Jadida, Maroc, 5-7 december **2012**, prezentare orală

E 29. Kajzar F., Manea A. M., Tane A., **Zgarian R.**, Rau I., *Doping and NLO properties of DNA thin films*, International Conference on Advanced Materials for Photonics, Slusing and Energy Conversion Applications (AMPSECA), El Jadida, Maroc, 5-7 december **2012**, prezentare orală

E 30. Rau I., Meghea A., Manea A. M., Tane A., **Zgarian R.**, Kajzar F., *Interest and potentiality for applications of deoxyribonucleic acid in electronica and in photonics*, International Conference on Advanced Materials for Photonics, Slusing and Energy Conversion Applications (AMPSECA), El Jadida, Maroc, pp. 10, PP 4, 5-7 december **2012**, prezentare orală

E 31. Rau I., Iosub I., Kajzar F., Makowska-Janusik M., Dlugosz J., Meghea A., Tane A., **Zgârian R.**, *On electronic structure and optical properties of anthocyanidines extracted from grapes*, SPIE Europe Optics & Photonics in Security and Defense, Optical Materials in Defense Systems Technology, Edinburgh, United Kingdom, September, **2012**, invited lecture

E 32. Tane A., Meghea A., **Zgarian R.**, Kajzar F., Rau I., *Optical characterization of new DNA based materials*, Third International Workshop on Advanced Nano- and Biomaterials and Their Device Applications (NABM), Timisoara, Romania, 19-23 Sept. **2012**, prezentare orală

E 33. **Zgarian R.**, Barbaresso R., Albu M., Ghica M., Meghea A., Ungureanu C., Rau I., *Collagen based materials for dental treatment*, Third International Workshop on Advanced Nano- and Biomaterials and Their Device Applications (NABM), Timisoara, Romania, 19-23 Sept. **2012**, prezentare orală

E 34. Tane A., Iosub I., **Zgârian R.**, Meghea A., Rau I., *DNA based materials with enhanced fluorescent properties*, International Workshop on Nano and Bio-Photonics (IWNBP) Organized jointly with French-Korean Meeting om Functional Material for Organic Optics, Electronics, and Devices (FUNMOOD), St. Germain au Mont d'Or, France, 23-28 october **2011**, invited lecture

E 35. Rau I., **Zgârian R.**, Tane A., Meghea A., Kajzar F., *DNA based materials with enhanced fluorescent properties*, International Workshop on Nano and Bio-Photonics (IWNBP) Organized jointly with French-Korean Meeting om Functional Material for Organic Optics, Electronics, and Devices (FUNMOOD), St. Germain au Mont d'Or, France, 23-28 october **2011**

E 36. **Popescu R.**, Mesmin A., Boumard A., Giurginca M., Tihan G., Trandafir V., Grote J. G., Kajzar F., Rau I., *On the stability of DNA and collagen-based thin films*, The First International Workshop on Advanced, Nano- and Biomaterials and Their Applications, pp. 79, Sibiu, 15-19 Septembrie **2010**

- E 37.** Rău I., **Popescu R.**, Moldoveanu M., Meghea A., Grote J. G., Kajzar F., *Degradation of Biopolymer – Based Thin Films*, Photonics West 2010 – Organic Photonic Materials and Devices XI, San Francisco, SUA, 24-29 ian. **2010**, invited lecture
- E 38.** **Popescu R.**, Tihan G., Demetrescu I., *Obtaining and characterization of collagen gel - PEG - HA films with potential applications*, 10th International Conference on Frontiers of Polymers and Advanced Materials (ICFPAM), pp. 316, Santiago, Chile, 28 September - 2 October **2009**
- E 39.** Rău I., **Popescu R.**, Moldoveanu M., Meghea A., Grote J. G., Kajzar F., *On the stability and degradation of DNA and collagen-based thin films*, 10th International Conference on Frontiers of Polymers and Advanced Materials (ICFPAM), pp. 160, Santiago, Chile, 28 September - 2 October **2009**, invited lecture
- E 40.** **Popescu R.**, Moldoveanu M., Michelet B., Meghea A., Grote J. G., Kajzar F., Rău I., *Photo-, thermal- and chemical stability of pure and functionalized DNA and collagen films*, The Fifth International Symposium on Materials and Devices for Nonlinear Optics ISOPL'5, pp. 60, Iles de Porquerolles, France, 26 June - 1 July **2009**
- E 41.** Mihaly M., Stanomir L., **Popescu R.**, Trandafir V., Meghea A., Grote J. G., Rau I., *Properties improvement of biopolymers: chromophore silica based thin films*, Photonics West 2009 - Organic Photonic Materials and Devices XI, Conference 7213-44, San Jose, SUA, 24 – 29 Jan. **2009**
- E 42.** Rău I., **Popescu R.**, Tihan G., Boumard A., Mesmin A., Trandafir V., Demetrescu I., Meghea A., Grote J. G., Kajzar F., *Stability of DNA and collagen-based thin films*, Photonics West 2009 - Organic Photonic Materials and Devices XI, Conference 7213-14, San Jose, SUA, 24 – 29 Jan. **2009**, invited lecture
- E 43.** Rău I., **Popescu R.**, Tihan G., Boumard A., Mesmin A., Meghea A., Grote J. G., Kajzar F., *Biopolymers - Novel Materials for Application in Photonics*, The 6th International Conference “Advanced Optical Materials and Devices”, vol. Abstracts, pp. 15, Riga, Latvia, 24 - 27 August **2008**, plenary lecture
- E 44.** Rău I., **Popescu R.**, Tihan G., Demetrescu I., Meghea A., Grote J. G., Kajzar F., *Biopolymer Thin Films: Processing, Properties and Stability*, SPIE Optics & Photonics, Nanoscience and Engineering, Nanobiosystems: Processing, Characterization, and Applications, Conference 7040-22, 10 – 14 August, San Diego, California, USA **2008**, invited lecture
- E 45.** Rău I., **Popescu R.**, Tihan G., Demetrescu I., Meghea A., Grote J. G., Kajzar F., *Degradation kinetics of biopolymers based thin films*, 2nd International Conference on Functional Materials and Devices, 2008 (ICFMD-2008), pp. I40, Kuala Lumpur, Malaysia, 16 – 19 June **2008**, invited lecture
- E 46.** **Popescu R. G.**, Tihan G. T., Rău I., Iordăchescu D., Demetrescu I., *Structure and characterization of various films based on collagen with potential applications*, 10th International Symposium Biomaterials: Fundamentals and Clinical Applications, Biomaterials NRW 2008, pp. 61, Essen, Germania, 12 - 14 march **2008**
- E 47.** Tihan G. T., **Popescu R. G.**, Iordăchescu D., *Correlation between hydrophilic balance and biocompatibility of poly (methyl methacrylate) (PMMA) – hydroxyapatite (HA) composites*, 10th International Symposium Biomaterials: Fundamentals and Clinical Applications, Biomaterials NRW 2008, pp. 62, Essen, Germania, 12 - 14 march **2008**
- E 48.** **Popescu R.**, Iordăchescu D., Voicu G., Iovu H., Demetrescu I., *Biofilms Materials Based On Blends Of Collagen Gel And Poly(Ethylene Glycol) (PEG)* International Conference. “Biomaterials & Medical Devices” Biomedd'2004, pp. 77, București, 5 - 7 noiembrie, ISBN: 973-718-083-6, **2004**
- E 49.** Zgîrian G., **Zgârian (Popescu) R.**, Iovu H., Bujor I. I., Meghea A., Demetrescu I., *New Collagen Hybrids Composites Devoted To Cell Growth And Proliferation; The Cell Biomaterial Reaction*, extended abstract publicat în revistă cotate Medline. European Cells and Materials (ECM V), ISSN: 1473-2262, Davos, Switzerland, vol. 7, SUPPL. 1, pp. 34, 28-30 June, **2004**, (SCOPUS)

E 50. Popescu S., **Zgîrian R.**, Demetrescu I. *Various Approaches in Enhancing Biocompatibility of Metallic Implant Materials*, 13th Romanian International Conference on Chemistry and Chemical Engineering (RICCCE 13), Bucuresti, Romania. 16-18 Septembrie, **2003**

(b) lucrări prezentate *oral* la diferite conferințe internaționale

E 51. Zgârian R. G., Țane A., Tihan G., Meghea A., Kajzar F. and Rău I., *Functionalization and characterization of DNA based materials in view of their application in electrooptics*, 18th International Conference on Chemistry and Chemical Engineering (RICCCE 18), Sinaia, Romania, 4-7 Sept., **2013**, prezentare orală

Conferințe naționale fără publicarea în extenso (rezumat)

E 1. D. Dimonie, C. Radovici, S. Pop, R. Socoteanu, C. Petrea, R. Coserea, **Roxana Zgîrian**, F. Andrei, *Dependenta proprietatilor unor nanocompozite poliolefinice de caracteristicile structurii morfologice*, Simpozionul national cu participare internationala “Prioritatile chimiei pentru o dezvoltare durabila” - PRIOCHEM-, ICECHIM, pp. 50, București, 28-29 octombrie **2010**

E 2. D. Dimonie, C. Radovici, S. Pop, R. Socoteanu, C. Petrea, R. Coserea, **Roxana Zgîrian**, F. Andrei, *Reologia topiturilor unor materiale biodegradabile pe baza de amidon*, Simpozionul national cu participare internationala “Prioritatile chimiei pentru o dezvoltare durabila” -PRIOCHEM-, ICECHIM, vol. Abstracts, pp. 25, București, 28-29 octombrie **2010**

E 3. R. M. Coșerea, R. Constantin, C. Grigoraș, S. Pop, C. Zaharia, R. Darie, **Roxana Popescu**, D. Dimonie, *Aspecte privind obținerea bio-nano-compozitelor polimerice pe bază de resurse regenerabile*, Simpozionul Internațional Prioritățile Chimiei pentru o dezvoltare durabilă -PRIOCHEM-ICECHIM, ISBN 978-973-0-06996-9, Sinaia, 29-30 octombrie **2009**

E 4. D. Dimonie, R. Coserea, C. Radovici, S. Pop, D. Bojin, R. Socoteanu, C. Petrea, C. Zaharia, **Roxana Zgârian**, *Nano-hibride polimerice. Delaminarea silicatului sub actiunea fortelor de forfecare la prelucrarea din topitura*, A XXXI-a Conferinta Nationala de Chimie, pp. 25, Ramnicu Valcea, 06-08 Octombrie **2010**

Alte lucrări de cercetare-dezvoltare

F. Roxana Gabriela ZGÂRIAN, “Metode de evaluare a unor substanțe și materiale biocompatibile”, Disertație, **2004**

P. Proiecte de cercetare-dezvoltare-inovare: a) obținute prin competiție pe bază de contract/grant în țară / străinătate (Pn-naționale,Pi-internaționale)

Obs. – Grupe distincte, în ordinea de mai sus.

Programul/Proiectul	Funcția	Perioada
Pn 1. Contract de cercetare – “Modelarea unor compozite polimerice: De la sinteză la proprietăți termo-mecanice și calcule cu element finit”, CNCSIS Tip A	Membru în echipa de cercetare	2002 - 2003
Pn 2. Contract de cercetare nr. 1122/01.10.2004 „Dezvoltarea unor biotehnologii de cultivare a unor celule umane în scopul aplicării lor în practica medicală”, CEEX – BIOTECH	Membru în echipa de cercetare	2004 - 2006

<u>Pn 3.</u> Contract de cercetare nr. 1395/29.06.2004 – “ <i>Obținerea și caracterizarea de noi micro și nanostructuri compozite cu utilizare în ingineria tisulară</i> ”, CNCSIS tip A	Membru în echipa de cercetare	2004 - 2006
<u>Pn 4.</u> Bursă de cercetare tip Bd, Cod CNCSIS 28 – “ <i>Evaluare și sinteză de noi materiale polimerice cu aplicații în tehnologii de vârf</i> ”, CNCSIS tip Bd	Aplicant bursă de cercetare științifică pentru tineri doctoranzi	2003 - 2006
<u>Pn 5.</u> Contract de cercetare Nr. 27692/14.03.2005, - “ <i>Tehnici de investigație în evaluarea a noi micro- și nanostructuri polimerice pe bază de collagen destinate creșterii de celule osteoblaste</i> ”, CNCSIS tip Td	Director de proiect	2005 - 2006
<u>Pn 6.</u> Contract de cercetare 278 / 13.09.06, – “ <i>Compozite pe bază de polimeri ionici, utilizate ca suport biomimetic de țesut osos pentru testări in vitro</i> ”, CEEX -COMPOVIT	Membru în echipa de cercetare	2007 - 2008
<u>Pn 7.</u> Contract de cercetare 41-005/2007 – “ <i>Impactul factorilor de mediu în dinamica formării și comportamentului stucturilor dinților temporari</i> ”, PN II - CNMP	Membru în echipa de cercetare	2007 - 2010
<u>Pn 8.</u> Contract de cercetare Nr. 32101 /01.10.2008 – “ <i>Ambalaje celulare ecologice biodegradabile pe bază de polimeri regenerabili</i> ”, ECO-BIO-FOAM	Membru în echipa de cercetare	2009 - 2010
<u>Pi 9.</u> Contract de cercetare - Numar contract finantat: 240/31.08.2010– “ <i>Crearea centrului de competență pentru fonică avansată și biotronică</i> ”, BIOTRONICS, POS CCE; Nr. Proiect/cod SMIS CSNR: 634/12575	Membru în echipa de cercetare	2010 - 2014
<u>Pn 10.</u> Contract de cercetare Nr. 279/7.10.2011, Cod proiect PN-II-ID-PCE-2011-3-0505– „ <i>Elaborarea și caracterizarea de biopolimeri funcționali pentru aplicații în fonică și electronică</i> ” IDEI	Membru în echipa de cercetare	2011 - 2016
<u>Pn 11.</u> Contract de cercetare 3/2012, Cod proiect PN-II-PT-PCCA-2011-3.1-0316 – “ <i>Bio-nanofonică pe bază de structuri supramoleculare de ADN pentru funcționalități complet optice integrate (BIO-NANO-PHOTO)</i> ”.	Membru în echipa de cercetare	2012 - 2016
<u>Pi 12.</u> Contract de cercetare – FP7 Tip IRSES (International research staff exchange scheme)– BIOMOLEC 247544 - <i>Functionalized biopolymers for application in molecular electronics and in photonics</i>	stagiul de cercetare în Brazilia la IQSC, Universitatea de São Paulo, CEP 13566-590, São Carlos-SP	12 mai-6 iun. 2014 15 apr.-15 mai 2015
<u>Pn 13.</u> Contract de cercetare nr. 155/2014, (nr. intern CH 39.14.03) tip proiect PNII-PCCA – “ <i>Tehnologii și produse inteligente pentru tratamentul și prevenirea mamitelor la rumegătoarele productive bazate pe chimia verde a compozitelor destinate sănătății publice veterinare</i> ” (GREENVET)” PN-II-PT-PCCA-2013-4-0415	Membru în echipa de cercetare	2014 - 2017
<u>Pn 14.</u> Contract de cercetare nr. 190PED/2017 , (nr. intern CH CH44.17.04) Cod proiect PN-III-P2-2.1-PED-2016-1337 - “ <i>Îmbunătățirea tehnologiei de imobilizare enzimatică a alcalin fosfatazei în vederea creșterii performanțelor unor materiale implantabile</i> ”, (ECHITECH)	Membru în echipa de cercetare	2017 - 2018
<u>Pn 15.</u> PN-III-P4-ID-PCE-2016-0674 (contract nr. 100/2017), intitulat „ <i>Materiale "verzi" avansate pentru fotonica</i> ”	Membru în echipa de cercetare	2017 - 2018

<u>Pn 16.</u> Contract de cercetare nr. TE 100/ 2022 (nr. intern CAMP 2207), Cod proiect PN-III-P1-1.1-TE-2021-0417 - „Fabricarea de noi ferestre electrocromice bifunctionale care stocheaza energie” (Acronim INNOBIFEESW)	Membru tanar cercetator	15 mai 2022 – 14 mai 2024
<u>Pn 17.</u> Contract 652 PED/ 2022 , cod: PN-III-P2-2.1-PED-2021-0042 (ID CRESCDI 220223696), cod COR 211306, “Nanostructuri fitosintetizate de înaltă performanță utilizate ca senzori pentru detectarea microorganismelor patogene din produse alimentare” (Acronim NanoBIOPAT)	Membru cercetator	28 iunie 2022 –20 iunie 2024
<u>Pn 18.</u> Contract GNAC ARUT 2023 (2023-2024) este Membrane polimerice dopate cu nanoparticule oxidice activate hidrotermal pentru tratare ape uzate, Nr. 155/04.12.2023	Membru cercetator	2023-2024

Semnatura:
Conf. dr. ing. **Roxana Gabriela ZGÂRIAN**



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