

Universitatea POLITEHNICA din București
Facultatea: CHIMIE APLICATĂ ȘI ȘTIINȚA MATERIALELOR
Departament: CHIMIE GENERALĂ
Conf. dr. ing. Tihan GrațIELA Teodora

LISTA
lucrărilor științifice în domeniul disciplinelor din postul didactic

(a) teza de doctorat;

T1. Gratiela Teodora Tihan, *Contribuții la studiul unor biomateriale polimerice: sinteză, caracterizare fizico-chimică și aplicații*, susținută în data de 04.05.2007.

(b) brevete de invenție

B 1. I. Bujor Ionescu, **G. T. Zgarian**, I. Demetrescu, H. Iovu, D. Iordachescu, *Compoziție biopolimerică și procedeu de obținere a acesteia*, Data eliberării: **30.03.2009**. BOPI nr. 3/2009. Număr patent: **RO122282-B1**.

B 2. **G. T. Tihan**, I. Bujor Ionescu, I. Demetrescu, A. Meghea, *Filme biopolimerice ternare*, Data eliberării: **30.03.2009**. BOPI nr. 3/2009. Număr patent: **RO122287-B1**.

(c) cărți și capitole în cărți;

I1. Tihan Gratiela Teodora, Badea Maria Nicoleta, Ionita Mioara Daniela, *Aplicatii de laborator si probleme de chimie pentru facultatile de profil mecanic*, Editura Politehnica Press, ISBN: 978-606-515-033-1, 117 pag., **2009**.

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

Ris 1. 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 00058729090002

Ris 2. Simona Caprarescu, Roxana Gabriela Zgârian, **Gratiela Teodora Tihan***, Violeta Purcar, Eugenia Eftimie Totu, Cristina Modrojan, 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

Ris 3. 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

- Ris 4. **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 = 3.408, ISSN 0254-0584, WOS: 000514749500029
- Ris 5. G. T. Tihan, I. Rău ¹, 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=4.421) (WOS: 000484515100040.), **DOI**: 10.3390/pharmaceutics11080363, Q1 WOS:000484515100040
- Ris 6.** Ioan D.C. Rau I., Tihan G.T., **Zgarian R.G.***, Ghica M.V., Kaya M.G.A., Dinu-Pirvu, E.C., *Piroxicam-Collagen-Based Sponges for Medical Applications*, **International Journal Of Polymer Science**, Article Number: 6062381, **ISSN**: 1687-9422 **2019**, (FI= **1.646**) (WOS:000471019400001), **DOI**: 10.1155/2019/6062381, (ISI WEB of Knowledge) Q2
- Ris 7.** 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=4.073) (WOS: 000442868200014). (ISI WEB of Knowledge) Q1
- Ris 8.** Marin Ș., Albu Kaya M. G., Voicu G., **Tihan G. T.**, *Hidrogeluri compozite sensibile la pH și temperatura pentru tratamentul arsurilor / pH and temperature sensitive composite hydrogels for burn treatment*, **Revista Română de Materiale / Romanian Journal of Materials**, 47 (1), 1583-3186, **pp. 78-83**, **2017**, (FI=0.65) (WOS:000396979900010). (ISI Web of Knowledge, SCOPUS) - 0 citări
- Ris 9.** Zgârian R. G, **Tihan G. T.**, Kajzar F., Rău I., Pawlicka A., Mîndroiu M. V., *Chromophore doped DNA based solid polymer electrolyte for electrochromic devices*, **Arabian Journal of Chemistry**, 10, ISSN:1878-5352, **pp. 232-239**, **2017** (FI=4.762) (WOS:000396238000010). (ISI Web of Knowledge, SCOPUS, ScienceDirect)
- Ris 10.** 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=0.512) (WOS: 000378126400014), (ISI Web of Knowledge, SCOPUS, scholar.google.ro)
- Ris 11.** **Tihan T. G.**, Rău I., Zgârian R. G., Ghica M. V., *Collagen-based biomaterials for ibuprofen delivery*, **Comptes rendus - Chimie**, 19(3), ISSN: 1631-0748, **pp. 390-394**, **2016**, (FI=2.223) (WOS:000385784900017). (ISI Web of Knowledge, SCOPUS)
- Ris 12.** Apetroaei M. R., Zgârian R. G., Manea A.M., Rău I., **Tihan G. T.***, Schroder V., *New source of chitosan from Black Sea marine organisms identification*, **Molecular Crystal & Liquid Crystal**, 628:1, ISSN:1542-1406, **pp. 102-108**, **2016**, (FI=0.512) (WOS:000378126400013), (ISI Web of Knowledge, SCOPUS, scholar.google.ro)
- Ris 13.** **Tihan G. T.**, Ungureanu C., Barbaresso R. C., Zgârian R. G., Rău I., Meghea A., Albu M. G., Ghica M. V., *Chloramphenicol collagen sponges for local drug delivery in dentistry*, **Comptes rendus - Chimie**, 18, ISSN: 1631-0748, **pp. 986-992**, **2015**, (FI=2.223) (WOS:000363820900009) (ISI Web of Knowledge, SCOPUS, ScienceDirect, scholar.google.ro)
- Ris 14.** Florea N. M., Lungu A., Balanuca B., Badica P., Craciun L., Damian C.M., Enculescu M., Ionescu C., **Tihan G.**, Iovu H., *Effect of polyhedral oligomeric silsesquioxane nanoreinforcement on the properties of epoxy resin/monoglycidylether-terminated poly(dimethylsiloxane) nanocomposites*, **High Performance Polymers**, 28(6), ISSN: 0954-0083, **pp. 724-734**, **2016**, (FI=1,63) (WOS:000382225900011) (ISI Web of Knowledge, SCOPUS)

- Ris 15.** Mîndroiu M., Zgârian R. G., Kajzar F., Rău I., De Oliveira H. C. L., Pawlicka A., **Tihan G. T.***, *DNA-based membranes for potential applications*, **Ionics**, 21(5), ISSN:0947-7047, **pp. 1381-1390, 2015**, (FI=2.394) (WOS:000352656000017), (ISI Web of Knowledge, SCOPUS, scholar.google.ro)
- Ris 16.** **Tihan T. G.***, Ioniță M. D., Popescu R. G., Iordăchescu D., *Effect of hydrophilic – hydrophobic balance on biocompatibility of poly (methyl methacrylate)(PMMA) – hydroxyapatite (HA) composites*, **Materials Chemistry And Physics**, 118, ISSN: 0254-0584, **pp. 265–269, 2009**, (FI=3.408) (WOS:000271892800001), (ISI Web of Knowledge, SCOPUS, ScienceDirect, scholar.google.ro)
- Ris 17.** **Tihan G.**, Minkovska S., Giurginca M., Tite T., Iovu H., Demetrescu I., *Hydrophilic/hydrophobic balance in relation with structure and biocompatibility of ternary biofilms PVA-HAP-Collagen gel*, **Molecular Crystals and Liquid Crystals**, 486, ISSN: 1542-1406, **pp. 175/[1217] – 182/[1224], 2008**, (FI=0.512), (WOS:000256186000018) (ISI Web of Knowledge, SCOPUS, scholar.google.ro)
- Ris 18.** Sovar M.M., **Tihan G.T.**, Miculescu F., Mitran V., *Effect of saliva pH on electrochemical stability of Co-Cr-Mo bioalloy with a bio-chemically modified surface*, **Revista de chimie**, 58(9), ISSN: 0034-7752, **pp. 886 – 889, 2007**, (FI=1.755), (WOS:000250636800006). (ISI Web of Knowledge, SCOPUS)
- Ris 19.** **Zgîrian G.**, Iordăchescu D., Iovu H., Ionescu-Bujor I., Popescu R., Demetrescu I., *Effect of chemical compositions and topographical features of collagen biofilms on cell response*, **Molecular Crystal & Liquid Crystal**, 448, ISSN: 1542-1406, **pp. 83-94, 2006**, (FI=0.512), (WOS:000235404700007). (ISI Web of Knowledge, SCOPUS)
- Ris 20.** **Zgîrian G.**, Demetrescu I., Gheorghiu H., Iovu H., Hadăr A., Atanasiu C., *Modelarea unor compozite polimerice: De la sinteză la proprietăți mecanice și calcule cu elemente finite*, **Revista de Chimie** 56 (7), ISSN: 0034-7752, **pp. 757-761, 2005**, (FI=1.755), (WOS:000232629000016). (ISI Web of Knowledge, SCOPUS)
- Ris 21.** **Zgîrian G.**, Bujor I.I., Giurginca M., Rau I., Iovu H., Demetrescu I., *The characterization of bioartificial polymer films based on collagen filled with oligoelements*, **Molecular Crystals and Liquid Crystals** 418, ISSN: 1542-1406, **pp. 291/[1019]-298/[1026], 2004**, (FI=0.512), (WOS=000224980600024). (ISI Web of Knowledge, SCOPUS) –
- Ris 22.** 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=1.607) (WOS: 000400126800014). (ISI WEB of Knowledge, SCOPUS)
- Ris 23.** **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**, 20, ISSN: 1631-0748, **pp. 440-445, 2017**, (FI=2.223) (WOS:000400656200014). (ISI Web of Knowledge, SCOPUS)
- Ris. 24.** Gijiu C.L., Dinculescu D.D., Rau I., **Tihan G.**, Ghica M., *Modeling the drugs release from composite materials based on collagen*, 655, 1, pp. 250-254, **2017**, DOI: 10.1080/15421406.2017.1361300, ISSN: 1542-1406, WOS:000423110900027

(e) **Rns** -Reviste de specialitate de circulație națională recunoscute de CNCSIS.

Rns 25. 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**, (SCOPUS, scholar.google.ro) WOS:000405772200003

Rns 26. 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, (SCOPUS, scholar.google.ro)

Rns 27. Zgârian R. G., **Tihan G. T.***, Barbaresso R. C., Rău I., *Spectral characterization of some collagen based composite for dental application*, **U.P.B. Sci. Bull.**, Series B, Vol. 78, Iss. 1, ISSN: 1454-2331, **pp. 99-110, 2016**, WOS: 000417051900010 (SCOPUS, scholar.google.ro)

Rns 28. Florea N. M., Lungu A., Crăciun L., Ionescu C., Zgârian R. G., **Tihan G. T.**, Iovu H., *The effect of epoxy functionalized polydimethylsiloxane on epoxy resins thermomechanical and morphological properties*, **U.P.B., Sci. Bull.**, Series B, Vol. 77, Iss. 4, ISSN: 1454-2331, **pp. 29-40, 2015**, (SCOPUS, scholar.google.ro) i

Rns 29. Popescu R. G., **Tihan G. T.**, Şulcă 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**, (SCOPUS)

Rns 30. **Tihan, G.T.**, Ionescu Bujor, I., Iordăchescu, D., Kostrakievici, I., *Hydroxyapatite effect in enhancing cell growth on new ternary biopolymeric films*, **U.P.B., Sci. Bull.**, Series B, Vol. 67, Iss. 3, ISSN: 1454-2331, **2005**, (SCOPUS)

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

Vis 1. Apetroaei M. R., Manea A. M., **Tihan G. T.**, Zgârian R. G., Schroder V., Liliș G., Apetroaei G. M., Rău I., *Chitosan an eco-friendly biomaterial from marine invertebrates*, **Proceedings of The 5th IEEE International Conference on E-Health and Bioengineering - EHB 2015**, Grigore T. Popa University of Medicine and Pharmacy, Iași, România, ISBN:978-1-4673-7545-0, (WOS:000380397900260), **2015**, (ISI Web of Knowledge, scholar.google.ro)

Vis 2. 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*, **Proceedings of SPIE** vol. 9652, 96520U-1 : 96520U-11, ISBN: 978-1-62841-862-0, ISSN: 0277-786X, (WOS:000369009400022), **2015**, (ISI Web of Knowledge, scholar.google.ro)

Vis 3. Ionita, D., **Tihan, G.**, Marques, A. T., *Water absorption and mechanical properties of cements based on poly (methyl methacrylate) (PMMA) as function of hydroxyapatite (HA) content*, **Key Engineering Materials**, Vol. 396 – 398, ISSN: 1013-9826, **pp. 493-496**, (WOS:000265306300116), **2009** (ISI web of knowledge, scholar.google.ro)

Vis 4. Iovu H., Bujor Ionescu I., **Zgarian G.**, Demetrescu I, *The elaboration and characterization of*

bioartificial polymer films with collagen content, 25th International Semiconductor Conference, CAS 2002 International Semiconductor Conference, vol. 1 and 2, Proceedings, pp. 295-298, ISBN: 0-7803-7440-1, (WOS:000181629400063), 2002 (ISI web of knowledge, scholar.google.ro)

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

Vi 1. S. A. Gârea, **G. Zgârian**, H. Iovu, *Thermal and microwave crosslinking process of diglycidyl ether of bisburnenol A with different diamines, Proceedings of 13th Romanian International Conference on Chemistry and Chemical Engineering*, Bucharest, Romania, (RICCCE 13), Vol. 3, **pp. 29-33**, ISBN: 973-652-825-1, **2003**

Vi 2. V. Trandafir, **G. Zgârian**, I. Bujor Ionescu, H. Iovu, G. Conache, I. Demetrescu, *The contribution of biopolymer films doped with different ions, Proceedings of 13th Romanian International Conference on Chemistry and Chemical Engineering*, Bucharest, Romania, (RICCCE 13), Vol. 3, **pp. 47-50**, ISBN: 973-652-825-1, **2003**

Vi 3. Daniela Ionescu (Ionita) and **Gratiela Zgârian**, *The corrosion of titanium and titanium alloys in NaCl solution, 1st International Conference Study and Control of Corrosion in the perspective of sustainable Development of Urban Distribution Gas 2002*, **pp.156-158**, ISBN: 973-95041-3-2, **2002**,

Vi 4. H. Gheorghiu, H. Iovu, I. Demetrescu, **G. Zgârian**, *The elaboration and mechanical characterization of some epoxy-glass fibres composites, Romanian Journal of Technical Sciences, Applied Mechanics*, ISSN:0035-4074, vol. 47, **pp.459-463**, **2002**

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

Vn 1. Ionescu I. B., Iovu H., **Zgârian 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**

Conferințe internaționale fără publicarea in extenso (rezumat)

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

E 1. **Gratiela 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 2. Roxana Gabriela Zgârian, **Gratiela 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 3. 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 4. 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. 5 I. Rau, F. Kajzar, M. Mindroiu, **G. Tihan**, A. M Manea, A. Pawlicka, C. Pirvu, *DNA-based membranes for multiple applications*, Photonics West 2016 -Organic Photonic Materials and Devices XVIII, San Francisco, SUA , feb. 2016, invited lecture

E. 6 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 7. A. Pawlicka, A. Firmino, F. Sentanin, R. C. Sabadini, D.E.Q. Jimenez, C.C. Jayme, M. Mindroiu, R. G. Zgarian, **G. T. Tihan**, I. Rau, M.M. Silva, A.F. Nogueira, J. Kanicki, F. Kajzar, *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 8. F. Kajzar, M. Mîndroiu, **G. Tihan**, A-M Manea, A. Pawlicka, Ileana Rău, *DNA-based membranes: development and applications*, SPIE Optics + Photonics + NanoScience + Engeneering, 7 – 14 August **2015**, San Diego, SUA, Invited Lecture

E 9. Rău I., Mîndroiu 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 10. 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 11. Florea N. M., Lungu A., Ghiță D. G., Crăciun L., Ionescu C., Mărginean N., **Tihan G.**, Zgârian 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 12. Rău I., Mîndroiu 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 13. 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 14. 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 15. 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 16. 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 17. 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.

E 18. 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 19. Mîndroiu 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 20. 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 21. I. Rau, M Mindroiu, **G. Tihan**, M.L.Mircea, H.C. Leite de Oliveira, A. Pawlicka, F. Kajzar, *Application of deoxyribonucleic acid (DNA) in electronics and in photonics*, International

Workshop on Nano and Bio-Photonics (IWNBP) French-Korean Meeting on Functional Material for Organic Optics, Electronics, and Devices (FUNMOOD), Biarritz, France, 3 – 8 november 2013, invited lecture

E 22. 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 23. 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 24. 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 25. 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 26. 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 27. 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 28. 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 29. **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 30. Gratiela Zgîrian, Dana Iordachescu, H. Iovu, Ingrid Ionescu-Bujor, Ioana Demetrescu, *Effect of chemical compositions and topographical features of collagen biofilms on cell response*, 8th International Conference on Frontiers of Polymers and advanced materials, pp. 204, Cancun, Mexic, 22-26 mai **2005**

E 31. Gratiela Tihan, Ingrid Ionescu Bujor, Dana Iordăchescu, Iulia Kostrakievici, *Hydroxyapatite effect in enhancing cell growth on new ternary biopolymeric films*, Advanced Procedures for Environmental & Health Relation in the Frame of Sustainable Development, Workshop RICCCE 14, pp.13, Bucharest, România, 23 September **2005**

E 32. G. Zgîrian, V. Trandafir, I. Ionescu Bujor, H. Iovu, I. Demetrescu, Internațional Conference “Biomaterials & Medical Devices” Biomedd’2004, Ed. Printech, pag. 82, ISBN 973-718-083-6, București, România, 5 - 7 noiembrie **2004**

E 33. 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 34. Ingrid Ionescu Bujor, **Gratiela Zgârian**, Dana Iordachescu, H.M.Iovu, Ioana Demetrescu, *Chemical composition and surface characteristics in selection of biopolymer collagen films as cell growth support*, Tissue Engineering Society International, 6th Annual International Conference and Exposition, pp. 47, Orlando, SUA, decembrie **2003**

E 35. Ionescu, I.B., Trandafir, V., Demetrescu, I., Iovu, H., **Zgirian, G.**, *New collagen composites with transdermal application*, Annual Meeting of the Swiss Society of Biomaterials 2003, DSR-Cité Universitaire, CH 2002 Neuchâtel, European Cells and Materials vol. 5 (SUPPL. 1), pp. 10-11, ISSN:1473-2262,14 May **2003**

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

E 36. 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 Romanian International Conference on Chemistry and Chemical Engineering (RICCCE 18), Sinaia, Romania, 4-7 Sept., **2013**, prezentare orală

E 37. A. Torres Marques, I. Demetrescu, D. Ionita, **G. Tihan**, *Composite materials PMMA and HA, elaboration and properties*, 15th Romanian International Conference on Chemistry and Chemical Engineering, **Sinaia**, Romania (RICCCE 15), 19-22 Sept., **2007**, prezentare orală

E 38. V. Trandafir, **G. Zgirian**, I.Bujor Ionescu, H. Iovu, G. Conache, I. Demetrescu, *The contribution of biopolymer films doped with different ions*, 13th Romanian International Conference on Chemistry and Chemical Engineering, Bucharest, Romania, (RICCCE 13), septembrie **2003**, prezentare orală

E 39. Iovu H., Bujor Ionescu I., **Zgirian G.**, Demetrescu I., *The characterization of a range of bioartificial polymers*, 3rd International Conference of the Chemical Societies of the South-Eastern European Countries on Chemistry in the New Millennium- an Endless Frontier, București, România, septembrie **2002**, prezentare orală.

Data: 12.03.2021

Semnatura:
Conf. Dr.Ing. **Tihan GrațIELA Teodora**