

## Curriculum vitae Europass

### Personal information **GRAȚIELA TEODORA TIHAN**

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Tel. 021-4023930  
E-mail [gratielatihan@yahoo.com](mailto:gratielatihan@yahoo.com)  
Nationality Romanian  
Date of birth 26.01.1978

**Position** **Associate Professor**

Department of General Chemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest

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### Work experience

- 2017-present** **Associate Professor**  
Department of General Chemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, **Sector of activity: Teaching**
- 2008-2017** **Lecturer**  
Department of General Chemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, **Sector of activity: Teaching**
- 2004-2008** **Teaching assistant**  
Department of General Chemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, **Sector of activity: Teaching**
- 2001-2004** **Junior teaching assistant**  
Department of General Chemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, **Sector of activity: Teaching**

## Education and training

- 2007-2008 Postdoctoral Stage** - *“Micro Și Nanostructuri Obținute Prin Bioactivare Chimică Și Electrochimică Cu Aplicații În Medicină Regenerativă”*, Bucharest, Romania
- 2007 Marie Curie-Transfer of Knowledge: N°014059-** *Polymeric nanocomposites for advanced materials” - INEGI - Mechanical Engineering and Industrial Management, Porto, Portugal*
- 2001-2007 Ph.D in Chemistry**  
 Department of General Chemistry, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest  
 Thesis title: *“Contributions at polymeric biomaterials study: synthesis, physico-chemical characterization and applications”*  
 Coordinator: Prof. Dr. Ioana Demetrescu
- 2001-2002 Master degree**  
 Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest.  
 Dissertation: *„Techniques for evaluation of microwave field crosslinking processes”*
- 1996-2001 Chemical engineer**  
 Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest  
 Specialization: Technology of macromolecular compounds

## Personal skills

Mother tongue

**Romanian**

Other languages

**English, Russian**

Communication skills

Ability to work in a team, dynamic person, responsible, communicative, determined, interested in professional improvement in a collective. Teamwork experience gained through participation in the research team of national and international projects as a director / member, but also through participation in numerous national and international conferences.

Digital competence

Good knowledge of Microsoft Office tools (Word, Excel, Power Point)

Organisational / managerial skills

Professor supervisor at the student's scientific communication session. Project director. Coordination of practical laboratory works, courses, seminars.

Graduate course: Organizational Behavior and Leadership for Innovation, 02 - 08 August 2013, within the project POSDRU/86/1.2/S/57748/ - INSEED, “Program strategic pentru promovarea inovării în servicii prin educație deschisă, continuă”, 2010-2013

Technical skills and competences

Ease of use of modern laboratory instruments and equipment, technical assistance

Driving license

Driving license category: B

**Awards - CNCSIS awards: Articles:**

- Effect of hydrophilic – hydrophobic balance on biocompatibility of poly (methyl methacrylate) (PMMA) – hydroxyapatite (HA) composites, *Materials Chemistry And Physics*, 2009. 118: p. 265–269 – autori: **Tihan Gratiela Teodora**, Ioniță Mioara Daniela, Popescu Roxana Gabriela, Iordăchescu Dana;
  - PN-II-RUPRECISI-2015- 9-10646, "Chloramphenicol collagen sponges for local drug delivery in dentistry", *Comptes rendus - Chimie*, vol. 18, pp. 986-992, ISSN: 1631-0748, 2015, - autori: **Gratiela Teodora Tihan**, Camelia Ungureanu, Răzvan Constantin Barbaresso, Roxana Gabriela Zgârian, Ileana Rău, Aurelia Meghea, Mădălina Georgiana Albu, Mihaela Violeta Ghica
  - PN-III-P1-1.1- PRECISI-2017- 17881, „Chromophore doped DNA based solid polymer electrolyte for electrochromic devices”, autori: Zgârian R. G., **Tihan G. T.**, Kajzar F., Rău I., Pawlicka A., Mîndroiu M. V., *Arabian Journal of Chemistry*, vol. 10, ISSN:1878-5352, pp. 232-239, **2017**
  - PN-III-P1-1.1- PRECISI-2018-27208, **Tihan G.T.**, Zgarian R.G., Berteau E., Ionita D., Totea G., Iordachel C., Tatia R., Prodana M., Demetrescu I., "Alkaline Phosphatase Immobilization on New Chitosan Membranes with Mg<sup>2+</sup> for Biomedical Applications", *Marine Drugs* 16 (8), article number 287, **2018**
  - PN-III-P1-1.1-PRECISI2019-33729 - Ioan D.C. Rau I., **Tihan G.T.**, Zgarian R.G.\*, Ghica M.V., Kaya M.G.A., Dinu-Pîrvu, E.C., *Piroxicam-Collagen-Based Sponges for Medical Applications*, **International Journal Of Polymer Science**, Article Number: 6062381, ISSN: 1687-9422 **2019**
  - PN-III-P1-1.1-PRECISI-2019-38023, **G. T. Tihan**, I. Rău<sup>1</sup>, 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**
  - **PN-III-P1-1.1-PRECISI-2020-52669 G. T. Tihan**, M. Mindroiu, I. Rau, L. M. Nóbrega de Assis, A. Pawlicka<sup>b</sup>, 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
  - PN-III-P1-1.1- PRECISI-2020- 42711 Simona Caprarescu, Roxana Gabriela Zgârian, **Gratiela Teodora Tihan\***, Violeta Purcar, Eugenia Eftimie Totu, Cristina Modrogan, 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
  - **PN-III-P1-1.1-PRECISI-2020-52341** 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
  - **PN-III-P1-1.1-PRECISI-2020-52708** 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
- **CNCSIS awards:**
- **Patent:** No. Nr. 122287, 30.03.2009. „Filme biopolimerice ternare”, **G. T. Tihan**, I. Bujor Ionescu, I. Demetrescu, A. Meghea
- **Special award** for the youngest inventor at International Exhibition of Inventions in Geneva, by the World Intellectual Property Organization, **2011**, for Patent No. 122287, **G. T. Tihan**, I. Bujor Ionescu, I. Demetrescu, A. Meghea, „Filme biopolimerice ternare”, State Office for Invention and Trademarks, 30.03.2009.

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- Affiliations**
- Member of European Association for Chemical and Molecular Sciences - EuCheMS.
  - Member of European Federation of Biotechnology
  - Member of Society of Chemistry (Romania) (SRCh)
  - Member of Society for Biomaterials (Romania)
  - SPIE Member (The International Society for Optical Engineering)
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- Other mentions**
- Member of the research team of 11 National Research and Development Programs and 2 International Programs
  - Project Director for 1 national project
  - Member of Scientific Committee of the Department of General Chemistry
  - Member in the Committee of guidance for doctoral studies
  - Member in Admission Committee for Faculty of Applied Chemistry and Materials Science, 2005, 2006, 2017, 2018
  - Member in Admission Committee to Master's Degree for Biotechnology and Bioengineering Department, 2004, 2014
  - Member in Admission Committee for Faculty of Medical Engineering, 2013, 2014, 2016
  - Responsible - Work protection, 2004 - 2008
  - Tutore foreign students – 2013, 2014
  - Scientific coordinator in the frame of student scientific sessions communications - UPB, General Chemistry Section, Faculty of Applied Chemistry and Materials Science
  - Scientific reviewer at UPB Scientific Bulletin, Series B: Chemistry and Materials Science
  - Scientific reviewer at International Journal of Ionics
  - Scientific reviewer at Arabian Journal of Chemistry
  - Scientific reviewer at Pharmacy Practice and Pharmaceutical Sciences
  - Scientific reviewer at Journal of Agricultural and Crop Research

- Specializations and qualifications**
- Graduate Teacher Training Department, University Politehnica of Bucharest, 2001
  - Graduate course: Informatization of medical services, 19 - 25 July 2013, within the project POSDRU/86/1.2/S/57748/ - INSEED, "Program strategic pentru promovarea inovarii în servicii prin educație deschisă, continuă", 2010-2013
  - Graduate course: Organizational Behavior and Leadership for Innovation, 2 - 8 August 2013, within the project POSDRU/86/1.2/S/57748/ - INSEED, "Program strategic pentru promovarea inovării în servicii prin educație deschisă, continuă", 2010-2013
  - Graduate course: "School of Academic Studies on Advanced Biophotonics and Biotronics", 10 - 23 iunie 2013, Bucharest, Romania. Scientific Seminar: "Synthesis and nonlinear optical properties of functionalized DNA-based biopolymers"
  - Traineeship, Brazil, Universidade Federal de São Carlos, 12 May - 6 June 2014 – postdoctoral study
  - Traineeship, Brazil, Universidade Federal de São Carlos, 15 April - 15 May 2015 – postdoctoral study.