

Tozar (Alexandru) Tatiana



Contact

Address:

30 Reactorului, Magurele, Ilfov, Romania

Phone:

+40769298041

Email:

tatiana.tozar@eli-np.ro

ResearcherID:

P-3856-2019

ORCID ID:

<http://orcid.org/0000-0002-5953-9241>

BrainMap ID:

U-1700-039G-4122

Languages

English – A1

German – B1

Spanish – C1

Summary

Research Scientist bringing 10 years of expertise in laser spectroscopy, photochemistry, chromatography, and microbiology. Skilled multitasker with excellent communication and problem-solving skills. Proven history of maintaining equipment and lab areas in alignment with regulatory guidelines.

Experience

Research Scientist III - 11/2021 to onwards

ELI-NP, Horia Hulubei National Institute for R&D in Physics and Nuclear Engineering, Gamma Driven Experiments Department, Magurele, Romania

Research Scientist III - 08/2016 to onwards

National Institute for Laser, Plasma, and Radiation Physics, Magurele, Romania

Research Scientist – 05/2015 to 07/2016

National Institute for Laser, Plasma, and Radiation Physics, Magurele, Romania

Assistant Research Scientist – 04/2012 to 04/2015

National Institute for Laser, Plasma, and Radiation Physics, Magurele, Romania

Assistant Research Scientist trainee– 10/2011 to 03/2012

National Institute for Laser, Plasma, and Radiation Physics, Magurele, Romania

Education

- **Ph.D. in Physics:** Optics, Spectroscopy, Plasma, Lasers (2012-2015), Ph.D. diploma obtained in February 2016.

University of Bucharest, Faculty of Physics, Romania

Thesis: **Generation and testing of photoreaction products obtained by exposure of medicine solutions to laser radiation**

- **Master of Science:** Medical Biophysics (2010-2012)

University of Bucharest, Faculty of Physics, Romania

Thesis: **The study of the effect of modified phenothiazines by exposure to laser radiation against MDR bacterial strains**

- **Bachelor of Science:** Medical Physics (2007-2010)

University of Bucharest, Faculty of Physics, Romania

Thesis: **The study protein-ligand interaction using isothermal titration calorimetry**

Tozar (Alexandru) Tatiana

Contact

Address:

30 Reactorului, Magurele, Ilfov,
Romania

Phone:

+40769298041

Email:

tatiana.tozar@eli-np.ro

ResearcherID:

P-3856-2019

ORCID ID:

<http://orcid.org/0000-0002-5953-9241>

BrainMap ID:

U-1700-039G-4122

Relevant Projects/Grants

- 1. Postdoctoral Research Project**, PN-III-P1-1.1-PD-2019-1117, Chlorpromazine loading and irradiation into hydrogels by UV laser radiation, as alternative to bacterial infected wound treatment, (September 2020-August 2022).
- 2. Postdoctoral Research Project**, PN-III-P1-1.1-PD-2016-1072, Generation and identification of antimicrobial species from medicines exposed to laser radiation in view of fighting multiple drug resistance acquired by bacteria, (May 2018-April 2020).
 - 2. Work stages**
 - Unit of Microbiology, Institute of Hygiene & Tropical Medicine of Lisbon, Universidade Nova de Lisboa, Lisbon, Portugal (15-26 October 2018).
 - Unit of Microbiology, Institute of Hygiene & Tropical Medicine of Lisbon, Universidade Nova de Lisboa, Lisbon, Portugal (01– 31 March 2012)
 - Dip. di Scienze Chimiche, Università di Napoli "Federico II", Napoli, Italy (October 11th- November 11th 2014)
 - 3. Ph.D. fellowship** POSDRU/159/1.5/S/137750; Faculty of Physics, University of Bucharest (June 2014-September 2015);
 - 4. Grants to attend 8 Training Schools:**
 - "Microbial infection from the chemistry perspective: the bottom-up approach", Facultad de Farmacia, Universidad CEU San Pablo / CIB-CSIC, Madrid, Spain (22-25 January 2013)
 - "A way to Smart Europe", University of Twente, Enschede, The Netherlands (23-25 April 2013)
 - "6th International Graduate summer school - Biophotonics '13", Lund University, Lund, Sweden and Technical University of Denmark, Denmark (8-15 June 2013)
 - "Targeting Gram-negative bacteria: from drugs discovery to pre-clinical exploitation", San Raffaele Scientific Institute, Milan, Italy (1-3 July 2013)
 - "Structure and dynamics of liquid foams and their applications", Université Paris-Sud, Orsay, France (3-9 November 2013)
 - "Glycoscience: a complex discipline with a central role in modern biology, biotechnology and medicine", Napoli, Italy (3-5 June 2014)
 - "Laserlab User Training Workshop on Time-Resolved Techniques (TReT)", Biocev, Vestec, Czech Republic (20-22 June 2018)
 - "Laser Ignition Summer School 2018", National Institute for Laser, Plasma and Radiation Physics (2-6 July 2018)
 - 5. Team member** in 8 National Projects and team member of Romanian group in 3 COST Networks.

Tozar (Alexandru) Tatiana

Contact

Address:

30 Reactorului, Magurele, Ilfov,
Romania

Phone:

+40769298041

Email:

tatiana.tozar@eli-np.ro

ResearcherID:

P-3856-2019

ORCID ID:

<http://orcid.org/0000-0002-5953-9241>

BrainMap ID:

U-1700-039G-4122

Publications

23 ISI articles (1 review) and 3 non-ISI articles: 12 ISI scientific papers as principal author (1 review), 11 ISI scientific papers as co-author, 2 non-ISI scientific papers as principal author.

As principal author according to Web of Science: 4 articles published in journals ranked Q1, 5 articles published in journals ranked Q2, 2 articles published in journals ranked Q3, and 1 article published in journals ranked Q4.

As co-author according to Web of Science: 8 articles published in journals ranked Q1, 1 article published in journals ranked Q2, 1 article published in journals ranked Q3, and 1 article published in journals ranked Q4.

IF_{cumulative}=74.55/IF_{individual}=2.29 AIS_{cumulative}=14.04/AIS_{individual principal author} = 6.32

Principal author

1. **T. Tozar**, M. Boni, I. R. Andrei, M. L. Pascu, A. Staicu, "High performance thin layer chromatography-densitometry method based on picosecond laser-induced fluorescence for the analysis of thioridazine and its photoproducts", JOURNAL OF CHROMATOGRAPHY A; 1655, 462488 (2021). Rank according to Web of Science, year of publication: **Q1**; IF **4.759** / AIS **0.631**.

2. **T. Tozar**, M. Boni, A. Staicu, M. L. Pascu, "Optical characterization of ciprofloxacin photolytic degradation by UV-pulsed laser radiation", MOLECULES 26, 2324 (2021). Rank according to Web of Science, year of publication: **Q2**; IF **4.411** / AIS **0.694**

3. **T. Tozar**, S. Santos Costa, A-M. Udrea, V. Nastasa, I. Couto, M. Viveiros, M.L. Pascu, M. O. Romanitan, "Anti-staphylococcal activity and mode of action of thioridazine photoproducts", SCIENTIFIC REPORTS 10, 18043 (2020). Rank according to Web of Science, year of publication: **Q1**; IF **4.379** / AIS **1.285**;

4. **T. Tozar**, IR. Andrei, R. Costin, ML. Pascu, R. Pirvulescu; "Laser induced autofluorescence lifetime to identify larynx squamous cell carcinoma: Short series ex vivo study", JOURNAL OF PHOTOCHEMISTRY AND PHOTOBIOLOGY B: BIOLOGY, 202, 111724 (2020). Rank according to Web of Science, year of publication: **Q1**; IF **6.25** / AIS **0.712**;

5. A. Dinache*, **T. Tozar***, A. Smarandache, I. Andrei, S. Nistorescu, V. Nastasa, A. Staicu, M.L. Pascu, M.O. Romaitan; Spectroscopic Characterization of Emulsions Generated with a New Laser-Assisted Device; MOLECULES, 25(7): 1729 (2020). Rank according to Web of Science, year of publication: **Q2**; IF **4.411** / AIS **0.694**;

6. **T. Tozar**; V. Nastasa; A. Stoicu; M. Popa; C. Karmezan; M.C. Chifiriuc; M.L. Pascu; "In vitro antimicrobial efficacy of laser exposed chlorpromazine against Gram-positive bacteria in planktonic and biofilm growth state", MICROBIAL PATHOGENESIS, 129:250-256 (2019). Rank according to Web of Science, year of publication: **Q3**; IF **2.914** / AIS **0.521**;

7. **Tozar, T**; Pascu, ML; "Time stability of laser exposed phenothiazines aqueous solutions in view of antimicrobial research" PROCEEDINGS OF THE ROMANIAN ACADEMY SERIES A; 19(4):537-544 (2018). Rank according to Web of Science, year of publication: **Q3**; IF **1.402** / AIS **0.24**;

Tozar (Alexandru) Tatiana

Contact

Address:

30 Reactorului, Magurele, Ilfov,
Romania

Phone:

+40769298041

Email:

tatiana.tozar@eli-np.ro

ResearcherID:

P-3856-2019

ORCID ID:

<http://orcid.org/0000-0002-5953-9241>

BrainMap ID:

U-1700-039G-4122

Publications

8. **Tozar, T**; Andrei, IR; Costin, R; Pirvulescu, RA; Pascu, ML; "Case series about ex vivo identification of squamous cell carcinomas by laser induced autofluorescence and Fourier transformed infrared spectroscopy", *LASERS IN MEDICAL SCIENCE*, 33(4):861-869 (2018). Rank according to Web of Science, year of publication: **Q2**; IF **2.076** / AIS **0.428**;

9. **Tozar, T**; Smarandache, A; Staicu, A; Pascu, ML; Pirvulescu, RA; "Laser modified phenothiazines and hydantoin: photo-products characterisation and application on animal eyes pseudo-tumours", *LETTERS IN DRUG DESIGN & DISCOVERY*, 15:687-697 (2018) – *review*. Rank according to Web of Science, year of publication: **Q4**; IF **0.953** / AIS **0.114**;

10. **Alexandru, T**; Staicu, A.; Pascu, A.; Dinache, A.; ben Abdeladhim, A; Enescu, K; Khatyr, A; Pascu, M.L; "Light cleavage of some potential linkers for drug carriers"; *ROMANIAN REPORTS IN PHYSICS*, 68(2) (2016). Rank according to Web of Science, year of publication: **Q2**; IF **1.467** / AIS **0.242**;

11. **Alexandru, T**; Staicu, A.; Pascu, A; Radu, E; Stoicu, A; Nastasa, V; Dinache, A; Boni, M; Amaral, L; Pascu, M. L.; "Characterization of mixtures of compounds produced in Chlorpromazine aqueous solutions by UV laser irradiation: their applications in antimicrobial assays"; *JOURNAL OF BIOMEDICAL OPTICS*, 20(5): 051002-1 - 051002-11 (2015). Rank according to Web of Science, year of publication: **Q1**; IF **2.556** / AIS **0.698** ;

12. **Tozar, T**; Stoicu, A; Radu, E; Pascu, ML; "Evaluation of thin layer chromatography image analysis method for irradiated chlorpromazine quantification"; *ROMANIAN REPORTS IN PHYSICS*, 67(4):1608-1615 (2015). Rank according to Web of Science, year of publication: **Q2**; IF **1.367** / AIS **0.184**;

Co-author

1. Á. Simon, A. Smarandache, **T. Tozar**, I.R. Andrei, A. Stoicu, J.J.W.A. van Loon, A. Dowson, M.L. Pascu; Photoactive chlorpromazine and promazine drugs exposed to hypergravity conditions after interaction with UV laser radiation. *ACTA ASTRONAUTICA*; 189: 260-268 (2021). Rank according to Web of Science, year of publication: **Q1**; IF **2.413** / AIS **0.564**;

2. I. Negut, L. Floroian, C. Ristoscu, C. N. Mihailescu, J. C. Mirza Rosca, **T. Tozar**, M. Badea, V. Grumezescu, C. Hapenciuc, I. N. Mihailescu; Functional Bioglass—Biopolymer Double Nanostructure for Natural Antimicrobial Drug Extracts Delivery; *NANOMATERIALS*; 10(2): 385 (2020). Rank according to Web of Science, year of publication: **Q1**; IF **5.076** / AIS **0.759**;

3. F. Andrei, A. Vlad, R. Birjega, **T. Tozar**, M. Secu, I. Urzica, M. Dinescu, R. Zavoianu; "Hybrid layered double hydroxides-curcumin thin films deposited via Matrix Assisted Pulsed Laser Evaporation-MAPLE with photoluminescence properties", *APPLIED SURFACE SCIENCE*, 478:754-761 (2019). Rank according to Web of Science, year of publication: **Q1**; IF **6.182**/ AIS **0.773**;

Tozar (Alexandru) Tatiana

Contact

Address:

30 Reactorului, Magurele, Ilfov,
Romania

Phone:

+40769298041

Email:

tatiana.tozar@eli-np.ro

ResearcherID:

P-3856-2019

ORCID ID:

<http://orcid.org/0000-0002-5953-9241>

BrainMap ID:

U-1700-039G-4122

Publications

4. Dinache, A; Smarandache, A; Simon, A; Nastasa, V; **Tozar, T**; Pascu, A; Enescu, M; Khatyr, A; Sima, F; Pascu, ML; Staicu, A; "Photosensitised cleavage of some olefins as potential linkers to be used in drug delivery"; APPLIED SURFACE SCIENCE, 417: 136-142 (2017). Rank according to Web of Science, year of publication: **Q1**; IF **4.439** / AIS **0.627**;

5. Andrei, IR; **Tozar, T**; Dinache, A; Boni, M; Nastasa, V; Pascu, ML; "Chlorpromazine transformation by exposure to ultraviolet laser beams in droplet and bulk"; EUROPEAN JOURNAL OF PHARMACEUTICAL SCIENCES, 81: 27-35 (2016). Rank according to Web of Science, year of publication: **Q1**; IF **3.756** / AIS **0.804**;

6. Morán, MC; **Tozar, T**; Simon, A; Dinache, A; Smarandache, A; Andrei, IR; Boni, M; Pascu, ML; Cirisano, F; Ferrari, M; "Toxicity study in blood and tumor cells of laser produced medicines for application in fabrics"; COLLOIDS AND SURFACES B: BIOINTERFACES, 137: 91-103 (2016). Rank according to Web of Science, year of publication: **Q1**; IF **3.887** / AIS **0.767**;

7. Dinache, A; Boni, M; **Alexandru, T**; Radu, E; Stoicu, A; Andrei, I.R; Staicu, A; Liggieri, L; Nastasa, V; Pascu, M.L; Ferrari, L; "Surface properties of Vancomycin after interaction with laser beams"; COLLOIDS AND SURFACES A: PHYSICOCHEMICAL AND ENGINEERING ASPECTS, 450: 328-335 (2015). Rank according to Web of Science, year of publication: **Q2**; IF **2.760** / AIS **0.592**;

8. Simon, A; **Alexandru, T**; Boni, M; Damian, V; Stoicu, A; Dutschk, V; Pascu, ML; "Interaction of solutions containing phenothiazines exposed to laser radiation with materials surfaces, in view of biomedical applications", INTERNATIONAL JOURNAL OF PHARMACEUTICS, 475(1-2): 270-281 (2014). Rank according to Web of Science, year of publication: **Q1**; IF **3.65** / AIS **0.778**;

9. Armada, A M; **Alexandru, T**; Machado, D; Danko, B; Hunyadi, A; Dinache, A; Nastasa, V; Boni, M; Ramos, J; Viveiros, M; Molnar, J; Pascu, M L; Amaral, L; "The In Vitro Activity of Products Formed from Exposure of Chlorpromazine to a 266nm LASER Beam Against Species of Mycobacteria of Human Interest", IN VIVO, 27: 605-610 (2013). Rank according to Web of Science, year of publication: **Q4**; IF **1.148** / AIS **0.283**;

10. Pascu, M L; Danko, B; Martins, A; Jedlinszki, N; **Alexandru, T**; Nastasa, V; Boni, M; Militaru, A; Relu Andrei, I; Staicu, A; Hunyadi, A; Fanning, S; Amaral, L; "Exposure of chlorpromazine to 266 nm laser beam generates new species with antibacterial properties: contributions to development of a new process for drug discovery", PLOS ONE, 8(2): e55767-1 - e55767-16 (2013). Rank according to Web of Science, year of publication: **Q1**; IF **3.534** / AIS **1.37**;

Tozar (Alexandru) Tatiana

Contact

Address:

30 Reactorului, Magurele, Ilfov,
Romania

Phone:

+40769298041

Email:

tatiana.tozar@eli-np.ro

ResearcherID:

P-3856-2019

ORCID ID:

<http://orcid.org/0000-0002-5953-9241>

BrainMap ID:

U-1700-039G-4122

Publications

11. Hunyadi, A; Danko, B; Boni, M; Militaru, A; **Alexandru, T**; Nastasa, V; Andrei, I. R.; Pascu M.L.; Amaral L; "Rapid, Laser-Induced Conversion Of 20-Hydroxyecdysone And Its Diacetone – Experimental Set-Up Of A System For Photochemical Transformation Of Bioactive Substances"; *ANTICANCER RESEARCH*, 32(4):1291-7 (2012). Rank according to Web of Science, year of publication: **Q3**; IF **1.713** / AIS **0.437**;

Book chapters

1. Pascu, M.L; Boni, M; **Tozar, T**; Smarandache, A; Stoicu, A; Andrei, I. R.; "Resonant Interaction of Laser Beams with Pendant Droplets", in *Laser Optofluidics in Fighting Multiple Drug Resistance*, M. L. Pascu ed, Bentham Science Publishers-Sharjah, UAE, 987-1-68108-499-2, 184-218 (2017).

2. Staicu, A; Smarandache, A; **Tozar, T**; Stoicu, A; Pirvulescu R; Pascu, M.L., "Interaction of Laser Beams with Medicine Solutions in Bulk", in *Laser Optofluidics in Fighting Multiple Drug Resistance*, M. L. Pascu ed, Bentham Science Publishers-Sharjah, UAE, 987-1-68108-499-2, 250-292 (2017)

3. **Tozar, T**; Stoicu, A; Nastasa, V; Popa, M; Smarandache, A; Costache, M; Chifiriuc, M.C; Pascu, M.L.; "Application of Laser Modified Medicines in Fighting Multiple Drug Resistance Acquired by Microorganisms", in *Laser Optofluidics in Fighting Multiple Drug Resistance*, M. L. Pascu ed, Bentham Science Publishers-Sharjah, UAE, 987-1-68108-499-2, 338-365 (2017)

4. Pirvulescu, R; **Tozar, T**; Stoicu, A; Pascu, M.L.; "Application of Optically Modified Medicines in Fighting Pseudotumours"; in *Laser Optofluidics in Fighting Multiple Drug Resistance*, M. L. Pascu ed, Bentham Science Publishers-Sharjah, UAE, 987-1-68108-499-2, 366-406 (2017)

5. Simon, A; Stoicu, A; **Tozar, T**; Andrei, I. R.; Simion, S; van Loon, J. J. W.A; Dowson, A; Pascu, M.L.; "Microvolumetric Droplets in Air in Hypergravity Conditions"; in *Laser Optofluidics in Fighting Multiple Drug Resistance*, M. L. Pascu ed, Bentham Science Publishers-Sharjah, UAE, 987-1-68108-499-2, 428-448 (2017)

6. Pascu, M. L.; Smarandache, A; **Tozar, T**; Andrei, I. R.; "Spectroscopy of Microdroplets: an Alternative to the Spectroscopy of Bulky Materials", in *Laser Optofluidics in Fighting Multiple Drug Resistance*, M. L. Pascu ed, Bentham Science Publishers-Sharjah, UAE, 987-1-68108-499-2, 471-480 (2017)

7. Pascu, M.L; Militaru, A; Boni, M; Nastasa, V; **Alexandru, T**; Staicu, A; Andrei, I.R.; "Trends in basic research on laser biomedicine", in *Laser Manual Medical technology*, Leonardo Longo, Officina Editoriale Oltrarno, 9788897986133, 1:139-182, 2014.

Tozar (Alexandru) Tatiana

Contact

Address:

30 Reactorului, Magurele, Ilfov,
Romania

Phone:

+40769298041

Email:

tatiana.tozar@eli-np.ro

ResearcherID:

P-3856-2019

ORCID ID:

<http://orcid.org/0000-0002-5953-9241>

BrainMap ID:

U-1700-039G-4122

Awards

1. **Silver medal** at *INVENTICA 2021*, Iasi, Romania, 23-25 June 2021 for the patent "HPTLC densitometry method for the analysis of irradiated thioridazine solutions based on laser-induced fluorescence and fluorescence lifetime characterization", T. Tozar, M. Boni, I.R. Andrei, A. Staicu, M.L. Pascu (Patent application No. A/00120 from 18.03.2021)
2. **Bronze medal** at *13th European Exhibition of Creativity and Innovation*, Iasi, Romania, 20-21 May 2021 for the patent "HPTLC densitometry method for the analysis of irradiated thioridazine solutions based on laser-induced fluorescence and fluorescence lifetime characterization", T. Tozar, M. Boni, I.R. Andrei, A. Staicu, M.L. Pascu (Patent application No. A/00120 from 18.03.2021)
3. **Honorable mention**, "Rada Mihalcea for Young Researchers in Science and Engineering awards", VI edition, Cluj-Napoca City Hall, 2020
4. **3rd best poster presentation**, *Laser Ignition Summer School 2018, 02-06.07.2018, Sibiu, Romania*, T. Tozar, et al. "Picosecond laser in malignant tissue identification"
5. **2nd best oral presentation**, *International Student Conference on Photonics 2014, 23-26.09.2014, Orastie, Romania*; T. Alexandru, et al. "Photodissociation study of non-antibiotic drug by UV laser radiation"
6. **3rd best poster presentation**, *International Student Conference on Photonics 2014, 23-26.09.2014, Orastie, Romania*; T. Alexandru, et al. "Antimicrobial activity of irradiated CPZ against Gram-Negative and Gram-Positive bacteria".

Patents

1. "HPTLC densitometry method for the analysis of irradiated thioridazine solutions based on laser-induced fluorescence and fluorescence lifetime characterization", T. Tozar, M. Boni, I.R. Andrei, A. Staicu, M.L. Pascu (Patent application No. A/00120 from 18.03.2021)

Reviewer

1. International Journal of Molecular Sciences
2. Molecules
3. Plants
4. Member of the commission of experts for the evaluation of the applications from the national contest "Rada Mihalcea for Young Researchers in Science and Engineering awards", 2021 edition, Cluj-Napoca, Romania.

Editor

1. Special Issue Editor: "Spectroscopic Investigations of Novel Pharmaceuticals", Molecules (A. Staicu, A. Smarandache, T. Tozar, A. Dinache)

Tozar (Alexandru) Tatiana

Contact

Address:

30 Reactorului, Magurele, Ilfov,
Romania

Phone:

+40769298041

Email:

tatiana.tozar@eli-np.ro

ResearcherID:

P-3856-2019

ORCID ID:

<http://orcid.org/0000-0002-5953-9241>

BrainMap ID:

U-1700-039G-4122

Conferences

28 (2 invited presentations, 1 invited seminar lecture, 13 oral presentations, 12 poster presentations) as principal author at international conferences, 5 as principal author at national conferences, and more than 50 as co-author at national and international conferences

Invited:

1. T. Tozar, I. R. Andrei, R. Costin, R. Pirvulescu, M. L. Pascu, Laser induced autofluorescence for detection of vocal cord cancer, Laser Florance 2019, 7-9 November 2019, Florence, Italy.
2. T. Tozar, V. Nastasa, M. C. Chifiriuc, M. L. Pascu, Laser methods in fighting MDR acquired by bacteria, ATOM-N 2018 Advanced Topics in Optoelectronics, Microelectronics and Nanotechnologies, Constanta, Romania, 23-26.08.2018.
3. T. Tozar, UV laser irradiation of medicine solutions, a cost-effective and rapid drug development approach in treating infectious diseases, *invited lecture* at Instituto de Higiene e Medicina Tropical, Universidade NOVA de Lisboa, 26.10.2018, Lisbon, Portugal

Oral presentations:

1. T. Tozar; M. Boni; S. Nistorescu; ML. Pascu; A. Staicu; Photodegradation study of Irgacure 2959 during hydrogel formation via 266 nm pulsed laser radiation; OSA Biophotonics Congress: Optics in the Life Sciences, virtual conference, 12–16 April 2021, USA.
2. T. Tozar, M. Boni, A.M Udrea, S.S. Costa, A. Staicu, I.L. Couto, M. Viveiros, Mihail Lucian Pascu, Laser-induced fluorescence coupled with high performance thin layer chromatography applied for the development of new antimicrobials agents, The 42nd Symposium Chromatographic Methods of Investigating Organic Compounds, Szczyrk, Poland, 4-7 June 2019.
3. T. Tozar, V. Nastasa, M. Boni, MC. Chifiriuc, M.L. Pascu, Generation and identification of antimicrobial species from medicines exposed to laser radiation in view of fighting multiple drug resistance acquired by bacteria, ISCP-INDLAS 2018, Alba Iulia, Romania, 3-7.09.2018.
4. T. Tozar, A. Stoicu V. Nastasa, M. Popa, I. R. Andrei, C. M. Chifiriuc, M.L. Pascu (2015), *Generation of photo-products with antimicrobial properties by exposing Phenothiazines to UV laser radiation*, 6th Congress of International PhotoTherapy Association, Nisa, Franta, 9-10 July 2015
5. T. Tozar, A. Stoicu, V. Nastasa, M. Popa, I. R. Andrei, C. M. Chifiriuc, M. L. Pascu, *Spectroscopic and analytical studies of Thioridazine exposed to UV laser radiation and susceptibility of bacteria to the mixture of photo-products assay*, 11 th International Conference "Micro- to Nano-Photonics IV- ROMOPTO 2015", Bucuresti, Romania, 1-4 September 2015
6. T. Alexandru , A. Staicu, A. Pascu, V. Nastasa, E. Radu, A. Stoicu, M. L. Pascu, *Laser photodecomposition of phenothiazine derivative*, INDLAS 2014, 19-23 May 2014, Bran, Romania.
7. T. Alexandru, A. Staicu, A. Pascu, V. Nastasa, E. Radu, A. Stoicu, M. L. Pascu, *Photodissociation study of non-antibiotic drug by UV laser irradiation*, International Student Conference on Photonics (ISCP 2014), 23-26 September 2014, Orastie, Romania.
8. T. Alexandru, V. Nastasa, A. Staicu, M. L. Pascu, *FTIR studies of Phenothiazines exposed to laser beam*, ISCP, 20-24 May 2013, Bran, Romania.

Tozar (Alexandru) Tatiana

Contact

Address:

30 Reactorului, Magurele, Ilfov,
Romania

Phone:

+40769298041

Email:

tatiana.tozar@eli-np.ro

ResearcherID:

P-3856-2019

ORCID ID:

<http://orcid.org/0000-0002-5953-9241>

BrainMap ID:

U-1700-039G-4122

Conferences

9. **T. Alexandru**, A. Armada, V. Nastasa, A. Dinache, E. Radu, A. Stoicu, M.Viveiros, L. Amaral, M. L. Pascu, *UV photoactivated non-antibiotics in fighting multidrug resistance in Gram-negative bacteria*, NABATIVI summer school "Targeting Gram-negative bacteria: from drugs discovery to pre-clinical exploitation", 1-3 July 2013, Milan, Italy.

10. **T. Alexandru**, *Biological evaluation of products formed from the irradiation of chlorpromazine with a 266 nm laser beam*, 7th and final management committee meeting of Cost action BM0701 – ATENS "Antibiotic transport and efflux: new strategies to combat bacterial resistance", 26-27 April 2012, Bucharest, Romania.

11. **T. Alexandru**, M.-L. Pascu, B. Danko, A. A. Martins, N. N. Jedlinszki, V. Nastasa, M. Boni, A. Militaru, I. R. Andrei, A. Staicu, A. Hunyadi, S. Fanning, L. Amaral, *Exposure of chlorpromazine to 266 nm laser beam generates new species with antibacterial properties: the dawn of a new process for drug discovery*, ISCP, 8-11 May 2012, Sinaia, Romania.

12. **T. Alexandru**, M. L. Pascu, A. Armada, B. Danko, V. Nastasa, M. Boni, A. Militaru, I. R. Andrei, A. Staicu, A. Hunyadi, M. Viveiros, L. Amaral, *Activity of irradiated Chlorpromazine with a 266 nm laser beam against efflux pumps system*, Exploratory workshop 2012 "Emerging analytical tools to investigate Nitro-Oxidative stress", 24-26 July, 2012, Bucharest, Romania.

13. **T. Alexandru**, M. L. Pascu, B. Danko, V. Nastasa, M. Boni, A. Militaru, I. R. Andrei, A. Staicu, A. Hunyadi, A. Armada, M. Viveiros, L. Amaral, *Generation and biological evaluation of the products formed from the exposure of Chlorpromazine to a 266 nm laser beam*, Intl. Conference "Micro-to Nano-Photonics III ROMOPTO 2012", 3-6 September, 2012, Bucharest, Romania.

14. **T. Alexandru**, A. Hunyadi, B. Danko, M. Boni, A. Militaru, V. Nastasa, I. R. Andrei, M. L. Pascu, L. Amaral, *Molecular modifications of 20-hydroxyecdysone by exposure to laser beams*, ATOM 23-26 August 2012, Constanta, Romania.

Organizational skills and competences

Coordinator of one international conference and member in the organization committee of 5 international conference and one international contest (Plancks 2016).