

## PERSONAL INFORMATION



**Plamena Atanasova Marinova-Dragozova**

10, "Kliment Ochridski" Bul. , Sofia, 1797, Bulgaria



✉ plamena\_dragozova@ltu.bg

Date of birth 15/09/1988 | Nationality Bulgarian

## POSITION

Chief Assist. Prof.

## WORK EXPERIENCE

09.2021 – TILL NOW

**Chief Assist. Prof.**

University of Forestry, 10, Kliment Ochridski Blvd, 1797, Sofia

Business or sector Higher Education

03.2018 – 09.2021

**Assistant**

University of Forestry, 10, Kliment Ochridski Blvd, 1797, Sofia

Business or sector Higher Education

06.2011 – 03.2018

**IT Tech, Web Site Administrator**

Department for Language Teaching and International Students at Sofia University "St. Kliment Ohridski"

- Administration and maintain of the Web resources, advertisement (online and print)

Business or sector Higher Education

06.2011 - TILL NOW

**Computer science teacher, Physics teacher**

Department for Language Teaching and International Students at Sofia University "St. Kliment Ohridski"

- Teach Computer courses and Physics

Business or sector Higher Education

## EDUCATION AND TRAINING

2014 – 2020

**PhD**

Sofia University "St. Kliment Ohridski", Faculty of Physics

- Plasma Physics and Gas Discharges, Modelling of non-equilibrium plasma

2012 – 2014

**Masters degree**

Sofia University "St. Kliment Ohridski", Faculty of Physics

- Theoretical Investigation of Atmospheric Pressure Surface-Wave-Sustained Argon Plasma Fusion Science and Technology

2007-2011

**Bachelor degree**

Sofia University "St. Kliment Ohridski", Faculty of Physics

- Physics

## 1999-2007 Secondary Education

Secondary school of mathematics "Baba Tonka", Ruse

### PERSONAL SKILLS

MOTHER TONGUE(S) Bulgarian

### OTHER LANGUAGE(S)

	UNDERSTANDING		SPEAKING		WRITING
	LISTENING	READING	SPOKEN INTERACTION	SPOKEN PRODUCTION	
English	C1	C1	C1	C1	C1

### COMMUNICATION SKILLS

- good communication skills gained through my experience as a teacher at the Department for Language Teaching and International Students

### ORGANISATIONAL / MANAGERIAL SKILLS

- Experience as Local Organizing committee of:
- 5th, 6th, 7th International workshop and summer school on plasma physics 2012,2014,2016 Kiten, Bulgaria;
  - 12th International Conference on Global Research and Education, inter-Academia 2013;
  - 11th International Workshop on Electric Probes in Magnetized Plasmas (IWEP2015)

### COMPUTER SKILLS

- Excellent computer literacy (Windows, Word, Excel, Internet)
- Programing – modeling and simulations (Matlab, Fortran, C++ and other)
- Web design (HTML, CSS, CMS)
- Prepress and Design (InDesign, Photoshop)

### FIELD OF RESEARCH (KEY WORDS):

Theoretical Modelling and simulations, Low Temperature Plasma, Optic and Spectroscopic Investigations, Bio-medical Applications of Plasma

### KEY PUBLICATIONS

- Marinova P**, Benova E, Topalova Y, Todorova Y, Bogdanov T, Zhekova M, Yotinov I, Krcma F. Effects of Surface-Wave-Sustained Argon Plasma Torch Interaction with Liquids. *Processes*. 2023; 11(12):3313. <https://doi.org/10.3390/pr11123313>
- Bozhanova, V.; **Marinova, P.**; Videva, M.; Nedjalkova, S.; Benova, E. Effect of Cold Plasma on the Germination and Seedling Growth of Durum Wheat Genotypes. *Processes* **2024**, *12*, 544. <https://doi.org/10.3390/pr12030544>
- Bogdanov T, **Marinova P**, Traikov L, Gateva P, Sedloev T, Petrov A, Vodenicharov V, Georgiev R, Bakalov D, Sabit Z, et al. The Effect of Low-Temperature Microwave Plasma on Wound Regeneration in Diabetic Rats. *Processes*. 2023; 11(12):3399. <https://doi.org/10.3390/pr11123399>
- Nedyalkova, S., Bozhanova, V., Benova, E., **Marinova, P.**, Tsonev, I., Bogdanov, T. & Koleva, M. (2019). Study on the Effect of Cold Plasma on the Germination and Growth of Durum Wheat Seeds Contaminated with Fusarium Graminearum . *International Journal of Innovative Approaches in Agricultural Research*, 3(4), 623-635. doi: 10.29329/ijiaar.2019.217.8
- Ilknur Ucak, Maliha Afreen, Evgenia Benova, **Plamena Marinova**, Todor Bogdanov, Maria Turtoi, Livia Patraşcu & Iuliana Aprodu. (2022). Electro – Technologies. In: Režek Jambrak, A. (eds) *Nonthermal Processing in Agri-Food-Bio Sciences. Food Engineering Series. Springer*, Cham. [https://doi.org/10.1007/978-3-030-92415-7\\_4](https://doi.org/10.1007/978-3-030-92415-7_4)  
Part of the Food Engineering Series book series (FSES)

6. Todorova, Y.; Benova, E.; **Marinova, P.**; Yotinov, I.; Bogdanov, T.; Topalova, Y. Non-Thermal Atmospheric Plasma for Microbial Decontamination and Removal of Hazardous Chemicals: An Overview in the Circular Economy Context with Data for Test Applications of Microwave Plasma Torch. *Processes* 2022, *10*, 554. <https://doi.org/10.3390/pr10030554>
7. Benova, E.; **Marinova, P.**; Tafradjiiska-Hadjiolova, R.; Sabit, Z.; Bakalov, D.; Valchev, N.; Traikov, L.; Hikov, T.; Tsonev, I.; Bogdanov, T. Characteristics of 2.45 GHz Surface-Wave-Sustained Argon Discharge for Bio-Medical Applications. *Appl. Sci.* 2022, *12*, 969. <https://doi.org/10.3390/app12030969>
8. Milusheva, S., Nacheva, L., Benova, E., **Marinova, P.**, Dimitrova, N. & Georgieva-hristeva, A. (2020). Experiments on Plum pox virus inactivation from micropropagated plum plants through non-thermal plasma treatment. *Plant Protection Bulletin*, 60 (2), 83-90. DOI: 10.16955/bitkorb.653564
9. Evgenia Benova, Mariana Atanasova, Todor Bogdanov, **Plamena Marinova**, Frantisek Krcma, Vera Mazankova, Lukas Dostal, Microwave plasma torch at water surface, *Plasma Medicine* 6(1): 59–65 (2016), DOI: 10.1615/PlasmaMed.2016015862
10. Evgenia Benova, Plamena Marinova, Mariana Atanasova and Tzvetelina Petrova, Surface-wave-sustained argon plasma kinetics from intermediate to atmospheric pressure, *J. Phys. D: Appl. Phys.* 51 (2018) 474004 (14pp), <https://doi.org/10.1088/1361-6463/aae34d>
11. Todor Bogdanov, Ivan Tsonev, **Plamena Marinova**, Evgenia Benova, Krasimir Rusanov, Mila Rusanova, Ivan Atanasov, Zdenka Kozáková and František Krcma, *Microwave Plasma Torch Generated in Argon for Small Berries Surface Treatment*, *Appl. Sci.* **8** (2018) 1870, doi:10.3390/app8101870
12. Todorova Y., I. Yotinov, Y. Topalova, E. Benova, **P. Marinova**, I. Tsonev, T. Bogdanov, *Evaluation of the effect of cold atmospheric plasma on oxygenases' activities for application in water treatment technologies*, *Environmental Technology* (2019), doi:10.1080/09593330.2018.1491631
13. František Krčma, Ivan Tsonev, Kateřina Smejkalová, Darina Truchlá, Zdenka Kozáková, Maya Zhekova, **Plamena Marinova**, Todor Bogdanov, Evgenia Benova, *Microwave micro torch generated in argon based mixtures for biomedical applications*, *J. Phys. D: Appl. Phys.* (2018) (23pp), <https://doi.org/10.1088/1361-6463/aad82b>
14. **P. Marinova**, E Benova, Y Todorova, Y Topalova, I Yotinov, M Atanasova and F Krcma Surface-wave-sustained plasma torch for water treatment, *Journal of Physics: Conf. Series* **982** (2018) 012009
15. Todorova Y, Yotinov I, Topalova Y, **Marinova P**, Benova E, Atanasova M, Bogdanov T, Innovative sterilization technology-bacterial inactivation by cold argon plasma, in *BioDiscovery* 20: e21977, 2017
16. T. Bogdanov, I. Tsonev, M. Atanasova, **P. Marinova**, Y. Topalova, Y. Todorova, I. Yotinov, E. Benova *Surface-wave-sustained plasma source for biomedical applications* in *MICROWAVE DISCHARGES: Fundamental and Applications*, edited by Yu. Lebedev; (Yanus-K Moscow, 2018)
17. E. Benova, **P. Marinova**, T. Bogdanov, I. Tsonev, F. Krčma, Y. Topalova, Y. Todorova, I. Yotinov *Interaction of microwave plasma torch sustained by travelling electromagnetic wave with liquids* in *MICROWAVE DISCHARGES: Fundamental and Applications*, edited by Yu. Lebedev; (Yanus-K Moscow, 2018)

## RESEARCH PROJECTS AND NETWORKS:

COST Action CA19110 **Plasma applications for smart and sustainable agriculture** – PIAgri

Project BG05M2OP001-1.002-0019: „**Clean technologies for sustainable environment – waters, waste, energy for circular economy**“ (Clean&Circle) for creation and development of a Centre of Competence“, is financed by the Operational programme “Science and Education for Smart Growth”2014-2020, co-financed by the European union through the European structural and investment funds.

**PROMISCES „Preventing Recalcitrant Organic Mobile Industrial chemicalS for Circular Economy in the Soil-sediment-water system”**  
Call: H2020-LC-GD-2020-3 Topic: LC-GD-8-1-2020 - Innovative, systemic zero-pollution solutions to protect health, environment, and natural resources from persistent and mobile chemicals