

# CURRICULUM VITAE

Viktoriya Atanasova (Victoria Atanassova)



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September 8th, 1987

## EDUCATION:

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- 2012 – 2017: Ph.D.  
Institute of Solid State Physics, Metal Vapour Lasers Lab., Bulgarian Academy of Sciences  
Title of PhD thesis: „Copper bromide vapour laser application for restoration of cultural heritage monuments”
- 2010 – 2012: M.S.  
Faculty of Physics, Quantum Electronics Dept., Sofia University “St. Kliment Ohridski”
- 2006 – 2010: B.S.  
Faculty of Physics, Sofia University “St. Kliment Ohridski”

## WORK EXPERIENCE:

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- Jan. 2019 – present: Assistant researcher,  
Advanced Methods and Techniques for Artwork Restoration & Conservation Dept.,  
National Institute for Research and Development in Optoelectronics INOE 2000,  
Atomistilor str. no. 409, Magurele city, Ilfov County, Romania
- Sept. 2011: Junior researcher,  
Metal Vapour Lasers Lab.,  
Institute of Solid State Physics, Bulgarian Academy of Sciences,  
72 Tzarigradsko Chaussee, Blvd., 1784 Sofia, Bulgaria

## PERSONAL SKILLS:

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Mother tongue: Bulgarian  
Other languages: English – fluent  
Spanish – basic  
Romanian – beginners

## PUBLICATIONS:

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### Publications with IF or SJR

1. Victoria Atanassova, Ivan Kostadinov, Margarita Grozeva. *Laser Cleaning of Different Surfaces by Copper Bromide Vapour Laser: Application for Cultural Heritage Preservation*. **Comptes Rendus de L'Academie Bulgare des Sciences**, 70, 8, 2017, ISSN:2367–5535, SJR:0.207, ISI IF:0.38 Q4 (Web of Science).
2. Victoria Atanassova, Ivan Kostadinov, Peter Zahariev, Margarita Grozeva, Ilko Miloushev. *Laser Cleaning of Graffiti on Stone*. **Proceedings of SPIE**, 10226, 19<sup>th</sup> International Conference and School on Quantum Electronics: Laser Physics and Applications, 2017, DOI:10.1117/12.2262668, SJR:0.216 SJR, not falling into Q category (Web of Science).
3. Victoria Atanassova, Ivan Kostadinov, Petya Penkova. *Selective laser cleaning of corroded metal objects*. **AIP Conference Proceedings**, 2019, DOI:<https://doi.org/10.1063/1.5091160>, SJR (Scopus):0.182, JCR-IF (Web of Science):0.001 SJR, not falling into Q category.
4. Victoria Atanassova, Petya Penkova, Ivan Kostadinov, Stefan Karatodorov, Georgi V. Avdeev. *Laser removal of chlorine from historical metallic objects*. **Proceedings of SPIE**, 11047, 20<sup>th</sup> International Conference and School on Quantum Electronics: Laser Physics and Applications, 2019, DOI:10.1117/12.2516813, SJR (Scopus):0.234 SJR, not falling into Q category (Scopus).
5. Victoria Atanassova and Gabriela Roxana Dascalu. *Aspects of Laser Cleaning Efficiency for Contemporary Artworks Restoration*. **University Politehnica of Bucharest Scientific Bulletin-Series A-Applied Mathematics and Physics** 82.2 (2020): 231-240, SJR:0.254, ISI IF:0.478

### Other publications

6. V. Atanassova, K. Dimitrov, M. Grozeva, M. Similianu, R. Radvan. *Copper bromide laser in cultural heritage monuments restoration*. **Proceedings of the Third Balkan Symposium on Archaeometry. The Unknown Face of the Artwork**, 2012, ISBN:978-605-4233-94-6.
7. Victoria Atanassova, Georgi Yankov, Peter Zahariev. *Laser-Induced Fluorescence Spectroscopy - an Archaeometric Approach*. **Bulgarian e-Journal of Archaeology**, Supplementum 3, Association of Bulgarian Archaeologists and National Institute of Archaeology with Museum - BAS, 2014, ISBN:978-619-90156-2-9, 65-74.

8. Victoria Atanassova, Margarita Grozeva, Krasimir Dimitrov. *Laser cleaning in conservation - principles and possibilities*. **Bulgarian e-Journal of Archaeology**, Supplementum 3, Association of Bulgarian Archaeologists and National Institute of Archaeology with Museum - BAS, 2014, ISBN:978-619-90156-2-9, 75-84.
9. Victoria Atanassova, Stefan Karatodorov, Georgi Yankov, Peter Zahariev, Elitsa Tsvetkova. *Laser-Induced Fluorescence Spectroscopy - a Contemporary Approach to Cultural Heritage*. **Advances in Bulgarian Science**, National Centre for Information and Documentation, 2014, ISSN:1312-6164, 5-10.
10. Victoria Atanassova, Ivan Kostadinov, Georgi Yankov, Peter Zahariev, Margarita Grozeva, *Laser treatment of contaminations on paper: a preliminary study*, **Proceedings of APLAR 6**, 14 – 16 September 2017, Florence, Italy, accepted for publication in October 2017.
11. Victoria Atanassova. *Laser Cleaning of Graffiti Spray Paints on Marble, Limestone and Granite*. Chapter in: *Graffiti: Vandalism, Street Art and Cultural Significance*, **Nova Publishers, Inc.**, 2018, ISBN:978-1-53613-499-5, 27, 117-143.
12. Victoria Atanassova, Margarita Grozeva, Ivan Kostadinov, Peter Zahariev. *Laser-Assisted Removal of Graffiti Paint on Stone: Potential Use in the Restoration of Cultural Heritage Monuments*. *Bridging Science and Heritage in the Balkans: Studies in archaeometry, cultural heritage restoration and conservation*, **Archaeopress Publishing Ltd**, 2019, ISBN:978-1-78969-197-9, 131-139.

## PROJECTS:

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### Leader:

1. Research project funded by the Program for career development of young scientists in the Bulgarian Academy of Sciences – 2016, “Laser cleaning as a method of restoration of cultural heritage”, 2016 – 2017.
2. Research project funded by the Program for career development of young scientists in the Bulgarian Academy of Sciences – 2017, “Laser removal of chlorine-containing corrosion products from metallic objects of cultural-historical value”, 2017 – 2019

### Member of scientific team:

1. Research project funded by the National Science Fund on “Laser diagnostic methods in archeology”, 2008 – 2012.
2. Joint Bulgarian-Romanian research project funded by the National Science Fund on “Standardization of laser techniques to study and restoration of Cultural Heritage”, 2010 – 2012.
3. Youth research project funded by the National Science Fund on “Laser-induced fluorescence analysis for study and conservation of Cultural Heritage”, 2012 – 2014.

4. Research project funded by internal budget on “Laser-induced plasma spectroscopy (LIBS) for elemental analysis in liquids”, 2012 – 2013.
5. Research project funded by internal budget on “Laboratory scan set-up for laser cleaning”, 2013 – 2014.
6. INERA REGPOT-2012-2013-1 NMP, EU FP7, Research and Innovation Capacity Strengthening of ISSP-BAS in Multifunctional Nanostructures, 2013 – 2016.
7. Research project funded by the National Science Fund on “Laser induced fabrication of three dimensional nanoparticle structures and study of their optical properties”, 2017 – 2019.
8. Joint Bulgarian-Romanian research project "Laser ablation applications in Heritage Science on traditional materials", 2020 – 2023.

### **SPECIALIZATION ABROAD:**

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1. Institute of Electronic Structure and Laser – FORTH, Photonics for Cultural Heritage group – one month training on *Laser cleaning of stonework using various wavelengths*, June 2014, Crete, Greece.

### **HONOURS AND AWARDS:**

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- Award for an excellently reported first stage of the project "Laser cleaning as a method of restoration of cultural heritage", Program for career development of young scientists in the Bulgarian Academy of Sciences – 2016
- Diploma from the Union of Scientists in Bulgaria for scientific achievements in a Ph.D. thesis, 2018
- Elsevier Young Researchers Award nomination 2019 - Bulgaria