

# Lista de lucrări

## Doctorand Cristina POSTOLACHI

### 1. Articole științifice publicate in extenso în reviste cotate Web of Science cu factor de impact

1. I. Cocean, A. Cocean, **C. Postolachi**, V. Pohoata, N. Cimpoesu, G. Bulai, F. Iacomi, S. Gurlui, Alpha keratin amino acids behavior under high fluence laser interaction. Medical applications, Applied Surface Science 488 (2019) 418–426, DOI: 10.1016/j.apsusc.2019.05.207 [IF = **6.182**; AIS = **0.772**]

2. A. Cocean, I. Cocean, N. Cimpoesu, G. Cocean, R. Cimpoesu, **C. Postolachi**, V. Popescu and S. Gurlui, Laser Induced Method to Produce Curcuminoid-Silanol Thin Films for Transdermal Patches Using Irradiation of Turmeric Target, Appl. Sci. 2021, 11(9), 4030. <https://doi.org/10.3390/app11094030> [IF= **2.838** (2021); AIS=**0.409**(2021)]

3. Alexandru Cocean, Iuliana Cocean, Georgiana Cocean, **Cristina Postolachi**, Daniela Angelica Pricop, Bogdanel Silvestru Munteanu, Nicanor Cimpoesu and Silviu Gurlui, Study of Physico-Chemical Interactions during the Production of Silver Citrate Nanocomposites with Hemp Fiber, Nanomaterials 2021, 11, 2560. <https://doi.org/10.3390/nano11102560> [IF=**5.719** (2021); AIS = **0,737** (2021)]

4. Alexandru Cocean, **Cristina Postolachi**, Georgiana Cocean, Georgiana Bulai, Bogdanel Silvestru Munteanu, Nicanor Cimpoesu, Iuliana Cocean and Silviu Gurlui, The Origin and Physico-Chemical Properties of Some Unusual Earth Rock Fragments, Appl. Sci. 2022, 12, 983. <https://doi.org/10.3390/app12030983> [IF= **2.838**; AIS=**0.409**]

5. Silvia Garofalide, **Cristina Postolachi**, Alexandru Cocean, Georgiana Cocean, Iuliana Motrescu, Iuliana Cocean, Bogdanel Silvestru Munteanu, Marius Prelipceanu, Silviu Gurlui and Liviu Leontie, Saharan Dust Storm Aerosol Characterization of the Event (9 to 13 May 2020) over European AERONET Sites, Atmosphere 2022, 13, 493. <https://doi.org/10.3390/atmos13030493> [IF=**3.110** (2021); AIS=**0.626** (2021)]

6. Georgiana Cocean, Alexandru Cocean, **Cristina Postolachi**, Silvia Garofalide, Georgiana Bulai, Bogdanel Silvestru Munteanu, Nicanor Cimpoesu, Iuliana Cocean and Silviu Gurlui, High-Power Laser Deposition of Chitosan Polymers: Medical and Environmental Applications. Polymers 2022, 14, 1537. <https://doi.org/10.3390/polym14081537> [IF=**4.967** (2021); AIS=**0.611** (2021)]

### 2. Articole științifice publicate in extenso în reviste fără factor de impact

1. A Cocean, I Cocean, **C Postolachi**, D Pricop, F Husanu and S Gurlui, Laser Induced Dyeing (LID) with Reactive Blue 21 on Hemp Fibers, IOP Conf. Series: Materials Science and Engineering 877 (2020) 012022, doi:10.1088/1757-899X/877/1/012022
2. A Cocean, I Cocean, **C Postolachi**, N Cimpoesu, F Husanu, B Munteanu and S Gurlui, Copper Sulfate Pentahydrate Target Behavior During Pulsed Laser Deposition to Produce Dichroic Coatings for Beam Splitters, IOP Conf. Series: Materials Science and Engineering 877 (2020) 012005, doi:10.1088/1757-899X/877/1/012005
3. I Cocean, M Diaconu, A Cocean, **C Postolachi** and S Gurlui, Landfill Waste Fire Effects Over Town Areas Under Rainwaters, IOP Conf. Series: Materials Science and Engineering 877 (2020) 012048, doi:10.1088/1757-899X/877/1/012048

### 3. Conferințe

1. A Cocean, I Cocean, **C Postolachi**, N Cimpoesu, F Husanu, B Munteanu and S Gurlui, Copper sulfate pentahydrate target behavior during pulsed laser deposition to produce dichroic coatings for beam splitters, International Conference on Innovative Research, May 21st to 22nd, 2020, Iași, Romania - Oral presentation Alexandru Cocean
2. I Cocean, M Diaconu, A Cocean, **C Postolachi** and S Gurlui, Landfill waste fire effects over town areas under rainwaters, International Conference on Innovative Research, May 21st to 22nd, 2020, Iași, Romania - Oral presentation Iuliana Cocean
3. A Cocean, I Cocean, **C Postolachi**, D Pricop, F Husanu and S Gurlui, Laser induced dyeing (LID) with Reactive Blue 21 on hemp fibers, International Conference on Innovative Research, May 21st to 22nd, 2020, Iași, Romania - Oral presentation Iuliana Cocean
4. Alexandru Cocean, Dorin Botoc, Monica Siroux, **Cristina Postolachi**, Iuliana Cocean, Silviu Gurlui, AMC-COMSOL: the new finite element technique to increase solar cell conversion, The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications AdvPhotoCat-EE 2021, <https://photocatalysis-workshop.eu/> Poster presentation Alexandru Cocean
5. **Cristina POSTOLACHI**, Mirela SUCHEA, Ioan-Valentin TUDOSE, Alexandru COCEAN, Iuliana COCEAN, Bogdanel Silvestru MUNTEANU, Nicanor CIMPOESU and Silviu GURLUI, CdSe Quantum Dots insertion effect on the alpha-keratin PLD-thin films, The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications AdvPhotoCat-EE 2021, <https://photocatalysis-workshop.eu/> **Poster presentation Cristina Postolachi**
6. Daniela Angelica PRICOP, Alexandru COCEAN, Florin BRANZA, **Cristina POSTOLACHI**, Iuliana COCEAN, Adina COROABA, Dorina Emilia CREANGA, Felicia IACOMI, Silviu GURLUI, Chemical processes induced by light on the AuNP-citrate surface, The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy

Applications AdvPhotoCat-EE 2021, <https://photocatalysis-workshop.eu/> Poster presentation Daniela Angelica PRICOP

7. Iuliana COCEAN, Alexandru COCEAN, **Cristina POSTOLACHI**, Bogdanel Silvestru MUNTEANU, Nicanor CIMPOESU and Silviu GURLUI, High pulsed-laser effect on the hemp composite - advanced materials, The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications AdvPhotoCat-EE 2021, <https://photocatalysis-workshop.eu/> Poster presentation Iuliana COCEAN

8. Alexandru COCEAN, Iuliana COCEAN, **Cristina POSTOLACHI**, Georgiana COCEAN and Silviu GURLUI, Laser induced chitin deacetylation- cutting-edge technology for "natural biological waste", The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications AdvPhotoCat-EE 2021, <https://photocatalysis-workshop.eu/> Poster presentation Alexandru Cocean

9. Alexandru Cocean, Iuliana Cocean, Georgiana Bulai, **Cristina Postolachi**, Bogdan Munteanu, Nicanor Cimpoesu, Silviu Gurlui, Trace elements Photo-Analysis for environmental applications: a case study, The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications AdvPhotoCat-EE 2021, <https://photocatalysis-workshop.eu/> Invited Speaker Silviu Gurlui

10. Alexandru Cocean, **Cristina Postolachi**, Iuliana Cocean, Silviu Gurlui, Quantum Dots Pulsed Laser Deposition – a new simulation technique, The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications AdvPhotoCat-EE 2021, <https://photocatalysis-workshop.eu/> Poster presentation Alexandru Cocean

11. Vasile PELIN, Alexandru COCEAN, **Cristina POSTOLACHI**, Silvia GAROFALIDE, Francisca HUSANU, Iuliana COCEAN and Silviu GURLUI, Photochemical effects on heritage asset because environmental stress, The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications AdvPhotoCat-EE 2021, <https://photocatalysis-workshop.eu/> Poster presentation Vasile PELIN

12. Iuliana COCEAN, Daniela Angelica PRICOP, Alexandru COCEAN, Francisca HUSANU, Nicanor CIMPOESU, Bogdanel MUNTEANU, Maria DIACONU, **Cristina POSTOLACHI** and Silviu GURLUI, Huge ice lump fell from the atmosphere: effect of complex cumulative pollution phenomenon, The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications AdvPhotoCat-EE 2021, <https://photocatalysis-workshop.eu/> Poster presentation Silviu GURLUI

13. Iuliana COCEAN, Maria DIACONU, Alexandru COCEAN, **Cristina POSTOLACHI** and Silviu GURLUI, Photo-degradation of some landfill contaminants on the surrounding waters, The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications AdvPhotoCat-EE 2021, <https://photocatalysis-workshop.eu/> Poster presentation Iuliana COCEAN

14. Iuliana COCEAN, Maria DIACONU, Silvia GAROFALIDE, Alexandru COCEAN, **Cristina POSTOLACHI**, Vasile PELIN and Silviu GURLUI, Washing municipal streets – the origin of some photo-contaminants pollution, The 3rd International Workshop Advances on Photocatalysis including Environmental and Energy Applications AdvPhotoCat-EE 2021,

<https://photocatalysis-workshop.eu/> Oral presentation Iuliana COCEAN

15. Alexandru COCEAN, **Cristina POSTOLACHI**, Silvia GAROFALIDE, Diana PATA, Maria DIACONU, Francisca HUSANU, Georgiana BULAI, Bogdan MUNTEANU, Nicanor CIMPOESU, Dan- Gheorghe DIMITRIU, Iuliana COCEAN, Silviu GURLUI, Dual-pulse ns-laser-induced Raman and breakdown spectroscopy to enhance performance on atoms and molecular detection

16. Alexandru COCEAN, Iuliana COCEAN, Georgiana COCEAN, **Cristina POSTOLACHI**, Bogdanel Silvestru MUNTEANU, Nicanor CIMPOESU and Silviu GURLUI, Keratin-based polymer nanofilm membranes for medical applications

17. Cristina POSTOLACHI, Alexandru COCEAN, Iuliana COCEAN, Georgiana COCEAN, Bogdanel Silvestru MUNTEANU, Nicanor CIMPOESU, and Silviu GURLUI, Study of Si/SiO<sub>2</sub> core/shell Quantum Dots produced by Pulsed Laser Deposition. – **Oral Presentation Cristina Postolachi**

18. **C. Postolachi**, M. Suche, I.-V. Tudose, A. Cocean, G. Cocean, B.S. Munteanu, N. Cimpoesu, G. Bulai, I. Cocean, S. Gurlu, "Study of the Behavior of CdSe Nanoparticles in Hexane Suspension at the Interaction with the Thin Layer of Keratin Deposited on the Glass", "XXV Galyna Puchkovska International School-Seminar", 21-24 Septembrie 2021 – **Oral presentation Cristina Postolachi**

19. Alexandru Cocean, Silvia Garofalide, Vasile Pelin, Georgiana Cocean, **Cristina Postolachi**, Iuliana Motrescu, Liviu Leontie, Iuliana Cocean and Silviu Gurlui, Study of the efficiency of solar cells in polluted environments advanced analysis techniques in vivo and in the laborayory, through COMSOL type simulation, 14<sup>th</sup> International Conference on Physics of Advanced Materials (ICPAM-14), September 8 – 15, 2022, in Dubrovnik, Croatia.