

Lista de lucrări

Dr. Alexandru Cocean

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

1. **A. Cocean**, V. Pelin, M. M. Cazacua,, I. Cocean, I. Sandu, S. Gurlui, F. Iacomi, Thermal effects induced by laser ablation in non-homogeneous limestone covered by an impurity layer, Appl. Surf. Sci. (2017), <http://dx.doi.org/10.1016/j.apsusc.2017.03.172> [IF = 4.439; AIS = 0.627]
2. **A. Cocean**, I. Cocean, S. Gurlui, F. Iacomi, Study of the pulsed laser deposition phenomena by means of Comsol Multiphysics, U.P.B. Sci. Bull., Series A, (Vol. 79, Iss. 2, 2017) ISSN 1223-7027, [IF = 0.461; AIS = 0.094]
3. **A. Cocean**, I. Cocean, M.M. Cazacu, G. Bulai, F.Iacomi, S. Gurlui, Atmosphere self-cleaning under humidity conditions and influence of the snowflakes and artificial light, Applied Surface Science 443 (2018) 83–90, DOI: 10.1016/j.apsusc.2018.02.156 [IF = 5.155; AIS = 0.671]
4. I. Cocean, **A. Cocean**, F. Iacomi, S. Gurlui, City water pollution by soot-surface-active agents revealed by FTIR spectroscopy, Applied Surface Science, <https://doi.org/10.1016/j.apsusc.2019.04.179> [IF = 6.182; AIS = 0.772]
5. 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 2019, DOI: 10.1016/j.apsusc.2019.05.207 [IF = 6.182; AIS = 0.772]
6. V. Popescu, D. G. Astanei, R. Burlica, A. Popescu, C. Munteanu, F. Ciolacu, M. Ursache, L. Ciobanu, **A. Cocean**, Sustainable and cleaner microwave-assisted dyeing process for obtaining ecofriendly and fluorescent acrylic knitted fabrics, Journal of Cleaner Production (2019), doi: <https://doi.org/10.1016/j.jclepro.2019.05.281> [IF = 7.246; AIS = 0.969]

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

7. **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

8. **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

9. 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 [IF = 0.53 (2018)]

10. S Garofalide, M Diaconu, I Cocean, **A Cocean**, V Pelin, S Gurlui and L Leontie, Study of Physico-Chemical Characteristics of Some Major Urban Air Pollutants, IOP Conf. Series: Materials Science and Engineering 877 (2020) 012049, doi:10.1088/1757-899X/877/1/012049

3. Conferințe

1. **A. Cocean**, V. Pelin, M. M. Cazacu, S. Gurlui, F. Iacomi, Thermal doping effect on the limestone under laser irradiation, 11th International Conference On Physics Of Advanced Materials (ICPAM-11), Babes-Bolyai University of Cluj-Napoca, Romania, from 8th to 14th of September, 2016 – ***Oral presentation Alexandru Cocean***
2. **A. Cocean**, S. Gurlui, F. Iacomi, Dual-Pulsed Laser Induced Non-Linear Thermal Effects, 11th International Conference On Physics Of Advanced Materials (ICPAM-11), Babes-Bolyai University of Cluj-Napoca, Romania, from 8th to 14th of September, 2016 – ***Poster presentation Alexandru Cocean***
3. **A. Cocean**, I. Cocean, M. M. Cazacu, V. Pohoăță, D. Pricop, S. Gurlui, F. Iacomi, Effects of silver interaction with light over textile dyestuffs chromophore groups in the

- reaction with hemp fabrics, International Photocatalysis Workshop AdvPhotoCat-E2017, Heraklion, Greece. 14-16 July 2017 – ***Poster Presentation Alexandru Cocean***
4. I. Cocean, **A. Cocean**, M. M. Cazacu, V. Pohoată, D. Pricop, D. Țîmpu, S. Gurlui, F. Iacomi, Dyeing process for recovery of textile reactive dyestuffs from wastewaters using photocatalytic ability of garnet and turquoise gemstones, International Photocatalysis Workshop AdvPhotoCat-E2017, Heraklion, Greece. 14-16 July 2017 – *Oral presentation Iuliana Cocean*
 5. I. Cocean, **A. Cocean**, L. Cojocaru, V. Pohoata, N. Cimpoesu, G. Bulai, F. Iacomi, S. Gurlui, Study of horn and wool keratin and shell chitosan PLD, film properties and its effects on hemp fabrics, International Conference On Physics Of Advanced Materials (ICPAM-12), Technological Educational Institute of Crete, Heraklion, Greece, from 22nd of September to 28th of September, 2018 – *Poster presentation Iuliana Cocean*
 6. I. Cocean, **A. Cocean**, V. Pohoata, L. Cojocaru, F. Husanu, S. Gurlui, F. Iacomi, Effect of soot – surface-active agents composites on air and water pollution, International Conference On Physics Of Advanced Materials (ICPAM-12), Technological Educational Institute of Crete, Heraklion, Greece, from 22nd of September to 28th of September, 2018 - *Oral presentation Iuliana Cocean*
 7. **A. Cocean**, I. Cocean, L. Cojocaru, N. Cimpoesu, G. Bulai, F. Iacomi, S. Gurlui, Damage threshold of special mirrors obtained by pulsed laser deposition under high fluence irradiation. Experimental and theoretical overview in COMSOL, International Conference On Physics Of Advanced Materials (ICPAM-12), Technological Educational Institute of Crete, Heraklion, Greece, from 22nd of September to 28th of September, 2018 – oral presentation – ***Oral presentation Alexandru Cocean***
 8. **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, Iși, Romania - ***Oral presentation Alexandru Cocean***
 9. 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, Iși, Romania - *Oral presentation Iuliana Cocean*
 10. **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, Iși, Romania - *Oral presentation Iuliana Cocean*

11. S Garofalide, M Diaconu, I Cocean, A Cocean, V Pelin, S Gurlui and L Leontie, Study of physico-chemical characteristics of some major urban air pollutants, International Conference on Innovative Research, May 21st to 22nd, 2020, Iși, Romania - *Poster presentation Silvia Garofalide*

4. Membru în proiecte de cercetare

1. SATY: Satellite hybrid micro-thrusters, Romanian Space Agency (ROSA), 2017-2018/370.000 EURO (Project Manager, Assoc. Prof. Habil. PhD Silviu Octavian GURLUI), Position: Research Assistant/Asistent de cercetare științifică (ACS)
2. AiRFRAME: Aerosol properties retrieval from remote sensing spectroscopic measurements (partner UAIC), (ROSA), 2017-2018/45.000 EURO (Project Manager, Assoc. Prof. Habil. PhD Silviu Octavian GURLUI), Position: Research Assistant/ Asistent de cercetare științifică (ACS)