Molecular Plasma Group

Surface treatments and functionalizations

MPG offers a unique technology to transform the surface properties in Life Science and Medical applications.

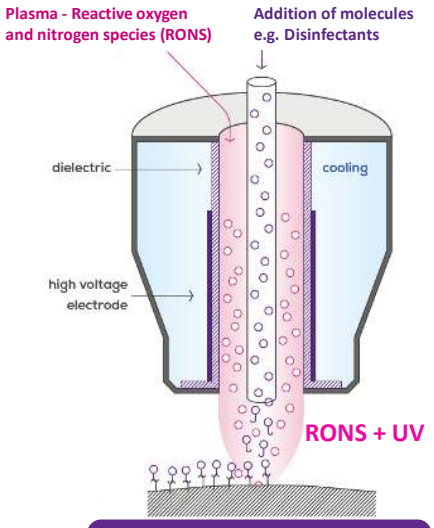
→ STERILIZING USED FACE MASKS to avoid shortage, a situation highly dangerous in the present context

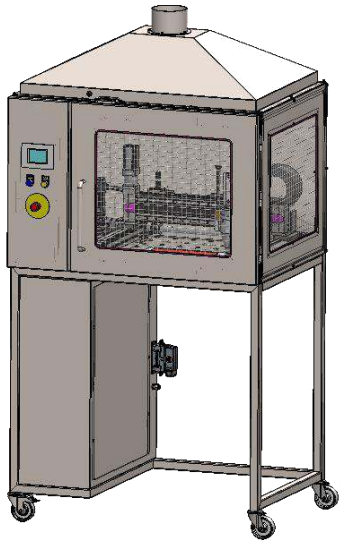
→ PRODUCING FACE MASKS / PPE WITH INCREASED LIFETIME through the addition of antibacterial and/or antiviral additives that can be strongly bound to the material without degradation

Key benefits:

- Room temperature treatment, no degradation of intrinsic properties of the masks / PPE
- Readily scalable technology, web treatment of technical textile
- Mobile technology, transport of the equipment and on-site treatment possible

MPG technology is a cold atmospheric plasma technology: a versatile, easily transportable on-site technology that enables single step, fast processes for treatment and synthesis of sensitive materials, among which are: paper, plastics and textiles. In the current situation of the coronavirus pandemic, two major applications pertaining to RESPIRATORY SAFETY call for urgent testing (see above).





MPG Mobile Equipment

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Literature:

1. S. Lerouge, M. R. Wertheimer, L. H. Yahia, Plasmas and Polym. 2001, 6, 175.
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3. S. Reuter, T. von Woedtke, K.-D. Weltmann, J Phys D: Appl. Phys. 2018, 51, 233001.