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DELLE MARCHE

RESEARCH AREA: COMMUNITY

TITLE: Filtering face masks database for Personal Protection Equipments (PPE): materials, regulations, patents, and performance optimization

Principal investigator: Prof.ssa Chiara GIOSUÈ, c.giosue@staff.univpm.it, tel. 071 2204726

UNIVPM Research Group: Materials Science and Thecnology

Research activity description: Personal protective equipment (PPE) is a main source of protection for emergency and recovery workers. Depending on the type of emergency, PPE can represent also a strategy for the protection of the community. This is the case of the SARS-CoV-2 pandemic, when the main route of exposure is bioaerosol inhalation. Since main protective equipment includes filtering facial masks, therefore a massive production of this PPE was become an urgent issue. The aim of the work is to realize a complete but friendly database of the materials characteristics, regulations, patents, and performance optimization of the final filtering face masks, and making this knowledge available for the local SMEs that are facing the challenge of adapting their production to the new demand.

Collaborators: Stefano VANZETTI, S1068596@studenti.univpm.it, Maria Letizia RUELLO, m.l.ruello@staff.univpm.it
