



Smart Materials for Healthier Living



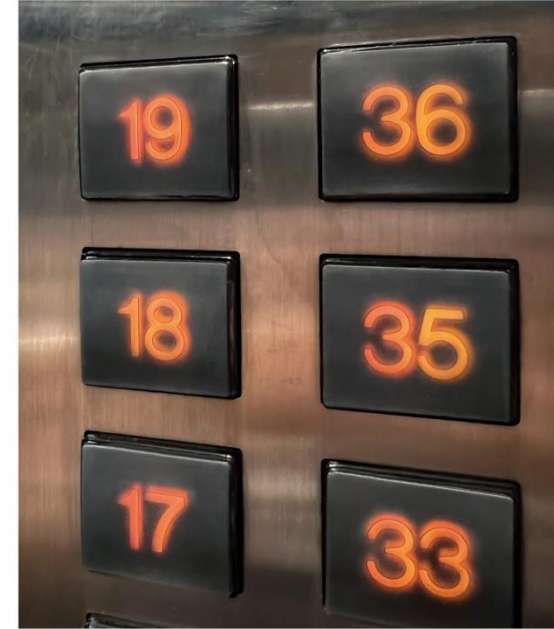
PolyU Supported Research Startup



HOSPITALS & COVID-19 ISOLATION CENTRE

Our Clients

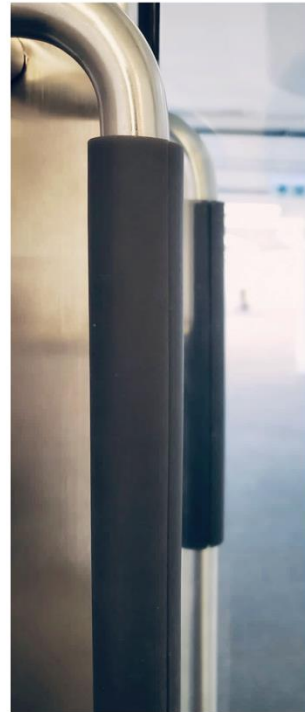
Community COVID-19 Elderly Patient Isolation Centre
Queen Elizabeth Hospital
Union Hospital



COMMERCIAL PLAZA & CONSTRUCTION

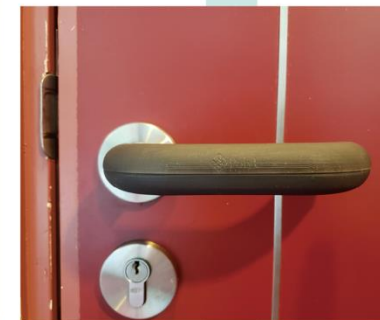
Our Clients

Hip Hing Construction Co., Ltd
Lawsgroup
Sino Group



此地方每日消毒 8 次
This facility is disinfected 8 times a day

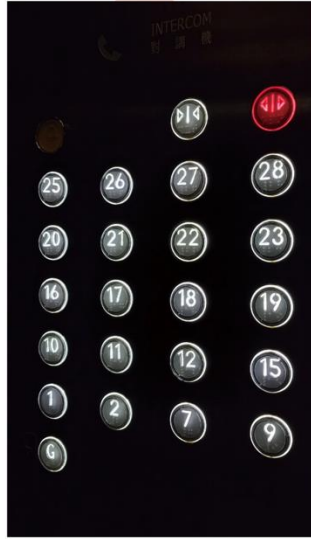
99.9% ANTI-COVID



SCHOOLS & COMMUNITY CENTRES

Our Clients

C.C.C. Heep Woh Primary School
Cheung Sha Wan Sports Centre
Lai Kok Community Hall
The Hong Kong Polytechnic University
Tung Wah College



RESIDENCE, HOTEL & SHOPPING MALLS

Our Clients

Bohemian (New World Property Management)
East Point City
Harbour City
Hotel ICON

Antiviral Efficacy

ANALYSIS AND TEST RESULT

Report No.: 2021FM26031R01E

- Standard test: ISO 21702: 2019
- Against Human Coronavirus 229E

Time	Antiviral rate (%)
Within 2 hrs	99.9
Within 20 min	99.2
Within 10 mins (Accelerated aging samples for 1-year)	90.6
Within 10 mins (Accelerated aging samples for 3-year)	84.3
Within 2 mins	70

Virus and host cell	No.	Infectivity titre value immediate after inoculation of the reference specimen	Infectivity titre value after 20min contacting with the reference specimen	Infectivity titre value after 20min contacting with the test specimen
Human coronavirus HCoV-229E (ATCC VR-740) Host cell: Vero	1	5.90	5.88	3.75
	2	5.83	5.80	3.71
	3	5.75	5.75	3.67
Average logarithm of infectivity titre value lgTCID ₅₀ /mL		5.83	5.81	3.71
Average logarithm of infectivity titre value lgTCID ₅₀ /cm ²		5.63	5.61	3.51
Average infectivity titre value TCID ₅₀ /cm ²		4.23 × 10 ⁵	4.07 × 10 ⁵	3.21 × 10 ⁵
Antiviral activity value		2.1		
Antiviral activity rate (%)		99.2		
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分析
检测专用

Antimicrobial Mechanism



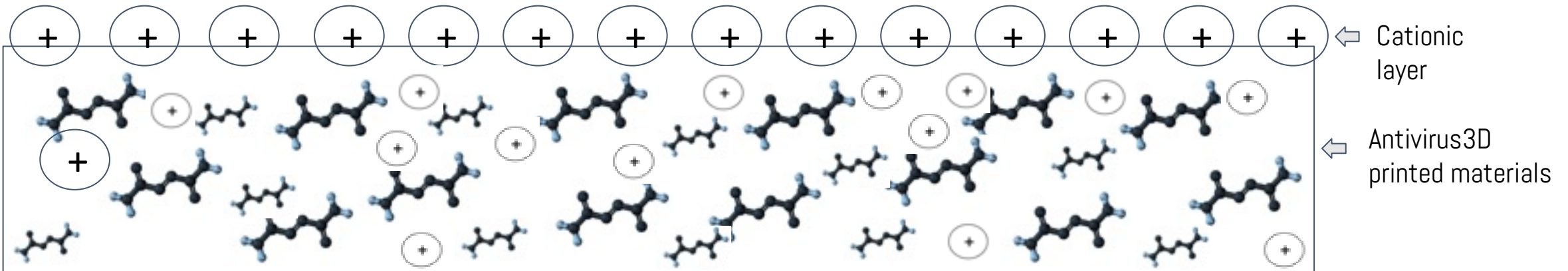
Bacteria



Positively-charged cations are able to rupture the cell walls and envelopes of bacteria and coronaviruses respectively, to make their DNA or RNA exposed and unprotected i.e. bacteria and viruses killed. Different variant forms of viruses will also be killed via this biocidal mechanism.



Coronaviruses



Cationic compounds (US FDA approved, and can apply on surface with food)

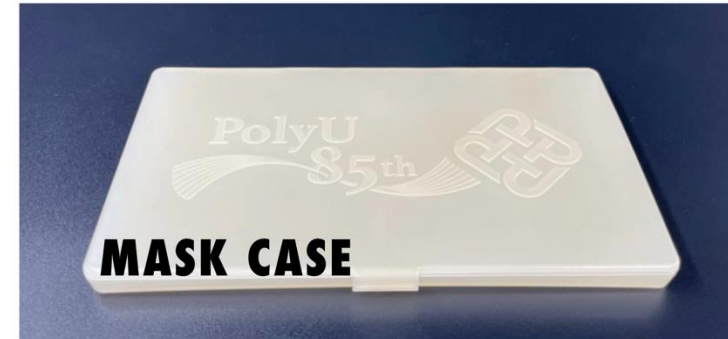
UPCOMING PRODUCTS



ANTIVIRAL HANDLE



**KEY-SHAPED
HAND-FREE
ANTIVIRAL
GADGET**



MASK CASE



RECYCLING BOXES