

**Fig. 1H** Transport velocity of water condensation on different natural and artificial structures.

Surfaces	Transport velocity ( $\mu\text{m s}^{-1}$ )
Natural cactus spine	~ 13
Artificial cactus spine	~ 30
Natural Spider silk	~ 35
Artificial Spider silk	~ 21
Natural <i>Sarracenia</i> trichome	$11738 \pm 1411$
Artificial <i>Sarracenia</i> trichome	$6931 \pm 766$
Concavity of <i>Nepenthes</i> peristome	$7644 \pm 917$
Arch channel of <i>Nepenthes</i> peristome	$187443 \pm 6814$