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Do Hyun Kim
KAIST, Republic of Korea

Superhydrophobic surface has properties of extreme water repellency, showing a very high water contact angle greater than 150° and a very low water drop roll-off angle less than 10° . Water drops on a superhydrophobic surface can roll around freely, while keeping the surface clean by detaching and removing dust from the surface. These surfaces can be easily found in nature, such as a lotus leaf, a dragonfly and a water strider. There are many applications of these unique features such as self-cleaning, drag-reduction, a stain-free fabric, water-oil collecting system, and droplet guiding system. We present methods for the fabrication of stable and transparent superhydrophobic surface and applications of superhydrophobic surfaces. To determine

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